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ASSESSMENT REPORT

on the

1991 DIAMOND DRILLING PROGRAM

Clisbako A to E Groups
(Clisbako 1 to 10, Clisbako 13 to 20 inclusive)

CARIBOO MINING DIVISION

NTS 93C/9E, 16E 93B/12W, 13W

Lat 52°43'N Long 124°03'W

Owner and Operator:

Minnova Inc.
3-311 Water Street.
Vancouver, B.C.
V6B 1B8

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,339

Dave Heberlein.
May, 1992.

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1. INTRODUCTION

1.1 General:

This report documents the results of a 19 hole, 3023.7m diamond drilling program carried out on the Clisbako property between August 12th and September 9th, 1991. The program tested three of the five known occurrences of epithermal style alteration on the property. Objectives of the drilling were to define the structural controls and geology of the alteration zones and to test for economic mineralization.

1.2 Location and Access (Fig. 1):

The Property is located in central British Columbia about 105km west-southwest of the town of Quesnel and approximately 40km southwest of the village of Nazko. It is centred at 52°43' North and 124°03' West.

1.3 Physiography and Vegetation:

The claims form an irregular rectangular block which covers an area of close to 10,000 hectares. East and northeast sides of the claim block cover low lying swampy meadow lands that form the headwaters of the Clisbako River system. Central, south and western parts of the property are hilly with relief in the order of 250m and maximum elevations reaching 1675m at Mt. Dent. The hills form an east west divide between the Clisbako drainage to the north and the Clusko River drainage to the south.

In the northeast and west parts of the property the ground is densely tree covered except where clear cut by recent logging. Timber consists mostly jack pine with local stands of spruce and fir along drainages. Swampy meadow lands to the east and north are

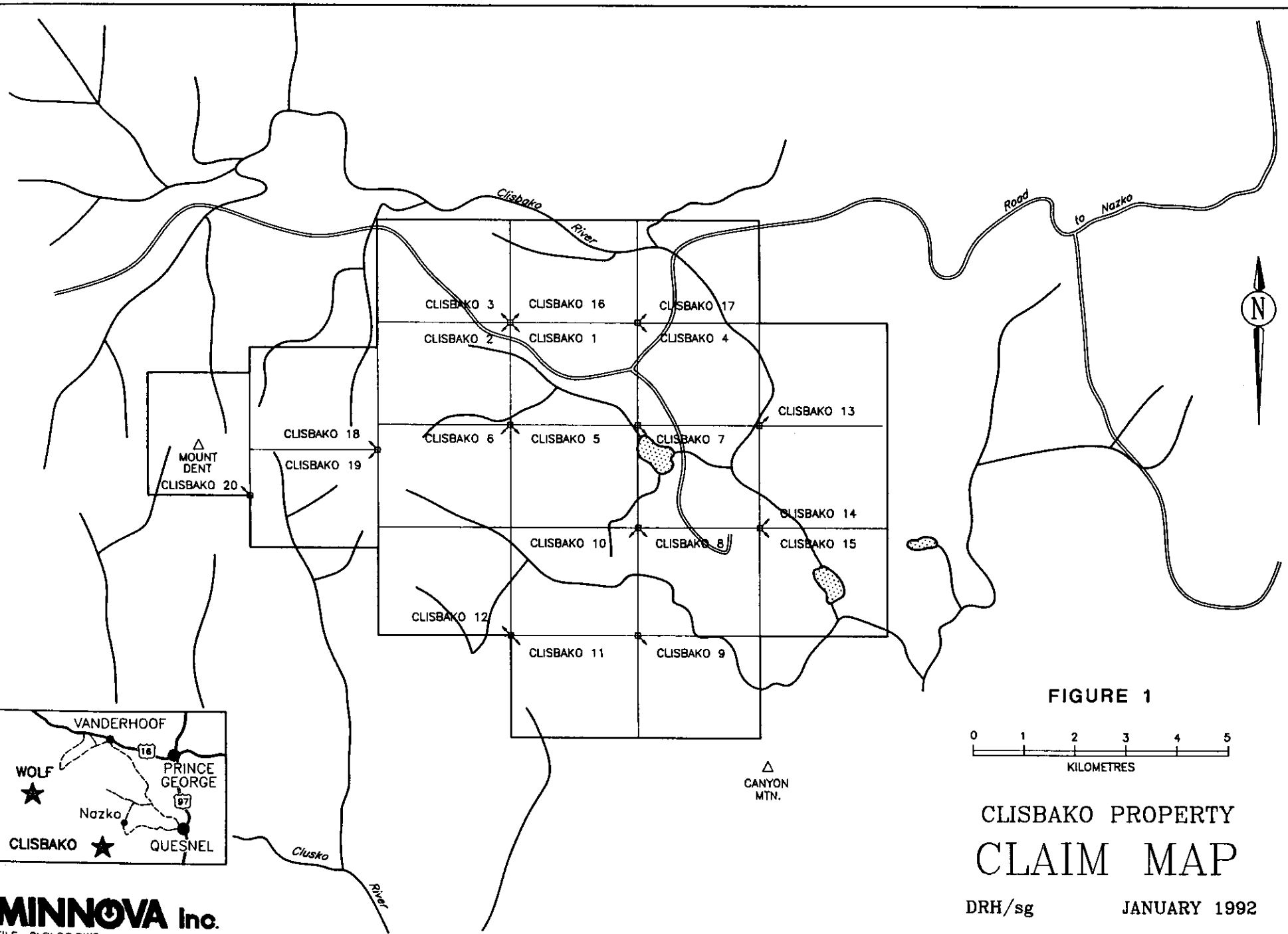
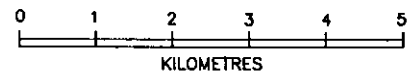


FIGURE 1



CLISBAKO PROPERTY CLAIM MAP

DRH/sg

JANUARY 1992

sparsely treed. Much of the central and southern parts of the property have been burned by several large forest fires in the last 50 or 60 years.

Outcrop is rare and is usually found in deeply incised creek channels and logging road cuts. Most of the property is mantled by glacial till and stratified glacial outwash deposits. Overburden thickness is highly variable. It ranges from less than a metre to over 45m.

1.4 History:

There is no record or evidence of mineral exploration or mining activity on the Clisbako property prior to 1990. Several major companies have carried out regional reconnaissance programs for uranium, oil and gas and epithermal Au-Ag in the region. Most of these, however, were carried out to the south or northwest of the claim area.

The closest mineral property to Clisbako is Rio Algom's OBOY prospect. This is located about 4km northwest of the Clisbako 3 claim. Rio staked this property in the early 1980's and subsequently carried out geological, geochemical and geophysical surveys and a 3000' diamond drilling program. Their target was a weak zone of quartz stockworking with anomalous Au values up to 300 ppb. The property is not presently active.

Attention was focused on the area of the current Clisbako claims when zones of argillic alteration were noted during a regional reconnaissance program by Eighty Eight Resources Ltd. in the summer of 1990. Subsequent follow-up prospecting identified areas of glacial outwash deposits containing abundant epithermal quartz float. This float was eventually traced west and south to its sources and the main outcrops of altered rock were discovered.

Further work that year concentrated on defining the extents of the altered zones by surface mapping, rock and soil geochemistry.

Minnova optioned the property in the spring of 1991 and carried out an extensive program of trenching and detailed mapping and rock sampling on the North, Central, Discovery and South Zones. This program culminated in a 19 hole 3023.7m diamond drilling program in the fall of 1991. Results of this program are the subject of this assessment report.

2.0 CLAIMS

The Clisbako property consists of twenty MGS mineral claims totalling an area of 10,000 hectares. A list of these claims and their expiry dates is shown below.

| Claim | Record No. | Units | Record Date | Expiry* Date |
|-------------|------------|-------|-------------|--------------|
| Clisbako 1 | 10634 | 20 | 06-03-90 | 06-03-96 |
| Clisbako 2 | 10635 | 20 | 06-08-90 | 06-08-96 |
| Clisbako 3 | 10636 | 20 | 06-05-90 | 06-05-96 |
| Clisbako 4 | 10637 | 20 | 06-03-90 | 06-03-96 |
| Clisbako 5 | 10638 | 20 | 06-08-90 | 06-08-96 |
| Clisbako 6 | 10639 | 20 | 06-08-90 | 06-08-96 |
| Clisbako 7 | 10640 | 20 | 06-05-90 | 06-05-96 |
| Clisbako 8 | 10668 | 20 | 06-23-90 | 06-23-96 |
| Clisbako 9 | 10669 | 20 | 06-26-90 | 06-26-96 |
| Clisbako 10 | 10670 | 20 | 06-27-90 | 06-27-96 |
| Clisbako 11 | 10883 | 20 | 09-19-90 | 09-19-92 |
| Clisbako 12 | 10913 | 20 | 09-20-90 | 09-20-92 |
| Clisbako 13 | 10897 | 20 | 09-29-90 | 09-29-94 |
| Clisbako 14 | 10898 | 20 | 09-29-90 | 09-29-94 |
| Clisbako 15 | 10899 | 20 | 09-29-90 | 09-29-94 |
| Clisbako 16 | 11066 | 20 | 04-18-91 | 04-18-96 |
| Clisbako 17 | 11067 | 20 | 04-18-91 | 04-18-96 |
| Clisbako 18 | 11068 | 20 | 04-23-91 | 04-23-95 |
| Clisbako 19 | 11069 | 20 | 04-23-91 | 04-23-95 |
| Clisbako 20 | 11070 | 20 | 04-22-91 | 04-22-95 |

400 Units

* Assuming acceptance of this assessment report.

To file assessment, the claims are grouped into six groupings called Groups A to F in this report. Details of the groups are shown in Appendix IV.

3. GEOLOGY

The Clisbako claim area is predominantly underlain by a well differentiated sequence of subaerial, basaltic to rhyolitic pyroclastics and flows of probable Eocene age (Ootsa Lake Group equivalent). Remnants of a younger (Oligocene ?) rhyolitic pyroclastic unit unconformably overlie the Eocene volcanics in the east-central part of the property and cover a more extensive area immediately to the south. Flat-lying, red, scoriaceous and black vesicular basalt flows overlie the older felsic units and form a relatively broad, flat terrain to the north and east of the claims.

Extensive normal faulting has affected the volcanic pile resulting in an array of variably tilted blocks. Most structures trend in a north, northeast or northwest direction. The latter sets are responsible for the conspicuous orthogonal drainage patterns in the northeast claim area.

At least three major zones and a number of weaker zones of hydrothermal alteration occur in the eastern half of the property. They are epithermal in nature and characterized by widespread bleaching and argillic alteration of the hosting felsic volcanics. Within the argillic zones, local areas of quartz stockworking, silicification and hydrothermal brecciation are developed. The argillic zones contain on average less than 0.5% sulphide minerals. These are typically pyrite and marcasite. In the silicified zones, the sulphide content reaches up to 5% over narrow widths. Most occurs as fine grained disseminations in the matrices of siliceous hydrothermal breccias.

The alteration zones have a typical epithermal geochemical signature. Anomalous to highly anomalous values for As, Sb, Hg, Mo, Ba, Ag and Au are widespread. No ore grade material has yet been found on the property. Highest Au values obtained from grab samples range up to 3.1 g/t. Silver values in excess of 170 g/t have also been obtained.

Outcrop in the northeast property area is sparse and accounts for less than 4% of the total surface area. Bedrock exposures are mostly confined to the more incised drainage channels and steeper hillsides. Due to their more resistant nature, silicified and veined outcrops form some of the best and most continuous outcrops. For a complete description of the main geological units and details of each altered area, the reader is referred to the geological and geochemical assessment report on the property by Dawson (1991).

4. DIAMOND DRILLING

4.1 Program Summary:

A diamond drilling program consisting of 19 holes, totalling 3023.7 was carried out between August 12th and September 9th, 1991. Drilling was performed by Frontier Drilling Ltd. of Langely, B.C., using a skid-mounted Longyear Super 38 diamond drill and NQ rods. Drill core was logged by D. Heberlein and P. Thiersch at Minnova's core storage facility on the property (Fig. 2).

Drill core was routinely split in 2 metre sections (or less if lithology dictated) and half of the core was shipped to Minen Labs in North Vancouver for geochemical analysis. Gold was determined by fire assay with an AA finish and Ag, As, Bi, Cu, Pb, Zn and Sb by ICP. Mercury was determined by AA using the cold vapour technique.

Drill hole locations are shown in Figure 2 and summarized in the table below. All coordinates are in UTM grid units. Drill logs and analytical results are presented in Appendix 1.

DIAMOND DRILL HOLE LOCATIONS

| <u>HOLE</u> | <u>UTM EAST</u> | <u>UTM NORTH</u> | <u>ELEV.</u> | <u>AZM.</u> | <u>DIP</u> | <u>LENGTH</u> |
|--------------|-----------------|------------------|--------------|-------------|------------|-----------------|
| CL-91-01 | 429363 | 5841168 | 1315m | 290° | -51° | 194.2m |
| CL-91-02 | 429482 | 5841140 | 1316m | 290° | -45° | 181.2m |
| CL-91-03 | 429482 | 5841140 | 1316m | 290° | -70° | 184.2m |
| CL-91-04 | 429637 | 5841096 | 1313m | 290° | -45° | 202.7m |
| CL-91-05 | 429463 | 5841035 | 1321m | 290° | -45° | 177.1m |
| CL-91-06 | 429344 | 5841042 | 1317m | 290° | -45° | 201.8m |
| CL-91-07 | 429874 | 5840925 | 1312m | 270° | -45° | 183.5m |
| CL-91-08 | 429683 | 5841202 | 1310m | 290° | -45° | 147.8m |
| CL-91-09 | 429403 | 5841285 | 1312m | 290° | -45° | 184.4m |
| CL-91-10 | 429564 | 5841280 | 1306m | 290° | -45° | 154.5m |
| CL-91-11 | 429591 | 5841350 | 1305m | 290° | -45° | 194.1m |
| CL-91-12 | 429436 | 5841366 | 1300m | 290° | -45° | 197.2m |
| CL-91-13 | 429932 | 5839182 | 1290m | 315° | -55° | 151.5m |
| CL-91-14 | 429805 | 5839487 | 1311m | 125° | -45° | 124.1m |
| CL-91-15 | 429805 | 5839487 | 1315m | 125° | -70° | 160.0m |
| CL-91-16 | 429760 | 5839520 | 1316m | 125° | -55° | 162.8m |
| CL-91-17 | 429832 | 5839555 | 1323m | 120° | -45° | 67.0m |
| CL-91-18 | 429833 | 5839555 | 1323m | 120° | -70° | 63.1m |
| CL-91-19 | 429782 | 5839577 | 1323m | 120° | -45° | 92.5m |
| TOTAL | | | | | | 3,023.7m |

4.2 Results:

Results of the drilling program are summarized below.

North Zone:

Drill holes CL-91-1, 2, 3 and 4 were drilled on a section oriented at 315°. They were drilled to test north trending structures observed in surface exposures at the North Zone. Holes 1, 2 and 3 penetrated a relatively flat lying sequence of complexly inter-layered ash flow tuffs, glassy rhyolite flows, crystal tuff and heterolithic tuff breccia. In holes 2 and 3 an intermediate

feldspar-biotite-hornblende porphyry body, interpreted to be a sill, cuts the sequence. This unit is not present in hole 1.

Hole 4 intersected a different stratigraphy consisting of interbedded heterolithic block and tuff breccias and flow banded perlitic rhyolite. A fault is inferred to separate this sequence from that seen in holes 1, 2 and 3.

Rocks in holes 1, 2 and 3 are moderately to strongly clay altered throughout, and contain structurally localized zones of silicification and quartz stockworking. These reach up to 50m in width and contain varying amounts of pyrite and marcasite (trace to 5%). Sulphides are mostly concentrated in irregular, black quartz stringers and in the matrices of narrow breccia veins. Intensely silicified zones are commonly bounded by gougy faults or zones of intense clay alteration.

Strongly altered zones occur in hole 1 between 10.8 and 21.0m and 43.35 and 60.3m. The upper interval is highly anomalous for Ag (to 77.0 ppm) and Hg (to 12,375 ppb) while the lower zone is moderately anomalous for As (to 1842 ppm). Gold values are weakly anomalous throughout the altered zones (to 197 ppb). Similar weakly anomalous values occur in altered zones in holes 2 and 3. In hole 2, strong silicification is present between 78.4 and 124.8m. Gold values in this interval vary between 30 and 90 ppb with single sample highs up to 230 ppb. Arsenic and Hg values are slightly anomalous.

In hole 3, silicification occurs between 19.5 and 82.5m, 129.2 and 131.3m and 171.9 and 180.5m. Precious metal and trace element values are comparable to those in hole 2.

Drill holes CL-91-8, 9 and 10 were collared on a parallel section 150m to the north. Similar lithologies and alteration zones to those in holes 1, 2 and 3 were encountered. Hole 9, in

particular, intersected a wide zone of intensely clay altered, pyritic quartz stockwork from 0.0 to 76.5m. In this interval, Au values are about twice as high as in holes 1 to 4, with an average of 130 ppb. Silver and As are also quite anomalous with averages of 8 ppm and 1,419 ppm respectively.

In hole 10, values are generally weaker than in hole 9 despite intersecting several zones of argillization, silicification and stockworking. The most intense alteration occurs from 53.8 to 60.9m. Here, Au and Ag values are not anomalous, however Hg is strongly elevated (up to 17,000 ppb).

Holes CL-91-11 and 12 were drilled on a parallel section 100m to the north of holes 8, 9 and 10. Again, similar lithologies and alteration zones were encountered. Hole 12 intersected a wide zone of argillic alteration and pyritic quartz stockworking between 127.0 and 171.2m. Similar, but weaker zones are also present higher in the hole, between 99.7 and 106.8m and 123.0m to 127.0m. No significant precious metal values are present, however Au, Ag, As and Hg and geochemically anomalous in the most altered parts.

Holes CL-91-5, 6 and 7 were drilled on a parallel section 100m to the south of holes 1, 2, 3 and 4. Hole 5 intersected an interval of strongly argillized and variably silicified quartz feldspar porphyry. In the most intensely altered areas, the feldspar phenocrysts are completely corroded, leaving numerous open cavities. These frequently are lined with white clay and sometimes contain bladed marcasite crystals and possibly barite. Strongest silicification occurs between 70.6 and 76.0m, 117.5 and 150.0m and 154.3 and 156.0m. None of these zones are particularly anomalous for Au, Ag or trace metals.

A similar sequence to hole 5 occurs in the top 49.0m of hole 6. In addition to being acid leached and variably silicified, a

strong pyrite-quartz-calcite stockwork is present. This alteration is contained in and disrupted by a wide, gougy fault that parallels the hole to a depth of 118.0m. Clasts of amygdaloidal andesite are noted in the fault gouge. From 120.1 to the end of the hole at 201.8m, the sequence consists of interbedded tuff breccia, perlite and flow banded rhyolite; similar to the sequence in holes 4 and 8. No significant anomalies are present in the hole.

Central Zone:

Hole 7 was drilled to test the Central Zone. It penetrated a sequence of interlayered rhyolite breccias, flow banded rhyolite and amygdaloidal andesite flows. The rocks are weakly argillized throughout the hole. A zone of strong argillic (\pm chlorite) alteration and pyrite veining was intersected between 138.5 and 157.8m. Patchy silicification is present over narrow widths in this section. No significant Au or Ag values were obtained.

South Zone:

At the South Zone, a total of seven holes (CL-91-13 to 19) were drilled. Hole CL-91-13 was drilled to the west beneath the main surface showing. It intersected propylitized sequence of rhyolite breccias and feldspar-quartz porphyry flows and breccias. Alteration was only encountered in the top 12.8m of the hole. Here a zone intense silicification, brecciation and quartz-pyrite stockworking occurs in argillized amygdaloidal andesite. The alteration is sharply truncated by a fault at 12.8m. The silicified zone is moderately to strongly anomalous for As (1,037 ppm), Sb (36 ppm), Ag (4.3 ppm) and Hg (3,120 ppb). Underlying rocks returned only background values for these elements.

Holes CL-91-14, 15 and 16 were drilled as a fence to test the northern extension of the South Zone alteration. All three holes penetrated strongly argillized and quartz-pyrite \pm calcite

stockworked amygdaloidal andesite overlying propylitized interbedded rhyolite flows and breccias. At the fault contact between these two units a narrow (1.1 to 10m) zone of intensely silicified andesite breccia is present.

In hole 14, strongly developed quartz-pyrite+calcite stockwork zones were intersected between 34.8 and 49.2m, 53.2 and 60.5 and 73.0 to 82.8m. Despite being strongly altered, these zones are not highly anomalous for any of the analysed metals. The most anomalous trace metal is As, which reaches concentrations of 361 ppm. Identical zones in hole 15, also contain anomalous Hg values (to 3,650 ppb). Gold values are only slightly elevated (to 72 ppb) in these holes.

Strong silicification and quartz-pyrite stockworking was intersected between 86.5 and 134.2m in hole 16. Host rocks in this interval are intensely argillized and contain patches and veinlets of chlorite. Above the altered zone, the section consists of complexly interbedded lahar breccias and amygdaloidal andesite flows. These become increasingly argillized and veined towards the silicified zone. Below the alteration zone, interlayered rhyolite breccias and flow banded quartz-feldspar porphyries constitute the section.

CL-91-17, 18 and 19 were drilled on a parallel section 100m to the north of 14, 15 and 16. Hole 17 collared in a quartz-chalcedony-pyrite stringer zone which terminates at a fault at 41.3m. The alteration is hosted by amygdaloidal andesites and andesite breccias identical to those seen in holes 14 and 15. A narrow intensely silicified breccia vein is present at the fault between 39.2 and 40.3m. Below the fault, the hole penetrated a section of rhyolite flows and breccias.

Hole 18, drilled beneath hole 17 encountered an identical sequence. The strongly altered zone is present from 36.6 to 43.5m

with a narrow breccia vein between 41.4 and 43.5m. Weakly anomalous values for Au (to 310 ppb) and Ag (to 3.1 ppm) and moderately anomalous Hg (1,400 ppb) and As (595 ppm) values are present in the silicified zone in hole 17. Values of up to 122 ppb Au, 3.3 ppm Ag, 1,130 ppb Hg and 60 ppm As were returned from the alteration zone in hole 18.

Hole 19 was drilled beneath holes 17 and 18 to test the alteration zone at depth. It penetrated a sequence of unaltered to weakly altered lahar breccias, amygdaloidal andesite and rhyolite breccias. The lahar units correlate well with those present at the top of hole 16. Strong alteration was encountered between 81.7 and 85.6m; at the fault contact between the andesites and the rhyolite breccias. Strong silicification, hydrothermal brecciation and quartz-pyrite stockworking characterize this zone. Once again a narrow breccia vein is present at the fault contact, between 81.9 and 82.8m. No anomalous values were encountered.

5. SUMMARY AND CONCLUSIONS.

Drilling in the North Zone confirmed the presence of several sub-vertical, north trending zones of epithermal-style silicification and quartz-pyrite~~calcite~~ stockwork. These zones are hosted by strongly argillized felsic pyroclastics rocks. They have been tested over a strike length of at least 375m by the drilling. The alteration remains open to the north, south and west. On the east side it is bounded by a north trending fault. Geochemically anomalous values for Hg, As, Sb, Ag and Au are associated with the strongest alteration. No ore grade material was found by the drill program.

Drilling at the South Zone defined a narrow silicified zone at a fault contact between an amygdaloidal andesite and lahar unit and a sequence of rhyolite breccias and flows. In the hanging wall (west) of the fault, the country rocks are variably argillized and

stockworked with quartz-pyrite veinlets. The drilling has defined this zone for a strike length of about 100m. No economic values were encountered, however As, Sb, Au, Ag and Hg are locally geochemically anomalous in the most altered zones.

6. REFERENCES.

Dawson, J.M., 1991; Geological and Geochemical Report on the Clisbako Property. Assessment Report.

APPENDIX I
STATEMENT OF COSTS

STATEMENT OF COSTS

DIAMOND DRILLING

| | |
|--|-----------|
| Direct Drilling Costs (3023.7m @ \$48.58/m) (Frontier Drilling Ltd.)..... | \$146,902 |
|--|-----------|

ANALYTICAL COSTS

| | |
|---|-----------|
| Min-En Labs, North Vancouver, B.C: (932 Geochem for Ag, As, Bi, Cu, Pb, Sb, Zn, Au, Hg @ \$18.93/sample)..... | \$ 17,643 |
|---|-----------|

PERSONNEL

| | |
|---|---------|
| D. Heberlein - Senior Project Geologist 16 days @ \$250/day..... | \$4,000 |
| P. Thiersch - Project Geologist 28 days @ \$160/day..... | \$4,480 |
| Greg Duso - Assistant 28 days @ \$115/day..... | \$3,220 |
| Lloyd Cornish - Core Splitter 18 days @ \$105/day..... | \$1,890 |
| Nancy Kastelein - Cook 19 days @ \$115/day..... | \$2,185 |

LOGISTICS

| | |
|---|---------|
| Vehicles:..... | \$1,787 |
| Room and Board: (106 mandays @ \$25/day)..... | \$2,650 |
| Sample Shipment:..... | \$243 |

MISCELLANEOUS COSTS

| | |
|-------------------------|----------------|
| Report Preparation..... | 550 |
| Supplies:..... | \$175 |
| Travel Expenses:..... | <u>\$1,211</u> |

TOTALS

\$186,936

**APPENDIX II
DIAMOND DRILL LOGS AND
ANALYTICAL RESULTS**

HOLE NUMBER: CL-91-01

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: CLISBAKO
PROJECT NUMBER: 667
CLAIM NUMBER:
LOCATION: North Zone

PLOTTING COORDS GRID:
NORTH: 41168.00M
EAST: 9363.00E
ELEV: 1315.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 1315.00

COLLAR DIP: -51° 0' 0"
LENGTH OF THE HOLE: 194.20m
START DEPTH: 0.00m
FINAL DEPTH: 194.20m

COLLAR GRID AZIMUTH: 290° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 290° 0' 0"

DATE STARTED: August 13, 1991
DATE COMPLETED: August 14, 1991
DATE LOGGED: August 14, 1991

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: Frontier Drilling Ltd.
CASING: 10 ft. left in hole
CORE STORAGE: at camp

PURPOSE:

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 63.10 | - | -50° 0' | ACID | OK | | - | - | - | - | - | |
| 114.90 | - | -50° 0' | ACID | OK | | - | - | - | - | - | |
| 194.10 | - | -54° 0' | ACID | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
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| - | - | - | - | - | | - | - | - | - | - | |

HOLE NUMBER: CL-91-01

DRILL HOLE RECORD

LOGGED BY: D. Heberlein

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|------------------|--|-------------|--|---|---|
| 0.00 TO 9.10 | «CASING» | | | | | Casing reamed down to 13.7 m |
| 9.10 TO 10.80 | «TILL» | | | | | |
| 10.80 TO 28.00 | «WEATHERED ZONE» | <p>Colour: pale grey Basalt boulders, some oxidized qtz vein material; a zone of highly broken core made up of rounded qtz vein frags in a matrix of gougy clay; maybe a fault zone; clasts approx. 65%, 2-40 mm; below 14.2 m a pale grey highly argillized felsic volcanic (highly broken) dominates core</p> <p>‡10.8-11.4‡ «bx vn(s)» -med. grey -one or more narrow breccia veins 2-15 mm wall rock clasts</p> <p>‡11.4-14.8‡ «fault gouge» -unlithified fault breccia; consists of angular qtz and volcanic (bleached) clasts in a creamy white clay matrix</p> <p>Fragment supported; clasts range from < 1 mm to 30 mm</p> <p>‡14.8-19.0‡ «FXTF» -total replacement of rock by pale grey clay; some feldspar crystals still visible; these are replaced by medium green clay rock v. soft and crumbles easily</p> <p>‡19.0-21.0‡ «vn Bx» -one wide vein or a zone of smaller veins; difficult to tell; poor recovery - only rounded pebbles recovered; vein consists of grey glossy qtz with 40-60% argillitized - angular wallrock clasts, clasts are of FXTF</p> <p>‡21.0-27.4‡ «gouge»</p> | | <p>Intense argillite alteration - almost complete replacement of host rock; qtz vein frags up to 3.5 cm; converted to gougy zone near surface; maybe a result of weathering</p> <p>-composed of medium grey to white qtz contains angular clasts of completely silicified wall rock material; clasts rimmed by weakly banded qtz; light coloured qtz forms vein margin cl</p> <p>-Jarosite stained</p> <p>‡14.8-19.0‡ «S. Arg» -may be enhanced by near surface weathering</p> <p>-m. arg. of clasts</p> | <p>None visible, but weak limonite and jarosite staining suggests trace amounts</p> <p>‡10.8-11.4‡ «tr. py» -microscopic</p> <p>‡15.4-15.6‡ «pyritic str. -5%»</p> <p>-mod. jarosite staining of argillized clasts; clasts are cut by parallel fine chalcedony microveins prior to brecciation</p> <p>‡21.0-27.4‡ «m - s arg»</p> | <p>2 stages of Alteration</p> <p>1. argillization and parallel qtz or chal micro veins</p> <p>2. incorporation into qtz vein bx</p> |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--------------|--|-------------|---|--|---|
| | | -green grey -a zone of homogeneous gouge - consisting of fine rock fragments in a green clay matrix; clasts comprise 75% of rock - most are < 1 cm; no other textures; large clast of FFFF @ 22.8 m; this block is > 10 cm in length and contains several qtz and chalcedony micro veins | | | | -sparse qtz (vuggy) micro veins -tr py in <'s |
| 28.00 TO 29.60 | «CLAY GOUGE» | Colour: green Massive, green clay zone - strong alteration of FXTF? | | «l. arg» -a zone of massive green clay; almost a plastic consistency | | -trace to 2% fine d. py 29.5-29.6 « py str. zone - 5%» |
| 29.60 TO 37.90 | «FXTF» | Colour: med. grey Moderately altered feldspar crystal tuff; - most primary textures are obliterated by argillization; some remnant feldspars noted; crude bedding between lapilli bearing and non bearing tuffs e.g. @ 31.1 m; some lapilli are preferentially pyritized 32.0-33.6 «Qz stwk» -brecciated and heal wallrock; qtz stockworking forms networking texture around argillized and pyritized wallrock frags 33.6-34.2 «Micro bx» -weakly pyritized wallrock frags (to 15 mm) make up 80+% of rock; matrix is comprised mostly of clay; clasts of cream coloured of Qz vein material suggest multistage alteration 34.2-35.4 «Jigsaw bx» -angular wall rock frags separated by veins of black to dark grey qtz; veinlets are themselves microbrecciated to a mm scale; some of the larger veins are vuggy 35.4-37.91 «Qz stwk» -see 32.0-33.6 m | 45 | «m. arg» -w. sil. - patchy qtz veins and jigsaw veins developed from 34.1 and 35.7 m; adjacent rocks weakly sil. and brecciated 32.0-33.6 «m-s sil; m. arg» -qz stockwork vuggy microvein showing fine drusy and comb textures -some veinlets show slight banding in approx 2 bands 33.6-34.2 «m. arg» 34.2-35.9 «m. sil and w. arg of clast s» | «tr - 1 %» -fine py mostly in <'s as patches and selvages; some dusting of lapilli 32.0-33.6 «<1% py» -<1% py as fine disseminations; py forms envelopes around early stringers; these are cut by late white vuggy <'s 33.6-34.2 «1% py» -concentrated in argillized matrix as fine disseminations 34.2-35.4 «tr - 1% as fine diss. in Qz veins» | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|--|-------------|---|--|--|
| 37.90 TO 45.35 | «FXTF» | <p>Colour: pale grey Grain Size: A highly argillized interval of the FXTF unit; all but a few remnants completely altered to a gougy grey clay; hazy breccia textures noted near top of the interval (37.9-40.5 m); intensity of alteration increases in central part of int.; here rock is reduced to a plastic clay gouge; -possibly a fault</p> <p>‡37.9-40.5‡ «Bx» -yellow clay highlights remnant wall rock frags these are quite large - up to 50 mm and appear to be angular; possibly a primary influence breccia</p> <p>‡42.6-44.8‡ «gouge» -a zone of intense clay gouge; few remnant frags of vein or wall rock; many v. small angular Qz - py frags - maybe vein remnants; clay has a putty like consistency</p> | | <p>«X-ARG»</p> <p>A few hairline ch <'s noted in the more competent part of int.</p> <p>-pervasive alteration of clasts by yellow clay; matrix is a mixture of white and dark grey material contains fine disseminated py; yellow clay also forms veinlets that cut the matrix</p> | <p>«tr. diss. py»</p> <p>V. fine grained py cubes widely scattered through interval</p> <p>-possibly some remnant py veinlets</p> | Fault? |
| 45.35 TO 66.80 | «DACITE TUFFS AND FLOWS» «MINERALIZED ZONE» | <p>Colour: pale yellow grey A well laminated but unbedded feldspar crystal tuff; laminations are highlighted by a strong parallel microveining along the lam. planes; planes are spaced about 5-15 mm apart; the rock is composed of 2-5 mm, euhedral Kf and plagioclase laths (PF > KF) in a matrix of fine grained, ashy material; unaltered remnants show clear glassy shards - vitric; the euhedral and randomly oriented feldspars may also indicate a flow rock</p> <p>‡47.95-49.9‡ «sil. bx» -crosscutting zone of brecciation in places appears to be a stockwork of breccia veins in</p> | | <p>«s-arg; m-sil»</p> <p>-rock is altered by a reticulate network of concordant and crosscutting Qz <'s; concordant <'s are spaced approx. 5-15 mm apart - may be following lamination or flow banding in host; around Qz <'s the rock is pervasively argillized (sericitized?) to a yellow colour; these argillic envelopes enclose remnants of weakly altered dacite; feldspars, particularly PF are sericitized to a medium green colour KF is unaffected</p> <p>Later zones of silicified breccia cut the rock; these are healed by Qz containing abundant py</p> <p>‡47.95-49.9‡ «s-sil; m-arg» -breccia matrix is strongly silicified with dark grey Qz; in places vuggy</p> | <p>«3-5% diss py»</p> <p>-py occurs through argillic envelopes as fine diss.; it also is present as selvages and patches in crosscutting Qz vein breccias; in breccia zones py may exceed 5%</p> <p>‡47.95-49.9‡ «py 1-3%» -mostly as remnants and clasts of earlier py veinlets</p> | Note: vein breccia zone younger than py str and reticulate veining |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|-----------|--|-------------|---|--|---|
| | | <p>others a silica healed breccia; lithic frags are angular and rotated; pyritic veins also fragmented</p> <p>‡53.1-54.0‡ «vein bx» -a cross cutting silicified breccia zones; irregular contacts; in places it is parallel to c.a. elsewhere almost perpendicular; textures more chaotic than previous interval; clasts angular and v. poorly sorted; range from 1 mm to > 40 mm</p> <p>‡58.4-58.9‡ «jigsaw bx» -a narrow crosscutting breccia vein; more of a jigsaw breccia than the previous intervals; fragments only separated no rotated</p> <p>‡59.8-60.35‡ «Vein bx»</p> | 10 | <p>cavities are abundant; these are lined with small Qz crystals</p> <p>‡53.1-54.0‡ «s-sil; w-arg» -clasts are partly silicified in this interval; this overprints the earlier clay alteration; matrix completely replaced by grey, glassy Qz; in places vuggy</p> <p>‡58.4-58.9‡ «m-sil; m-arg»</p> <p>‡59.8-60.35‡ «w-sil; m-arg» -much less silicified than above examples</p> | <p>‡53.1-54.0‡ «1-2% py» -distinctive platy or fibrous forms noted. This may be marcasite; there crystals occur predominantly in the matrix; the dark coloration is caused by finely disseminated "dusty py"</p> <p>‡58.4-58.9‡ «tr-1% py» -mostly in glassy Qz matrix</p> <p>‡59.8-60.35‡ «1-3% py» -mostly as disseminations and dustings in wallrock clasts</p> | |
| 66.80 TO 69.10 | «FAULT» | <p>Colour: yellow, green and maroon As unmineralized fault zone juxtaposing dacitic flow and maroon and green volcanoclastic sediments; contact @ 67.1 m; rock units are highly broken and milled to a gouge</p> | | <p>«w-arg» -alteration predates fault</p> | | |
| 69.10 TO 72.60 | «PERLITE» | <p>Colour: pale green grey Interval has a distinctive web texture of Qz <'s these form rounded patterns reminiscent of perlitic texture in devitrified glassy flow; the unit is shot through with fine, irregular Qz <'s that form the matrix to a breccia; the clasts consist of spherulites (non argillized) and larger angular blocks of perlite; this texture suggests that the protolith was originally a glassy flow</p> <p>‡71.8-72.2‡ «fault» -still coherent interval; clasts separated but no rotated; (colour: yellow grey); no healing although some fractures contain yellow clay; no significant movement likely - just a minor crush zone</p> | | <p>«w-arg; w-m sil» The rock has been weakly argillized to a yellow coloured clay; perlitic fractures have been healed by Qz <'s to give the distinctive web texture, where brecciated, the matrix has been veined by Qz <'s which coalesce to form patches of silicification</p> <p>-yellow clay veinlets head some fracs in fault zone</p> | «tr. py on <'s» | Odd perlitic texture may indicate a devitrified flow rock - rhyolite? |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|-------------------------|--|------------------|---|---|--------------------|
| 72.60 TO 77.50 | «BRECCIA» | Colour: green A coarse grained breccia composed of subangular clasts up to 10 cm across; a mixture of clasts are present; these include perlite, laminated sediment and dark green, intensely clay altered material, breccia is clast supported; matrix consists of dark green clay; some clasts of fsp phyrlic dacite also noted | | «m to s-arg» -clasts are argillized to a yellow clay; matrix is composed mainly of dark green waxy clay silica veinlets head breccia over narrow intervals | «tr. py» | |
| 77.50 TO 86.90 | «PERLITE» | Colour: grey A very similar unit to the previous perlite; this to displays well developed web textures forming rounded spherulites or lithophysae; this is almost certainly a devitrification feature; the concentric fractures are healed by later hairline >'s of grey Qz; not as intense as in the previous interval; alteration balls up to 8 cm across present lower in interval | | «w-arg; vw-sil» Rock is weakly altered by pervasive clay; below 78.8 m, the unit contains purplish balls; these appear to be a replacement feature as evidenced by fine concentric zoning and curvilinear contacts; some of the balls have 1-2 mm rims of micro crystalline Qz; balls are themselves cut by late pyritic st. | «tr py - 1%» Late py stringers are prevalent throughout interval; these cut all other textures except for narrow vuggy clear Qz veins which cut them; py abo present as hazy patches of fine crystals in the alteration balls and in the matrix; pyritization of balls suggests that reddish colour is due to hematite | Alteration Balls!! |
| 86.90 TO 87.20 | «FAULT» | Gougy brecciated zone | 70 | | | |
| 87.20 TO 105.50 | «HETEROLITH IC BRECCIA» | Colour: yellow grey An unusual unit composed of blocks of perlite and finely laminated tuffaceous sediment in a sandy tuffaceous matrix; clasts are angular to rounded with a maximum length of 150 mm; intervals within the breccia of bedded ash show a consistent orientation suggesting that they are sedimentary intercalations; some of these have been incorporated into the breccia i.e. rotated Bedding @ Some laminated sections are internally offset by sharp fault planes ‡101.0-102.4‡ «FXAT» -a large clast or interval of argillized feldspar crystal ash tuff; unit shows a strong bedding fabric @ | 48 40 | «m to s-arg; w-sil» Matrix is variably altered to a dark green clay; in places the breccia matrix consists of brown hematite; e.g. 91.4 m Clasts of perlite are strongly altered to yellow clay or sericite ‡101.0-102.4‡ «s to i-arg» -various brightly coloured clays; matrix is dark green clay - white clasts are yellowish; green clay <'s also cut zone | «tr py» py occurs only in later cross cutting <'s and as sparse diss. ‡101.0-102.4‡ «1-3% diss py» coarser clusters and patches of diss. crystals - mostly in tuff clasts e.g. 108 m | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---------------------------------|--|-------------|--|-----------------|---|
| 105.50 TO 110.60 | «TUFF BX» | <p>Colour: green</p> <p>Interval of breccia composed of large (20 cm) blocks of highly altered FXTF; the tuff contains flattened slivers of silica which could be vitric shards; round Qz crystals make up about 2% of unit feldspars pseudomorphs are visible in places; breccia is clast supported</p> | | <p>«s-i arg»</p> <p>Clasts are strongly argillized to a yellow green colour; superimposed on this is a stockwork of dark green <'s; this mineral could be chlorite</p> <p>Traces of hematite occur with some to the larger veinlets; intensity of veining is approx 4-6/m</p> | «diss. py 3%» | |
| 110.60 TO 117.50 | «PERLITE BX » | <p>Colour: green</p> <p>A distinctive unit composed of angular to sub-rounded clasts (2-8 cm) of perlite; typical of web texture indicative of devitrification; rock is clast supported; matrix consists of finer grained breccia and breccia veins; these are intensely chloritized; a fine stockwork of calcite veinlets cuts both the fragments and the matrix</p> <p>‡110.6-114.5‡ «Perlite» -only slightly brecciated</p> <p>contact @ 117.5 m</p> | 45 | <p>«s-chl; w-arg»</p> <p>Pervasive chloritization of the matrix and along fractures in the perlite; calcite veinlets superimposed on chl. some clasts are rimmed by pale green clay</p> | «tr. py» | Propylitic alt. |
| 117.50 TO 143.80 | «FLOW BANDED RHYOLITE» (LATITE) | <p>Colour: buff</p> <p>Grain Size: aphanitic</p> <p>Aphanitic - v. hard unit showing a fine regular parallel banding over the entire interval; bands caused by small scale spots that align to form strings; this may also be a devitrification texture; no Qz of Fx crystals visible</p> <p>Banding @ 134.4 m</p> <p>Black spots of chlorite may be after original biotite @ 136.2 m</p> <p>‡126.0-126.6‡ «chl vein bx» massive, dark green cl vein forming matrix to</p> | 60 70 | <p>«m-cl STWK»</p> <p>Propylitic alteration; the interval is cut by microveinlets of chlorite (+/- calcite); stringer density approx 80/m, most <1 mm wide</p> <p>‡126.0-126.6‡ «i-cl»</p> | «py approx. 1%» | These cut the flow banding and some of the cl stringers |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--------------------|---|-------------|--|--|---------|
| | | brecciated interval; vein | | | | |
| 143.80 TO 151.50 | «PERLITE» | Colour: grey to green Interval of perlite becoming progressively more brecciated and chloritized down hole; in upper part of interval perlitic or web textures are superimposed on the flow banding seen at lost interval {48.7-48.8} «hematic bx» -10 cm interval of heterolithic bx; clast of bedded ash tuff and argillized perlite are healed by orange brown goethite bedding @ Clasts angular frag supported texture | 70 | Weak cl near the top becoming stronger near bottom; fine calcite <'s occur throughout; these may reach 30/m | «tr py» | |
| 151.50 TO 160.50 | «HETEROLITH IC BX» | Colour: green Fragment supported breccia made up of bedded ash tuff and perlite clasts; textures vary from coarse poorly sorted to finer grained and less sorted; finer grained intervals are more matrix supported; tuff clasts are strongly argillized; many have fuzzy outlines suggesting partial destruction; coarser interval show less strongly altered clasts those have rinds of intense arg.; bedded intervals are thin 157.0-157.2 -vein like breccia cutting main unit; highly chloritic | | «m-s arg; m-s chl; m-ca» calcite present in sparse <'s; bleached rims around bigger clasts are calcitic!! -s-cal is envelope around bx | «tr-1% diss py» Mostly as scattered xtals in matrix; some py also noted in more intensely argillized tuff frags | |
| 160.50 TO 194.20 | «FQXT» | Colour: l. grey Grain Size: medium A homogeneous unit of crystal tuff; it consists of PF and Qz fragments ranging from microscopic size to approx 8 mm; PF are randomly orientated and generally euhedral; Qz crystals are rounded and smokey with broken forms common; chloritic laths may have been primary biotites; matrix is ashy crystal material Weak banding or bedding present - no gradation Bedding @ 170.1 m | 55 | «m-ca; w-arg» Propylitization; PF altered to yellow green clay (or sericite); mafics chloritized; matrix moderately calcareous | «diss tr py» | |

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|------------|--------------|-----------------------|----------------|------------|----------------|---------|
| | E.O.H. | | | | | |

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| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 44156 | 10.80 | 11.40 | 0.60 | 77.3 | 236 | 1 | 92 | 11 | 38 | 5 | 164 | 635 | | |
| 44157 | 11.40 | 12.80 | 1.40 | 17.6 | 351 | 1 | 26 | 17 | 13 | 3 | 46 | 2930 | | |
| 44158 | 13.70 | 15.50 | 1.80 | 5.9 | 92 | 1 | 56 | 22 | 18 | 22 | 25 | 3200 | 100 | |
| 44159 | 15.50 | 17.50 | 2.00 | 0.1 | 72 | 1 | 27 | 14 | 24 | 6 | 12 | 3755 | 100 | |
| 44160 | 17.50 | 19.00 | 1.50 | 0.7 | 76 | 1 | 93 | 10 | 34 | 4 | 19 | 12375 | 100 | |
| 44161 | 19.00 | 21.00 | 2.00 | 17.1 | 149 | 1 | 39 | 9 | 21 | 4 | 65 | 2130 | 100 | |
| 44162 | 21.00 | 23.00 | 2.00 | 2.3 | 33 | 1 | 13 | 13 | 19 | 2 | 39 | 230 | 19 | |
| 44163 | 23.00 | 25.00 | 2.00 | 2.4 | 70 | 1 | 8 | 16 | 30 | 3 | 44 | 230 | 32 | |
| 44164 | 25.00 | 27.00 | 2.00 | 2.9 | 758 | 1 | 36 | 14 | 36 | 6 | 78 | 320 | 42 | |
| 44165 | 27.00 | 29.70 | 2.70 | 3 | 1163 | 1 | 54 | 13 | 47 | 16 | 102 | 355 | 100 | |
| 44166 | 29.70 | 31.00 | 1.30 | 1.7 | 1053 | 1 | 50 | 10 | 41 | 26 | 71 | 180 | 22 | |
| 44167 | 31.00 | 32.10 | 1.10 | 1.1 | 1138 | 1 | 104 | 8 | 44 | 8 | 76 | 330 | 28 | |
| 44168 | 32.10 | 33.40 | 1.30 | 1.2 | 601 | 1 | 58 | 5 | 27 | 10 | 54 | 395 | 100 | |
| 44169 | 33.40 | 35.50 | 2.10 | 2.4 | 906 | 1 | 40 | 8 | 39 | 19 | 75 | 510 | 70 | |
| 44170 | 35.50 | 37.20 | 1.70 | 2 | 1842 | 1 | 78 | 6 | 70 | 22 | 197 | 395 | 100 | |
| 44171 | 37.20 | 38.40 | 1.20 | 1.7 | 1177 | 1 | 53 | 7 | 49 | 10 | 102 | 320 | 50 | |
| 44172 | 38.40 | 40.50 | 2.10 | 1.7 | 1067 | 1 | 42 | 10 | 47 | 25 | 79 | 175 | 30 | |
| 44173 | 40.50 | 42.60 | 2.10 | 1.3 | 453 | 1 | 18 | 12 | 24 | 38 | 38 | 200 | 39 | |
| 44174 | 42.60 | 44.80 | 2.20 | 2.2 | 286 | 1 | 9 | 15 | 20 | 40 | 22 | 370 | 70 | |
| 44175 | 44.80 | 45.35 | 0.55 | 2.8 | 458 | 1 | 7 | 11 | 26 | 58 | 47 | 405 | 5 | |
| 44176 | 45.35 | 47.40 | 2.05 | 2.9 | 306 | 1 | 10 | 10 | 17 | 33 | 29 | 840 | 32 | |
| 44177 | 47.40 | 47.95 | 0.55 | 3.9 | 221 | 1 | 10 | 9 | 13 | 18 | 24 | 305 | 8 | |
| 44178 | 47.95 | 49.90 | 1.95 | 3.7 | 657 | 1 | 9 | 11 | 24 | 22 | 60 | 760 | 21 | |
| 44179 | 49.90 | 51.90 | 2.00 | 3.3 | 854 | 1 | 10 | 12 | 34 | 32 | 46 | 1390 | 19 | |
| 44180 | 51.90 | 53.60 | 1.70 | 3.7 | 840 | 1 | 12 | 12 | 31 | 41 | 41 | 700 | 13 | |
| 44181 | 53.60 | 55.40 | 1.80 | 2.1 | 760 | 1 | 9 | 13 | 23 | 27 | 32 | 305 | 12 | |
| 44182 | 55.40 | 57.30 | 1.90 | 2.7 | 949 | 1 | 11 | 12 | 23 | 46 | 74 | 300 | 9 | |
| 44183 | 57.30 | 58.40 | 1.10 | 2.9 | 959 | 1 | 12 | 16 | 26 | 62 | 66 | 305 | 5 | |
| 44184 | 58.40 | 58.90 | 0.50 | 3 | 1870 | 1 | 11 | 15 | 50 | 34 | 105 | 285 | 2 | |
| 44185 | 58.90 | 59.85 | 0.95 | 2.9 | 1122 | 1 | 11 | 19 | 36 | 47 | 86 | 665 | 4 | |
| 44186 | 59.85 | 60.35 | 0.50 | 3.2 | 390 | 1 | 10 | 16 | 18 | 52 | 36 | 860 | 14 | |
| 44187 | 60.35 | 62.80 | 2.45 | 1 | 342 | 1 | 6 | 12 | 13 | 28 | 23 | 545 | 44 | |
| 44188 | 62.80 | 64.40 | 1.60 | 1.1 | 286 | 1 | 5 | 12 | 11 | 28 | 18 | 535 | 50 | |
| 44189 | 64.40 | 66.10 | 1.70 | 0.7 | 169 | 1 | 4 | 12 | 7 | 19 | 19 | 405 | 20 | |
| 44190 | 66.10 | 66.80 | 0.70 | 0.7 | 109 | 1 | 5 | 30 | 4 | 45 | 7 | 325 | 13 | |
| 44191 | 66.80 | 68.10 | 1.30 | 0.5 | 184 | 2 | 14 | 16 | 5 | 61 | 22 | 300 | 7 | |
| 44192 | 68.10 | 70.00 | 1.90 | 0.9 | 197 | 2 | 19 | 15 | 9 | 42 | 25 | 410 | 31 | |
| 44193 | 70.00 | 71.20 | 1.20 | 0.5 | 54 | 2 | 17 | 15 | 3 | 42 | 4 | 150 | 23 | |

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| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44194 | 71.20 | 72.60 | 1.40 | 0.7 | 309 | 1 | 20 | 15 | 14 | 45 | 17 | 725 | 18 |
| 44195 | 72.60 | 74.65 | 2.05 | 0.6 | 85 | 2 | 22 | 12 | 5 | 36 | 10 | 90 | 12 |
| 44196 | 74.65 | 76.50 | 1.85 | 0.8 | 181 | 1 | 18 | 11 | 10 | 45 | 19 | 180 | 19 |
| 44197 | 76.50 | 77.50 | 1.00 | 1.3 | 646 | 1 | 23 | 11 | 26 | 46 | 42 | 245 | 10 |
| 44198 | 77.50 | 79.40 | 1.90 | 1.2 | 540 | 1 | 19 | 14 | 18 | 47 | 75 | 240 | 15 |
| 44199 | 79.40 | 81.40 | 2.00 | 0.9 | 224 | 1 | 17 | 12 | 8 | 48 | 15 | 100 | 8 |
| 44200 | 81.40 | 81.80 | 0.40 | 1.2 | 572 | 1 | 19 | 18 | 21 | 28 | 78 | 85 | 1 |
| 44201 | 81.80 | 83.50 | 1.70 | 0.9 | 474 | 1 | 16 | 13 | 18 | 41 | 59 | 145 | 19 |
| 44202 | 83.50 | 85.40 | 1.90 | 0.9 | 275 | 1 | 19 | 15 | 10 | 44 | 37 | 205 | 11 |
| 44203 | 85.40 | 86.80 | 1.40 | 0.9 | 236 | 1 | 19 | 18 | 7 | 47 | 14 | 545 | 5 |

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DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44156 | 10.80 | 11.40 | 0.60 | 77.3 | 236 | 1 | 92 | 11 | 38 | 5 | 164 | 635 | |
| 44157 | 11.40 | 12.80 | 1.40 | 17.6 | 351 | 1 | 26 | 17 | 13 | 3 | 46 | 2930 | |
| 44158 | 13.70 | 15.50 | 1.80 | 5.9 | 92 | 1 | 56 | 22 | 18 | 22 | 25 | 3200 | 100 |
| 44159 | 15.50 | 17.50 | 2.00 | 0.1 | 72 | 1 | 27 | 14 | 24 | 6 | 12 | 3755 | 100 |
| 44160 | 17.50 | 19.00 | 1.50 | 0.7 | 76 | 1 | 93 | 10 | 34 | 4 | 19 | 12375 | 100 |
| 44161 | 19.00 | 21.00 | 2.00 | 17.1 | 149 | 1 | 39 | 9 | 21 | 4 | 65 | 2130 | 100 |
| 44162 | 21.00 | 23.00 | 2.00 | 2.3 | 33 | 1 | 13 | 13 | 19 | 2 | 39 | 230 | 19 |
| 44163 | 23.00 | 25.00 | 2.00 | 2.4 | 70 | 1 | 8 | 16 | 30 | 3 | 44 | 230 | 32 |
| 44164 | 25.00 | 27.00 | 2.00 | 2.9 | 758 | 1 | 36 | 14 | 36 | 6 | 78 | 320 | 42 |
| 44165 | 27.00 | 29.70 | 2.70 | 3 | 1163 | 1 | 54 | 13 | 47 | 16 | 102 | 355 | 100 |
| 44166 | 29.70 | 31.00 | 1.30 | 1.7 | 1053 | 1 | 50 | 10 | 41 | 26 | 71 | 180 | 22 |
| 44167 | 31.00 | 32.10 | 1.10 | 1.1 | 1138 | 1 | 104 | 8 | 44 | 8 | 76 | 330 | 28 |
| 44168 | 32.10 | 33.40 | 1.30 | 1.2 | 601 | 1 | 58 | 5 | 27 | 10 | 54 | 395 | 100 |
| 44169 | 33.40 | 35.50 | 2.10 | 2.4 | 906 | 1 | 40 | 8 | 39 | 19 | 75 | 510 | 70 |
| 44170 | 35.50 | 37.20 | 1.70 | 2 | 1842 | 1 | 78 | 6 | 70 | 22 | 197 | 395 | 100 |
| 44171 | 37.20 | 38.40 | 1.20 | 1.7 | 1177 | 1 | 53 | 7 | 49 | 10 | 102 | 320 | 50 |
| 44172 | 38.40 | 40.50 | 2.10 | 1.7 | 1067 | 1 | 42 | 10 | 47 | 25 | 79 | 175 | 30 |
| 44173 | 40.50 | 42.60 | 2.10 | 1.3 | 453 | 1 | 18 | 12 | 24 | 38 | 38 | 200 | 39 |
| 44174 | 42.60 | 44.80 | 2.20 | 2.2 | 286 | 1 | 9 | 15 | 20 | 40 | 22 | 370 | 70 |
| 44175 | 44.80 | 45.35 | 0.55 | 2.8 | 458 | 1 | 7 | 11 | 26 | 58 | 47 | 405 | 5 |
| 44176 | 45.35 | 47.40 | 2.05 | 2.9 | 306 | 1 | 10 | 10 | 17 | 33 | 29 | 840 | 32 |
| 44177 | 47.40 | 47.95 | 0.55 | 3.9 | 221 | 1 | 10 | 9 | 13 | 18 | 24 | 305 | 8 |
| 44178 | 47.95 | 49.90 | 1.95 | 3.7 | 657 | 1 | 9 | 11 | 24 | 22 | 60 | 760 | 21 |
| 44179 | 49.90 | 51.90 | 2.00 | 3.3 | 854 | 1 | 10 | 12 | 34 | 32 | 46 | 1390 | 19 |
| 44180 | 51.90 | 53.60 | 1.70 | 3.7 | 840 | 1 | 12 | 12 | 31 | 41 | 41 | 700 | 13 |
| 44181 | 53.60 | 55.40 | 1.80 | 2.1 | 760 | 1 | 9 | 13 | 23 | 27 | 32 | 305 | 12 |
| 44182 | 55.40 | 57.30 | 1.90 | 2.7 | 949 | 1 | 11 | 12 | 23 | 46 | 74 | 300 | 9 |
| 44183 | 57.30 | 58.40 | 1.10 | 2.9 | 959 | 1 | 12 | 16 | 26 | 62 | 66 | 305 | 5 |
| 44184 | 58.40 | 58.90 | 0.50 | 3 | 1870 | 1 | 11 | 15 | 50 | 34 | 105 | 285 | 2 |
| 44185 | 58.90 | 59.85 | 0.95 | 2.9 | 1122 | 1 | 11 | 19 | 36 | 47 | 86 | 665 | 4 |
| 44186 | 59.85 | 60.35 | 0.50 | 3.2 | 390 | 1 | 10 | 16 | 18 | 52 | 36 | 860 | 14 |
| 44187 | 60.35 | 62.80 | 2.45 | 1 | 342 | 1 | 6 | 12 | 13 | 28 | 23 | 545 | 44 |
| 44188 | 62.80 | 64.40 | 1.60 | 1.1 | 286 | 1 | 5 | 12 | 11 | 28 | 18 | 535 | 50 |
| 44189 | 64.40 | 66.10 | 1.70 | 0.7 | 169 | 1 | 4 | 12 | 7 | 19 | 19 | 405 | 20 |
| 44190 | 66.10 | 66.80 | 0.70 | 0.7 | 109 | 1 | 5 | 30 | 4 | 45 | 7 | 325 | 13 |
| 44191 | 66.80 | 68.10 | 1.30 | 0.5 | 184 | 2 | 14 | 16 | 5 | 61 | 22 | 300 | 7 |
| 44192 | 68.10 | 70.00 | 1.90 | 0.9 | 197 | 2 | 19 | 15 | 9 | 42 | 25 | 410 | 31 |
| 44193 | 70.00 | 71.20 | 1.20 | 0.5 | 54 | 2 | 17 | 15 | 3 | 42 | 4 | 150 | 23 |
| 44194 | 71.20 | 72.60 | 1.40 | 0.7 | 309 | 1 | 20 | 15 | 14 | 45 | 17 | 725 | 18 |

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GEOCHEM. SHEET

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GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44195 | 72.60 | 74.65 | 2.05 | 0.6 | 85 | 2 | 22 | 12 | 5 | 36 | 10 | 90 | 12 |
| 44196 | 74.65 | 76.50 | 1.85 | 0.8 | 181 | 1 | 18 | 11 | 10 | 45 | 19 | 180 | 19 |
| 44197 | 76.50 | 77.50 | 1.00 | 1.3 | 646 | 1 | 23 | 11 | 26 | 46 | 42 | 245 | 10 |
| 44198 | 77.50 | 79.40 | 1.90 | 1.2 | 540 | 1 | 19 | 14 | 18 | 47 | 75 | 240 | 15 |
| 44199 | 79.40 | 81.40 | 2.00 | 0.9 | 224 | 1 | 17 | 12 | 8 | 48 | 15 | 100 | 8 |
| 44200 | 81.40 | 81.80 | 0.40 | 1.2 | 572 | 1 | 19 | 18 | 21 | 28 | 78 | 85 | 1 |
| 44201 | 81.80 | 83.50 | 1.70 | 0.9 | 474 | 1 | 16 | 13 | 18 | 41 | 59 | 145 | 19 |
| 44202 | 83.50 | 85.40 | 1.90 | 0.9 | 275 | 1 | 19 | 15 | 10 | 44 | 37 | 205 | 11 |
| 44203 | 85.40 | 86.80 | 1.40 | 0.9 | 236 | 1 | 19 | 18 | 7 | 47 | 14 | 545 | 5 |

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GEOCHEM. SHEET

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RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|------------|--------|------------|---------------|-------------|--------------------|---------------------|-----------------|------------------|-------|----------|
| S>= 0.00cm | | | | | | | | | | |
| 51.00 | 53.00 | 2.00 | 55.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | |
| 55.00 | 57.00 | 2.00 | 55.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | |
| 57.00 | 59.00 | 2.00 | 80.00 | ***** | 23 | 11.50 | 0 | 0.00 | 0 | |
| 61.00 | 63.00 | 2.00 | 20.00 | ***** | 30 | 15.00 | 0 | 0.00 | 0 | |
| 65.00 | 67.00 | 2.00 | 50.00 | ***** | 40 | 20.00 | 0 | 0.00 | 0 | |
| 69.00 | 71.00 | 2.00 | 70.00 | ***** | 17 | 8.50 | 0 | 0.00 | 0 | |
| 73.00 | 75.00 | 2.00 | 110.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | |
| 80.00 | 82.00 | 2.00 | 150.00 | ***** | 13 | 6.50 | 0 | 0.00 | 0 | |
| 84.00 | 0.00 | -84.00 | 120.00 | ***** | 14 | -0.17 | 0 | 0.00 | 0 | |
| 88.00 | 90.00 | 2.00 | 85.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | |
| 92.00 | 94.00 | 2.00 | 180.00 | ***** | 10 | 5.00 | 0 | 0.00 | 0 | |
| 96.00 | 98.20 | 2.20 | 150.00 | ***** | 17 | 7.73 | 4 | 1.82 | 0 | |
| 98.20 | 100.20 | 2.00 | 180.00 | ***** | 8 | 4.00 | 1 | 0.50 | 0 | |
| 104.20 | 106.20 | 2.00 | 170.00 | ***** | 12 | 6.00 | 0 | 0.00 | 0 | |
| 108.20 | 110.20 | 2.00 | 180.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | |
| 115.00 | 116.80 | 1.80 | 160.00 | ***** | 10 | 5.56 | 2 | 1.11 | 0 | |
| 116.80 | 117.40 | 0.60 | 20.00 | ***** | 15 | 25.00 | 0 | 0.00 | 0 | |
| 118.00 | 120.00 | 2.00 | 155.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | |
| 120.00 | 122.30 | 2.30 | 150.00 | ***** | 16 | 6.96 | 0 | 0.00 | 0 | |
| 122.30 | 123.30 | 1.00 | 70.00 | ***** | 7 | 7.00 | 0 | 0.00 | 0 | |
| 123.30 | 123.70 | 0.40 | 20.00 | ***** | 5 | 12.50 | 0 | 0.00 | 0 | |
| 123.70 | 125.70 | 2.00 | 110.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | |
| 128.00 | 130.00 | 2.00 | 125.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | |
| 133.00 | 135.00 | 2.00 | 175.00 | ***** | 13 | 6.50 | 0 | 0.00 | 0 | |
| 137.00 | 139.00 | 2.00 | 130.00 | ***** | 18 | 9.00 | 4 | 2.00 | 0 | |
| 141.00 | 143.00 | 2.00 | 140.00 | ***** | 10 | 5.00 | 1 | 0.50 | 0 | |
| 145.00 | 147.00 | 2.00 | 40.00 | ***** | 20 | 10.00 | 0 | 0.00 | 0 | |
| 147.00 | 149.00 | 2.00 | 70.00 | ***** | 27 | 13.50 | 0 | 0.00 | 0 | |
| 150.00 | 152.00 | 2.00 | 180.00 | ***** | 17 | 8.50 | 0 | 0.00 | 0 | |
| 153.30 | 154.30 | 1.00 | 40.00 | ***** | 13 | 13.00 | 0 | 0.00 | 0 | |
| 154.30 | 156.30 | 2.00 | 70.00 | ***** | 29 | 14.50 | 0 | 0.00 | 0 | |
| 156.30 | 158.30 | 2.00 | 80.00 | ***** | 23 | 11.50 | 0 | 0.00 | 0 | |
| 158.30 | 159.60 | 1.30 | 10.00 | 769.2 | 20 | 15.38 | 1 | 0.77 | 0 | |
| 159.60 | 160.00 | 0.40 | 0.00 | 0.0 | 20 | 50.00 | 0 | 0.00 | 0 | |
| 160.00 | 162.00 | 2.00 | 90.00 | ***** | 23 | 11.50 | 0 | 0.00 | 0 | |
| 164.00 | 166.00 | 2.00 | 110.00 | ***** | 14 | 7.00 | 0 | 0.00 | 0 | |
| 168.00 | 170.00 | 2.00 | 115.00 | ***** | 19 | 9.50 | 0 | 0.00 | 0 | |
| 172.00 | 174.00 | 2.00 | 180.00 | ***** | 7 | 3.50 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-01

RQD ASSAY

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

HOLE NUMBER: CL-91-02

| | | | |
|------------------------|---------------------------|------------------------|-----------------------------|
| PROJECT NAME: CLISBAKO | PLOTTING COORDS GRID: UTM | ALTERNATE COORDS GRID: | COLLAR DIP: -45° 0' 0" |
| PROJECT NUMBER: 667 | NORTH: 41140.00N | NORTH: 0+ 0 | LENGTH OF THE HOLE: 181.20m |
| CLAIM NUMBER: | EAST: 9482.00E | EAST: 0+ 0 | START DEPTH: 0.00m |
| LOCATION: NORTH ZONE | ELEV: 1316.00 | ELEV: 0.00 | FINAL DEPTH: 181.20m |

COLLAR GRID AZIMUTH: 290° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 290° 0' 0"

| | | | |
|---------------------------------|----------------------|---------------------|------------------------------------|
| DATE STARTED: August 15, 1991 | COLLAR SURVEY: NO | PULSE EM SURVEY: NO | CONTRACTOR: FRONTIER DRILLING LTD. |
| DATE COMPLETED: August 16, 1991 | MULTISHOT SURVEY: NO | PLUGGED: NO | CASING: 8.9M, 4.5' LEFT IN HOLE |
| DATE LOGGED: August 16, 1991 | RQD LOG: YES | HOLE SIZE: HQ,NQ | CORE STORAGE: AT CAMP |

PURPOSE:

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 60.90 | - | -47° 0' | ACID | OK | | - | - | - | - | - | |
| 99.60 | - | -45° 0' | ACID | OK | | - | - | - | - | - | |
| 152.40 | - | -46° 0' | ACID | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|---|-------------|--|---|--|
| 0.00 TO 8.90 | «CASING» | | | | | |
| 8.90 TO 18.40 | «OXIDIZED ZONE-FLOW BANDED LATITE» | Orange. A highly limonite stained interval of well banded, aphanitic to feldspar phyrlic latite. Banding texture interpreted to be flow banding and or deritrefication. Banding @ 10.2m.... Quartz breccia veins cut the interval at: 8.9m, 10.1m, 10.8m, 12.2m, 17.0m. ‡12.8-14.4‡ «Broken Core» Interval contains 1-3mm dark weak stockwork. veinlets- | 70 | «M-ARG;W-SIL» The rock is pervasively argillized along the banding. Clay rich bands are separated by hairline silica veinlets. There are spaced approx. 2-5mm apart. The interval is cut by various quartz vein breccias. These range from 20-100mm in width cut the core axis at angles of 45-90 degrees. ‡8.9-9.0‡ «Qz Vein Bx» Cutting core at 45 degrees consists of argillized, angular wall rock clasts up to 25mm in a matrix of dark grey to black quartz. Breccia is fragment supported. | «Present» None visible, but a significant pyrite content is implied by the strong limonite oxidation. | This unit correlates with the bedded |
| 18.40 TO 38.30 | «FB-LATITE» PORPHYRY ‡29.3-29.9‡ | Medium grey. Fine grained. A fine grained well flow banded porphyry flow. Phenocrysts of pinkish xf and green. If well preserved-though variably altered. Pheno's randomly oriented and sparse-5% of rock. Maximum size ~2mm. All are enhadral and some show evidence of growth zoning. «Gouge» | | «W-M Arg» Pervasive argillization along flow bands has caused a bleached striped appearance. Unaltered remnants occur throughout. There are pink and glossy. Fine quartz <'s follow flow bands. ‡32.1-32.3‡ «I-Sil» Pervasive sil of latite around cross-cutting qz-py vein. The vein is irregular and branching and contains vuggy . The lower part of the vein is cored by fine grained pyrite. ‡32.5‡ «M-Sar G» Rapid increase in the intensity of argillic alteration to bottom of interval. Textures in the latite become progressively destroyed. | «Py Stwk - 1-3%» Randomly oriented py <'s up to 10mm wide crosscut flow banding veins occur about every 50cm throughout. D.py also noted in trace amounts. «Py 5% in vein» Pyrite exhibits an unusual bladed morphology. It looks like pyrite selvages that have been repeatedly ripped off the vein wall. | Identical texture to Canyon Mtn. Latite flows. |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-02

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|-----------|--|-------------|--|---|----------------|
| 38.30 TO 47.00 | «LATITE» | Yellow/green. Completely argillized interval of the latite porphyry. Just about all primary textures are lost. In places the unit is brecciated. Isolated angular clasts (or unaltered remnants) are present. These, however are rare. | | «I-Arg» Rock completely replaced by a mixture of green and yellow clays. Green clay occurs as angular or rounded dpatches perhaps replacing breccia clasts? | «Py-rare» Only seen in 3cm qz-py veinlet at 41.4m. Here again the pyrite is growing as fine blades or plates - Marcasite?? | Bladed pyrite. |
| 47.00 TO 55.40 | «LATITE» | Pale grey. Same latite unit. In this interval the alteration has graded from S-intense argillitic to moderate silicification. Qz-py veinlets are more abundant ~16/m. | | «M-Sarg; M Sil» Yellow and green clays still dominate alteration. Silicification is more tense - occurring as irregular patches of qz flooding around quartz veinlets. | «Py 3%» More abundant in this interval. Most occurs in vuggy quartz <'s, but in places hazy patches are also present in the wall rock. | |
| 55.40 TO 64.10 | «LATITE» | Yellow. Intensely argillic alteration has obliterated primary texture. Rock is now a bright yellow colour and very soft as a result of the alteration. The top 1.7m of the interval is moderately silicified. | | «I-Arg» Pervasive alteration of latite groundmass by yellow clay. Feldspar laths are still visible in most places despite alteration intensity. ‡55.4-56.3‡ «M-Sil» Pervasive silicification of groundmass. A few pyrite micro veins noted. | «Py-tr» | |
| 64.10 TO 66.70 | «LATITE» | Pale yellow-grey. The same unit, though much less argillized. Throughout this interval the latite becomes progressively more veined and silicified. Breccia vein @ 64.4m | 20 | «M-M Arg, M-Sil» Silica is replacing latite groundmass at the expense of clay. Breccia veins up to 4cm occur at 64.4m. «I-X Sil» Clasts are variably silicified and apparently overprinting the argillization. Some patches of nearly massive yellow-green clay noted. | «Py tr-1%» Pyrite is restricted mainly to the grey quartz groundmass. «Py <1%» as in the vein matrix. | |
| 66.70 TO 68.20 | «VEIN BX» | Dark grey. An interval of extreme silicification veining and brecciation. The morphology of the vein is complex. At the top and bottom there are silicified wallrock envelopes that extend 30cm into the hosting latite. At the upper contact from 66.5-68.8m, the vein consists of white to pinkish quartz showing well developed bladed textures. Cutting this zone is a pyritic phase (66.8-67.2m). This is typified by bladed pyrite and brecciated bladed quartz. Contact @ 66.8m Upper Contact @ 66.7m | 25 20 | «X-Sil» Pervasive silicification forms envelopes of 20-30cm into wallrocks at vein margins. | «Py 10%» or bladed forms in the core of the vein. ‡66.8-67.2‡ «Py 10%» As dusty patches in quartz vein matrix. ‡67.5-68.0‡ «Py 15-20%» As bladed forms composed of fine crystals - hosted in black to grey glassy quartz. | |

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DRILL HOLE RECORD

LOGGED BY: D.R. HEBERLEIN

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-02

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--------------------|--|-------------|---|--|---------|
| | | From 67.2-67.4m the vein contains breccia frags of white quartz up to 25mm across in a siliceous matrix containing bladed pyrite. 67.4-68.0m: Bladed quartz to vein contact. Lower Contact @ 68.0m 68.0-68.2m: Silicified wallrock. | 44 | | | |
| 68.20 TO 73.80 | «LAPILLI TU FF» | Medium to dark grey. A volcanic fragmental unit composed of lithic lapilli (40-60%) in a fine grained ashy matrix. Lapilli range in size from 5mm to 35mm. The are subangular to rounded in shape. The dominant clast type is a porphyritic rock composed of 20-30% exedral pla phenocrysts in a fine to aphanitic matrix. This type comprises about 50% of the clast population. About 30% are flow banded latite, identical to those seen higher in the hole. There contain phenocrysts of both XF & PF. | | «M-Sil W-Arg» The interval is variably silicified throughout. Quartz floodeing occurs as vein-like bands that engulf the matrix material. The clasts are argillized but silicified close to quartz-pyrite stringers. Pervasive argillic alteration is strongest near top of the interval - decreasing and giving away to silicification downhole. Vuggy quartz-pyrite <'s form a weak stockwork. 68.2-71.2 «M-Arg» 71.2-71.7 «S-Sil» 72.2-72.4 «S-Sil» | «Py 1-3%» Mostly as bands of fine grained material in quartz veins. Pyrite is very sparsely disseminated throughout remainder of interval. | |
| 73.80 TO 74.75 | «FAULT» | Orange. Limonite stained fault zone (non gougy) in the lapilli tuff unit. | | | Strong limonite staining. | |
| 74.75 TO 78.35 | «CROWDED PORPHYRY» | Grey. Medium to coarse grained. A porphyritic volcanic rock composed of closedly packed or crowded plagioclase phenocrysts in a fine grained - aphanitic groundmass. KF phenocrysts also noted. These are zoned and smaller than the PF crystals. | | «M-Arg» Not as strongly altered as the above intervals. Feldspars and groundmass clay altered -> powdered. The degree of silicification rapidly diminishes below last interval. Quartz veinlets up to 1cm wide are sparsely distributed throughout. | «Tr Py» entirely hosted in quartz stringer. | |
| 78.35 TO 82.50 | «BRECCIA» | Dark grey. An intensely silified breccia. About 40% of the interval consists of a sparse wall rock breccia with unsorted angular wallrock fragments (mostly latite). Largest clasts measure 45mm across (e.g. @ 81.1m). The top third of the breccia zone is pervasively silicified crowded porphyry. At least three hydrothermal breccia veins cut the interval, these are: 78.5-78.9 «Vein Bx» | 75 | «I-Sil» faulted upper contact. This interval is pervasively silicified throughout. Very tight-flow stringers or veinlets. Clasts in the breccia are moderately argillized. | «Py Tr-1%» as disseminated crystals and hazy patches or clasts in the breccia. Vein breccia matrix contains up to 5% | |

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DRILL HOLE RECORD

LOGGED BY: D.R. HEBERLEIN

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-02

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|-----------------|--|-------------|--|---|---------|
| | | <p>‡80.1-80.4‡ «Vein Bx» Upper Contact Lower Contact</p> <p>‡81.6-81.8‡ «Vein Bx»</p> | 50 15 | | fine grained pyrite. | |
| 82.50 TO 83.00 | «FAULT» | Broken limonitic interval of argillized crowded porphyry. | | | | |
| 83.00 TO 87.10 | «TUFF BRECC IA» | Grey. Breccia - perhaps depositional with a hydrothermal overprint. Consists of clasts of flow banded latite and feldspar porphyry in a highly silicified tuffaceous matrix. Both frags and matrix are cut by a network of black chalcedonic stringers which form & grow breccia textures. Banded chalcedony fills a 30mm void space @ 84.5m. | | «S-Sil,M-Arg» Quartz-pyrite stockworking more intense than previous breccia interval. | «Tr, Py» in black chalcedony microveins. | |
| 87.10 TO 119.80 | «TUFF BRECC IA» | Yellow-grey. Fine to coarse grained. Similar to the above unit. This unit consists of pea to boulder size clasts of feldspar porphyry and flow banded latite in a feldspar crystal tuff matrix. Clast abundance and size vary throughout the unit. Largest clast noted is over 50cm long. Breccia is generally matrix supported, although locally it can be clast supported. | | <p>«M-Arg-M-S Sil» Alteration variable alternates between argillization and pervasive silicification. Clay rich zones are a distinct yellow colour. In these the matrix and clasts are altered. In the silicified areas only the tuffaceous matrix is silicified - the frags remain argillized.</p> <p>‡87.1-92.1‡ «M Arg» Pale yellow grey clay cut by grey qz <'s.</p> <p>‡92.1-95.9‡ «M-S Sil» Silicification of matrix and frags.</p> <p>‡95.9-96.2‡ «M Arg»</p> <p>‡96.2-96.4‡ «M-Sil, M Arg» Late white vuggy veins.</p> <p>‡96.4-98.4‡ «M Arg»</p> <p>‡98.4-100.5‡ «M-S Sil» Argillized fragments of latite.</p> <p>‡100.5-103.3‡ «S-Arg»</p> <p>‡103.3-109.7‡ «S-Sil»</p> <p>‡109.7-113.2‡ «M-Arg;M-Sil»</p> <p>‡113.0-113.4‡ «I-Sil»</p> | <p>«Py Tr-3%» mostly concentrated in veins and in the darker silica matrix. Crystall aggregates of coarser pyrite (aggr to 3mm) are disseminated in argillized sections. Some aggregates show bladed or platg marcasitic forms.</p> <p>Fine pyrite stockworking, «Py 1-3%». Patches of vuggy clear quartz noted at 89.6m.</p> <p>«Py Diss-5%»</p> <p>«Py 5-10%»</p> | |
| | ‡113.0-113.4‡ | <p>Alteration Contact</p> <p>«Bx Vein and Jigsaw Bx» Black sulphidic matrix. Highly siliceous. Upper 20cm of interval consists of a vuggy jigsaw bx.</p> | 15 | | | |

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-02

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---------------------|---|-------------|--|---|---|
| | 114.5-114.7 | «Jigsaw Bx & Breccia Vein» | | | «Py 5-10%» | |
| 119.80 TO 124.80 | «TUFF BRECCIA» | Yellow-grey. Completely argillized tuff breccia. Hazy outlines of former frags visible, but only just. Clasts are more intensely altered than matrix. Core surface has a sandy appearance-possibly caused by the drill. Rock is not to -> becoming gougy in places - probably not a fault. | | «I-Arg» Some milky qz <'s. | «Diss Py-3%» as euhedral cube and crystal aggregates. | |
| 124.80 TO 125.30 | «FAULT GOUGE» | | | | | |
| 125.30 TO 130.30 | «HB-BI-PF PORPHYRY» | Green-grey. Medium grained. A sparse porphyry unit possibly intrusive consisting of euhedral PF, crystals in a fine grained groundmass. Scattered phenocrysts of biotite and possibly HB also present. These are chloritized. This interval is strongly clay altered and in places brecciated. This may be caused by faulting as there are several faults in this part of the hole. Gougy aspect. | | «S-Arg, W-Cl» Very strong clay alteration-in places bright yellow coloured. Most primary texture lost or obscured. Veining is minimal. Hair-like quartz stringers, some with pyrite are noted. These, however are not too significant. Patchy silicification noted around 120-121m. | «Tr Py» in hair-line <'s. | |
| 130.30 TO 130.50 | «FAULT» | | 88 | «W-Cl» | | |
| 130.50 TO 141.60 | «PF-BI PORPHYRY» | Grey. Relatively unaltered intrusive. Euhedral, tabular feldspars are clay altered to a brown or medium green colour. BI is chloritized. Staining shows the groundmass to be KF rich indicating a latite composition (or micro). No qz seen. No KF pheno's noted. | | «W-Cl, Tr, Ca» W-Arg. Chloritization of mafics and clay alteration (a of PF). | | 136.2m: Markers are out by 10' to bottom of hole (ie subtract 3.1m from |
| | 141.25-141.6 | «Fault»-Gouge zone. Sharp contacts. | 45 | | | |
| 141.60 TO 147.00 | «LATITE PORPHYRY» | Pinkish grey. Fine grained. Same unit as previous interval. Contains patches and fine <'s of secondary KF alteration. Glomeroporphyritic textures formed by clumps of euhedral PF. Resembles 'Snow Flake' textures common in ankerites. | | «W-M Cl, W, KF; W, Ca» Complete chloritization of mafic pheno's. Groundmass weakly chloritized and argillized. PF altered to green clay or perhaps sericite. Some Cl <'s noted. Chloritization of PF clusters. | Trace - almost none present. | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|------------------------|---|-------------|--|---|--|
| | ↓144.2-144.5↑ | «Fault Zone-Gouge» | | K feldspar alteration noted. Microveinlets to K and irregular patches (e.g. @ 141.65m). | | |
| | ↓145.5-145.7↑ | «Fault Gouge» | | Lower in the interval KF replaces groundmass to give a pinkish colour to the rock. | | |
| 147.00 TO 150.00 | «PF PORPHYRY» | Grey-green. Gougy zone of crowded PF porphyry. Not as much chlorite noted. Looks like argillic alteration is picking up again downhole. Possible fragments of porphyry in interval. These are highly argillized. | | «M-Arg» Sudden change from alteration to moderate argillic across fault. Blob of calcite noted at 147.7m. | Very sparse pyrite. | |
| | ↓147.0-148.6↑ | «Fault» - Gougy, broken zone. | | | | |
| 150.00 TO 152.30 | «FAULT GOUGE» | A faulted zone-highly broken, but coherent core. Host rock is a weakly silicified and moderately argillized porphyry. | | «W-Sil;M-Arg» No calcite noted. Looks like we are back into higher grade alteration. | «Py 1-3%» in distinct <'s and as disseminations in wallrock clasts. | |
| 152.30 TO 156.00 | «PORPHYRY» | Very pale grey. Fine grained. A fine grained porphyry unit with a crowded texture. PF pheno's make up 76% of the rock. These range up to 3mm in length. There is a weak orientation of PF crystals. Chloritic streaks may be pseudomorphs after Bl. The ground mass is very fine grained. | | «M-Arg;W-Cl» Pervasive argillization and possibly sericitization of both the feldspars and groundmass. | «Py Tr-1%» as disseminations and rare pyrite <'s. | |
| | ↓153.1-153.5↑ | «Breccia» Coarse angular and rounded clasts to 35mm from a fragment supported breccia. Clasts and matrix appear to be porphyry material - possibly agmatitic bx? | | | | |
| | ↓153.85-154.5↑ | «Breccia» as previous interval. | | | | |
| | ↓154.5-154.6↑ | «Fault» Upper Contact | 20 | | | |
| | ↓155.8-156.0↑ | «Fault» | | | | |
| 156.00 TO 160.10 | «PERLITE & PERLITE BX» | Grey. Web textured perlitic unit, identical to those seen in hole 91-1. The rock is weakly argillized, more bleaching than anything. Over narrow sections the unit is brecciated. This may be a primary feature. | | «W-Arg» Maybe some extremely weak chloritization. This causes a green tint in places. | «Py Tr-1%» Sparse pyrite microveins. Overall poorly mineralized. | These perlitites were most probably glassy flow rocks - re that occur on the margins of large flows. |

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DRILL HOLE RECORD

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|-----------------------|--|-------------|--|--|---------|
| 160.10 TO 160.70 | «QZ HEALED JIGSAW BX» | Yellow-grey. Narrow zone of jigsaw bx. Angular wallrock frags are pushed apart and healed by grey qz. Clasts are moderately argillized, possibly perlitic material. | | «M-Arg;M-Sil» Argillization of wallrock frags. Qz heals breccia. | «Py 1-3%» As disseminated cubes up to 1mm and as patches in qz <'s. | |
| 160.70 TO 173.40 | «PERLITE» | Grey. Fairly wide interval of the web textured perlite. The unit shows a gradual increase in alteration intensity downhole. The top third to the interval is quite crumbly with narrow gougy and brecciated zones. These are late-fault-related features. ‡163.4-164.5‡ «Fault» ‡166.7-167.0‡ «Fault» Alteration balls present at 167.5m and 167.9m. These are fairly large - up to 35mm across. The higher one is by a slip plane. Both occur adjacent to a narrow quartz vein breccia. | | «W->M Arg;W-Sil» Alteration intensity of silicification and argillization increases down interval. | ‡167.65-167.75‡ «Vein Bx» «Py 10%» as 1cm on upper contact. Alteration balls seem to be preferentially pyritized -> Iron Source?? | |
| 173.40 TO 181.20 | «LAMINATED ASH TUFFS» | Finely laminated, siliceous ash tuffs. These rocks are banded on a 5-10mm scale. Interval is highly disrupted and altered by a wide gougy fault zone. ‡173.4-173.6‡ «Vein Bx» Silica healed breccia zone containing a lot of fine dusty pyrite. Clasts in the bx are angular and range in size from 1mm to 15mm. Most seem to be silicified wallrock material. ‡173.6-175.3‡ «Fault Bx» A zone of brecciated wallrock. Poorly lithofied gouge material hosts angular frags (up to 8cm long) of laminated ash. The matrix and some clasts are altered to a bright green clay. The distribution of this mineral is patchy, but in general terms is more intense near vein breccias. ‡175.3-175.7‡ «Vein Bx» Silicified fault breccia cut by late vuggy qz <'s. Veins..... ‡175.9-176.3‡ «Perlite» Possibly a large clast or inclusion in the fault zone. | 40 | «M-S-Arg, Patchy Sil» The faulted section is strongly altered to a pale green clay. This is mostly concentrated in the gougy matrix of the fault bx. «I-Sil» «S-Arg» «I-Sil» Cut by late vuggy qz stringer. «W-Sil» | «Py Tr» not well mineralized. «Py 10-15%» «Py 1-3%» «Py 1%» | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|---------|---------------|---|-------------|---|----------------|-------------------------------------|
| | ↓176.3-179.9↑ | «Fault Zone» | | «I-Arg» Strong to intense green clay alteration of the gougy clay matrix. | | |
| | ↓179.9-181.2↑ | «Heterolithic Bx» Green-yellow. Possibly a depositional or volcanic bx. Rounded clasts (to 40mm) of fine grained PF porphyry occur in a tuffaceous matrix. | | «M-Arg;W-Sil» | «Py Tr» | Perlite clasts in breccia @ 180.4m. |
| | | END OF HOLE. | | | | |

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| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 43426 | 9.00 | 11.00 | 2.00 | 2.7 | 738 | 1 | 16 | 16 | 51 | 10 | 98 | 500 | 35 | |
| 43427 | 11.00 | 13.00 | 2.00 | 1.8 | 991 | 2 | 21 | 14 | 45 | 25 | 34 | 435 | 27 | |
| 43428 | 13.00 | 14.60 | 1.60 | 3.5 | 1316 | 1 | 20 | 17 | 69 | 44 | 132 | 530 | 40 | |
| 43429 | 14.60 | 17.80 | 3.20 | 6 | 820 | 1 | 50 | 14 | 39 | 24 | 104 | 1325 | 38 | |
| 43430 | 17.80 | 18.50 | 0.70 | 1.4 | 322 | 1 | 18 | 16 | 16 | 18 | 32 | 635 | 5 | |
| 43431 | 18.50 | 20.50 | 2.00 | 2.5 | 199 | 1 | 40 | 16 | 20 | 9 | 37 | 520 | 27 | |
| 43432 | 20.50 | 22.50 | 2.00 | 3.4 | 233 | 1 | 19 | 17 | 21 | 16 | 43 | 805 | 18 | |
| 43433 | 22.50 | 24.50 | 2.00 | 3.2 | 310 | 1 | 17 | 16 | 23 | 18 | 47 | 1465 | 31 | |
| 43434 | 24.50 | 26.50 | 2.00 | 5.9 | 238 | 1 | 15 | 13 | 27 | 24 | 63 | 1555 | 30 | |
| 43435 | 26.50 | 28.50 | 2.00 | 1.9 | 450 | 1 | 23 | 13 | 23 | 28 | 54 | 225 | 33 | |
| 43436 | 28.50 | 29.90 | 1.40 | 2 | 381 | 1 | 23 | 16 | 21 | 36 | 37 | 220 | 23 | |
| 43437 | 29.90 | 31.90 | 2.00 | 1.7 | 855 | 1 | 14 | 14 | 33 | 38 | 42 | 375 | 14 | |
| 43438 | 31.90 | 33.90 | 2.00 | 3.8 | 921 | 1 | 24 | 14 | 37 | 25 | 112 | 585 | 17 | |
| 43439 | 33.90 | 35.90 | 2.00 | 3.4 | 1001 | 1 | 25 | 15 | 37 | 44 | 135 | 235 | 20 | |
| 43440 | 35.90 | 37.90 | 2.00 | 2.7 | 850 | 1 | 22 | 15 | 38 | 54 | 63 | 650 | 19 | |
| 43441 | 37.90 | 39.90 | 2.00 | 0.5 | 258 | 1 | 19 | 19 | 18 | 66 | 17 | 395 | 23 | |
| 43442 | 39.90 | 41.90 | 2.00 | 0.5 | 45 | 1 | 21 | 15 | 5 | 57 | 10 | 135 | 24 | |
| 43443 | 41.90 | 43.90 | 2.00 | 0.7 | 36 | 1 | 18 | 17 | 4 | 39 | 7 | 100 | 20 | |
| 43444 | 43.90 | 46.00 | 2.10 | 0.8 | 121 | 1 | 19 | 13 | 9 | 43 | 20 | 175 | 17 | |
| 43445 | 46.00 | 47.00 | 1.00 | 1 | 281 | 1 | 15 | 11 | 14 | 61 | 27 | 120 | 8 | |
| 43446 | 47.00 | 49.00 | 2.00 | 1.9 | 282 | 1 | 7 | 11 | 17 | 31 | 51 | 520 | 25 | |
| 43447 | 49.00 | 51.00 | 2.00 | 2.9 | 341 | 1 | 10 | 15 | 27 | 34 | 15 | 855 | 19 | |
| 43448 | 51.00 | 53.00 | 2.00 | 1.5 | 471 | 1 | 12 | 17 | 24 | 42 | 41 | 535 | 17 | |
| 43449 | 53.00 | 55.00 | 2.00 | 2.6 | 259 | 1 | 13 | 16 | 21 | 41 | 35 | 975 | 14 | |
| 43450 | 55.00 | 55.40 | 0.40 | 1.2 | 167 | 1 | 10 | 15 | 9 | 40 | 32 | 400 | 4 | |
| 43451 | 55.40 | 57.40 | 2.00 | 1.6 | 407 | 1 | 14 | 16 | 15 | 38 | 43 | 415 | 16 | |
| 43452 | 57.40 | 59.40 | 2.00 | 0.5 | 79 | 2 | 15 | 18 | 6 | 70 | 20 | 155 | 22 | |
| 43453 | 59.40 | 61.50 | 2.10 | 0.9 | 170 | 1 | 15 | 17 | 9 | 76 | 21 | 145 | 17 | |
| 43454 | 61.50 | 63.50 | 2.00 | 3.4 | 936 | 1 | 15 | 15 | 35 | 45 | 70 | 815 | 100 | |
| 43455 | 63.50 | 64.10 | 0.60 | 3.1 | 840 | 1 | 17 | 18 | 35 | 47 | 58 | 385 | 2 | |
| 43456 | 64.10 | 64.50 | 0.40 | 3.8 | 1711 | 1 | 13 | 13 | 65 | 37 | 180 | 390 | 1 | |
| 43457 | 64.50 | 66.10 | 1.60 | 3.4 | 1030 | 1 | 15 | 11 | 42 | 34 | 93 | 365 | 15 | |
| 43458 | 66.10 | 67.00 | 0.90 | 9 | 2470 | 1 | 18 | 13 | 105 | 14 | 162 | 1065 | 8 | |
| 43459 | 67.00 | 68.20 | 1.20 | 8.7 | 655 | 1 | 14 | 9 | 40 | 15 | 112 | 1560 | 10 | |
| 43460 | 68.20 | 70.20 | 2.00 | 6.4 | 913 | 1 | 22 | 16 | 55 | 11 | 92 | 735 | 9 | |
| 43461 | 70.20 | 71.40 | 1.20 | 5.3 | 367 | 1 | 22 | 16 | 40 | 11 | 93 | 465 | 8 | |
| 43462 | 71.40 | 71.90 | 0.50 | 3.4 | 777 | 1 | 17 | 11 | 43 | 12 | 62 | 355 | 4 | |
| 43463 | 71.90 | 73.90 | 2.00 | 3.7 | 838 | 1 | 17 | 19 | 47 | 15 | 71 | 345 | 11 | |

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ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43464 | 73.90 | 75.90 | 2.00 | 3.7 | 894 | 1 | 14 | 11 | 59 | 27 | 97 | 295 | 26 |
| 43465 | 75.90 | 78.20 | 2.30 | 4.6 | 573 | 1 | 28 | 12 | 56 | 16 | 98 | 345 | 18 |
| 43466 | 78.20 | 79.20 | 1.00 | 4.4 | 1712 | 1 | 18 | 14 | 82 | 24 | 66 | 545 | 6 |
| 43467 | 79.20 | 79.60 | 0.40 | 6.6 | 3880 | 1 | 12 | 15 | 167 | 27 | 230 | 390 | 2 |
| 43468 | 79.60 | 80.60 | 1.00 | 9 | 890 | 1 | 17 | 14 | 54 | 14 | 90 | 700 | 9 |
| 43469 | 80.60 | 81.60 | 1.00 | 2.1 | 418 | 1 | 15 | 12 | 30 | 19 | 50 | 200 | 10 |
| 43470 | 81.60 | 83.10 | 1.50 | 2.4 | 133 | 2 | 12 | 13 | 28 | 27 | 40 | 125 | 19 |
| 43471 | 83.10 | 84.10 | 1.00 | 2.4 | 232 | 1 | 21 | 19 | 16 | 13 | 47 | 200 | 4 |
| 43472 | 84.10 | 85.10 | 1.00 | 1.7 | 133 | 1 | 14 | 10 | 16 | 20 | 27 | 90 | 12 |
| 43473 | 85.10 | 86.10 | 1.00 | 1.6 | 211 | 1 | 15 | 14 | 16 | 21 | 39 | 140 | 19 |
| 43474 | 86.10 | 87.10 | 1.00 | 5.2 | 707 | 1 | 14 | 14 | 42 | 19 | 107 | 580 | 3 |
| 43475 | 87.10 | 89.10 | 2.00 | 1.9 | 497 | 1 | 14 | 13 | 27 | 47 | 61 | 205 | 21 |
| 43476 | 89.10 | 91.10 | 2.00 | 2 | 425 | 1 | 16 | 14 | 22 | 43 | 40 | 190 | 14 |
| 43477 | 91.10 | 92.10 | 1.00 | 1.7 | 236 | 1 | 12 | 13 | 13 | 19 | 43 | 145 | 8 |
| 43478 | 92.10 | 94.10 | 2.00 | 2.7 | 567 | 2 | 17 | 13 | 33 | 25 | 52 | 345 | 13 |
| 43479 | 94.10 | 95.90 | 1.80 | 2.5 | 681 | 1 | 15 | 12 | 27 | 24 | 81 | 185 | 16 |
| 43480 | 95.90 | 96.95 | 1.05 | 1.9 | 1174 | 1 | 12 | 12 | 35 | 43 | 138 | 85 | 7 |
| 43481 | 96.95 | 98.45 | 1.50 | 2.6 | 630 | 1 | 13 | 17 | 29 | 30 | 65 | 110 | 11 |
| 43482 | 98.45 | 100.40 | 1.95 | 2.1 | 579 | 1 | 16 | 11 | 28 | 26 | 37 | 105 | 17 |
| 43483 | 100.40 | 102.40 | 2.00 | 3.3 | 1126 | 1 | 12 | 14 | 43 | 38 | 80 | 250 | 7 |
| 43484 | 102.40 | 103.30 | 0.90 | 3.5 | 1223 | 1 | 13 | 16 | 48 | 43 | 61 | 65 | 7 |
| 43485 | 103.30 | 104.00 | 0.70 | 2.1 | 1179 | 1 | 12 | 14 | 42 | 27 | 93 | 115 | 8 |
| 43486 | 104.00 | 105.20 | 1.20 | 2.5 | 1103 | 2 | 17 | 16 | 41 | 42 | 105 | 50 | 16 |
| 43487 | 105.20 | 106.20 | 1.00 | 2.3 | 493 | 1 | 15 | 13 | 22 | 30 | 60 | 60 | 7 |
| 43488 | 106.20 | 107.20 | 1.00 | 2.3 | 449 | 1 | 14 | 11 | 22 | 37 | 52 | 100 | 7 |
| 43489 | 107.20 | 108.20 | 1.00 | 2.2 | 598 | 1 | 15 | 9 | 26 | 39 | 71 | 125 | 3 |
| 43490 | 108.20 | 109.70 | 1.50 | 2.6 | 885 | 1 | 15 | 11 | 37 | 55 | 63 | 205 | 5 |
| 43491 | 109.70 | 111.70 | 2.00 | 2.9 | 695 | 1 | 11 | 12 | 31 | 32 | 55 | 315 | 27 |
| 43492 | 111.70 | 113.20 | 1.50 | 2.9 | 804 | 1 | 11 | 13 | 33 | 33 | 60 | 90 | 13 |
| 43493 | 113.20 | 114.20 | 1.00 | 6 | 2034 | 1 | 21 | 14 | 75 | 37 | 114 | 330 | 5 |
| 43494 | 114.20 | 115.20 | 1.00 | 1.9 | 1360 | 1 | 9 | 12 | 45 | 31 | 121 | 150 | 8 |
| 43495 | 115.20 | 117.20 | 2.00 | 2.3 | 596 | 1 | 10 | 15 | 23 | 42 | 73 | 140 | 19 |
| 43496 | 117.20 | 119.00 | 1.80 | 1.1 | 101 | 1 | 7 | 12 | 6 | 37 | 12 | 80 | 21 |
| 43497 | 119.00 | 121.00 | 2.00 | 1.8 | 246 | 1 | 6 | 14 | 13 | 41 | 38 | 90 | 16 |
| 43498 | 121.00 | 123.00 | 2.00 | 1.7 | 341 | 1 | 8 | 14 | 13 | 39 | 41 | 150 | 20 |
| 43499 | 123.00 | 124.80 | 1.80 | 1.1 | 151 | 1 | 6 | 19 | 8 | 69 | 21 | 170 | 15 |
| 43500 | 124.80 | 125.60 | 0.80 | 0.7 | 180 | 2 | 13 | 19 | 9 | 80 | 7 | 600 | 5 |
| 43501 | 125.60 | 127.60 | 2.00 | 0.6 | 175 | 2 | 21 | 19 | 7 | 92 | 3 | 705 | 17 |

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ASSAY SHEET

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ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43502 | 127.60 | 129.60 | 2.00 | 0.9 | 382 | 1 | 19 | 20 | 14 | 71 | 10 | 2455 | 15 |
| 43503 | 129.60 | 130.20 | 0.60 | 0.5 | 95 | 2 | 16 | 16 | 3 | 58 | 7 | 480 | 6 |
| 43504 | 130.20 | 132.20 | 2.00 | 0.6 | 124 | 2 | 22 | 18 | 4 | 73 | 8 | 685 | 14 |
| 43505 | 132.20 | 134.20 | 2.00 | 0.5 | 104 | 2 | 18 | 21 | 4 | 69 | 11 | 740 | 20 |
| 43506 | 134.20 | 136.20 | 2.00 | 0.6 | 312 | 2 | 16 | 21 | 17 | 64 | 12 | 5750 | 25 |
| 43507 | 136.20 | 138.20 | 2.00 | 0.5 | 155 | 2 | 18 | 16 | 8 | 50 | 9 | 1540 | 17 |
| 43508 | 138.20 | 140.20 | 2.00 | 0.3 | 106 | 1 | 26 | 17 | 4 | 55 | 3 | 775 | 20 |
| 43509 | 140.20 | 142.20 | 2.00 | 0.1 | 197 | 1 | 38 | 19 | 9 | 64 | 1 | 900 | 19 |
| 43510 | 142.20 | 143.80 | 1.60 | 0.3 | 96 | 1 | 34 | 18 | 3 | 57 | 2 | 200 | 15 |
| 43511 | 143.80 | 145.60 | 1.80 | 0.7 | 31 | 2 | 56 | 21 | 1 | 50 | 1 | 145 | 15 |
| 43512 | 145.60 | 146.80 | 1.20 | 2.5 | 1981 | 2 | 22 | 18 | 77 | 46 | 232 | 115 | 13 |
| 43513 | 146.80 | 148.80 | 2.00 | 1.8 | 295 | 2 | 20 | 18 | 17 | 42 | 20 | 75 | 10 |
| 43514 | 148.80 | 150.80 | 2.00 | 1.8 | 582 | 2 | 22 | 21 | 44 | 55 | 38 | 65 | 12 |
| 43515 | 150.80 | 153.00 | 2.20 | 0.7 | 158 | 1 | 27 | 15 | 14 | 49 | 3 | 105 | 17 |
| 43516 | 153.00 | 155.00 | 2.00 | 0.5 | 145 | 2 | 29 | 18 | 13 | 54 | 19 | 45 | 23 |
| 43517 | 155.00 | 157.10 | 2.10 | 0.6 | 159 | 2 | 22 | 17 | 9 | 43 | 35 | 65 | 16 |
| 43518 | 157.10 | 157.60 | 0.50 | 1.2 | 221 | 2 | 23 | 15 | 14 | 44 | 43 | 80 | 5 |
| 43519 | 157.60 | 159.80 | 2.20 | 0.6 | 168 | 2 | 20 | 16 | 8 | 39 | 30 | 65 | 21 |
| 43520 | 159.80 | 161.80 | 2.00 | 0.6 | 103 | 2 | 23 | 19 | 7 | 50 | 27 | 65 | 17 |
| 43521 | 161.80 | 164.00 | 2.20 | 0.6 | 578 | 2 | 18 | 17 | 19 | 54 | 30 | 75 | 30 |
| 43522 | 164.00 | 166.00 | 2.00 | 1 | 334 | 2 | 18 | 12 | 13 | 41 | 45 | 40 | 13 |
| 43523 | 166.00 | 168.00 | 2.00 | 1.5 | 328 | 1 | 33 | 15 | 16 | 47 | 51 | 65 | 13 |
| 43524 | 168.00 | 170.00 | 2.00 | 0.7 | 210 | 2 | 29 | 13 | 8 | 45 | 30 | 105 | 5 |
| 43525 | 170.00 | 170.40 | 0.40 | 1.6 | 918 | 1 | 29 | 11 | 26 | 40 | 98 | 30 | 22 |
| 43526 | 170.40 | 170.60 | 0.20 | 0.7 | 375 | 1 | 17 | 11 | 13 | 21 | 52 | 45 | 1 |
| 43527 | 170.60 | 172.80 | 2.20 | 1.1 | 411 | 1 | 26 | 10 | 17 | 47 | 44 | 70 | 17 |
| 43528 | 172.80 | 174.80 | 2.00 | 0.6 | 197 | 1 | 24 | 12 | 11 | 50 | 31 | 65 | 11 |
| 43529 | 174.80 | 176.90 | 2.10 | 0.2 | 79 | 1 | 19 | 13 | 7 | 49 | 20 | 25 | 7 |
| 43530 | 176.90 | 178.90 | 2.00 | 0.1 | 21 | 2 | 20 | 17 | 1 | 37 | 17 | 10 | 25 |

HOLE NUMBER: CL-91-02

ASSAY SHEET

PAGE: 12

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | Fl #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43426 | 9.00 | 11.00 | 2.00 | 2.7 | 738 | 1 | 16 | 16 | 51 | 10 | 98 | 500 | 35 |
| 43427 | 11.00 | 13.00 | 2.00 | 1.8 | 991 | 2 | 21 | 14 | 45 | 25 | 34 | 435 | 27 |
| 43428 | 13.00 | 14.60 | 1.60 | 3.5 | 1316 | 1 | 20 | 17 | 69 | 44 | 132 | 530 | 40 |
| 43429 | 14.60 | 17.80 | 3.20 | 6 | 820 | 1 | 50 | 14 | 39 | 24 | 104 | 1325 | 38 |
| 43430 | 17.80 | 18.50 | 0.70 | 1.4 | 322 | 1 | 18 | 16 | 16 | 18 | 32 | 635 | 5 |
| 43431 | 18.50 | 20.50 | 2.00 | 2.5 | 199 | 1 | 40 | 16 | 20 | 9 | 37 | 520 | 27 |
| 43432 | 20.50 | 22.50 | 2.00 | 3.4 | 233 | 1 | 19 | 17 | 21 | 16 | 43 | 805 | 18 |
| 43433 | 22.50 | 24.50 | 2.00 | 3.2 | 310 | 1 | 17 | 16 | 23 | 18 | 47 | 1465 | 31 |
| 43434 | 24.50 | 26.50 | 2.00 | 5.9 | 238 | 1 | 15 | 13 | 27 | 24 | 63 | 1555 | 30 |
| 43435 | 26.50 | 28.50 | 2.00 | 1.9 | 450 | 1 | 23 | 13 | 23 | 28 | 54 | 225 | 33 |
| 43436 | 28.50 | 29.90 | 1.40 | 2 | 381 | 1 | 23 | 16 | 21 | 36 | 37 | 220 | 23 |
| 43437 | 29.90 | 31.90 | 2.00 | 1.7 | 855 | 1 | 14 | 14 | 33 | 38 | 42 | 375 | 14 |
| 43438 | 31.90 | 33.90 | 2.00 | 3.8 | 921 | 1 | 24 | 14 | 37 | 25 | 112 | 585 | 17 |
| 43439 | 33.90 | 35.90 | 2.00 | 3.4 | 1001 | 1 | 25 | 15 | 37 | 44 | 135 | 235 | 20 |
| 43440 | 35.90 | 37.90 | 2.00 | 2.7 | 850 | 1 | 22 | 15 | 38 | 54 | 63 | 650 | 19 |
| 43441 | 37.90 | 39.90 | 2.00 | 0.5 | 258 | 1 | 19 | 19 | 18 | 66 | 17 | 395 | 23 |
| 43442 | 39.90 | 41.90 | 2.00 | 0.5 | 45 | 1 | 21 | 15 | 5 | 57 | 10 | 135 | 24 |
| 43443 | 41.90 | 43.90 | 2.00 | 0.7 | 36 | 1 | 18 | 17 | 4 | 39 | 7 | 100 | 20 |
| 43444 | 43.90 | 46.00 | 2.10 | 0.8 | 121 | 1 | 19 | 13 | 9 | 43 | 20 | 175 | 17 |
| 43445 | 46.00 | 47.00 | 1.00 | 1 | 281 | 1 | 15 | 11 | 14 | 61 | 27 | 120 | 8 |
| 43446 | 47.00 | 49.00 | 2.00 | 1.9 | 282 | 1 | 7 | 11 | 17 | 31 | 51 | 520 | 25 |
| 43447 | 49.00 | 51.00 | 2.00 | 2.9 | 341 | 1 | 10 | 15 | 27 | 34 | 15 | 855 | 19 |
| 43448 | 51.00 | 53.00 | 2.00 | 1.5 | 471 | 1 | 12 | 17 | 24 | 42 | 41 | 535 | 17 |
| 43449 | 53.00 | 55.00 | 2.00 | 2.6 | 259 | 1 | 13 | 16 | 21 | 41 | 35 | 975 | 14 |
| 43450 | 55.00 | 55.40 | 0.40 | 1.2 | 167 | 1 | 10 | 15 | 9 | 40 | 32 | 400 | 4 |
| 43451 | 55.40 | 57.40 | 2.00 | 1.6 | 407 | 1 | 14 | 16 | 15 | 38 | 43 | 415 | 16 |
| 43452 | 57.40 | 59.40 | 2.00 | 0.5 | 79 | 2 | 15 | 18 | 6 | 70 | 20 | 155 | 22 |
| 43453 | 59.40 | 61.50 | 2.10 | 0.9 | 170 | 1 | 15 | 17 | 9 | 76 | 21 | 145 | 17 |
| 43454 | 61.50 | 63.50 | 2.00 | 3.4 | 936 | 1 | 15 | 15 | 35 | 45 | 70 | 815 | 100 |
| 43455 | 63.50 | 64.10 | 0.60 | 3.1 | 840 | 1 | 17 | 18 | 35 | 47 | 58 | 385 | 2 |
| 43456 | 64.10 | 64.50 | 0.40 | 3.8 | 1711 | 1 | 13 | 13 | 65 | 37 | 180 | 390 | 1 |
| 43457 | 64.50 | 66.10 | 1.60 | 3.4 | 1030 | 1 | 15 | 11 | 42 | 34 | 93 | 365 | 15 |
| 43458 | 66.10 | 67.00 | 0.90 | 9 | 2470 | 1 | 18 | 13 | 105 | 14 | 162 | 1065 | 8 |
| 43459 | 67.00 | 68.20 | 1.20 | 8.7 | 655 | 1 | 14 | 9 | 40 | 15 | 112 | 1560 | 10 |
| 43460 | 68.20 | 70.20 | 2.00 | 6.4 | 913 | 1 | 22 | 16 | 55 | 11 | 92 | 735 | 9 |
| 43461 | 70.20 | 71.40 | 1.20 | 5.3 | 367 | 1 | 22 | 16 | 40 | 11 | 93 | 465 | 8 |
| 43462 | 71.40 | 71.90 | 0.50 | 3.4 | 777 | 1 | 17 | 11 | 43 | 12 | 62 | 355 | 4 |
| 43463 | 71.90 | 73.90 | 2.00 | 3.7 | 838 | 1 | 17 | 19 | 47 | 15 | 71 | 345 | 11 |
| 43464 | 73.90 | 75.90 | 2.00 | 3.7 | 894 | 1 | 14 | 11 | 59 | 27 | 97 | 295 | 26 |

HOLE NUMBER: CL-91-02

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43465 | 75.90 | 78.20 | 2.30 | 4.6 | 573 | 1 | 28 | 12 | 56 | 16 | 98 | 345 | 18 |
| 43466 | 78.20 | 79.20 | 1.00 | 4.4 | 1712 | 1 | 18 | 14 | 82 | 24 | 66 | 545 | 6 |
| 43467 | 79.20 | 79.60 | 0.40 | 6.6 | 3880 | 1 | 12 | 15 | 167 | 27 | 230 | 390 | 2 |
| 43468 | 79.60 | 80.60 | 1.00 | 9 | 890 | 1 | 17 | 14 | 54 | 14 | 90 | 700 | 9 |
| 43469 | 80.60 | 81.60 | 1.00 | 2.1 | 418 | 1 | 15 | 12 | 30 | 19 | 50 | 200 | 10 |
| 43470 | 81.60 | 83.10 | 1.50 | 2.4 | 133 | 2 | 12 | 13 | 28 | 27 | 40 | 125 | 19 |
| 43471 | 83.10 | 84.10 | 1.00 | 2.4 | 232 | 1 | 21 | 19 | 16 | 13 | 47 | 200 | 4 |
| 43472 | 84.10 | 85.10 | 1.00 | 1.7 | 133 | 1 | 14 | 10 | 16 | 20 | 27 | 90 | 12 |
| 43473 | 85.10 | 86.10 | 1.00 | 1.6 | 211 | 1 | 15 | 14 | 16 | 21 | 39 | 140 | 19 |
| 43474 | 86.10 | 87.10 | 1.00 | 5.2 | 707 | 1 | 14 | 14 | 42 | 19 | 107 | 580 | 3 |
| 43475 | 87.10 | 89.10 | 2.00 | 1.9 | 497 | 1 | 14 | 13 | 27 | 47 | 61 | 205 | 21 |
| 43476 | 89.10 | 91.10 | 2.00 | 2 | 425 | 1 | 16 | 14 | 22 | 43 | 40 | 190 | 14 |
| 43477 | 91.10 | 92.10 | 1.00 | 1.7 | 236 | 1 | 12 | 13 | 13 | 19 | 43 | 145 | 8 |
| 43478 | 92.10 | 94.10 | 2.00 | 2.7 | 567 | 2 | 17 | 13 | 33 | 25 | 52 | 345 | 13 |
| 43479 | 94.10 | 95.90 | 1.80 | 2.5 | 681 | 1 | 15 | 12 | 27 | 24 | 81 | 185 | 16 |
| 43480 | 95.90 | 96.95 | 1.05 | 1.9 | 1174 | 1 | 12 | 12 | 35 | 43 | 138 | 85 | 7 |
| 43481 | 96.95 | 98.45 | 1.50 | 2.6 | 630 | 1 | 13 | 17 | 29 | 30 | 65 | 110 | 11 |
| 43482 | 98.45 | 100.40 | 1.95 | 2.1 | 579 | 1 | 16 | 11 | 28 | 26 | 37 | 105 | 17 |
| 43483 | 100.40 | 102.40 | 2.00 | 3.3 | 1126 | 1 | 12 | 14 | 43 | 38 | 80 | 250 | 7 |
| 43484 | 102.40 | 103.30 | 0.90 | 3.5 | 1223 | 1 | 13 | 16 | 48 | 43 | 61 | 65 | 7 |
| 43485 | 103.30 | 104.00 | 0.70 | 2.1 | 1179 | 1 | 12 | 14 | 42 | 27 | 93 | 115 | 8 |
| 43486 | 104.00 | 105.20 | 1.20 | 2.5 | 1103 | 2 | 17 | 16 | 41 | 42 | 105 | 50 | 16 |
| 43487 | 105.20 | 106.20 | 1.00 | 2.3 | 493 | 1 | 15 | 13 | 22 | 30 | 60 | 60 | 7 |
| 43488 | 106.20 | 107.20 | 1.00 | 2.3 | 449 | 1 | 14 | 11 | 22 | 37 | 52 | 100 | 7 |
| 43489 | 107.20 | 108.20 | 1.00 | 2.2 | 598 | 1 | 15 | 9 | 26 | 39 | 71 | 125 | 3 |
| 43490 | 108.20 | 109.70 | 1.50 | 2.6 | 885 | 1 | 15 | 11 | 37 | 55 | 63 | 205 | 5 |
| 43491 | 109.70 | 111.70 | 2.00 | 2.9 | 695 | 1 | 11 | 12 | 31 | 32 | 55 | 315 | 27 |
| 43492 | 111.70 | 113.20 | 1.50 | 2.9 | 804 | 1 | 11 | 13 | 33 | 33 | 60 | 90 | 13 |
| 43493 | 113.20 | 114.20 | 1.00 | 6 | 2034 | 1 | 21 | 14 | 75 | 37 | 114 | 330 | 5 |
| 43494 | 114.20 | 115.20 | 1.00 | 1.9 | 1360 | 1 | 9 | 12 | 45 | 31 | 121 | 150 | 8 |
| 43495 | 115.20 | 117.20 | 2.00 | 2.3 | 596 | 1 | 10 | 15 | 23 | 42 | 73 | 140 | 19 |
| 43496 | 117.20 | 119.00 | 1.80 | 1.1 | 101 | 1 | 7 | 12 | 6 | 37 | 12 | 80 | 21 |
| 43497 | 119.00 | 121.00 | 2.00 | 1.8 | 246 | 1 | 6 | 14 | 13 | 41 | 38 | 90 | 16 |
| 43498 | 121.00 | 123.00 | 2.00 | 1.7 | 341 | 1 | 8 | 14 | 13 | 39 | 41 | 150 | 20 |
| 43499 | 123.00 | 124.80 | 1.80 | 1.1 | 151 | 1 | 6 | 19 | 8 | 69 | 21 | 170 | 15 |
| 43500 | 124.80 | 125.60 | 0.80 | 0.7 | 180 | 2 | 13 | 19 | 9 | 80 | 7 | 600 | 5 |
| 43501 | 125.60 | 127.60 | 2.00 | 0.6 | 175 | 2 | 21 | 19 | 7 | 92 | 3 | 705 | 17 |
| 43502 | 127.60 | 129.60 | 2.00 | 0.9 | 382 | 1 | 19 | 20 | 14 | 71 | 10 | 2455 | 15 |

HOLE NUMBER: CL-91-02

GEOCHEM. SHEET

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HOLE NUMBER: CL-91-02

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43503 | 129.60 | 130.20 | 0.60 | 0.5 | 95 | 2 | 16 | 16 | 3 | 58 | 7 | 480 | 6 |
| 43504 | 130.20 | 132.20 | 2.00 | 0.6 | 124 | 2 | 22 | 18 | 4 | 73 | 8 | 685 | 14 |
| 43505 | 132.20 | 134.20 | 2.00 | 0.5 | 104 | 2 | 18 | 21 | 4 | 69 | 11 | 740 | 20 |
| 43506 | 134.20 | 136.20 | 2.00 | 0.6 | 312 | 2 | 16 | 21 | 17 | 64 | 12 | 5750 | 25 |
| 43507 | 136.20 | 138.20 | 2.00 | 0.5 | 155 | 2 | 18 | 16 | 8 | 50 | 9 | 1540 | 17 |
| 43508 | 138.20 | 140.20 | 2.00 | 0.3 | 106 | 1 | 26 | 17 | 4 | 55 | 3 | 775 | 20 |
| 43509 | 140.20 | 142.20 | 2.00 | 0.1 | 197 | 1 | 38 | 19 | 9 | 64 | 1 | 900 | 19 |
| 43510 | 142.20 | 143.80 | 1.60 | 0.3 | 96 | 1 | 34 | 18 | 3 | 57 | 2 | 200 | 15 |
| 43511 | 143.80 | 145.60 | 1.80 | 0.7 | 31 | 2 | 56 | 21 | 1 | 50 | 1 | 145 | 15 |
| 43512 | 145.60 | 146.80 | 1.20 | 2.5 | 1981 | 2 | 22 | 18 | 77 | 46 | 232 | 115 | 13 |
| 43513 | 146.80 | 148.80 | 2.00 | 1.8 | 295 | 2 | 20 | 18 | 17 | 42 | 20 | 75 | 10 |
| 43514 | 148.80 | 150.80 | 2.00 | 1.8 | 582 | 2 | 22 | 21 | 44 | 55 | 38 | 65 | 12 |
| 43515 | 150.80 | 153.00 | 2.20 | 0.7 | 158 | 1 | 27 | 15 | 14 | 49 | 3 | 105 | 17 |
| 43516 | 153.00 | 155.00 | 2.00 | 0.5 | 145 | 2 | 29 | 18 | 13 | 54 | 19 | 45 | 23 |
| 43517 | 155.00 | 157.10 | 2.10 | 0.6 | 159 | 2 | 22 | 17 | 9 | 43 | 35 | 65 | 16 |
| 43518 | 157.10 | 157.60 | 0.50 | 1.2 | 221 | 2 | 23 | 15 | 14 | 44 | 43 | 80 | 5 |
| 43519 | 157.60 | 159.80 | 2.20 | 0.6 | 168 | 2 | 20 | 16 | 8 | 39 | 30 | 65 | 21 |
| 43520 | 159.80 | 161.80 | 2.00 | 0.6 | 103 | 2 | 23 | 19 | 7 | 50 | 27 | 65 | 17 |
| 43521 | 161.80 | 164.00 | 2.20 | 0.6 | 578 | 2 | 18 | 17 | 19 | 54 | 30 | 75 | 30 |
| 43522 | 164.00 | 166.00 | 2.00 | 1 | 334 | 2 | 18 | 12 | 13 | 41 | 45 | 40 | 13 |
| 43523 | 166.00 | 168.00 | 2.00 | 1.5 | 328 | 1 | 33 | 15 | 16 | 47 | 51 | 65 | 13 |
| 43524 | 168.00 | 170.00 | 2.00 | 0.7 | 210 | 2 | 29 | 13 | 8 | 45 | 30 | 105 | 5 |
| 43525 | 170.00 | 170.40 | 0.40 | 1.6 | 918 | 1 | 29 | 11 | 26 | 40 | 98 | 30 | 22 |
| 43526 | 170.40 | 170.60 | 0.20 | 0.7 | 375 | 1 | 17 | 11 | 13 | 21 | 52 | 45 | 1 |
| 43527 | 170.60 | 172.80 | 2.20 | 1.1 | 411 | 1 | 26 | 10 | 17 | 47 | 44 | 70 | 17 |
| 43528 | 172.80 | 174.80 | 2.00 | 0.6 | 197 | 1 | 24 | 12 | 11 | 50 | 31 | 65 | 11 |
| 43529 | 174.80 | 176.90 | 2.10 | 0.2 | 79 | 1 | 19 | 13 | 7 | 49 | 20 | 25 | 7 |
| 43530 | 176.90 | 178.90 | 2.00 | 0.1 | 21 | 2 | 20 | 17 | 1 | 37 | 17 | 10 | 25 |

HOLE NUMBER: CL-91-02

GEOCHEM. SHEET

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| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|------------|--------|------------|---------------|-------------|--------------------|---------------------|-----------------|------------------|-------|---------------|
| S>= 0.00cm | | | | | | | | | | |
| 23.20 | 25.30 | 2.10 | 25.00 | ***** | 18 | 8.57 | 0 | 0.00 | 0 | OXIDIZED |
| 25.30 | 25.90 | 0.60 | 10.00 | ***** | 9 | 15.00 | 0 | 0.00 | 0 | OXIDIZED BX. |
| 25.90 | 27.60 | 1.70 | 45.00 | ***** | 18 | 10.59 | 0 | 0.00 | 0 | OXIDIZED |
| 27.60 | 29.60 | 2.00 | 85.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | OXIDIZED |
| 29.60 | 31.80 | 2.20 | 120.00 | ***** | 25 | 11.36 | 0 | 0.00 | 0 | OXIDIZED |
| 31.80 | 32.60 | 0.80 | 20.00 | ***** | 19 | 23.75 | 0 | 0.00 | 0 | |
| 32.60 | 34.60 | 2.00 | 45.00 | ***** | 25 | 12.50 | 0 | 0.00 | 0 | |
| 34.60 | 36.00 | 1.40 | 50.00 | ***** | 17 | 12.14 | 0 | 0.00 | 0 | |
| 36.00 | 36.50 | 0.50 | 15.00 | ***** | 5 | 10.00 | 0 | 0.00 | 0 | |
| 36.50 | 38.10 | 1.60 | 55.00 | ***** | 17 | 10.63 | 0 | 0.00 | 0 | |
| 38.10 | 38.40 | 0.30 | 10.00 | ***** | 4 | 13.33 | 0 | 0.00 | 0 | |
| 38.40 | 39.30 | 0.90 | 10.00 | ***** | 14 | 15.56 | 0 | 0.00 | 0 | |
| 39.30 | 39.80 | 0.50 | 15.00 | ***** | 6 | 12.00 | 0 | 0.00 | 0 | |
| 39.80 | 41.10 | 1.30 | 10.00 | 769.2 | 14 | 10.77 | 0 | 0.00 | 0 | |
| 69.30 | 71.30 | 2.00 | 60.00 | ***** | 24 | 12.00 | 0 | 0.00 | 0 | BX. |
| 71.30 | 74.20 | 2.90 | 80.00 | ***** | 20 | 6.90 | 0 | 0.00 | 0 | BX. |
| 74.20 | 75.30 | 1.10 | 0.00 | 0.0 | 18 | 16.36 | 0 | 0.00 | 0 | BX. |
| 75.30 | 77.30 | 2.00 | 45.00 | ***** | 41 | 20.50 | 0 | 0.00 | 0 | BX. |
| 77.30 | 80.10 | 2.80 | 110.00 | ***** | 23 | 8.21 | 0 | 0.00 | 0 | BX. |
| 80.10 | 81.40 | 1.30 | 35.00 | ***** | 12 | 9.23 | 1 | 0.77 | 0 | |
| 81.40 | 83.90 | 2.50 | 35.00 | ***** | 29 | 11.60 | 1 | 0.40 | 0 | SX STR 3 |
| 83.90 | 85.90 | 2.00 | 145.00 | ***** | 12 | 6.00 | 0 | 0.00 | 0 | SX STR 2 |
| 85.90 | 87.90 | 2.00 | 65.00 | ***** | 24 | 12.00 | 0 | 0.00 | 0 | SX STR 2 |
| 91.90 | 93.40 | 1.50 | 80.00 | ***** | 13 | 8.67 | 1 | 0.67 | 0 | |
| 93.40 | 94.10 | 0.70 | 55.00 | ***** | 3 | 4.29 | 1 | 1.43 | 0 | |
| 94.10 | 94.80 | 0.70 | 50.00 | ***** | 5 | 7.14 | 2 | 2.86 | 0 | |
| 95.50 | 96.20 | 0.70 | 0.00 | 0.0 | 0 | 0.00 | 0 | 0.00 | 0 | |
| 154.50 | 154.80 | 0.30 | 25.00 | ***** | 2 | 6.67 | 0 | 0.00 | 0 | HEMATITIC BX. |
| 154.80 | 155.10 | 0.30 | 25.00 | ***** | 2 | 6.67 | 0 | 0.00 | 0 | HEMATITIC BX. |
| 155.10 | 157.30 | 2.20 | 75.00 | ***** | 25 | 11.36 | 0 | 0.00 | 0 | HEMATITIC BX. |
| 157.30 | 158.20 | 0.90 | 30.00 | ***** | 11 | 12.22 | 3 | 3.33 | 0 | HEMATITIC BX. |
| 178.90 | 180.90 | 2.00 | 185.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | HEMATITIC BX. |
| 187.80 | 188.90 | 1.10 | 50.00 | ***** | 10 | 9.09 | 0 | 0.00 | 0 | |
| 188.90 | 189.30 | 0.40 | 25.00 | ***** | 4 | 10.00 | 1 | 2.50 | 0 | |
| 189.30 | 190.80 | 1.50 | 50.00 | ***** | 18 | 12.00 | 0 | 0.00 | 0 | |
| 194.30 | 194.70 | 0.40 | 30.00 | ***** | 1 | 2.50 | 0 | 0.00 | 0 | SX STR 1 |
| 194.70 | 195.40 | 0.70 | 55.00 | ***** | 15 | 21.43 | 0 | 0.00 | 0 | SX STR 1 |
| 195.40 | 196.00 | 0.60 | 45.00 | ***** | 6 | 10.00 | 0 | 0.00 | 0 | SX STR 2/10 |

MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: CL-91-03

IMPERIAL UNITS: METRIC UNITS: X

| | | | |
|------------------------|---------------------------|------------------------|-----------------------------|
| PROJECT NAME: CLISBAKO | PLOTTING COORDS GRID: UTM | ALTERNATE COORDS GRID: | COLLAR DIP: -70° 0' 0" |
| PROJECT NUMBER: 667 | NORTH: 41139.00N | NORTH: 0+ 0 | LENGTH OF THE HOLE: 184.20m |
| CLAIM NUMBER: | EAST: 9481.00E | EAST: 0+ 0 | START DEPTH: 0.00m |
| LOCATION: NORTH ZONE | ELEV: 1316.00 | ELEV: 0.00 | FINAL DEPTH: 184.20m |

COLLAR GRID AZIMUTH: 290° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 290° 0' 0"

| | | | |
|---------------------------------|----------------------|---------------------|-----------------------------------|
| DATE STARTED: August 16, 1991 | COLLAR SURVEY: NO | PULSE EM SURVEY: NO | CONTRACTOR: FRONTIER DRILLING LTD |
| DATE COMPLETED: August 17, 1991 | MULTISHOT SURVEY: NO | PLUGGED: NO | CASING: TO 20'(10' LEFT IN HOLE) |
| DATE LOGGED: August 19, 1991 | RQD LOG: YES | HOLE SIZE: NQ | CORE STORAGE: CAMP |

PURPOSE:

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 47.80 | - | -70° 0' | ACID | OK | | - | - | - | - | - | |
| 160.60 | - | -71° 0' | ACID | OK | | - | - | - | - | - | |
| 191.10 | - | -71° 0' | ACID | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|------------------------|---|-------------|--|--|---------|
| 0.00 TO 6.10 | «CASING» | Basalt till boulders. | | | | |
| 6.10 TO 19.50 | «OXIDIZED ZONE-LATITE» | Yellow-brown. Medium grained. Strongly, argillized and weathered. Flow banded latite patchy silicification and moderate quartz stockwork. Stockwork Quartz Vein | 45 | «St Arg» Abundant fe-oxide. «Mod Stockwork» | «Limonitic» original pyrite weathered to limonite. | |
| 19.50 TO 41.30 | «LATITE FLOW» | Grey-yellow. Medium grained. Strongly argillized flow banded latite. Banding (40-70 degrees). W-M pyrite stringers locally gougy, also patchy silicification around pyrite stringers and small micro breccias @ 27.5m, 30.8m. | 55 | «Mod Sil» «St-Lat Arg» Abundant yellow clay replaces feldspar phenos and alternate bands between silicified laminations argillic alteration and yellow clay content increases down section. | «W-M Py Str 3%» Pyrite to 5% is latest stage in 2-5cm vuggy quartz micro breccia veins and forms stringers up to 1cm wide. | |
| 41.30 TO 56.00 | «TUFF BRECCIA» | Grey-yellow. Medium grained. Strongly argillized depositional breccia of latite/porphyry fragments in tuffaceous matrix frags vary from 40-80%, matrix to clast supported. Frags dominantly latite flow, but also fs-hb porphyry and aphanitic ash tuff interval. | | «St Arg» «St Sil-Patchy» Interval is strongly argillized with abundant yellow clay replacing fragments and matrix. Silicification is locally strong but very patchy and post dates arg altn. | «W Py Str, 3%» Fine grained pyrite occurs as rare discrete stringers and disseminated in patchy black siliceous breccia matrix. | |
| | {41.4-41.5} | «Fault» Clay rich gouge. | ? | | | |
| | {41.5-42.1} | «Breccia Vein» Black sulphide quartz breccia with yellow argillized wallrock fragments. Frags 30% wallrock 30% previous white quartz. | ? | «St Arg» wallrock frags. «I Sil» | «Dis Py 5%» in the black quartz matrix. | |
| | {54-54.2} | «Fault» 10cm grey clay gouge. | 45 | | | |
| | {53-53.3} | «Breccia Vein» Black sulphide quartz breccia st argillite (yellow clay) w/r frags in black quartz matrix. Rebrecciated and healed by white quartz final stage is grey chalcedony filling large 10cm across. Wallrock frags only 20%. | 30 | «St Arg» «I Sil» St yellow clay argillization of wallrock frags. | «Dis Py 3%» Occurs disseminated in black quartz matrix. | |

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DRILL HOLE RECORD

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---------------------|--|-------------|---|---|---|
| 56.00 TO 66.50 | «TUFF BRECCIA» | Yellow-green. Intense to extreme argillically altered tuff breccia, weak patchy silicification surrounding sparse pyrite stringers, breccia frags dominantly latite flow. Similar to previous interval, but much increased argillization. | | «I-X Arg» «W Sil» Locally intense argillite altn results in gougy zones. | «W Py Str, 2%» Fine to coarse euhedral pyrite in sparse quartz stringers and silicified patches. | |
| | {62.3-62.4} | «Pyritic Breccia» Pyrite rich breccia. | | «S Sil» | «Pyrite 5%» | |
| | {61.7-61.8} | «Qtz Brx Vein» 3cm quartz breccia vein. | | «Int Sil» | «Pyrite 3%» as selvage within vein. | |
| 66.50 TO 68.20 | «FAULT ZONE» | Grey-green. Extreme argillization, abundant clay gouge and rotated rounded of intensely argillized latite, and broken pyritic quartz vein. | | «X Arg» | «Tr Py» | Rotated rounded frags. |
| 68.20 TO 68.80 | «SIL BRECCIA» | Grey. Intensely silicified tuff brx, partly vein breccia. Clast supported fragments of latite flow and crowded PF porphyry, frags to 10cm. Dark grey sulphide quartz breccia vein forms 30% of interval and is weakly vuggy. | 45 | «S Arg» overprinted by «I Sil» Clear to grey quartz matrix carries 2% disseminated pyrite frags are strongly silicified after strong argillization.6 | «2% Dis Py» in black quartz breccia matrix. «Trace Grey Flakes» in earlier quartz breccia frags. | |
| 68.80 TO 72.30 | «LATITE» | Pale green. Strongly argillized flow banded latite overprinted by banding..... Moderate patchy silicification. | 20 | «St Arg» «M Sil» | «W Py Str 2%» | |
| 72.30 TO 82.50 | «STOCKWORK BRECCIA» | Grey-green. Wide zone of sulphidic quartz breccia and stockwork veins. In strongly argillized and silicified latite flow. Latite Flow Banding Interval is perhaps 40% breccia + stockwork. | 40 | «St Arg» overprinted by patchy «St Sil» Remnant texture. | «Py 5%» in irregular black quartz breccia and stringers pyrite is fine grained occurs as selvages and blebs to 1cm. | Good looking 10m zone of sulphide quartz stockwork and breccia. |
| | {72.8-74.2} | «Breccia Vein» Dark grey. Black sulphidic quartz breccia vein. Fragments of flow banded latite to 10cm commonly show remnant reievlate texture. St silicification overprints st argillization. Minor vugs to 1cm. Frags pale grey, clast supported. | | «Int Sil» black sulphidic matrix. «St Sil» of wallrock fragments after st argillic alteration. | «Py 3%» fine grained pyrite as irregular blebs and "lacey" selvages. Also trace bladed in late white quartz. | Trace bladed |
| | {82-82.5} | «Breccia Vein» Black sulphide breccia vein as above, borders on jigsaw breccia. | | «St Sil» after «St Arg» | «Py 3%» as previous. | Sharp angular frags. |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|----------------------|---|-------------|---|---|---------|
| 82.50 TO 83.20 | «FAULT» | Pale green. Extreme argillization below fault @ 82.6m. | | «Arg» Total clay gouge. | «Trace Py» | |
| 83.20 TO 90.90 | «TUFF BRECCIA» | Pale green. 1-10cm angular fragments in strongly to intensely argillized depositional breccia with tuffaceous matrix. Frags strongly argillized to moderately silicified and chloritized feldspar/ash tuffs, frags crudely bedded. Crude Bedding | 50 | «S-I Arg» Intense argillization in top 1/2 of interval decreasing down section. Upper 1/2 is locally gougy. Minor quartz frags suggest local faulting. | «Trace Py» | |
| 90.90 TO 92.70 | «FAULT» | Extreme argillization of apparent faulted contact between tuff breccia and underlying porphyry. Local gouge, minor patchy silicification, one disrupted pyrite stringer. | | «X Arg» «W Sil» Extreme argillization of apparent fault breccia. Locally total gouge. | «Trace Py» 3% pyrite in one disrupted pyrite stringer. | |
| 92.70 TO 110.30 | «FS-HB-BI P ORPHYRY» | Grey-green. Moderately argillized and chloritized feldspar hornblende biotite porphyry, all phenos 2-5mm feldspars gone to pale green clay, mafics are chloritized. Stronger argillic bleaching occurs in irregular patches. | | «M Arg, M Chl» Plus patchy strong argillic bleaching. Upper 1/2 of interval is somewhat more argillized. | Not even a trace! | |
| | ‡93.8-94‡ | «Fault» Minor gouge. | | «I Arg» | | |
| | ‡96.9-97.5‡ | «Bleached Breccia» with chloritic quartz matrix. | | «S Arg» | «Trace Py» | |
| | ‡98.9-99.6‡ | «Bleached» | | «S Arg» | | |
| | ‡100.8-101‡ | «Fault» Minor gouge. | | «I Arg» | | |
| | ‡103-103.2‡ | «Fault» Minor gouge. | | «I Arg» | | |
| | ‡104.6-104.7‡ | «Fault» Minor gouge. | | | | |
| | ‡106.4-107.7‡ | «Bleached» patch with single white quartz vein 1cm @ 106.4m. | | «S Arg» «W Sil» | | |
| | ‡108.1-108.7‡ | «Bleached» patch with chloritic pyrite stringers. | | «W Sil» «S Arg» | «Trace Py Str» | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---------------------|---|-------------|--|--|----------------------|
| 110.30 TO 119.30 | «FS-HB-BI PORPHYRY» | Dark green. Same lithology as previous interval, new strongly chloritized, matrix and phenos, hematite laminations. Definite Flow Banding Strongest chloritization between 114.6-115.1m. | 45 | «S Chl,M Sil» patches of moderate argillic bleaching. | «Trace Py» in sparse white quartz stringers. | Weak fizz with acid. |
| | ‡113.3-114.4‡ | «Stockwork» Pale green. Argillically bleached zone of weak quartz pyrite chlorite stockwork veining. | | «M Arg» «M Sil» | «Py 3%» in chloritic quartz strings fine to medium grained disseminated and selvages. | |
| 119.30 TO 119.80 | «FAULT» | Pale green. Fault gouge, abundant clay. | | «I Arg» Strong clay gouge. | «Trace Py» | |
| 119.80 TO 129.20 | «BRECCIA» | Pale green, and red. Strong to intense argillically altered tuff breccia with pale green frags in matrix. Locally gougy, interval appears to be exclusively faulted. Some frags are strongly silicified and bear pyritic quartz stringers. | | «S-I Arg» «M-S H » | «Trace Py» in disrupted quartz stringers. | |
| | ‡122.1-122.8‡ | «Fs Hb Bi Porphyry» Pale green. Medium grained. Intensely argillized feldspar biotite porphyry with moderately pyritic micro stockwork. | 70 | «I Arg» «S Sil» | «1% Py» in quartz micro stockwork. | |
| | ‡122.8-123.1‡ | «Fault» Clay rich fault. | | «I Arg» Abundant clay. | | |
| | ‡123.1-126.5‡ | «Lapilli Breccia» Pale grey. Strongly bleached and argillized lapilli tuff with 1cm (.5-10cm) angular frags of fine grained fs? ash tuff. Frags are intensely argillized, yellow-green clay pyrite occurs disseminated throughout. *This unit bears minor bright green lapilli (1cm rounded very similar to those observed in the North Zone major culvert outcrop. | | «S-I Arg» Strongly argillized matrix, intensely argillized fragments. | «1% Py» as blebby disseminations throughout. | |
| 129.20 TO 131.30 | «SIL BRECCIA» | Grey. Silicified stockwork and locally brecciated lapilli breccia. Fragments of wallrock strongly argillized weakly silicified, in grey quartz matrix with late crosscutting pyrite stringers. | | «S Arg» overprinted by «I Sil» and late quartz-pyrite stockwork veins. | «Py 3%» as late pyritic quartz stringers. Also weakly disseminated blebs as phenocryst replacements. | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---------------------------------------|---|-------------|--|---|--|
| 131.30 TO 132.30 | «FAULT» | Extremely argillized, gougy fault zones. | 40 | «X Arg» | «Trace Py» | |
| 132.30 TO 149.00 | «QTZ-PY STOCKWORK» | Strong pyritic quartz stockwork zone. Quartz stringers <1cm are grey to black, carrying up to 5% fine grained pyrite as selvages and tiny bladed aggregates. Wallrock is weakly flow banded FS MB BI. Porphyry-which appears rather tuffaceous in places. Pf 1-3mm are altered to pale green clay, phenos. Sparse 1cm lapilli frags (or glomerophorphyreclasts?) are chloritized and pyritic. | 45 20 | «M Arg» overprinted by «M Sil» and strong quartz-pyrite stockworking with minor microbreccias. | «3% Py» as pyritic quartz stringers <1cm and weakly disseminated in wallrock. | FS HB BI porphyry flow or tuff? Promising looking zone looks similar areas in North Zone that best |
| 149.00 TO 153.60 | «FAULT BRECCIA» | Dark grey. A wide fault zone of intense argillization, brecciation and weak quartz-pyrite stockworking. Breccia frags generally 1-5cm of feldspar porphyry or ash tuff are intensely argillized clast supported. 30% of frags are strongly silicified pyritic and may represent broken quartz vein material. Lower half of interval is very gougy, with minor hematite and abundant green clay. | | «I Arg» of wallrock fragments and «M Sil» of matrix with late crosscutting pyritic stringers 4cm. | «Py 2%» disseminated and in quartz stringers. | |
| 153.60 TO 158.30 | «FS-HB-BI PORPHYRY» 157-158.3 | Green. Medium grained. feldspar and biotite porphyry with marked flow banding.... Interval is weakly stockworked with black pyritic stringers. «Sil Breccia» Quartz + chlorite cemented breccia, grey locally quartz +/- chlorite + pyrite cementing strongly silicified porphyry breccia. | 45 | «M Chl» «M Sil» Pervasive chloritization and patchy silicification around quartz stringers. «S Chl» «S Sil» | «1% Py» in black quartz stringers. «Trace Py» | |
| 158.30 TO 164.30 | «BANDED FLOW» 160.5-162.5 | Dark green. Aphanitic. An aphanitic flow, with moderately hematized. Flow Bands (80-90deg) Almost parallel to core axis. Contact is sharp at 158.3m, although 1cm wide micro breccia suggests contact is faulted. «Sil Breccia» Vuggy drusy white quartz cements an open wallrock breccia. Fragments 1-4cm in size, lie along a bedding plane "vein" several cm in width. | 85 | «M Sil» «M, Chl, M Hem» Hematite occurs along <1cm spaced flow bands chlorite along late fractures. «I Sil» | «Trace Py» in chloritic fractures. «Trace Py» Quartz is essentially barren, chloritic fractures carry more pyrite than quartz does. | Angular Bedding parallel. "Vuggy vein void" |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|------------------------------------|---|-------------|---|--|--|
| 164.30 TO 171.80 | «BANDED FLOW» ‡166.4-166.5‡ | Aphanitic. Same lithology, but chlorite + hematite alteration, decreased silicification. Fracture intensity increases down section, producing locally gougy intervals with st argillic alteration. «Qtz Vein» White pyritic quartz vein 2cm. | 30 | «M Sil, M Arg» «S Chl, S Hem» Hematite occurs along flow bands. Chlorite (+/- pyrite) coats late fractures, fills minor micro breccias. Argillization increases down section. | «Trace Py» «1% Dis Py» | |
| 171.80 TO 171.90 | «FAULTS» | Highly fractured, brecciated contact with st argillic alteration and moderate clay gouge. | | «St Arg» | | |
| 171.90 TO 180.10 | «ALTERATION BALIS» | Olive green. Aphanitic. Fine grained ash or sediment unit with abundant alteration balls. pale green to buff matrix and brown oval balls entire interval is extensively fractured. 50% is gougy, looks faulted late fractures host minor calcite and abundant chlorite. | | «W Sil» «W Arg» «W Chl, Hem» ‡175.-180.1‡ | «Trace Dis Py» «Fault Zone» Highly fractured gougy interval. | Classic alteration balls. |
| 180.10 TO 180.50 | «SIL BRECCIA» | Grey. Open vuggy breccia cemented by quartz and pyrite. Fragments are dark grey silicified mudstone. Probably hydrothermal breccia essentially no matrix only pyritic quartz rims fragments. | | «I Sil» | «5% Pyrite As Breccia Cement» | |
| 180.50 TO 181.80 | «HEMATITE BRECCIA» | Black and red. Gougy hematite rich fault breccia, probably a continuation of fault zone from 175-181.8m, now in a dark grey siliceous mudstone. 50% of interval is gougy. | | «M-S Argillization» «S Hematite» in matrix. Fragments are moderately silicified. | «Trace Py» | Black areas are voids completely coated by fine grained pyrite in quartz rims. |
| 181.80 TO 184.20 | «HEMATITE BRECCIA» | Red & green. Hematite rich depositional breccia, similar to above interval, but not gougy only weakly argillic. Green fine grained sed frags in fine grained hematitic matrix. | | «W Arg» «S Hem» | «Trace Py» | |
| 184.20 TO 191.10 | «ASH TUFF» | Dark green. Well bedded fine grained ash tuffs or mudstones, with hematized fractures & alternating beds, minor micro breccias are strongly chloritized, hematized and carry trace pyrite. Sparse calcite stringers. Bedding(0-20deg) END OF HOLE. | 10 | «M-S Chl, Hem» «M Sil» | «Trace Py» | First significant appearance of calcite veinlets. |

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|----------|--------|------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 43532 | 8.20 | 10.20 | 2.00 | 2.3 | 977 | 1 | 18 | 11 | 50 | 21 | 47 | 410 | 22 | |
| 43533 | 10.20 | 12.20 | 2.00 | 1.9 | 979 | 1 | 15 | 9 | 35 | 23 | 59 | 500 | 30 | |
| 43534 | 12.20 | 14.20 | 2.00 | 3.1 | 1118 | 1 | 17 | 12 | 37 | 28 | 74 | 505 | 20 | |
| 43535 | 14.20 | 16.20 | 2.00 | 2 | 1128 | 1 | 19 | 11 | 31 | 22 | 53 | 410 | 25 | |
| 43536 | 16.20 | 19.50 | 3.30 | 2.3 | 478 | 1 | 19 | 8 | 26 | 14 | 38 | 395 | 38 | |
| 43537 | 19.50 | 21.50 | 2.00 | 1.6 | 140 | 1 | 17 | 14 | 13 | 43 | 22 | 265 | 23 | |
| 43538 | 21.50 | 23.50 | 2.00 | 1.3 | 327 | 1 | 17 | 13 | 21 | 56 | 25 | 345 | 25 | |
| 43539 | 23.50 | 25.50 | 2.00 | 1.3 | 199 | 1 | 14 | 16 | 12 | 38 | 19 | 375 | 13 | |
| 43540 | 25.50 | 27.50 | 2.00 | 4.2 | 728 | 1 | 17 | 10 | 34 | 24 | 61 | 1100 | 22 | |
| 43541 | 27.50 | 29.50 | 2.00 | 7.7 | 1426 | 1 | 16 | 15 | 63 | 27 | 118 | 3560 | 21 | |
| 43542 | 29.50 | 31.50 | 2.00 | 2.8 | 708 | 1 | 26 | 13 | 30 | 42 | 53 | 430 | 16 | |
| 43543 | 31.50 | 33.50 | 2.00 | 1.4 | 382 | 1 | 16 | 12 | 17 | 60 | 35 | 235 | 17 | |
| 43544 | 33.50 | 35.50 | 2.00 | 2 | 691 | 1 | 17 | 14 | 27 | 60 | 134 | 145 | 12 | |
| 43545 | 35.50 | 37.50 | 2.00 | 1.3 | 545 | 1 | 17 | 15 | 25 | 46 | 39 | 440 | 25 | |
| 43546 | 37.50 | 39.50 | 2.00 | 1.3 | 959 | 2 | 17 | 14 | 38 | 46 | 90 | 215 | 21 | |
| 43547 | 39.50 | 41.30 | 1.80 | 1.5 | 189 | 1 | 15 | 16 | 14 | 39 | 36 | 245 | 18 | |
| 43548 | 41.30 | 42.10 | 0.80 | 3.2 | 1024 | 1 | 16 | 22 | 46 | 33 | 120 | 1295 | 14 | |
| 43549 | 42.10 | 44.10 | 2.00 | 1.8 | 773 | 1 | 18 | 13 | 26 | 43 | 66 | 335 | 18 | |
| 43550 | 44.10 | 46.10 | 2.00 | 2.1 | 1434 | 1 | 15 | 12 | 46 | 42 | 122 | 255 | 26 | |
| 43551 | 46.10 | 48.10 | 2.00 | 1.5 | 1038 | 1 | 14 | 10 | 37 | 44 | 67 | 260 | 32 | |
| 43552 | 48.10 | 50.00 | 1.90 | 2.2 | 200 | 1 | 17 | 14 | 12 | 50 | 28 | 240 | 23 | |
| 43553 | 50.00 | 52.00 | 2.00 | 3.8 | 1596 | 1 | 18 | 15 | 50 | 49 | 91 | 550 | 28 | |
| 43554 | 52.00 | 54.00 | 2.00 | 3.8 | 2492 | 1 | 11 | 13 | 66 | 35 | 204 | 440 | 22 | |
| 43555 | 54.00 | 56.00 | 2.00 | 1.9 | 666 | 1 | 15 | 14 | 25 | 45 | 67 | 260 | 23 | |
| 43556 | 56.00 | 58.00 | 2.00 | 1.6 | 721 | 1 | 17 | 11 | 23 | 29 | 70 | 125 | 15 | |
| 43557 | 58.00 | 60.00 | 2.00 | 1.4 | 319 | 1 | 17 | 15 | 16 | 49 | 38 | 200 | 23 | |
| 43558 | 60.00 | 62.00 | 2.00 | 1.8 | 1206 | 1 | 19 | 13 | 41 | 42 | 78 | 180 | 18 | |
| 43559 | 62.00 | 64.00 | 2.00 | 1.8 | 690 | 2 | 20 | 17 | 27 | 61 | 59 | 185 | 17 | |
| 43560 | 64.00 | 65.50 | 1.50 | 1.8 | 1655 | 2 | 18 | 12 | 54 | 27 | 162 | 110 | 5 | |
| 43561 | 65.50 | 66.50 | 1.00 | 1.6 | 1040 | 2 | 18 | 14 | 30 | 45 | 106 | 75 | 4 | |
| 43562 | 66.50 | 68.20 | 1.70 | 2.2 | 627 | 2 | 10 | 13 | 28 | 46 | 59 | 215 | 7 | |
| 43563 | 68.20 | 70.00 | 1.80 | 1.3 | 813 | 2 | 8 | 7 | 27 | 21 | 104 | 105 | 1 | |
| 43564 | 70.00 | 70.80 | 0.80 | 2 | 699 | 1 | 8 | 14 | 22 | 34 | 76 | 175 | 8 | |
| 43565 | 70.80 | 72.30 | 1.50 | 1.4 | 359 | 1 | 5 | 12 | 11 | 26 | 33 | 255 | 8 | |
| 43566 | 72.30 | 72.80 | 0.50 | 1.7 | 501 | 1 | 7 | 13 | 14 | 29 | 38 | 185 | 4 | |
| 43567 | 72.80 | 74.20 | 1.40 | 2.9 | 1406 | 1 | 7 | 11 | 39 | 33 | 125 | 500 | 8 | |
| 43568 | 74.20 | 76.20 | 2.00 | 3.3 | 1194 | 1 | 10 | 12 | 34 | 43 | 122 | 685 | 16 | |
| 43569 | 76.20 | 78.20 | 2.00 | 3.1 | 1312 | 1 | 9 | 13 | 43 | 34 | 143 | 860 | 8 | |

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ASSAY SHEET

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| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43570 | 78.20 | 80.10 | 1.90 | 3.3 | 1448 | 2 | 9 | 15 | 47 | 36 | 96 | 2120 | 17 |
| 43571 | 80.10 | 82.00 | 1.90 | 1.2 | 440 | 1 | 7 | 12 | 14 | 37 | 37 | 610 | 10 |
| 43572 | 82.00 | 82.50 | 0.50 | 2.6 | 2218 | 2 | 7 | 15 | 71 | 47 | 200 | 1300 | 2 |
| 43573 | 82.50 | 83.20 | 0.70 | 0.6 | 248 | 1 | 7 | 14 | 7 | 75 | 19 | 290 | 4 |
| 43574 | 83.20 | 85.20 | 2.00 | 0.5 | 90 | 2 | 15 | 16 | 1 | 71 | 8 | 365 | 13 |
| 43575 | 88.90 | 90.90 | 2.00 | 0.2 | 57 | 2 | 17 | 17 | 1 | 69 | 15 | 205 | 17 |
| 43576 | 90.90 | 92.70 | 1.80 | 0.7 | 224 | 1 | 24 | 15 | 5 | 70 | 18 | 655 | 16 |
| 43577 | 92.70 | 94.70 | 2.00 | 0.3 | 51 | 2 | 18 | 14 | 1 | 74 | 16 | 155 | 27 |
| 43578 | 94.70 | 96.70 | 2.00 | 0.5 | 62 | 3 | 20 | 18 | 1 | 79 | 7 | 145 | 30 |
| 43579 | 96.70 | 98.70 | 2.00 | 0.2 | 37 | 3 | 22 | 18 | 1 | 72 | 5 | 125 | 24 |
| 43580 | 98.70 | 99.70 | 1.00 | 0.5 | 63 | 3 | 22 | 14 | 1 | 69 | 17 | 170 | 17 |
| 43581 | 99.70 | 101.70 | 2.00 | 0.4 | 86 | 3 | 20 | 15 | 1 | 66 | 14 | 230 | 36 |
| 43582 | 101.70 | 103.70 | 2.00 | 0.2 | 63 | 2 | 20 | 15 | 1 | 63 | 19 | 200 | 12 |
| 43583 | 103.70 | 106.10 | 2.40 | 0.2 | 58 | 3 | 23 | 14 | 1 | 69 | 10 | 215 | 25 |
| 43584 | 106.10 | 108.10 | 2.00 | 0.3 | 15 | 2 | 19 | 17 | 1 | 54 | 82 | 115 | 17 |
| 43585 | 108.10 | 110.30 | 2.20 | 0.2 | 45 | 2 | 34 | 9 | 1 | 47 | 8 | 275 | 26 |
| 43586 | 110.30 | 112.30 | 2.00 | 0.1 | 51 | 2 | 23 | 10 | 1 | 53 | 6 | 215 | 12 |
| 43587 | 112.30 | 114.30 | 2.00 | 0.3 | 69 | 2 | 32 | 11 | 1 | 56 | 5 | 305 | 15 |
| 43588 | 114.30 | 116.30 | 2.00 | 0.5 | 43 | 3 | 33 | 11 | 1 | 52 | 2 | 160 | 9 |
| 43589 | 116.30 | 118.30 | 2.00 | 0.6 | 104 | 3 | 30 | 18 | 1 | 54 | 17 | 250 | 13 |
| 43590 | 118.30 | 119.80 | 1.50 | 0.2 | 24 | 4 | 35 | 18 | 1 | 77 | 2 | 205 | 7 |
| 43591 | 119.80 | 121.80 | 2.00 | 0.8 | 81 | 3 | 404 | 43 | 1 | 363 | 21 | 270 | 18 |
| 43592 | 121.80 | 123.10 | 1.30 | 1 | 144 | 2 | 91 | 23 | 7 | 347 | 18 | 575 | 17 |
| 43593 | 123.10 | 125.10 | 2.00 | 1.4 | 116 | 1 | 53 | 23 | 7 | 103 | 20 | 195 | 16 |
| 43594 | 125.10 | 126.50 | 1.40 | 1 | 130 | 2 | 25 | 16 | 10 | 55 | 13 | 245 | 8 |
| 43595 | 126.50 | 128.20 | 1.70 | 1.4 | 523 | 2 | 92 | 18 | 20 | 47 | 40 | 505 | 22 |
| 43596 | 128.20 | 129.20 | 1.00 | 1.2 | 254 | 2 | 61 | 16 | 14 | 63 | 16 | 415 | 10 |
| 43597 | 129.20 | 131.30 | 2.10 | 1.3 | 327 | 2 | 32 | 17 | 20 | 63 | 22 | 1065 | 22 |
| 43598 | 131.30 | 132.30 | 1.00 | 1.3 | 438 | 2 | 23 | 17 | 23 | 55 | 26 | 310 | 8 |
| 43599 | 132.30 | 134.30 | 2.00 | 1.3 | 364 | 2 | 18 | 14 | 18 | 49 | 32 | 775 | 25 |
| 43600 | 134.30 | 136.20 | 1.90 | 0.8 | 112 | 1 | 15 | 12 | 8 | 46 | 18 | 425 | 21 |
| 43601 | 136.20 | 138.20 | 2.00 | 1 | 213 | 2 | 96 | 19 | 11 | 60 | 21 | 690 | 27 |
| 43602 | 138.20 | 140.20 | 2.00 | 1.6 | 259 | 1 | 90 | 22 | 15 | 52 | 38 | 685 | 19 |
| 43603 | 140.20 | 142.20 | 2.00 | 1.6 | 186 | 1 | 19 | 18 | 11 | 39 | 19 | 480 | 18 |
| 43604 | 142.20 | 144.20 | 2.00 | 2.1 | 245 | 2 | 17 | 15 | 17 | 34 | 22 | 400 | 11 |
| 43605 | 144.20 | 146.20 | 2.00 | 1.7 | 353 | 1 | 19 | 14 | 19 | 32 | 36 | 465 | 17 |
| 43606 | 146.20 | 148.20 | 2.00 | 2.1 | 561 | 2 | 23 | 14 | 30 | 46 | 39 | 585 | 19 |
| 43607 | 148.20 | 149.00 | 0.80 | 0.9 | 544 | 1 | 71 | 18 | 26 | 39 | 23 | 340 | 12 |

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ASSAY SHEET

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ASSAY SHEET

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| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | F1 #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43608 | 149.00 | 151.00 | 2.00 | 1.5 | 1685 | 1 | 33 | 17 | 59 | 53 | 42 | 845 | 23 |
| 43609 | 151.00 | 153.60 | 2.60 | 2.1 | 908 | 1 | 22 | 14 | 32 | 39 | 64 | 300 | 26 |
| 43610 | 153.60 | 155.60 | 2.00 | 0.4 | 119 | 1 | 12 | 15 | 7 | 40 | 21 | 130 | 29 |
| 43611 | 155.60 | 157.00 | 1.40 | 0.6 | 79 | 1 | 10 | 16 | 5 | 34 | 19 | 210 | 18 |
| 43612 | 157.00 | 158.30 | 1.30 | 0.6 | 43 | 1 | 12 | 18 | 6 | 43 | 2 | 120 | 22 |
| 43613 | 158.30 | 159.30 | 1.00 | 0.6 | 134 | 1 | 19 | 18 | 5 | 43 | 46 | 90 | 24 |
| 43614 | 159.30 | 160.50 | 1.20 | 1.1 | 267 | 1 | 28 | 18 | 6 | 47 | 61 | 205 | 25 |
| 43615 | 160.50 | 161.50 | 1.00 | 0.8 | 138 | 1 | 23 | 16 | 6 | 38 | 43 | 75 | 18 |
| 43616 | 161.50 | 162.50 | 1.00 | 0.4 | 125 | 1 | 18 | 17 | 4 | 37 | 49 | 35 | 26 |
| 43617 | 162.50 | 164.50 | 2.00 | 0.3 | 57 | 1 | 26 | 19 | 6 | 49 | 3 | 45 | 48 |
| 43618 | 164.50 | 166.60 | 2.10 | 0.8 | 107 | 1 | 22 | 15 | 8 | 43 | 18 | 55 | 27 |
| 43619 | 166.60 | 168.60 | 2.00 | 1 | 286 | 1 | 20 | 17 | 13 | 42 | 17 | 135 | 16 |
| 43620 | 168.60 | 170.60 | 2.00 | 0.7 | 126 | 1 | 23 | 19 | 8 | 42 | 5 | 185 | 21 |
| 43621 | 170.60 | 171.80 | 1.20 | 0.5 | 31 | 1 | 26 | 18 | 5 | 34 | 2 | 45 | 100 |
| 43622 | 171.80 | 173.80 | 2.00 | 0.5 | 58 | 1 | 27 | 19 | 6 | 37 | 1 | 40 | 40 |
| 43623 | 173.80 | 175.80 | 2.00 | 0.5 | 82 | 1 | 24 | 18 | 8 | 36 | 16 | 70 | 100 |
| 43624 | 175.80 | 177.80 | 2.00 | 2.5 | 273 | 2 | 29 | 21 | 17 | 43 | 20 | 110 | 100 |
| 43625 | 177.80 | 180.10 | 2.30 | 1.6 | 770 | 1 | 26 | 22 | 38 | 42 | 18 | 710 | 50 |
| 43626 | 180.10 | 180.50 | 0.40 | 0.7 | 1187 | 1 | 14 | 17 | 128 | 28 | 82 | 1645 | 3 |
| 43627 | 180.50 | 180.50 | 0.00 | 0.9 | 380 | 1 | 24 | 19 | 17 | 50 | 36 | 890 | 17 |
| 43628 | 181.90 | 184.20 | 2.30 | 0.6 | 107 | 1 | 18 | 23 | 8 | 41 | 15 | 100 | 18 |
| 43629 | 186.80 | 188.70 | 1.90 | 0.6 | 26 | 2 | 26 | 20 | 7 | 39 | 6 | 55 | 7 |

HOLE NUMBER: CL-91-03

ASSAY SHEET

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HOLE NUMBER: CL-91-03

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|----------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 43532 | 8.20 | 10.20 | 2.00 | 2.3 | 977 | 1 | 18 | 11 | 50 | 21 | 47 | 410 | 22 |
| 43533 | 10.20 | 12.20 | 2.00 | 1.9 | 979 | 1 | 15 | 9 | 35 | 23 | 59 | 500 | 30 |
| 43534 | 12.20 | 14.20 | 2.00 | 3.1 | 1118 | 1 | 17 | 12 | 37 | 28 | 74 | 505 | 20 |
| 43535 | 14.20 | 16.20 | 2.00 | 2 | 1128 | 1 | 19 | 11 | 31 | 22 | 53 | 410 | 25 |
| 43536 | 16.20 | 19.50 | 3.30 | 2.3 | 478 | 1 | 19 | 8 | 26 | 14 | 38 | 395 | 38 |
| 43537 | 19.50 | 21.50 | 2.00 | 1.6 | 140 | 1 | 17 | 14 | 13 | 43 | 22 | 265 | 23 |
| 43538 | 21.50 | 23.50 | 2.00 | 1.3 | 327 | 1 | 17 | 13 | 21 | 56 | 25 | 345 | 25 |
| 43539 | 23.50 | 25.50 | 2.00 | 1.3 | 199 | 1 | 14 | 16 | 12 | 38 | 19 | 375 | 13 |
| 43540 | 25.50 | 27.50 | 2.00 | 4.2 | 728 | 1 | 17 | 10 | 34 | 24 | 61 | 1100 | 22 |
| 43541 | 27.50 | 29.50 | 2.00 | 7.7 | 1426 | 1 | 16 | 15 | 63 | 27 | 118 | 3560 | 21 |
| 43542 | 29.50 | 31.50 | 2.00 | 2.8 | 708 | 1 | 26 | 13 | 30 | 42 | 53 | 430 | 16 |
| 43543 | 31.50 | 33.50 | 2.00 | 1.4 | 382 | 1 | 16 | 12 | 17 | 60 | 35 | 235 | 17 |
| 43544 | 33.50 | 35.50 | 2.00 | 2 | 691 | 1 | 17 | 14 | 27 | 60 | 134 | 145 | 12 |
| 43545 | 35.50 | 37.50 | 2.00 | 1.3 | 545 | 1 | 17 | 15 | 25 | 46 | 39 | 440 | 25 |
| 43546 | 37.50 | 39.50 | 2.00 | 1.3 | 959 | 2 | 17 | 14 | 38 | 46 | 90 | 215 | 21 |
| 43547 | 39.50 | 41.30 | 1.80 | 1.5 | 189 | 1 | 15 | 16 | 14 | 39 | 36 | 245 | 18 |
| 43548 | 41.30 | 42.10 | 0.80 | 3.2 | 1024 | 1 | 16 | 22 | 46 | 33 | 120 | 1295 | 14 |
| 43549 | 42.10 | 44.10 | 2.00 | 1.8 | 773 | 1 | 18 | 13 | 26 | 43 | 66 | 335 | 18 |
| 43550 | 44.10 | 46.10 | 2.00 | 2.1 | 1434 | 1 | 15 | 12 | 46 | 42 | 122 | 255 | 26 |
| 43551 | 46.10 | 48.10 | 2.00 | 1.5 | 1038 | 1 | 14 | 10 | 37 | 44 | 67 | 260 | 32 |
| 43552 | 48.10 | 50.00 | 1.90 | 2.2 | 200 | 1 | 17 | 14 | 12 | 50 | 28 | 240 | 23 |
| 43553 | 50.00 | 52.00 | 2.00 | 3.8 | 1596 | 1 | 18 | 15 | 50 | 49 | 91 | 550 | 28 |
| 43554 | 52.00 | 54.00 | 2.00 | 3.8 | 2492 | 1 | 11 | 13 | 66 | 35 | 204 | 440 | 22 |
| 43555 | 54.00 | 56.00 | 2.00 | 1.9 | 666 | 1 | 15 | 14 | 25 | 45 | 67 | 260 | 23 |
| 43556 | 56.00 | 58.00 | 2.00 | 1.6 | 721 | 1 | 17 | 11 | 23 | 29 | 70 | 125 | 15 |
| 43557 | 58.00 | 60.00 | 2.00 | 1.4 | 319 | 1 | 17 | 15 | 16 | 49 | 38 | 200 | 23 |
| 43558 | 60.00 | 62.00 | 2.00 | 1.8 | 1206 | 1 | 19 | 13 | 41 | 42 | 78 | 180 | 18 |
| 43559 | 62.00 | 64.00 | 2.00 | 1.8 | 690 | 2 | 20 | 17 | 27 | 61 | 59 | 185 | 17 |
| 43560 | 64.00 | 65.50 | 1.50 | 1.8 | 1655 | 2 | 18 | 12 | 54 | 27 | 162 | 110 | 5 |
| 43561 | 65.50 | 66.50 | 1.00 | 1.6 | 1040 | 2 | 18 | 14 | 30 | 45 | 106 | 75 | 4 |
| 43562 | 66.50 | 68.20 | 1.70 | 2.2 | 627 | 2 | 10 | 13 | 28 | 46 | 59 | 215 | 7 |
| 43563 | 68.20 | 70.00 | 1.80 | 1.3 | 813 | 2 | 8 | 7 | 27 | 21 | 104 | 105 | 1 |
| 43564 | 70.00 | 70.80 | 0.80 | 2 | 699 | 1 | 8 | 14 | 22 | 34 | 76 | 175 | 8 |
| 43565 | 70.80 | 72.30 | 1.50 | 1.4 | 359 | 1 | 5 | 12 | 11 | 26 | 33 | 255 | 8 |
| 43566 | 72.30 | 72.80 | 0.50 | 1.7 | 501 | 1 | 7 | 13 | 14 | 29 | 38 | 185 | 4 |
| 43567 | 72.80 | 74.20 | 1.40 | 2.9 | 1406 | 1 | 7 | 11 | 39 | 33 | 125 | 500 | 8 |
| 43568 | 74.20 | 76.20 | 2.00 | 3.3 | 1194 | 1 | 10 | 12 | 34 | 43 | 122 | 685 | 16 |
| 43569 | 76.20 | 78.20 | 2.00 | 3.1 | 1312 | 1 | 9 | 13 | 43 | 34 | 143 | 860 | 8 |
| 43570 | 78.20 | 80.10 | 1.90 | 3.3 | 1448 | 2 | 9 | 15 | 47 | 36 | 96 | 2120 | 17 |

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GEOCHEM. SHEET

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HOLE NUMBER: CL-91-03

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43571 | 80.10 | 82.00 | 1.90 | 1.2 | 440 | 1 | 7 | 12 | 14 | 37 | 37 | 610 | 10 |
| 43572 | 82.00 | 82.50 | 0.50 | 2.6 | 2218 | 2 | 7 | 15 | 71 | 47 | 200 | 1300 | 2 |
| 43573 | 82.50 | 83.20 | 0.70 | 0.6 | 248 | 1 | 7 | 14 | 7 | 75 | 19 | 290 | 4 |
| 43574 | 83.20 | 85.20 | 2.00 | 0.5 | 90 | 2 | 15 | 16 | 1 | 71 | 8 | 365 | 13 |
| 43575 | 88.90 | 90.90 | 2.00 | 0.2 | 57 | 2 | 17 | 17 | 1 | 69 | 15 | 205 | 17 |
| 43576 | 90.90 | 92.70 | 1.80 | 0.7 | 224 | 1 | 24 | 15 | 5 | 70 | 18 | 655 | 16 |
| 43577 | 92.70 | 94.70 | 2.00 | 0.3 | 51 | 2 | 18 | 14 | 1 | 74 | 16 | 155 | 27 |
| 43578 | 94.70 | 96.70 | 2.00 | 0.5 | 62 | 3 | 20 | 18 | 1 | 79 | 7 | 145 | 30 |
| 43579 | 96.70 | 98.70 | 2.00 | 0.2 | 37 | 3 | 22 | 18 | 1 | 72 | 5 | 125 | 24 |
| 43580 | 98.70 | 99.70 | 1.00 | 0.5 | 63 | 3 | 22 | 14 | 1 | 69 | 17 | 170 | 17 |
| 43581 | 99.70 | 101.70 | 2.00 | 0.4 | 86 | 3 | 20 | 15 | 1 | 66 | 14 | 230 | 36 |
| 43582 | 101.70 | 103.70 | 2.00 | 0.2 | 63 | 2 | 20 | 15 | 1 | 63 | 19 | 200 | 12 |
| 43583 | 103.70 | 106.10 | 2.40 | 0.2 | 58 | 3 | 23 | 14 | 1 | 69 | 10 | 215 | 25 |
| 43584 | 106.10 | 108.10 | 2.00 | 0.3 | 15 | 2 | 19 | 17 | 1 | 54 | 82 | 115 | 17 |
| 43585 | 108.10 | 110.30 | 2.20 | 0.2 | 45 | 2 | 34 | 9 | 1 | 47 | 8 | 275 | 26 |
| 43586 | 110.30 | 112.30 | 2.00 | 0.1 | 51 | 2 | 23 | 10 | 1 | 53 | 6 | 215 | 12 |
| 43587 | 112.30 | 114.30 | 2.00 | 0.3 | 69 | 2 | 32 | 11 | 1 | 56 | 5 | 305 | 15 |
| 43588 | 114.30 | 116.30 | 2.00 | 0.5 | 43 | 3 | 33 | 11 | 1 | 52 | 2 | 160 | 9 |
| 43589 | 116.30 | 118.30 | 2.00 | 0.6 | 104 | 3 | 30 | 18 | 1 | 54 | 17 | 250 | 13 |
| 43590 | 118.30 | 119.80 | 1.50 | 0.2 | 24 | 4 | 35 | 18 | 1 | 77 | 2 | 205 | 7 |
| 43591 | 119.80 | 121.80 | 2.00 | 0.8 | 81 | 3 | 404 | 43 | 1 | 363 | 21 | 270 | 18 |
| 43592 | 121.80 | 123.10 | 1.30 | 1 | 144 | 2 | 91 | 23 | 7 | 347 | 18 | 575 | 17 |
| 43593 | 123.10 | 125.10 | 2.00 | 1.4 | 116 | 1 | 53 | 23 | 7 | 103 | 20 | 195 | 16 |
| 43594 | 125.10 | 126.50 | 1.40 | 1 | 130 | 2 | 25 | 16 | 10 | 55 | 13 | 245 | 8 |
| 43595 | 126.50 | 128.20 | 1.70 | 1.4 | 523 | 2 | 92 | 18 | 20 | 47 | 40 | 505 | 22 |
| 43596 | 128.20 | 129.20 | 1.00 | 1.2 | 254 | 2 | 61 | 16 | 14 | 63 | 16 | 415 | 10 |
| 43597 | 129.20 | 131.30 | 2.10 | 1.3 | 327 | 2 | 32 | 17 | 20 | 63 | 22 | 1065 | 22 |
| 43598 | 131.30 | 132.30 | 1.00 | 1.3 | 438 | 2 | 23 | 17 | 23 | 55 | 26 | 310 | 8 |
| 43599 | 132.30 | 134.30 | 2.00 | 1.3 | 364 | 2 | 18 | 14 | 18 | 49 | 32 | 775 | 25 |
| 43600 | 134.30 | 136.20 | 1.90 | 0.8 | 112 | 1 | 15 | 12 | 8 | 46 | 18 | 425 | 21 |
| 43601 | 136.20 | 138.20 | 2.00 | 1 | 213 | 2 | 96 | 19 | 11 | 60 | 21 | 690 | 27 |
| 43602 | 138.20 | 140.20 | 2.00 | 1.6 | 259 | 1 | 90 | 22 | 15 | 52 | 38 | 685 | 19 |
| 43603 | 140.20 | 142.20 | 2.00 | 1.6 | 186 | 1 | 19 | 18 | 11 | 39 | 19 | 480 | 18 |
| 43604 | 142.20 | 144.20 | 2.00 | 2.1 | 245 | 2 | 17 | 15 | 17 | 34 | 22 | 400 | 11 |
| 43605 | 144.20 | 146.20 | 2.00 | 1.7 | 353 | 1 | 19 | 14 | 19 | 32 | 36 | 465 | 17 |
| 43606 | 146.20 | 148.20 | 2.00 | 2.1 | 561 | 2 | 23 | 14 | 30 | 46 | 39 | 585 | 19 |
| 43607 | 148.20 | 149.00 | 0.80 | 0.9 | 544 | 1 | 71 | 18 | 26 | 39 | 23 | 340 | 12 |
| 43608 | 149.00 | 151.00 | 2.00 | 1.5 | 1685 | 1 | 33 | 17 | 59 | 53 | 42 | 845 | 23 |

HOLE NUMBER: CL-91-03

GEOCHEM. SHEET

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HOLE NUMBER: CL-91-03

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43609 | 151.00 | 153.60 | 2.60 | 2.1 | 908 | 1 | 22 | 14 | 32 | 39 | 64 | 300 | 26 |
| 43610 | 153.60 | 155.60 | 2.00 | 0.4 | 119 | 1 | 12 | 15 | 7 | 40 | 21 | 130 | 29 |
| 43611 | 155.60 | 157.00 | 1.40 | 0.6 | 79 | 1 | 10 | 16 | 5 | 34 | 19 | 210 | 18 |
| 43612 | 157.00 | 158.30 | 1.30 | 0.6 | 43 | 1 | 12 | 18 | 6 | 43 | 2 | 120 | 22 |
| 43613 | 158.30 | 159.30 | 1.00 | 0.6 | 134 | 1 | 19 | 18 | 5 | 43 | 46 | 90 | 24 |
| 43614 | 159.30 | 160.50 | 1.20 | 1.1 | 267 | 1 | 28 | 18 | 6 | 47 | 61 | 205 | 25 |
| 43615 | 160.50 | 161.50 | 1.00 | 0.8 | 138 | 1 | 23 | 16 | 6 | 38 | 43 | 75 | 18 |
| 43616 | 161.50 | 162.50 | 1.00 | 0.4 | 125 | 1 | 18 | 17 | 4 | 37 | 49 | 35 | 26 |
| 43617 | 162.50 | 164.50 | 2.00 | 0.3 | 57 | 1 | 26 | 19 | 6 | 49 | 3 | 45 | 48 |
| 43618 | 164.50 | 166.60 | 2.10 | 0.8 | 107 | 1 | 22 | 15 | 8 | 43 | 18 | 55 | 27 |
| 43619 | 166.60 | 168.60 | 2.00 | 1 | 286 | 1 | 20 | 17 | 13 | 42 | 17 | 135 | 16 |
| 43620 | 168.60 | 170.60 | 2.00 | 0.7 | 126 | 1 | 23 | 19 | 8 | 42 | 5 | 185 | 21 |
| 43621 | 170.60 | 171.80 | 1.20 | 0.5 | 31 | 1 | 26 | 18 | 5 | 34 | 2 | 45 | 100 |
| 43622 | 171.80 | 173.80 | 2.00 | 0.5 | 58 | 1 | 27 | 19 | 6 | 37 | 1 | 40 | 40 |
| 43623 | 173.80 | 175.80 | 2.00 | 0.5 | 82 | 1 | 24 | 18 | 8 | 36 | 16 | 70 | 100 |
| 43624 | 175.80 | 177.80 | 2.00 | 2.5 | 273 | 2 | 29 | 21 | 17 | 43 | 20 | 110 | 100 |
| 43625 | 177.80 | 180.10 | 2.30 | 1.6 | 770 | 1 | 26 | 22 | 38 | 42 | 18 | 710 | 50 |
| 43626 | 180.10 | 180.50 | 0.40 | 0.7 | 1187 | 1 | 14 | 17 | 128 | 28 | 82 | 1645 | 3 |
| 43627 | 180.50 | 180.50 | 0.00 | 0.9 | 380 | 1 | 24 | 19 | 17 | 50 | 36 | 890 | 17 |
| 43628 | 181.90 | 184.20 | 2.30 | 0.6 | 107 | 1 | 18 | 23 | 8 | 41 | 15 | 100 | 18 |
| 43629 | 186.80 | 188.70 | 1.90 | 0.6 | 26 | 2 | 26 | 20 | 7 | 39 | 6 | 55 | 7 |

HOLE NUMBER: CL-91-03

GEOCHEM. SHEET

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| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|------------------------|
| S>= 0.00cm | | | | | | | | | | |
| 28.50 | 30.50 | 2.00 | 160.00 | ***** | 12 | 6.00 | 0 | 0.00 | 0 | |
| 30.50 | 34.50 | 4.00 | 140.00 | ***** | 18 | 4.50 | 0 | 0.00 | 0 | |
| 36.50 | 38.50 | 2.00 | 150.00 | ***** | 12 | 6.00 | 0 | 0.00 | 0 | |
| 40.50 | 42.50 | 2.00 | 95.00 | ***** | 14 | 7.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 44.50 | 46.50 | 2.00 | 110.00 | ***** | 20 | 10.00 | 0 | 0.00 | 0 | |
| 48.00 | 49.00 | 1.00 | 90.00 | ***** | 3 | 3.00 | 0 | 0.00 | 0 | |
| 49.00 | 51.00 | 2.00 | 140.00 | ***** | 14 | 7.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 51.00 | 53.00 | 2.00 | 160.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | FAULT DIP 1, BX. |
| 53.00 | 55.40 | 2.40 | 210.00 | ***** | 12 | 5.00 | 0 | 0.00 | 0 | FAULT DIP 1, BX. |
| 55.40 | 57.00 | 1.60 | 120.00 | ***** | 9 | 5.62 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 57.00 | 58.00 | 1.00 | 70.00 | ***** | 9 | 9.00 | 0 | 0.00 | 0 | FAULT DIP 1, SX STR 1 |
| 58.00 | 60.00 | 2.00 | 180.00 | ***** | 10 | 5.00 | 0 | 0.00 | 0 | SX STR 12 |
| 60.00 | 61.60 | 1.60 | 90.00 | ***** | 14 | 8.75 | 0 | 0.00 | 0 | SX STR 6 |
| 61.60 | 62.50 | 0.90 | 60.00 | ***** | 5 | 5.56 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 62.50 | 64.50 | 2.00 | 185.00 | ***** | 8 | 4.00 | 0 | 0.00 | 0 | FAULT DIP 1, SX STR 7 |
| 64.50 | 66.50 | 2.00 | 190.00 | ***** | 13 | 6.50 | 0 | 0.00 | 0 | FAULT DIP 1, SX STR 8 |
| 66.50 | 68.50 | 2.00 | 150.00 | ***** | 10 | 5.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 68.50 | 70.50 | 2.00 | 150.00 | ***** | 13 | 6.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 70.50 | 72.50 | 2.00 | 160.00 | ***** | 10 | 5.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 72.50 | 74.50 | 2.00 | 160.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 74.50 | 76.50 | 2.00 | 160.00 | ***** | 7 | 3.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 76.50 | 78.50 | 2.00 | 180.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 78.50 | 80.40 | 1.90 | 190.00 | ***** | 7 | 3.68 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 80.40 | 82.50 | 2.10 | 90.00 | ***** | 16 | 7.62 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 82.50 | 83.40 | 0.90 | 40.00 | ***** | 7 | 7.78 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 83.40 | 85.40 | 2.00 | 170.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 85.40 | 87.40 | 2.00 | 180.00 | ***** | 6 | 3.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 87.40 | 89.40 | 2.00 | 140.00 | ***** | 12 | 6.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 89.40 | 91.50 | 2.10 | 140.00 | ***** | 9 | 4.29 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 91.50 | 93.60 | 2.10 | 180.00 | ***** | 10 | 4.76 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 93.60 | 96.60 | 3.00 | 0.00 | 0.0 | 100 | 33.33 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 96.60 | 99.20 | 2.60 | 160.00 | ***** | 13 | 5.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 99.20 | 100.80 | 1.60 | 80.00 | ***** | 10 | 6.25 | 0 | 0.00 | 0 | FAULT DIP 1, SX STR 6 |
| 100.80 | 102.20 | 1.40 | 100.00 | ***** | 7 | 5.00 | 0 | 0.00 | 0 | FAULT DIP 1, SX STR 10 |
| 102.20 | 104.20 | 2.00 | 80.00 | ***** | 11 | 5.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 104.20 | 106.20 | 2.00 | 90.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 106.20 | 108.20 | 2.00 | 40.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 108.20 | 110.20 | 2.00 | 30.00 | ***** | 100 | 50.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 110.20 | 112.20 | 2.00 | 10.00 | 500.0 | 100 | 50.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 112.20 | 114.20 | 2.00 | 15.00 | 750.0 | 100 | 50.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 114.20 | 116.20 | 2.00 | 150.00 | ***** | 8 | 4.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 116.20 | 118.20 | 2.00 | 130.00 | ***** | 8 | 4.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 118.20 | 120.10 | 1.90 | 40.00 | ***** | 100 | 52.63 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 120.10 | 122.10 | 2.00 | 100.00 | ***** | 19 | 9.50 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-03

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|-----------------------|
| S>= 0.00cm | | | | | | | | | | |
| 124.10 | 126.10 | 2.00 | 110.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 127.00 | 129.10 | 2.10 | 110.00 | ***** | 19 | 9.05 | 0 | 0.00 | 0 | |
| 131.10 | 133.10 | 2.00 | 70.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 135.10 | 137.10 | 2.00 | 110.00 | ***** | 14 | 7.00 | 0 | 0.00 | 0 | |
| 137.10 | 139.10 | 2.00 | 110.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | |
| 139.10 | 141.10 | 2.00 | 110.00 | ***** | 21 | 10.50 | 0 | 0.00 | 0 | |
| 141.10 | 142.20 | 1.10 | 60.00 | ***** | 8 | 7.27 | 0 | 0.00 | 0 | SX STR 3 |
| 142.20 | 144.20 | 2.00 | 20.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | FAULT DIP 1, SX STR 1 |
| 144.20 | 146.20 | 2.00 | 10.00 | 500.0 | 50 | 25.00 | 0 | 0.00 | 0 | FAULT DIP 1, SX STR 1 |
| 146.20 | 148.20 | 2.00 | 0.00 | 0.0 | 50 | 25.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 148.20 | 150.00 | 1.80 | 0.00 | 0.0 | 50 | 27.78 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 150.00 | 152.00 | 2.00 | 30.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | |
| 152.00 | 154.00 | 2.00 | 60.00 | ***** | 25 | 12.50 | 0 | 0.00 | 0 | |
| 154.00 | 156.00 | 2.00 | 80.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | SX STR 1 |
| 156.00 | 158.00 | 2.00 | 140.00 | ***** | 8 | 4.00 | 0 | 0.00 | 0 | SX STR 2/40 |
| 158.90 | 160.90 | 2.00 | 80.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | SX STR 2 |
| 160.90 | 163.20 | 2.30 | 110.00 | ***** | 21 | 9.13 | 0 | 0.00 | 0 | |
| 163.20 | 166.00 | 2.80 | 0.00 | 0.0 | 100 | 35.71 | 0 | 0.00 | 0 | FAULT DIP 1, SX STR 3 |
| 166.00 | 168.00 | 2.00 | 80.00 | ***** | 20 | 10.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 168.00 | 169.50 | 1.50 | 30.00 | ***** | 100 | 66.67 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 169.50 | 171.50 | 2.00 | 40.00 | ***** | 28 | 14.00 | 0 | 0.00 | 0 | |
| 171.50 | 173.40 | 1.90 | 20.00 | ***** | 20 | 10.53 | 0 | 0.00 | 0 | |
| 173.40 | 175.40 | 2.00 | 70.00 | ***** | 40 | 20.00 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 175.40 | 177.80 | 2.40 | 120.00 | ***** | 17 | 7.08 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 177.80 | 178.80 | 1.00 | 40.00 | ***** | 12 | 12.00 | 0 | 0.00 | 0 | SX STR 3 |
| 178.80 | 179.80 | 1.00 | 50.00 | ***** | 10 | 10.00 | 0 | 0.00 | 0 | |
| 179.80 | 180.80 | 1.00 | 40.00 | ***** | 10 | 10.00 | 0 | 0.00 | 0 | SX STR 4 |
| 180.80 | 181.80 | 1.00 | 40.00 | ***** | 16 | 16.00 | 0 | 0.00 | 0 | SX STR 3 |
| 181.80 | 183.00 | 1.20 | 60.00 | ***** | 9 | 7.50 | 0 | 0.00 | 0 | SX STR 1 |
| 183.00 | 184.00 | 1.00 | 30.00 | ***** | 9 | 9.00 | 0 | 0.00 | 0 | SX STR 3 |
| 184.00 | 186.00 | 2.00 | 70.00 | ***** | 21 | 10.50 | 0 | 0.00 | 0 | SX STR 4 |
| 186.00 | 187.00 | 1.00 | 50.00 | ***** | 18 | 18.00 | 0 | 0.00 | 0 | SX STR 3 |
| 187.00 | 188.00 | 1.00 | 20.00 | ***** | 12 | 12.00 | 0 | 0.00 | 0 | |
| 188.00 | 189.00 | 1.00 | 70.00 | ***** | 8 | 8.00 | 0 | 0.00 | 0 | SX STR 2 |
| 189.00 | 190.00 | 1.00 | 10.00 | ***** | 10 | 10.00 | 0 | 0.00 | 0 | SX STR 1 |
| 190.00 | 190.90 | 0.90 | 30.00 | ***** | 12 | 13.33 | 0 | 0.00 | 0 | SX STR 3 |
| 190.90 | 193.00 | 2.10 | 50.00 | ***** | 14 | 6.67 | 0 | 0.00 | 0 | SX STR 3 |
| 193.00 | 195.00 | 2.00 | 60.00 | ***** | 25 | 12.50 | 0 | 0.00 | 0 | |
| 195.00 | 197.00 | 2.00 | 90.00 | ***** | 11 | 5.50 | 0 | 0.00 | 0 | |
| 197.00 | 199.00 | 2.00 | 100.00 | ***** | 21 | 10.50 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 199.00 | 200.40 | 1.40 | 20.00 | ***** | 18 | 12.86 | 0 | 0.00 | 0 | FAULT DIP 1 |
| 200.40 | 201.80 | 1.40 | 50.00 | ***** | 30 | 21.43 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-03

RQD ASSAY

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MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: CL-91-04

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: CLISBAKO
PROJECT NUMBER: 667
CLAIM NUMBER:
LOCATION: NORTH ZONE

PLOTTING COORDS GRID: UTM
NORTH: 41096.00N
EAST: 9637.00E
ELEV: 1313.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 202.70m
START DEPTH: 0.00m
FINAL DEPTH: 202.70m

COLLAR GRID AZIMUTH: 290° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 290° 0' 0"

DATE STARTED: August 18, 1991
DATE COMPLETED: August 19, 1991
DATE LOGGED: August 22, 1991

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
ROD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING LTD
CASING: 10" LEFT IN HOLE
CORE STORAGE: CAMP

PURPOSE:

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 64.90 | - | -46° 0' | ACID | OK | | - | - | - | - | - | |
| 163.30 | - | -48° 0' | ACID | OK | | - | - | - | - | - | |
| 202.70 | - | -48° 0' | ACID | OK | | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|--|-------------|--|---|--------------------|
| 0.00 TO 23.20 | «CSG/OB» | | | | | |
| 23.20 TO 25.90 | «FB LATITE» 25.3-25.8 | Pale grey. Strongly weathered and oxidized section of crystal ash tuff or flow banded latite. Very difficult to tell. The interval is criss-crossed by limonite veins (after py). Fine quartz stockworking also noted. This is strongest from 24.2-24.7m. «Breccia Vein» or narrow zone of fault breccia. Dark grey. Consists of yellow argillized wallrock clasts in a medium grey argillic matrix. Matrix supported. Upper Contact | 06 | «M-Arg,W-Sil» Pervasive argillization enhanced by near surface weathering. Difficult to get an accurate estimate of the degree of alteration. Quartz <'s and pyrite veins suggest that it is quite strong overall. «M-S-Arg,W-Sil» Breccia matrix only weakly silicified. | «Py 3%» as veins. These are completely oxidized to limonite. Vein orientations are random. Fine limonite veinlets abundant in bx. These are most probably after original pyrite. | Oxidized to 32.6m. |
| 25.90 TO 26.10 | «FAULT» | Narrow gouge zone. | | | | |
| 26.10 TO 26.70 | «TUFACEOUS SANDSTONE» 26.5-26.65 27.1-27.2 | Pale grey -> orange. Volcaniclastic sediment distinguished by the amount of well rounded and somewhat sorted quartz grains. These are the more weathered surfaces. Rounded feldspar clasts also present. «Fault» Broken - gougy zone. Amygoaloidal Clast A section containing well defined - quartz fitted pipe amydules. This interval is most likely an exotic clast of flow material in the volcaniclastic bed. | | «W-Sil,W-Arg» Silicified envelopes noted around some of the more permanent fractures. These reach a maximum of 2cm. | veinlets after pyrite. | |
| 26.70 TO 32.40 | «TUFACEOUS SANDSTONE» 31.7-32.4 | Grey-brown. Fine grained. A fairly homogeneous rock composed of fine sand sized crystals of qtz + feldspar. A rude banding - possibly depositional lamination is highlighted by the limonite staining. Banding @ 29.3m Rounded quartz grains can be seen with handlense. This suggests reworking - of tuffaceous material. «Fault» | 40 | Extremely fine veinlets of quartz(?) form a micro - stockwork. At 29.8m these form a web texture similar to that seen in the perlite. | None seen. None-strong Li staining. | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--------------|---|-------------|--|--|---------|
| | | Slightly brecciated at upper contact-becoming more dis aggregated downhole. Upper Contact | 40 | | | |
| 32.40 TO 36.00 | «MICRO STWK» | Yellow-grey. A moderate to strongly banded rock showing a variety of textures. These vary from perlite to fine lamination - indicating the rock may have been a fragmental. There are no frags preserved. Primary textures have been destroyed by argillic and quartz micro stockwork. | | «M-S Arg,W-M Sil» Pervasive clay alteration has destroyed most original textures so that host is not identifiable. A dense network of quartz micro veins per the interval. These veinlets have pyritic envelopes in distinct patches. | «Py 1-2%» as microscopic envelopes around quartz <'s. Disseminated crystals noted in groundmass. These are subhedral and reach 1-2mm. At 33.2m lens shaped zones of fine pyrite occur as a bleached veinlet. | |
| | 35.35-35.5 | Flow Banding Finely banded interval. Bands occur on a 1-5mm scale. Pale yellow grey lams appear to be clay rich. Darker grey to brown ones quartz rich. Laminations @ 35.4m In the middle of the interval the laminations are folded - soft sed? | 55 | | | |
| | 35.55-36.00 | Py Micro Stwk A weakly fragmental and strongly pyrite veined interval. Pyrite stringers form a network of micro veinlets that essentially create a pseudo breccia. This may be a mineralized (i.e. early) fault. «Fault» Contact @ 36.0m | 45 | «S Arg» Tuffaceous host is completely altered to soft yellow clay quartz stringer noted. | «Py 3-5%» as micro stockworking. Much of the pyrite is altered to the | |
| 36.00 TO 36.50 | «TUFF BX» | Green. Narrow interval of breccia. It consists of coarse, angular tuff clasts (up to 5cm) in a massive green clay matrix. The breccia appears to be primary ie depositional. Matrix supported. | | «I.X Arg» Bright green clay the matrix of the breccia. The green clay zones seem to form vein-like crosscutting features that is yellow clay altered tuff clasts. | «Py Tr» | |
| 36.50 TO 41.10 | «TUFF BX» | Grey-yellow. An odd breccia unit composed predominantly of block sized clasts of finely bedded crystal ash. The lamination in the clasts is randomly oriented. Maximum clast size is at least 40cm. The matrix, which makes up around 10% of the rock (i.e. frag supported) is a similar green clay to that seen above. Individual clasts are made up mostly of 2-10mm yellow clay altered ash beds. There are separated by narrow bands of dark material which appears to be more quartz rich. | | «I-Arg» Yellow clay alters frags-matrix is medium green clay. Matrix is slightly hematitic in this zone. | «Py Tr» | Talus? |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|-------------|---|-------------------------------------|--|
| | 38.1-38.35 40.0-40.1 40.5-40.7 | «Micro Stockwork/Breccia» Intensely microveined interval. Grey to pinkish quartz <'s from a web textured stockwork. This texture is identical to the micro stockwork in previous interval. Argillized wallrock forms rounded pseudo clasts. Not a true breccia. Textures similar to perlite. Possibly a perlite clasts. «Fault» «Fault» | 65 | «M-Sil;S-Arg» Strong replacement of host by yellow clay. Original textures obliterated. 39.5-39.8 «M-Sil» Pervasively silicified zone in the breccia. Quartz replaces green clay matrix. | Moderate Li staining over interval. | |
| 41.10 TO 51.30 | «TUFF BRECCIA» or Lahar | Pale green. Coarse grained. A coarse grained clast supported breccia of tuffaceous clasts. At least three types noted: -FB latite/rhyolite -Perlite -Crystal tuff + HB-Bi, porphyry. The clasts are blocky and angular and range in size from 2cm up to nearly 60cm. The matrix is a fine grained tuffaceous material. Poor sorting indicates that it most likely formed from slumping or mud flow. 50.7-50.9 «Fault» | | «M Ch,M-S Arg» Medium green colour caused by pervasive chloritization. No calcite noted. | None. | This type of coarse depositional breccia may be caused by slumping i.e talus or by mud flow. |
| 51.30 TO 69.30 | «BLACK BX» 53-53.1 57.9-58.4 62.1-62.4 | Very coarse grained depositional breccia. Clasts generally greater than lapilli size make up 80+% of rock. intervals of lapilli size clasts occur every so often. These are more matrix supported. The matrix to there intervals can be strongly hematitic. Same clast types as above interval. «Fault Gouge» «Lapilli Bx» Clasts 5-20mm, angular-matrix supported. «Lapilli Bx» Originally a hematitic matrix with angular, highly argillized clasts of tuff. This seems to have been overprinted by a fairly hard greenish matrix which | | «W-Cl;W-M Arg» M. hem in matrix. S. arg of tuff clasts. | None-trace. | |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-04

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--------------------------|--|-------------|--|---|---------|
| | | could be alteration or tuffaceous breccia matrix. i.e. brecciated. | | | | |
| | {66.1-69.2} | Interval contains clasts. Venular material has been in with late chlorite. Some veniles definately flattered. | | «W Cl» | | |
| 69.30 TO 75.30 | «HEMATITIC TUFF BRECCIA» | Maroon-grey. Lapilli breccia composed of angular clasts of argillized and unaltered oriented and very poorly sorted. The matrix (30-40%) consists of fine lithic fragments-sub lapilli sized-almost a milled rock texture. Much of the matrix is hematite stained to a purple brown colour. It is hard and possibly weakly silicified. | | «M-Hem,M-Cl,W-M Sil» | | |
| | {70.9-71.1} | | | «W Sil» of matrix. | | |
| | {71.8-72.1} | | | «W Sil» of matrix. | | |
| | {74.2-74.4} | «Fault» - Gouge zone. | | | | |
| | {75.1-75.3} | «Fault?» | | | | |
| 75.30 TO 97.50 | «HETEROLITHIC BRECCIA» | Maroon-green. Coarse grained. Similar to preceeding intervals. Unit consists of Block -> Lapilli sized clasts of chloritized bedded ash lapilli tuff, porphyry and perlite (lower down). The matrix is composed of hematite stained tuffaceous material mostly very fine. Breccia in clast supported. Fragments reach 20cm in size. | | «W-M Arg,W-S Sil,M-Cl» Lithic clasts are variably clay altered some completely replaced. The matrix is pervasively silicified and variably hematized. In places the rock is strongly silicified. Reaction rims seen around some clasts - mainly strong bleaching. | «Py Tr» Mostly as disseminations in some clasts - particularly the most argillicly altered. | |
| | {83.65-83.7} | «Fault» | | {70.9-72.1} «M Sil» | | |
| | {91.9-97.5} | Breccia frags composed predominantly of perlite. «Perlite Bx» | | {75.3-80.1} «W Sil» | | |
| | | | | {80.1-80.5} «W.M Sil» | | |
| | | | | {83.7-83.9} «S Sil» Pervasive silicification of matrix. | | |
| | | | | {83.9-93.4} «M.S Sil» A gradual increase in the intensity of silicification of the matrix. Quartz injected between clasts. Vuggy veins noted throughout interval. Incipient | | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|------------------------|---|----------------|---|---|--|
| | | | | brecciation present @ 94.7m. | | |
| 97.50 TO 132.70 | «PERLITE» | <p>Grey. Fine grained. Classic example of perlite. This unit is consistent from top to bottom of interval. Typified by web texture of perlitic devitrification cracks. There are sup on primary flow banding. Spherulitic sections noted. The spherulites consist of radiating feldspar aggregates. These appear as white spots without magnification.</p> <p>Flow Banding @ 116.5m</p> <p>‡103.4-104.4‡ «Spherulitic»</p> <p>‡107.1-108.1‡ «Spherulitic»</p> | 60 | <p>«W-M Cl,W-M Sil,W-Cal»</p> <p>Secondary quartz has been introduced along cracks. This causes a bleaching effect. In places silicification is moderate to strong. No significant argillic alteration. The groundmass contains calcite-as a pervasive alteration. Calcite stringers up to 5mm noted. These are however sparse.</p> | «Py Tr» as disseminated crystals. | |
| 132.70 TO 146.50 | «FLOW BANDED RHYOLITE» | <p>Grey-pink. Fine grained. Finely banded and laminated rhyolitic glass. It is fine grained and moderately siliceous. Spotty devitrification textures suggest a major vitric component. Bedding varies from ~10cm to <1cm.</p> <p>Bedding @ 136.9 @ 145.1 @</p> | 33 45 45 | <p>«M-Cl,W He,W-Cal»</p> <p>Micro fractures throughout unit contains dark green chlorite and rare calcite. Hematite becomes more intense downhole. It mostly causes reddish staining along lamination planes. New base of interval Hematite <'s become common. These develop stockworks and jigsaw bx's over narrow intervals.</p> | <p>«Py Tr-1%» Mostly occurs in the centre of the chloritic <'s. Rare drusy qtz <'s also contain platy marcosite (Tr).</p> | No sed textures seen. => Air fall tuff. |
| | ‡141-141.3‡ | <p>«Jigsaw Breccia»</p> <p>Brecciated interval in ash tuff package. Looks like hydrobreccia texture i.e. rip apart textures. Clasts are most angular and slightly rotated from their original orientation.</p> | | «W-M He;W-Cl» | Py Tr. | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|---|-------------|---|--|--|
| | †142-142.6† †143.1-143.35† †145.1-145.5† | «Jigsaw Breccia» He veining between frags. «He Stwk» «Breccia» | | | | |
| 146.50 TO 147.30 | «HEMATITIC BRECCIA» | Red/grey. Hydrobrecciated ash tuffs consisting of angular, variably argillized ash tuff clasts (5mm to 60mm) in a matrix composed of hematite and clay. Some of the larger clasts are perviously silicified and have a bleached reaction rims. Bedding @ 147.9m | 45 | «S-He,W-M Sil,W-Arg» Hematization crosses clast boundaries and preferentially alters some laminae. He also makes up the bulk of the breccia matrix (probably a mixture of clay & He). | «Py Tr» | Clasts fit together. ie hydrothermal not dep bx. |
| 147.30 TO 150.00 | «DEVIT Banded RHYOLITE GLASS» | Green-grey. Flow banded rhyolite showing good perlitic textures as the above unit. grey bands make this unit different from the previous ints. These are more siliceous and tend to contain fine pyrite. Most are <5mm wide. Bedding @ 149.3m | 45 | «W-Arg,W-Sil» Silicification follows perlitic cracks through the groundmass. In places it to form patches of strong silicification. These rarely exceed a few cm's. †49.9-50† «S-Sil» | «Py Tr» | Perlitic texture indicates that this was a very glassy unit-perhaps a ash. |
| 150.00 TO 155.10 | «HEMATITIC BRECCIA» †151.6-151.8† †155.4-155.8† | Maroon-green. Similar texture to the previous hematitic breccia. In this interval the clasts display a distinct perlitic texture. May be clasts of the above glassy flow. The clasts are mostly angular and range in size from 2mm to over 15cm. «Gouge» FB rhyolite Bx Green-grey. Fine grained. A dense, clasts supported breccia composed of finely laminated ash tuff material. Fragments are very poorly sorted. Sizes range from <1mm to >5cm. The matrix consists of micro breccia of the same material. This is healed by hematitic material and silica. Breccia textures could be hydrothermal or tectonic in nature. | | «M-S Arg,M-He» Clasts are moderately to intensely argillized. Matrix is stained orange to black by strong hematitic alteration. Narrow, vuggy quartz <'s present in places. These are sparse. Massive green (olive green) clay in fault zone. «M-Sil,W-He» Pervasive silicification of ash tuff clasts and matrix. Vuggy quartz veinlets and in the breccia matrix noted. In places the breccia matrix is cemented by bluish-opaline? silica. | «Py Tr» «Py 1%» as disseminations mostly in the siliceous matrix. | Micro faults off set bedding in the ash tuff. These be post lithification. |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|----------------------------|---|-------------|--|---|---------|
| | ↓153.2-153.4↓ | | | «M-Sil» Pervasive silicification of the hematitic breccia matrix. Interval cut by grey quartz veinlet. | | |
| 155.10 TO 163.60 | «BRECCIA» | Green, pink, grey. Fine to coarse grained. A mixed interval of various types of breccia. The dominant species is a perlite breccia, consisting of green, rounded to subangular clasts in a pale green, aphanitic matrix. This breccia varies from clast to matrix supported. Maximum particle size is up to several tens of centimetres. Clasts appear to be randomly oriented and do not fit adjacent ones. Hematitic breccias make up most of the remainder of the interval. Bedded ash tuff clasts also fairly abundant. | | «W-M Sil,W Cl,W-M Arg» Patchy silicification of the breccia matrix noted. This occurs with vuggy quartz <'s. The clasts are weakly chloritized to a green colour. Pink matrix replacement could be KF or hematite stained silica. | «Py Tr» Very sparse. | |
| | ↓156.1-156.4↓ | Flow banded glassy rhyolite. Same material as the breccia unit at 154.5m. It is very fine grained, almost parcellaneous in texture with abundant hematite and chlorite heated fractures. Where very intense the fractures form incipient breccia ie not rotated. | | «W-He,W-Cl,W-Sil» Pervasive alteration and as fracture fillings. | | |
| | ↓156.9-157.25↓ | FB Rhyolite. Pink hematite stained beds up to a 5cm wide separated by medium green beds with perlitic texture. Bedding @ 157.2m | 72 | «W-He,W-Cl» | «Py Tr» on <'s. | |
| | ↓162.9-163.4↓ | «Laminated Ash Tuff» Green. Bedding | 60 | ↓157.25-158.2↓ «M-S Sil» ↓158.3-159.4↓ «M Sil» Pervasive silicification of the breccia matrix. Glassy, drusy quartz veins noted. ↓163.4-163.6↓ «M Sil» Pervasive silicification of breccia matrix. | «Py Tr» | |
| 163.60 TO 182.90 | «HEMATITIC BRECCIA-LAH AR» | Red-grey. An interval of intensely brecciated rhyolite. rock is mostly clast supported. Frags are angular, randomly oriented and range in size from ~1mm to almost 75cm. The matrix is strongly hematitic giving the rock a reddish . It consists of fine micro breccia in a hematitic cement. This texture looks milled possibly indicating a tectonic origin. Contact @ 163.5m | 10 | «W-M Arg,M-He,W-Cl,W-Ca» Clasts are weakly argillized. Chlorite micro veins noted throughout interval. These tend to decrease downhole. Calcite occurs within the clasts as a pervasive alteration or cement. The intensity of calcite is quite variable throughout interval. ↓169.3-169.6↓ «M-Sil» | «Py Tr-1%» Mostly as disseminations in argillized clasts. | Lahar?? |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-04

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---------------------|---|-------------|---|---|--|
| | ‡169.6-169.75‡ | «Breccia» | | ‡169.6-169.75‡ «S-Sil» | | Stratigraphic contact between He Bx and tuffaceous seds. |
| 182.90 TO 190.60 | «FB RHYOLITE» | Grey->maroon. Well banded interval of fine grain to aphanitic rhyolite. Lighter bands are feldspathic (devitrified). Banding varies from mm scale to 4cm. Darker beds are hematitic and glassy. Flow folds and breccia textures noted. Bedding @ 186m (15-20deg) @ 189.8m | 18 45 | «M-S Cl,W-Ca,W-He» Sediments are moderately to strongly veined by chlorite stringers. These form a stockwork that increases in intensity downhole. The chlorite stringers have narrow chloritic envelopes. Calcite is wide spread but weak in this interval. It mostly occurs in the matrix of the pale coloured beds and as rare <'s. | «Py Tr» | |
| | ‡187.1-187.8‡ | «Breccia» Crackle breccia in the flow banded rhyolites. Cracks between frags are healed by chlorite and quartz. Clasts not significantly rotated. | | «M-S Sil,S-Cl» | «Py 1%» in silicified breccia matrix - most occurs between 187.1m and 187.2m. | |
| | ‡188.9-189.1‡ | | | «S-I Sil» Silica healed and replaced breccia zone. This interval contains a vein of bladed - drusy quartz. ‡188.9-189‡ «Bx Vein» | «Py 1-3%» Cubic crystals and platy marcossite in the vein. | |
| 190.60 TO 195.90 | «HEMATITIC BRECCIA» | Pink to green. Similar to the previous breccia. This unit generally grades down into either very coarse grained breccia or brecciated rock. | | «M-S He,M-Arg,W-Cl» Clasts are strongly to moderately argillized. Matrix is hematitic and variably silicified in places. | | |
| | ‡192-192.2‡ | «Fault» | 20 | Clay Gouge. ‡191.7-191.85‡ «S-Sil» ‡194.3-194.4‡ «S-Sil» | «Py 5%» in quartz stringers. | |
| | | «Breccia Vein» | 40 | ‡194.5-194.65‡ «S-Sil» | «Py 3-5%» Fine grained, brown pyrite in crosscutting quartz breccia vein. Coarser disseminated pyrite occurs as discrete crystals around vein margin. | |
| | ‡194.65-194.75‡ | «Fault» | 40 | | | |
| | ‡194.2-195.9‡ | Change in colour of breccia matrix from red above fault to dark grey below. | | «M-S Cl,M-Arg» Much less hematitic interval. The breccia matrix is dark grey to black rather than the typical colour | | |

HOLE NUMBER: CL-91-04

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---------------|--|-------------|---|---------------------------|---------|
| | | | | seen above 194.2m. Chloritization increases down to bottom of interval. | | |
| 195.90 TO 202.70 | «DEVIT RHYO» | Green. Fine to aphanitic. Massive - fine to aphanitic rock. Only primary textures seen between 199.8m and 200.1m. Bedding @ 200m Odd looking rounded textures are present throughout unit below 200.1m. These are caused by of bleaching and chloritization outwards from chlorite <'s. (See sketch right). | 45 | «M-S Cl,W-He,W-Sil» Moderate chloritization gives rock a strong green colour. The chlorite seems to be overprinting and earlier hematite alteration (pink). This pervades the fine grained groundmass of the rock. Quartz <'s occur throughout interval. These cause weak silicification up to 1cm from vein margin. | «Py Tr-1%» in quartz <'s. | |
| | ‡197.3-197.4‡ | «Fault» | | | | |
| | ‡201.6-201.9‡ | «Rubbly Core» | | | | |
| | | END OF HOLE. | | | | |

HOLE NUMBER: CL-91-04

DRILL HOLE RECORD

LOGGED BY: D. HEBERLEIN

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HOLE NUMBER: CL-91-04

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 43630 | 23.20 | 25.30 | 2.10 | 0.1 | 638 | 1 | 21 | 24 | 8 | 86 | 3 | 65 | 18 | |
| 43631 | 25.30 | 25.90 | 0.60 | 0.1 | 412 | 1 | 15 | 27 | 9 | 43 | 2 | 45 | 9 | |
| 43632 | 25.90 | 27.60 | 1.70 | 0.1 | 566 | 2 | 21 | 21 | 11 | 40 | 2 | 80 | 18 | |
| 43633 | 27.60 | 29.60 | 2.00 | 0.1 | 441 | 1 | 31 | 21 | 11 | 40 | 4 | 65 | 18 | |
| 43634 | 29.60 | 31.80 | 2.20 | 0.1 | 1039 | 1 | 34 | 18 | 40 | 98 | 61 | 40 | 25 | |
| 43635 | 31.80 | 32.60 | 0.80 | 6.4 | 1098 | 1 | 18 | 14 | 81 | 69 | 478 | 110 | 19 | |
| 43636 | 32.60 | 34.60 | 2.00 | 2.8 | 2241 | 1 | 23 | 14 | 76 | 26 | 198 | 75 | 25 | |
| 43637 | 34.60 | 36.00 | 1.40 | 2 | 843 | 1 | 26 | 19 | 35 | 29 | 18 | 90 | 17 | |
| 43638 | 36.00 | 36.50 | 0.50 | 1.5 | 489 | 1 | 35 | 18 | 24 | 46 | 24 | 60 | 5 | |
| 43639 | 36.50 | 38.10 | 1.60 | 1.3 | 68 | 1 | 33 | 22 | 11 | 37 | 1 | 125 | 17 | |
| 43640 | 38.10 | 38.40 | 0.30 | 0.7 | 355 | 1 | 36 | 24 | 12 | 46 | 2 | 350 | 4 | |
| 43641 | 38.40 | 39.30 | 0.90 | 0.4 | 343 | 2 | 23 | 25 | 13 | 47 | 3 | 160 | 14 | |
| 43642 | 39.30 | 39.80 | 0.50 | 0.1 | 610 | 1 | 35 | 20 | 14 | 57 | 11 | 185 | 6 | |
| 43643 | 39.80 | 41.10 | 1.30 | 0.5 | 209 | 2 | 33 | 21 | 7 | 44 | 2 | 240 | 14 | |
| 43644 | 69.30 | 71.30 | 2.00 | 0.1 | 28 | 1 | 21 | 22 | 5 | 57 | 4 | 75 | 24 | |
| 43645 | 71.30 | 74.20 | 2.90 | 0.4 | 45 | 2 | 19 | 20 | 7 | 55 | 9 | 50 | 20 | |
| 43646 | 74.20 | 75.30 | 1.10 | 0.3 | 19 | 2 | 57 | 23 | 6 | 74 | 2 | 55 | 18 | |
| 43647 | 75.30 | 77.30 | 2.00 | 0.1 | 19 | 1 | 20 | 18 | 4 | 53 | 3 | 35 | 41 | |
| 43648 | 77.30 | 80.10 | 2.80 | 0.1 | 97 | 1 | 23 | 17 | 7 | 46 | 8 | 25 | 23 | |
| 43649 | 80.10 | 81.40 | 1.30 | 0.6 | 248 | 1 | 19 | 11 | 11 | 33 | 27 | 45 | 12 | |
| 43650 | 81.40 | 83.90 | 2.50 | 0.7 | 182 | 1 | 31 | 15 | 7 | 36 | 119 | 30 | 29 | |
| 43651 | 83.90 | 85.90 | 2.00 | 0.2 | 122 | 1 | 27 | 18 | 7 | 45 | 56 | 70 | 12 | |
| 43652 | 85.90 | 87.90 | 2.00 | 0.5 | 118 | 1 | 27 | 19 | 8 | 42 | 37 | 100 | 24 | |
| 43653 | 91.90 | 93.40 | 1.50 | 0.2 | 100 | 1 | 29 | 16 | 6 | 47 | 60 | 70 | 13 | |
| 43654 | 93.40 | 94.10 | 0.70 | 0.2 | 20 | 1 | 17 | 21 | 7 | 46 | 3 | 45 | 3 | |
| 43655 | 94.10 | 94.80 | 0.70 | 0.3 | 86 | 2 | 23 | 16 | 6 | 42 | 78 | 55 | 5 | |
| 43656 | 154.50 | 154.80 | 0.30 | 0.5 | 93 | 1 | 28 | 19 | 9 | 39 | 17 | 70 | 2 | |
| 43657 | 154.80 | 155.10 | 0.30 | 0.6 | 193 | 2 | 36 | 22 | 15 | 49 | 24 | 60 | 2 | |
| 43658 | 155.10 | 157.30 | 2.20 | 0.4 | 57 | 2 | 35 | 20 | 9 | 46 | 6 | 25 | 25 | |
| 43659 | 157.30 | 158.20 | 0.90 | 0.5 | 25 | 2 | 35 | 17 | 7 | 34 | 19 | 115 | 11 | |
| 43660 | 178.90 | 180.90 | 2.00 | 0.3 | 43 | 1 | 23 | 19 | 8 | 44 | 3 | 20 | 9 | |
| 43661 | 187.80 | 188.90 | 1.10 | 1.3 | 128 | 1 | 26 | 17 | 8 | 33 | 62 | 145 | 10 | |
| 43662 | 188.90 | 189.30 | 0.40 | 0.4 | 121 | 1 | 21 | 17 | 6 | 37 | 117 | 45 | 4 | |
| 43663 | 189.30 | 190.80 | 1.50 | 0.7 | 83 | 2 | 24 | 16 | 7 | 33 | 22 | 55 | 18 | |
| 43664 | 194.30 | 194.70 | 0.40 | 2.5 | 1152 | 1 | 28 | 18 | 40 | 39 | 138 | 985 | 1 | |
| 43665 | 194.70 | 195.40 | 0.70 | 1.7 | 275 | 2 | 21 | 18 | 13 | 35 | 59 | 265 | 15 | |
| 43666 | 195.40 | 196.00 | 0.60 | 2 | 722 | 1 | 19 | 21 | 27 | 29 | 100 | 2640 | 6 | |

HOLE NUMBER: CL-91-04

ASSAY SHEET

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| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | F1 #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43630 | 23.20 | 25.30 | 2.10 | 0.1 | 638 | 1 | 21 | 24 | 8 | 86 | 3 | 65 | 18 |
| 43631 | 25.30 | 25.90 | 0.60 | 0.1 | 412 | 1 | 15 | 27 | 9 | 43 | 2 | 45 | 9 |
| 43632 | 25.90 | 27.60 | 1.70 | 0.1 | 566 | 2 | 21 | 21 | 11 | 40 | 2 | 80 | 18 |
| 43633 | 27.60 | 29.60 | 2.00 | 0.1 | 441 | 1 | 31 | 21 | 11 | 40 | 4 | 65 | 18 |
| 43634 | 29.60 | 31.80 | 2.20 | 0.1 | 1039 | 1 | 34 | 18 | 40 | 98 | 61 | 40 | 25 |
| 43635 | 31.80 | 32.60 | 0.80 | 6.4 | 1098 | 1 | 18 | 14 | 81 | 69 | 478 | 110 | 19 |
| 43636 | 32.60 | 34.60 | 2.00 | 2.8 | 2241 | 1 | 23 | 14 | 76 | 26 | 198 | 75 | 25 |
| 43637 | 34.60 | 36.00 | 1.40 | 2 | 843 | 1 | 26 | 19 | 35 | 29 | 18 | 90 | 17 |
| 43638 | 36.00 | 36.50 | 0.50 | 1.5 | 489 | 1 | 35 | 18 | 24 | 46 | 24 | 60 | 5 |
| 43639 | 36.50 | 38.10 | 1.60 | 1.3 | 68 | 1 | 33 | 22 | 11 | 37 | 1 | 125 | 17 |
| 43640 | 38.10 | 38.40 | 0.30 | 0.7 | 355 | 1 | 36 | 24 | 12 | 46 | 2 | 350 | 4 |
| 43641 | 38.40 | 39.30 | 0.90 | 0.4 | 343 | 2 | 23 | 25 | 13 | 47 | 3 | 160 | 14 |
| 43642 | 39.30 | 39.80 | 0.50 | 0.1 | 610 | 1 | 35 | 20 | 14 | 57 | 11 | 185 | 6 |
| 43643 | 39.80 | 41.10 | 1.30 | 0.5 | 209 | 2 | 33 | 21 | 7 | 44 | 2 | 240 | 14 |
| 43644 | 69.30 | 71.30 | 2.00 | 0.1 | 28 | 1 | 21 | 22 | 5 | 57 | 4 | 75 | 24 |
| 43645 | 71.30 | 74.20 | 2.90 | 0.4 | 45 | 2 | 19 | 20 | 7 | 55 | 9 | 50 | 20 |
| 43646 | 74.20 | 75.30 | 1.10 | 0.3 | 19 | 2 | 57 | 23 | 6 | 74 | 2 | 55 | 18 |
| 43647 | 75.30 | 77.30 | 2.00 | 0.1 | 19 | 1 | 20 | 18 | 4 | 53 | 3 | 35 | 41 |
| 43648 | 77.30 | 80.10 | 2.80 | 0.1 | 97 | 1 | 23 | 17 | 7 | 46 | 8 | 25 | 23 |
| 43649 | 80.10 | 81.40 | 1.30 | 0.6 | 248 | 1 | 19 | 11 | 11 | 33 | 27 | 45 | 12 |
| 43650 | 81.40 | 83.90 | 2.50 | 0.7 | 182 | 1 | 31 | 15 | 7 | 36 | 119 | 30 | 29 |
| 43651 | 83.90 | 85.90 | 2.00 | 0.2 | 122 | 1 | 27 | 18 | 7 | 45 | 56 | 70 | 12 |
| 43652 | 85.90 | 87.90 | 2.00 | 0.5 | 118 | 1 | 27 | 19 | 8 | 42 | 37 | 100 | 24 |
| 43653 | 91.90 | 93.40 | 1.50 | 0.2 | 100 | 1 | 29 | 16 | 6 | 47 | 60 | 70 | 13 |
| 43654 | 93.40 | 94.10 | 0.70 | 0.2 | 20 | 1 | 17 | 21 | 7 | 46 | 3 | 45 | 3 |
| 43655 | 94.10 | 94.80 | 0.70 | 0.3 | 86 | 2 | 23 | 16 | 6 | 42 | 78 | 55 | 5 |
| 43656 | 154.50 | 154.80 | 0.30 | 0.5 | 93 | 1 | 28 | 19 | 9 | 39 | 17 | 70 | 2 |
| 43657 | 154.80 | 155.10 | 0.30 | 0.6 | 193 | 2 | 36 | 22 | 15 | 49 | 24 | 60 | 2 |
| 43658 | 155.10 | 157.30 | 2.20 | 0.4 | 57 | 2 | 35 | 20 | 9 | 46 | 6 | 25 | 25 |
| 43659 | 157.30 | 158.20 | 0.90 | 0.5 | 25 | 2 | 35 | 17 | 7 | 34 | 19 | 115 | 11 |
| 43660 | 178.90 | 180.90 | 2.00 | 0.3 | 43 | 1 | 23 | 19 | 8 | 44 | 3 | 20 | 9 |
| 43661 | 187.80 | 188.90 | 1.10 | 1.3 | 128 | 1 | 26 | 17 | 8 | 33 | 62 | 145 | 10 |
| 43662 | 188.90 | 189.30 | 0.40 | 0.4 | 121 | 1 | 21 | 17 | 6 | 37 | 117 | 45 | 4 |
| 43663 | 189.30 | 190.80 | 1.50 | 0.7 | 83 | 2 | 24 | 16 | 7 | 33 | 22 | 55 | 18 |
| 43664 | 194.30 | 194.70 | 0.40 | 2.5 | 1152 | 1 | 28 | 18 | 40 | 39 | 138 | 985 | 1 |
| 43665 | 194.70 | 195.40 | 0.70 | 1.7 | 275 | 2 | 21 | 18 | 13 | 35 | 59 | 265 | 15 |
| 43666 | 195.40 | 196.00 | 0.60 | 2 | 722 | 1 | 19 | 21 | 27 | 29 | 100 | 2640 | 6 |

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|---------------|
| S>= 0.00cm | | | | | | | | | | |
| 31.10 | 33.80 | 2.70 | 10.00 | 370.4 | 100 | 37.04 | 0 | 0.00 | 0 | |
| 33.80 | 35.80 | 2.00 | 10.00 | 500.0 | 50 | 25.00 | 1 | 0.50 | 0 | FAULT DIP 1 |
| 35.80 | 37.00 | 1.20 | 20.00 | ***** | 50 | 41.67 | 5 | 4.17 | 0 | |
| 37.00 | 38.00 | 1.00 | 10.00 | ***** | 16 | 16.00 | 0 | 0.00 | 0 | CaCO |
| 38.00 | 40.00 | 2.00 | 40.00 | ***** | 35 | 17.50 | 0 | 0.00 | 0 | SX STR. DIP 1 |
| 40.00 | 41.50 | 1.50 | 40.00 | ***** | 20 | 13.33 | 2 | 1.33 | 0 | |
| 41.50 | 43.00 | 1.50 | 20.00 | ***** | 23 | 15.33 | 3 | 2.00 | 0 | |
| 43.00 | 45.20 | 2.20 | 20.00 | 909.1 | 42 | 19.09 | 3 | 1.36 | 0 | |
| 45.20 | 47.20 | 2.00 | 10.00 | 500.0 | 60 | 30.00 | 40 | 20.00 | 0 | |
| 47.20 | 49.80 | 2.60 | 40.00 | ***** | 100 | 38.46 | 0 | 0.00 | 0 | CaCO |
| 49.80 | 51.70 | 1.90 | 10.00 | 526.3 | 50 | 26.32 | 5 | 2.63 | 0 | |
| 51.70 | 53.70 | 2.00 | 10.00 | 500.0 | 35 | 17.50 | 1 | 0.50 | 0 | |
| 56.50 | 58.50 | 2.00 | 0.00 | 0.0 | 33 | 16.50 | 2 | 1.00 | 0 | |
| 60.50 | 62.50 | 2.00 | 20.00 | ***** | 25 | 12.50 | 3 | 1.50 | 0 | |
| 64.50 | 66.50 | 2.00 | 20.00 | ***** | 31 | 15.50 | 1 | 0.50 | 0 | |
| 68.50 | 70.50 | 2.00 | 30.00 | ***** | 50 | 25.00 | 1 | 0.50 | 0 | |
| 72.50 | 74.60 | 2.10 | 70.00 | ***** | 17 | 8.10 | 4 | 1.90 | 0 | |
| 78.70 | 80.70 | 2.00 | 50.00 | ***** | 19 | 9.50 | 1 | 0.50 | 0 | |
| 82.70 | 84.70 | 2.00 | 100.00 | ***** | 14 | 7.00 | 2 | 1.00 | 0 | |
| 88.80 | 90.70 | 1.90 | 20.00 | ***** | 27 | 14.21 | 0 | 0.00 | 0 | |
| 96.50 | 98.50 | 2.00 | 50.00 | ***** | 21 | 10.50 | 0 | 0.00 | 0 | |
| 101.00 | 103.00 | 2.00 | 30.00 | ***** | 42 | 21.00 | 1 | 0.50 | 0 | |
| 105.00 | 107.00 | 2.00 | 50.00 | ***** | 40 | 20.00 | 0 | 0.00 | 0 | |
| 109.00 | 111.00 | 2.00 | 70.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | |
| 115.20 | 116.20 | 1.00 | 50.00 | ***** | 7 | 7.00 | 1 | 1.00 | 0 | |
| 120.00 | 122.00 | 2.00 | 50.00 | ***** | 28 | 14.00 | 0 | 0.00 | 0 | |
| 122.00 | 124.00 | 2.00 | 70.00 | ***** | 19 | 9.50 | 0 | 0.00 | 0 | |
| 124.00 | 126.00 | 2.00 | 0.00 | 0.0 | 0 | 0.00 | 0 | 0.00 | 0 | |
| 137.30 | 139.70 | 2.40 | 50.00 | ***** | 33 | 13.75 | 1 | 0.42 | 0 | |
| 139.70 | 141.80 | 2.10 | 60.00 | ***** | 30 | 14.29 | 0 | 0.00 | 0 | |
| 141.80 | 143.80 | 2.00 | 60.00 | ***** | 20 | 10.00 | 1 | 0.50 | 0 | |
| 143.80 | 145.90 | 2.10 | 50.00 | ***** | 35 | 16.67 | 0 | 0.00 | 0 | BRECCIA |
| 148.00 | 150.10 | 2.10 | 0.00 | 0.0 | 0 | 0.00 | 0 | 0.00 | 0 | |
| 149.40 | 151.40 | 2.00 | 80.00 | ***** | 16 | 8.00 | 1 | 0.50 | 0 | |
| 151.40 | 152.00 | 0.60 | 10.00 | ***** | 6 | 10.00 | 0 | 0.00 | 0 | CaCO |
| 152.00 | 154.00 | 2.00 | 30.00 | ***** | 40 | 20.00 | 2 | 1.00 | 0 | |
| 154.00 | 156.00 | 2.00 | 70.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | |
| 160.00 | 162.00 | 2.00 | 100.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | |
| 169.30 | 171.30 | 2.00 | 90.00 | ***** | 14 | 7.00 | 2 | 1.00 | 0 | |
| 171.30 | 173.30 | 2.00 | 110.00 | ***** | 12 | 6.00 | 1 | 0.50 | 0 | |
| 173.30 | 175.10 | 1.80 | 60.00 | ***** | 19 | 10.56 | 1 | 0.56 | 0 | |
| 175.10 | 177.10 | 2.00 | 180.00 | ***** | 7 | 3.50 | 1 | 0.50 | 0 | |
| 179.00 | 181.00 | 2.00 | 120.00 | ***** | 12 | 6.00 | 0 | 0.00 | 0 | |

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

HOLE NUMBER: CL-91-05

PROJECT NAME: CLISBAKO
PROJECT NUMBER: 667
CLAIM NUMBER:
LOCATION: NORTH ZONE

PLOTTING COORDS GRID: UTM
NORTH: 41035.00N
EAST: 9463.00E
ELEV: 1321.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0N
EAST: 0+ 0E
ELEV: 1321.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 177.10m
START DEPTH: 0.00m
FINAL DEPTH: 177.10m

COLLAR GRID AZIMUTH: 290° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 290° 0' 0"

DATE STARTED: August 19, 1991
DATE COMPLETED: August 20, 1991
DATE LOGGED: August 23, 1991

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NO

CONTRACTOR: FRONTIER DRILLING LTD.
CASING: 10' LEFT IN HOLE
CORE STORAGE: CAMP

PURPOSE:

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 95.40 | - | -47° 0' | ACID | OK | | - | - | - | - | - | |
| 177.10 | - | -48° 0' | ACID | OK | | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---------------------------|--|-------------|--|---|---|
| 0.00 TO 48.50 | «CASING» | | | | | 2 m alternate sampling in this hole |
| 48.50 TO 51.00 | «OXIDIZED FQXT» | Yellow-brown, m.g. Limonite stained oxidized zone of feldspar quartz crystal tuff. Qtz eyes rounded 2-6 mm 10% Feldspar plag laths 1-4 mm 30% in fine-grained matrix. | | «M.SIL, S.LIM, M ARG» | | |
| 51.00 TO 69.00 | «FQXT» | Yellow-grey, m.g. Moderate to strongly argillized FQXT with irregular patches of strong grey silicification. Rock has been strongly leached leaving open vugs at feldspar sites. Leaching was accompanied by strong argillization and then overprinted by strong silicification. | | «S-I ARG, M-S SIL» Patchy silicification of previously argillized FQXT. | «Tr py» disseminated in wall rock and replacing phenos. | |
| | {54.7-57.6} «Sil.Zone» | Intense silicification zone of leached vuggy FQXT. Vugs appear to be the result of acid leaching of phenocrysts and crude bedding laminations. 4 cm vugs are lined by quartz and bladed marcasite. Bedding @ | 45 | «I SIL» overprinting Strong argillization. | «I% MC» as bladed aggregates in 20% of vugs. | Strong acid leached and "vuggy" below silicified zone. Feldspars and lapilli are leached to form open vugs or "sponge rock". Vugginess continues down to 95.4 m. |
| | {57.6-58.1} «Fault?» | Yellow grey. Intensely argillized gougy zone, possible fault zone. | | «I ARG» gougy. | | |
| 69.00 TO 70.60 | «FAULT?» | Yellow. Intensely argillized gougy zone, possible fault zone. | | «I ARG» gougy. | | |
| 70.60 TO 76.00 | «FQXT» | Yellow grey. Patchy strong silicification, extensively leached, with remnant islands of strong argillization. Locally exceptionally vuggy. | | «S SIL, S ARG» Pervasive silicification after strong argillization. | «Tr MC» 20% of vugs carry bladed marcasite. | |
| 76.00 TO 76.60 | «FAULT» | Intensely argillized gougy zone, with an apparent shear fabric @ | 20 | «I ARG» | | |
| 76.60 TO 96.80 | «FQXT» | Yellow-grey, m.g. Patchy silicification becomes more pervasive downsection. Vugginess more or less constant, although marcasite appears to increase slightly downsection. | | «S SIL, S ARG» Strong pervasive silicification but still patchy. Less remnant argillization. «I SIL» | «Tr MC» occurring as bladed aggregates in open quartz lined vugs. | |
| | {95.3-95.7} | | | | | |

HOLE NUMBER: CL-91-05

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|----------------------------------|--|-------------|---|--|---|
| 96.80 TO 98.20 | «OXIDIZED FAULT» | Yellow-brown. Zone of strong limonitic staining, due to faulting. Minimal gouge. 5 mm barren quartz vein form lower contact @ | 45 | «S LIM» «M SIL, M ARG» | Oxidized to limonite. | |
| 98.20 TO 116.80 | «FQXT» | Pale grey. Significantly less leached, less vuggy FQXT. Feldspars still present although replaced by clay. Quartz phenos getting larger, up to 1 cm, angular, may represent feldspar replacement? Silicification still patchy. | | «M SIL, M ARG» Mod. argillization overprinted by moderate sil, minor patches of strong silicification. | «Tr py-MC» in rare vugs. | Less vuggy. Feldspars gone to yellow-green clay, but not leached. Lapilli are apparently silica replaced, but have escaped leaching episode-perhaps this interval is below the water table? |
| | {101.5-102.5} «Oxidized Zone» | Yellow-brown. Clay rich gougy limonitic fault zone | | «LIM» | Gone to limonite. | |
| | {107.5-107.9} «Sil Zone» | Grey. Patchy silicification/replacement appears to follow bedding planes @ | 20 | «I SIL» | | |
| | {88.5-88.7} «Fault»? | Gougy fault | | «I ARG» | | (Note: interval seems to be misplaced in log- maybe actually 108.5-108.7??) |
| 116.80 TO 117.40 | «OXIDE FAULT» | Yellow-brown. Highly fractured zone, limonitic staining, minimal gouge. | | «LIM» | | |
| 117.40 TO 135.00 | «FQXT» | Pale grey, m.g. Same lithology, less vuggy, less silicified. Fairly homogenous. Moderate argillic alteration. | | «M ARG, W SIL» Feldspars gone to pale yellow-green clay, not leached. | Contains intensely silicified zone, nested below... | |
| | {118.0-122.3} «Sil Zone» | Grey. Intensely silicified FQXT. No brecciation, but significant open vugs created by leaching, then lined with drusy clear quartz and coarse pyrite. | 45 | «I SIL» Intense silica replacement with local drusy quartz in larger vugs (1 cm wide, 3-4 cm long) Bedding parallel | «I% py» as coarse crystal aggregates in drusy quartz vugs. | Vugs appear bedding controlled because most feldspars & lapilli have not been leached. |
| | {123.3-123.7} «OXIDE FAULT» | Limonitic staining, minimal gouge. | | «LIM» | | |

HOLE NUMBER: CL-91-05

DRILL HOLE RECORD

LOGGED BY: P. THIERSCH

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|----------------------------------|---|---|--|
| 135.00 TO 150.00 | «SIL ZONE» ↓135.0-138.5↓ «Limonite Veins» ↓141.4-141.8↓ «Hyd. Bx Vein» ↓144.4-144.9↓ «Qz Veins» ↓146.9-147.6↓ «Qz Veins» 146-150 Fractured | Grey. Wide zone of silicification and veining, not significantly leached, but moderately stockworked and locally brecciated. Veins are grey quartz and white clay, surrounded by patchy grey silicification. Grey quartz veins are leached and limonitic. Quartz healed hydrothermal breccia, vugs infilled by white clay. Clay filled vuggy quartz veins. Clay filled vuggy quartz veins. This interval highly fractured, faulted, minor gouge, broken quartz veins. | 60 45 40 10 | «S-I SIL» Overprinting moderate argillization. «I SIL, CLAY» «I SIL, CLAY» «I SIL, CLAY» «GOUGY» | Veins are essentially barren. No sulphides Barren. Barren. | Major "zone" White alunite? White alunite? White alunite? |
| 150.00 TO 154.30 | «FQXT» | Pale grey. Strong but patchy silicification overprints moderate argillic alteration. Interval has been leached, feldspar & lapilli sites are vuggy, but only carry sparse py. | | «S SIL, M ARG» Strong but patchy silicification. Clay altered feldspars yellow buff. | «Tr py» | Weak vugs. |
| 154.30 TO 159.70 | «SIL ZONE» ↓155.8-156.0↓ «BRECCIA VEIN» | Dark grey. Major zone of silicification, veining, and brecciation. Dark grey quartz forms narrow stringers and microbreccia veins, as well as healing open vuggy wall rock breccias. Single episode hydrothermal brecciation. 40% of interval is brecciated. Quartz veins @ Vuggy grey quartz. | 60 40 | «I SIL» overprints moderate argillic-altered feldspars. Not leached. Vugs are strictly in hydrothermal breccias. | Quartz is apparently barren, only trace pyrite noted replacing phenos in wall rock fragments. | Major "zone" Sulphide poor. |
| 159.70 TO 160.10 | «FAULT» | Highly fractured, silicified FQXT. 40% gouge. | 20 | «S SIL, S ARG» | | |

HOLE NUMBER: CL-91-05

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------------|--|---|----------------|--------------------|--|---------------------------------|
| 160.10 TO 177.10 | «FQXT» ‡165.5- 165.7‡ «Fault» ‡169.7- 169.8‡ «Fault» | Back into patchy strong silicification and argillization. Interval has been leached though not as extensively as higher in hole; vugs commonly contain marcasite blades. 50% unleached feldspars are yellow green clay altered. | | «S-I SIL, M-S ARG» | «1% py, MC» as bladed aggregates in open vugs. | Back into sulphidic vuggy FQXT. |
| 177.1 | | EOH | | | | |

HOLE NUMBER: CL-91-05

DRILL HOLE RECORD

LOGGED BY: P. THIERSCH

PAGE: 5

HOLE NUMBER: CL-91-05

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 43667 | 51.00 | 53.00 | 2.00 | 1.2 | 1200 | 1 | 35 | 18 | 27 | 14 | 21 | 200 | 18 | |
| 43668 | 55.00 | 57.00 | 2.00 | 0.8 | 1038 | 1 | 11 | 14 | 24 | 18 | 16 | 65 | 15 | |
| 43669 | 57.00 | 59.00 | 2.00 | 0.7 | 512 | 1 | 13 | 16 | 10 | 14 | 48 | 75 | 23 | |
| 43670 | 61.00 | 63.00 | 2.00 | 0.9 | 665 | 1 | 10 | 13 | 22 | 43 | 56 | 60 | 30 | |
| 43671 | 65.00 | 67.00 | 2.00 | 0.6 | 264 | 1 | 14 | 18 | 7 | 53 | 24 | 45 | 40 | |
| 43672 | 69.00 | 71.00 | 2.00 | 0.6 | 280 | 1 | 14 | 22 | 8 | 64 | 20 | 55 | 17 | |
| 43673 | 73.00 | 75.00 | 2.00 | 0.5 | 206 | 2 | 13 | 18 | 7 | 49 | 21 | 50 | 16 | |
| 43674 | 80.00 | 82.00 | 2.00 | 0.4 | 108 | 2 | 13 | 21 | 6 | 50 | 8 | 25 | 13 | |
| 43675 | 84.00 | 86.00 | 2.00 | 0.5 | 171 | 1 | 9 | 17 | 9 | 41 | 6 | 45 | 14 | |
| 43676 | 88.00 | 90.00 | 2.00 | 0.4 | 232 | 1 | 12 | 17 | 11 | 59 | 5 | 50 | 16 | |
| 43677 | 92.00 | 94.00 | 2.00 | 0.4 | 142 | 1 | 30 | 18 | 6 | 49 | 4 | 45 | 10 | |
| 43678 | 96.00 | 98.20 | 2.20 | 0.9 | 175 | 1 | 15 | 22 | 11 | 22 | 20 | 115 | 17 | |
| 43679 | 98.20 | 100.20 | 2.00 | 0.8 | 94 | 2 | 16 | 20 | 7 | 28 | 10 | 120 | 8 | |
| 43680 | 104.20 | 106.20 | 2.00 | 0.7 | 321 | 1 | 26 | 19 | 13 | 44 | 40 | 35 | 12 | |
| 43681 | 108.20 | 110.20 | 2.00 | 0.8 | 253 | 2 | 32 | 23 | 9 | 48 | 68 | 50 | 15 | |
| 43682 | 115.00 | 116.80 | 1.80 | 1 | 377 | 1 | 16 | 17 | 15 | 26 | 57 | 55 | 10 | |
| 43683 | 116.80 | 117.40 | 0.60 | 0.5 | 138 | 1 | 10 | 14 | 8 | 27 | 97 | 25 | 15 | |
| 43684 | 118.00 | 120.00 | 2.00 | 0.7 | 182 | 1 | 15 | 14 | 9 | 31 | 41 | 40 | 9 | |
| 43685 | 120.00 | 122.30 | 2.30 | 0.5 | 114 | 1 | 19 | 12 | 7 | 33 | 40 | 25 | 16 | |
| 43686 | 122.30 | 123.30 | 1.00 | 0.9 | 446 | 1 | 15 | 18 | 18 | 45 | 80 | 40 | 7 | |
| 43687 | 123.30 | 123.70 | 0.40 | 0.1 | 309 | 1 | 9 | 18 | 21 | 111 | 81 | 140 | 5 | |
| 43688 | 123.70 | 125.70 | 2.00 | 0.7 | 170 | 1 | 11 | 15 | 8 | 39 | 29 | 65 | 18 | |
| 43689 | 128.00 | 130.00 | 2.00 | 0.5 | 113 | 2 | 12 | 18 | 8 | 35 | 2 | 70 | 16 | |
| 43690 | 133.00 | 135.00 | 2.00 | 0.5 | 87 | 1 | 14 | 19 | 8 | 44 | 3 | 35 | 13 | |
| 43791 | 139.00 | 118.00 | -21.00 | 3.9 | 533 | 1 | 44 | 16 | 51 | 31 | 81 | 270 | 18 | |
| 43692 | 141.00 | 143.00 | 2.00 | 0.4 | 90 | 2 | 10 | 22 | 12 | 41 | 1 | 70 | 10 | |
| 43693 | 145.00 | 147.00 | 2.00 | 0.4 | 104 | 1 | 10 | 17 | 10 | 44 | 2 | 75 | 20 | |
| 43694 | 147.00 | 149.00 | 2.00 | 0.4 | 61 | 1 | 10 | 14 | 7 | 45 | 4 | 45 | 27 | |
| 43695 | 150.00 | 152.00 | 2.00 | 0.4 | 55 | 1 | 12 | 17 | 7 | 42 | 1 | 35 | 17 | |
| 43696 | 153.30 | 154.30 | 1.00 | 0.6 | 166 | 1 | 19 | 16 | 12 | 41 | 36 | 65 | 13 | |
| 43697 | 154.30 | 156.30 | 2.00 | 0.6 | 133 | 1 | 10 | 13 | 9 | 26 | 43 | 60 | 29 | |
| 43698 | 156.30 | 158.30 | 2.00 | 0.3 | 159 | 1 | 7 | 12 | 8 | 33 | 49 | 50 | 23 | |
| 43699 | 158.30 | 159.60 | 1.30 | 0.2 | 141 | 1 | 8 | 15 | 8 | 38 | 42 | 55 | 20 | |
| 43700 | 159.60 | 160.00 | 0.40 | 0.1 | 76 | 1 | 8 | 10 | 5 | 35 | 33 | 35 | 20 | |
| 43701 | 160.00 | 162.00 | 2.00 | 0.3 | 79 | 2 | 8 | 14 | 7 | 28 | 44 | 55 | 23 | |
| 43702 | 164.00 | 166.00 | 2.00 | 0.5 | 266 | 1 | 8 | 15 | 13 | 25 | 56 | 50 | 14 | |
| 43703 | 168.00 | 170.00 | 2.00 | 0.5 | 206 | 1 | 8 | 15 | 12 | 29 | 42 | 45 | 19 | |
| 43704 | 172.00 | 174.00 | 2.00 | 0.1 | 130 | 1 | 7 | 14 | 7 | 32 | 23 | 60 | 2 | |

HOLE NUMBER: CL-91-05

ASSAY SHEET

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HOLE NUMBER: CL-91-05

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m | | |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|

HOLE NUMBER: CL-91-05

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43667 | 51.00 | 53.00 | 2.00 | 1.2 | 1200 | 1 | 35 | 18 | 27 | 14 | 21 | 200 | 18 |
| 43668 | 55.00 | 57.00 | 2.00 | 0.8 | 1038 | 1 | 11 | 14 | 24 | 18 | 16 | 65 | 15 |
| 43669 | 57.00 | 59.00 | 2.00 | 0.7 | 512 | 1 | 13 | 16 | 10 | 14 | 48 | 75 | 23 |
| 43670 | 61.00 | 63.00 | 2.00 | 0.9 | 665 | 1 | 10 | 13 | 22 | 43 | 56 | 60 | 30 |
| 43671 | 65.00 | 67.00 | 2.00 | 0.6 | 264 | 1 | 14 | 18 | 7 | 53 | 24 | 45 | 40 |
| 43672 | 69.00 | 71.00 | 2.00 | 0.6 | 280 | 1 | 14 | 22 | 8 | 64 | 20 | 55 | 17 |
| 43673 | 73.00 | 75.00 | 2.00 | 0.5 | 206 | 2 | 13 | 18 | 7 | 49 | 21 | 50 | 16 |
| 43674 | 80.00 | 82.00 | 2.00 | 0.4 | 108 | 2 | 13 | 21 | 6 | 50 | 8 | 25 | 13 |
| 43675 | 84.00 | 86.00 | 2.00 | 0.5 | 171 | 1 | 9 | 17 | 9 | 41 | 6 | 45 | 14 |
| 43676 | 88.00 | 90.00 | 2.00 | 0.4 | 232 | 1 | 12 | 17 | 11 | 59 | 5 | 50 | 16 |
| 43677 | 92.00 | 94.00 | 2.00 | 0.4 | 142 | 1 | 30 | 18 | 6 | 49 | 4 | 45 | 10 |
| 43678 | 96.00 | 98.20 | 2.20 | 0.9 | 175 | 1 | 15 | 22 | 11 | 22 | 20 | 115 | 17 |
| 43679 | 98.20 | 100.20 | 2.00 | 0.8 | 94 | 2 | 16 | 20 | 7 | 28 | 10 | 120 | 8 |
| 43680 | 104.20 | 106.20 | 2.00 | 0.7 | 321 | 1 | 26 | 19 | 13 | 44 | 40 | 35 | 12 |
| 43681 | 108.20 | 110.20 | 2.00 | 0.8 | 253 | 2 | 32 | 23 | 9 | 48 | 68 | 50 | 15 |
| 43682 | 115.00 | 116.80 | 1.80 | 1 | 377 | 1 | 16 | 17 | 15 | 26 | 57 | 55 | 10 |
| 43683 | 116.80 | 117.40 | 0.60 | 0.5 | 138 | 1 | 10 | 14 | 8 | 27 | 97 | 25 | 15 |
| 43684 | 118.00 | 120.00 | 2.00 | 0.7 | 182 | 1 | 15 | 14 | 9 | 31 | 41 | 40 | 9 |
| 43685 | 120.00 | 122.30 | 2.30 | 0.5 | 114 | 1 | 19 | 12 | 7 | 33 | 40 | 25 | 16 |
| 43686 | 122.30 | 123.30 | 1.00 | 0.9 | 446 | 1 | 15 | 18 | 18 | 45 | 80 | 40 | 7 |
| 43687 | 123.30 | 123.70 | 0.40 | 0.1 | 309 | 1 | 9 | 18 | 21 | 111 | 81 | 140 | 5 |
| 43688 | 123.70 | 125.70 | 2.00 | 0.7 | 170 | 1 | 11 | 15 | 8 | 39 | 29 | 65 | 18 |
| 43689 | 128.00 | 130.00 | 2.00 | 0.5 | 113 | 2 | 12 | 18 | 8 | 35 | 2 | 70 | 16 |
| 43690 | 133.00 | 135.00 | 2.00 | 0.5 | 87 | 1 | 14 | 19 | 8 | 44 | 3 | 35 | 13 |
| 43791 | 139.00 | 118.00 | -21.00 | 3.9 | 533 | 1 | 44 | 16 | 51 | 31 | 81 | 270 | 18 |
| 43692 | 141.00 | 143.00 | 2.00 | 0.4 | 90 | 2 | 10 | 22 | 12 | 41 | 1 | 70 | 10 |
| 43693 | 145.00 | 147.00 | 2.00 | 0.4 | 104 | 1 | 10 | 17 | 10 | 44 | 2 | 75 | 20 |
| 43694 | 147.00 | 149.00 | 2.00 | 0.4 | 61 | 1 | 10 | 14 | 7 | 45 | 4 | 45 | 27 |
| 43695 | 150.00 | 152.00 | 2.00 | 0.4 | 55 | 1 | 12 | 17 | 7 | 42 | 1 | 35 | 17 |
| 43696 | 153.30 | 154.30 | 1.00 | 0.6 | 166 | 1 | 19 | 16 | 12 | 41 | 36 | 65 | 13 |
| 43697 | 154.30 | 156.30 | 2.00 | 0.6 | 133 | 1 | 10 | 13 | 9 | 26 | 43 | 60 | 29 |
| 43698 | 156.30 | 158.30 | 2.00 | 0.3 | 159 | 1 | 7 | 12 | 8 | 33 | 49 | 50 | 23 |
| 43699 | 158.30 | 159.60 | 1.30 | 0.2 | 141 | 1 | 8 | 15 | 8 | 38 | 42 | 55 | 20 |
| 43700 | 159.60 | 160.00 | 0.40 | 0.1 | 76 | 1 | 8 | 10 | 5 | 35 | 33 | 35 | 20 |
| 43701 | 160.00 | 162.00 | 2.00 | 0.3 | 79 | 2 | 8 | 14 | 7 | 28 | 44 | 55 | 23 |
| 43702 | 164.00 | 166.00 | 2.00 | 0.5 | 266 | 1 | 8 | 15 | 13 | 25 | 56 | 50 | 14 |
| 43703 | 168.00 | 170.00 | 2.00 | 0.5 | 206 | 1 | 8 | 15 | 12 | 29 | 42 | 45 | 19 |
| 43704 | 172.00 | 174.00 | 2.00 | 0.1 | 130 | 1 | 7 | 14 | 7 | 32 | 23 | 60 | 2 |

HOLE NUMBER: CL-91-05

GEOCHEM. SHEET

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HOLE NUMBER: CL-91-05

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| S>= 0.00cm | | | | | | | | | | |
| 55.40 | 57.40 | 2.00 | 50.00 | ***** | 45 | 22.50 | 3 | 1.50 | 0 | |
| 57.40 | 59.40 | 2.00 | 50.00 | ***** | 46 | 23.00 | 3 | 1.50 | 0 | |
| 59.40 | 60.60 | 1.20 | 60.00 | ***** | 17 | 14.17 | 0 | 0.00 | 0 | |
| 60.60 | 63.70 | 3.10 | 80.00 | ***** | 35 | 11.29 | 0 | 0.00 | 0 | |
| 63.70 | 64.80 | 1.10 | 60.00 | ***** | 6 | 5.45 | 0 | 0.00 | 0 | BX |
| 64.80 | 66.40 | 1.60 | 60.00 | ***** | 28 | 17.50 | 0 | 0.00 | 0 | |
| 66.40 | 68.40 | 2.00 | 40.00 | ***** | 40 | 20.00 | 4 | 2.00 | 0 | |
| 68.40 | 70.40 | 2.00 | 10.00 | 500.0 | 47 | 23.50 | 4 | 2.00 | 0 | |
| 70.40 | 72.40 | 2.00 | 60.00 | ***** | 33 | 16.50 | 4 | 2.00 | 0 | |
| 72.40 | 74.20 | 1.80 | 80.00 | ***** | 34 | 18.89 | 2 | 1.11 | 0 | |
| 74.20 | 76.50 | 2.30 | 100.00 | ***** | 21 | 9.13 | 3 | 1.30 | 0 | |
| 76.50 | 78.50 | 2.00 | 150.00 | ***** | 30 | 15.00 | 0 | 0.00 | 0 | |
| 78.50 | 81.40 | 2.90 | 160.00 | ***** | 40 | 13.79 | 0 | 0.00 | 0 | |
| 81.40 | 83.40 | 2.00 | 120.00 | ***** | 20 | 10.00 | 0 | 0.00 | 0 | |
| 83.40 | 85.40 | 2.00 | 120.00 | ***** | 25 | 12.50 | 0 | 0.00 | 0 | |
| 85.40 | 87.60 | 2.20 | 80.00 | ***** | 24 | 10.91 | 0 | 0.00 | 0 | |
| 87.60 | 89.60 | 2.00 | 30.00 | ***** | 31 | 15.50 | 0 | 0.00 | 0 | |
| 89.60 | 91.60 | 2.00 | 10.00 | 500.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 91.60 | 93.60 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 93.60 | 96.00 | 2.40 | 0.00 | 0.0 | 100 | 41.67 | 0 | 0.00 | 0 | |
| 96.00 | 98.00 | 2.00 | 40.00 | ***** | 42 | 21.00 | 0 | 0.00 | 0 | |
| 98.00 | 100.00 | 2.00 | 60.00 | ***** | 20 | 10.00 | 1 | 0.50 | 0 | |
| 100.00 | 102.00 | 2.00 | 120.00 | ***** | 14 | 7.00 | 0 | 0.00 | 0 | |
| 102.00 | 104.40 | 2.40 | 120.00 | ***** | 25 | 10.42 | 0 | 0.00 | 0 | |
| 104.40 | 106.40 | 2.00 | 30.00 | ***** | 21 | 10.50 | 0 | 0.00 | 0 | |
| 108.00 | 110.00 | 2.00 | 10.00 | 500.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 112.00 | 114.00 | 2.00 | 60.00 | ***** | 50 | 25.00 | 2 | 1.00 | 0 | CaCO3 |
| 116.00 | 118.00 | 2.00 | 80.00 | ***** | 25 | 12.50 | 0 | 0.00 | 0 | |
| 120.00 | 122.00 | 2.00 | 80.00 | ***** | 31 | 15.50 | 0 | 0.00 | 0 | |
| 124.00 | 126.00 | 2.00 | 130.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | |
| 128.20 | 130.20 | 2.00 | 110.00 | ***** | 24 | 12.00 | 0 | 0.00 | 0 | |
| 132.20 | 134.20 | 2.00 | 180.00 | ***** | 11 | 5.50 | 0 | 0.00 | 0 | |
| 136.20 | 138.20 | 2.00 | 175.00 | ***** | 12 | 6.00 | 0 | 0.00 | 0 | |
| 140.20 | 142.20 | 2.00 | 165.00 | ***** | 14 | 7.00 | 0 | 0.00 | 0 | |
| 142.20 | 144.20 | 2.00 | 130.00 | ***** | 12 | 6.00 | 5 | 2.50 | 0 | CaCO3 |
| 144.20 | 146.20 | 2.00 | 80.00 | ***** | 34 | 17.00 | 2 | 1.00 | 0 | |
| 146.20 | 148.20 | 2.00 | 90.00 | ***** | 20 | 10.00 | 7 | 3.50 | 0 | |
| 148.20 | 150.20 | 2.00 | 100.00 | ***** | 18 | 9.00 | 2 | 1.00 | 0 | CaCO3 |
| 152.50 | 154.50 | 2.00 | 125.00 | ***** | 32 | 16.00 | 6 | 3.00 | 0 | |
| 154.50 | 156.50 | 2.00 | 10.00 | 500.0 | 31 | 15.50 | 0 | 0.00 | 0 | |
| 158.50 | 160.50 | 2.00 | 40.00 | ***** | 23 | 11.50 | 0 | 0.00 | 0 | |
| 162.50 | 164.50 | 2.00 | 110.00 | ***** | 42 | 21.00 | 2 | 1.00 | 0 | |
| 166.50 | 168.50 | 2.00 | 40.00 | ***** | 100 | 50.00 | 0 | 0.00 | 0 | |
| 170.00 | 171.40 | 1.40 | 20.00 | ***** | 26 | 18.57 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-05

RQD ASSAY

PAGE: 9

HOLE NUMBER: CL-91-05

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| S>= 0.00cm | | | | | | | | | | |
| 171.40 | 173.40 | 2.00 | 20.00 | ***** | 40 | 20.00 | 0 | 0.00 | 0 | |
| 175.40 | 177.40 | 2.00 | 10.00 | 500.0 | 50 | 25.00 | 0 | 0.00 | 0 | |
| 179.40 | 181.40 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 181.40 | 183.50 | 2.10 | 0.00 | 0.0 | 100 | 47.62 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-06

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS

PROJECT NAME: CLISBAKO PLOTTING COORDS GRID: UTM ALTERNATE COORDS GRID: COLLAR DIP: -45° 0'
PROJECT NUMBER: 667 NORTH: 41042.00N NORTH: 0+ 0 LENGTH OF THE HOLE: 201.80
CLAIM NUMBER: EAST: 9344.00E EAST: 0+ 0 START DEPTH: 0.00
LOCATION: NORTH ZONE ELEV: 1317.00 ELEV: 1317.00 FINAL DEPTH: 201.80

COLLAR GRID AZIMUTH: 290° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 290° 0' 0"

DATE STARTED: August 20, 1991
DATE COMPLETED: August 22, 1991
DATE LOGGED: August 27, 1991

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NO

CONTRACTOR: FRONTIER DRILLING LTD.
CASING: 10' LEFT IN HOLE
CORE STORAGE: CAMP

PURPOSE:

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 102.70 | - | -43° 0' | ACID | OK | | - | - | - | - | - | |
| 194.10 | - | -43° 0' | ACID | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

HOLE NUMBER: CL-91-06

DRILL HOLE RECORD

LOGGED BY: PETER THIRSCH

PAGE:

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|--|--|----------------------|---|---|---|
| 0.00 TO 28.00 | «CASING» | | | | | |
| 28.00 TO 49.00 | «FQXT» ‡39.2-45.0‡ «Vuggy» ‡41.0-41.4‡ «Fault» | Pale grey, m.g. Strongly argillized and leached feldspar quartz lapilli tuff. 4-6 mm rounded qtz eyes 5-10%. 3-8 mm feldspar crystals 20-30% all gone to green clay, about 50% leached out to form vugs. Other vugs up to 1 cm in size, tabular, may represent feldspar megacrystals? (or rather angular lapilli) | | «S ARG» «W SIL» Strong argillization. All feldspar gone to green clay. «W CAL» 50% of vugs are filled by calcite, especially in lower 4 m. | «Tr py & chl» replacing some phenos. | Calcite filled vugs. |
| 49.00 TO 118.20 | «FAULT ZONE-PY STWK» ‡50.9-61.6‡ «Amygdaloidal Flow» 55.4-58.0 ‡55.4-62.5‡ «Gouge» ‡62.5-66.1‡ «fxt» ‡66.1-68.4‡ «Gouge» ‡68.4-78.3‡ «AMYGDALOIDAL FLOW?» | White-grey. Wide zone of faulting, with strong calcite and pyrite stockworking. Drilling down dip. Paragenesis appears to be pyrite (quartz) stringer mineralization, then faulting, then calcite (pyrite) stringers. Lithology is only locally identifiable, as entire interval is extensively argillized and sheared. Pale grey, f.g. Stockworked wall rock "islands" of intensely argillized amygdaloidal intermediate flow. Amygdules filled with qtz up to 1 cm x 7cm in size, flattened into planes @ Sparse feldspar? phenocrysts gone to green clay. Pyrite veins @ | 35 60 75 40 | «I-X ARG» Wall rock varies from competent but intensely argillized and fractured rock to incompetent and extremely argillized gougy rock. «X ARG» Intense argillic. «I ARG» «X ARG» «I ARG» «S CAL» Intense argillic alter'n and shearing | «3-5% py» as qtz py stringers. Also minor py in later calcite stringers. «3-5% py» in strong stockworking. Pyrite is very fine grained. «3-5% py» in strong py stockwork. | Abundant calcite. "High grade" pyrite. |
| | | Dark grey. Total clay gouge. Dark grey. Total clay gouge. Pale grey. Intensely argillized sandy feldspar crystal tuff. Strong pyrite stockwork is locally disrupted by faulting. Total clay gouge. Strong pyrite stockwork with abundant late calcite in possible amygdaloidal flow unit (as previous) Sparse feldspar? phenocrysts have gone to bright | | | «5% py» occurs as irregular f.g. blebs, selvages, "broken" veinlets etc. | Abundant calcite. |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|-----------------------------------|---|-------------|--|---|---|
| | | green clay. | | makes lithology difficult to identify. | | |
| | ↓78.5-89.4 «Gouge/stwk » | Grey. Extreme argillic alteration and apparent shear fabric in aligned quartz & calcite "grains" Could be amygdaloidal unit? | 30 | «X ARG» «M SIL, M CAL» | Dark grey matrix is probably sulphide. | Interval appears sheared (@45 degrees to CA) due to intense argillic altn, only rounded quartz grains survive and are oriented in planes. |
| | 80.4-89.4 GOUGE- STWK | Grey. Disrupted pyritic stockwork/breccia. Abundant rounded quartz vein frags to 3 cm. Lithology obviously amygdaloidal flow unit. | | «X ARG, M SIL, M CAL» Calcite & quartz both fill amygdules. Calcite also forms late (post-fault) stringers. | «3% py» as stringers and irregular blebs. | Amygdaloidal flow unit. |
| | ↓82.5-83.4↓ «Dyke» | Black. Mafic dyke with calcite microveinlets. | | «MCAL» | «Tr diss. py» | |
| | ↓89.4-99.2↓ «Breccia» | Amygdaloidal flow breccia 50% gouge. | | «S-I ARG, M SIL» | | Black quartz bx vein @ 105.6m |
| | ↓93.6-96.4↓ «Gouge» | Washed out gouge zone. 30% recovery. | | | | |
| | ↓99.2-102.2↓ «PY stwk» | Grey. More competent, amygdaloidal flow unit, strong arg., st. qtz-py stwk. Amygdules <1cm. Shattered black quartz bx vein w/ 2% py @ 105.6-105.8m. | | «S-I ARG, M SIL» | «3% py stringers» | Black qtz bx vein @ 105.6m. |
| | ↓102.2-118.2↓ «Gouge- stwk» | Pale grey. Extreme argillic alteration of strong qtz-py stockwork. Local minor py-qtz breccia veins are preserved @ 108.4-108.6 Dark grey. @ 110.6-110.7 Dark grey AMYG @ 112.3-112.5 Dark grey. | | «X ARG» «QTZ BRX» «QTZ BRX» «QTZ BRX» | 1-3% py stringers. «1-3% py» «1-3% py» «1-3% py» | |
| | 104.2-104.6 Amygdaloidal Flow | Crowded 1 cm amygdules filled by grey quartz. | | «I ARG» | «Tr py» | |
| 118.20 TO 120.10 | «FAULT» | Highly fractured, 50% gouge. | | «S-I ARG» | | |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-06

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|-------------|---|---|---|
| 120.10 TO 126.90 | «FQXT» | Pale grey. m.g. Feldspar-quartz crystal tuff. 10% 2-5 mm qtz eyes 30% 1-7 mm feldspar 5% 1 cm rectangular lapilli or feldspar megacrysts Trace biotite. | | «M ARG, S SIL» Moderately argillized, all fs gone to clay, but not vuggy. Strongly pervasively silicified. | «Tr py» | Appears welded or crudely bedded @ 10-20 degrees to CA. |
| 126.90 TO 127.00 | «FAULT» | 5 cm of fault gouge. | | | | |
| 127.00 TO 133.50 | «FLOW BANDED RHYOLITE BRECCIA» ‡132.2-132.7‡ «Gouge» | Green-black. Strongly argillized f.g. rhyolite tuff breccia. Green clay alteration, black breccia matrix. Highly fractured, 50% gouge. Well developed perlite textures. Fault | | «S-I ARG» «X ARG» | «Tr py» | |
| 133.50 TO 142.20 | «FQXT» | Same as previous. Pervasively silicified. Minor qtz stringers. Crude bedding @ Minor drusy qtz stringers are barren green qtz. | 20 | «S SIL, M ARG» Pervasive silicification overprints mod argillic. Feldspars gone to clay. | «1% py» in minor quartz stringers. | |
| 142.20 TO 158.80 | «FQXT» ‡142.2-149.8‡ «FQXT-Fault» | Same as previous. Slightly leached and vuggy. Highly fractured. 50% gouge in fault fractures @ | 20 | «M ARG, M SIL» «M ARG, S SIL | «Tr py» in qtz-chl stringers. «1% py» in minor qtz stringers and late fractures. | |
| 158.80 TO 158.90 | «FAULT» | Gouge | | «X ARG» | | |
| 158.90 TO 163.70 | «HEMATITIC RHYOLITE BX» | Grey red. Strange mix of perlitic textures, alteration balls and FB rhyolite frags in a hematite rich matrix. Some siliceous frags may be aphanitic flow - latite? | | «S-I ARG» «M-S SIL» Patchy intense sil. accompanies up to 3% pyrite. | «1-3% py» as stringers, irregular blebs and fracture coatings. | |
| 163.70 TO 169.50 | «FAULT» «FB RHYOLITE» | Dark grey-red. Shattered and gougy tuff breccia as above. Preserved frags are strongly silicified sed, ash and flow. Interval is 60% gouge. | | «M-X ARG» «S-I SIL» Strongly silicified frags in gougy matrix. | «Tr py» | |

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MINNOVA INC.
DRILL HOLE RECORD

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HOLE NUMBER: CL-91-06

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--------------------------|---|-------------|---|--|---|
| 169.50 TO 173.40 | «LATITE BRECCIA» | Dark grey-green, aphanitic. Intensely silicified latite breccia. Latite is aphanitic but mottled with hematite. Local sphurulitic textures. | | «M HEM» «I SIL» «S CHL» Pervasive silicification and quartz breccia matrix. | «3-5% py» as irregular blebs in qtz breccia matrix, "rip up" selvages and stringers. | Neat looking rock! |
| 173.40 TO 177.80 | «FAULT» | Pale grey. Bleached, gougy fault zone in latite breccia unit. | | «S-I ARG» Some preserved frags are intensely silicified. Otherwise 60% clay gouge. | «1% py» as irregular disseminations. | |
| 177.80 TO 190.30 | «STWK BRECCIA» | Buff green, aphanitic. Strong qtz-py stockworked and locally brecciated silicified flow banded latite. Banding @ Latite is highly fractured and quartz healed, locally vuggy. Latite is hematite rich with prominent flow-banding. | 70 | «X SIL» pervasive silicification of latite, with strong qtz-py stringers and breccias. Quartz is white to black, locally vuggy. | «3-5% py» in qtz stringers and quartz microbreccias. | Flooded with potential. Very impressive |
| | ↓178.8-179.1↑ «Qz Bx» | Vuggy black hydro-breccia | | | «2% py» | |
| | ↓180.0-180.2↑ «Qz Bx» | Pyrite and clay rich qtz bx. | | | «5% py» | |
| 190.30 TO 190.90 | «TUFF BX-FAULT» | Green. <10 cm fragments of latite in silicified green clay matrix. 5 cm of clay gouge marks fault. | | «S SIL» and fault gouge. | | |
| 190.90 TO 201.80 | «FQXT» | Pale green, m.g. Moderately silicified and weakly veined feldspar quartz crystal tuff. Highly fractured, locally gougy. Increasing argillic alteration downsection. Bottom 1/2 is 30% gouge. | | «M ARG, M-S SIL» Feldspars gone to clay. | «1% py» in black qtz stringers. | |
| | ↓199.6-200.4↑ | «blk qtz sil zone» | | | | |
| | 201.8 | «EOH» | | | | |

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DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA | GEOCHEMICAL | | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----------|----------|
| | | | | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | | |
| 43705 | 28.50 | 30.50 | 2.00 | 1.1 | 47 | 6 | 24 | 21 | 2 | 48 | 2 | 65 | 12 | | |
| 43706 | 32.50 | 34.50 | 2.00 | 1.6 | 39 | 1 | 11 | 14 | 4 | 30 | 1 | 45 | 18 | | |
| 43707 | 36.50 | 38.50 | 2.00 | 1 | 24 | 2 | 15 | 15 | 1 | 33 | 1 | 40 | 12 | | |
| 43708 | 40.50 | 42.50 | 2.00 | 0.8 | 27 | 2 | 16 | 20 | 1 | 54 | 1 | 50 | 14 | | |
| 43709 | 44.50 | 46.50 | 2.00 | 1.1 | 27 | 2 | 14 | 19 | 1 | 30 | 2 | 35 | 20 | | |
| 43710 | 48.00 | 49.00 | 1.00 | 0.9 | 21 | 1 | 11 | 16 | 1 | 39 | 1 | 40 | 3 | | |
| 43711 | 49.00 | 51.00 | 2.00 | 0.7 | 109 | 3 | 23 | 14 | 3 | 63 | 12 | 395 | 14 | | |
| 43712 | 51.00 | 53.00 | 2.00 | 1 | 49 | 2 | 26 | 15 | 1 | 68 | 4 | 350 | 18 | | |
| 43713 | 53.00 | 55.40 | 2.40 | 0.8 | 54 | 3 | 20 | 12 | 2 | 65 | 2 | 355 | 12 | | |
| 43714 | 55.40 | 57.00 | 1.60 | 0.2 | 41 | 2 | 30 | 13 | 11 | 78 | 3 | 375 | 9 | | |
| 43715 | 57.00 | 58.00 | 1.00 | 0.3 | 155 | 3 | 27 | 11 | 10 | 71 | 2 | 430 | 9 | | |
| 43716 | 58.00 | 60.00 | 2.00 | 1.2 | 273 | 4 | 30 | 17 | 21 | 61 | 1 | 450 | 10 | | |
| 43717 | 60.00 | 61.60 | 1.60 | 0.4 | 209 | 3 | 26 | 12 | 15 | 71 | 2 | 415 | 14 | | |
| 43718 | 61.60 | 62.50 | 0.90 | 0.6 | 80 | 4 | 27 | 12 | 29 | 79 | 1 | 1160 | 5 | | |
| 43719 | 62.50 | 64.50 | 2.00 | 0.6 | 50 | 4 | 30 | 15 | 27 | 76 | 1 | 545 | 8 | | |
| 43720 | 64.50 | 66.50 | 2.00 | 0.6 | 66 | 3 | 21 | 18 | 32 | 65 | 2 | 510 | 13 | | |
| 43721 | 66.50 | 68.50 | 2.00 | 0.4 | 70 | 5 | 23 | 15 | 31 | 79 | 1 | 675 | 10 | | |
| 43722 | 68.50 | 70.50 | 2.00 | 0.5 | 56 | 2 | 23 | 13 | 22 | 68 | 1 | 380 | 13 | | |
| 43723 | 70.50 | 72.50 | 2.00 | 0.4 | 36 | 4 | 28 | 12 | 17 | 85 | 2 | 405 | 10 | | |
| 43724 | 72.50 | 74.50 | 2.00 | 0.5 | 131 | 3 | 24 | 17 | 17 | 66 | 1 | 310 | 9 | | |
| 43725 | 74.50 | 76.50 | 2.00 | 0.5 | 63 | 2 | 26 | 16 | 13 | 67 | 2 | 295 | 7 | | |
| 43726 | 76.50 | 78.50 | 2.00 | 0.4 | 68 | 2 | 22 | 14 | 14 | 64 | 1 | 315 | 9 | | |
| 43727 | 78.50 | 80.40 | 1.90 | 0.7 | 42 | 5 | 21 | 14 | 15 | 65 | 1 | 200 | 7 | | |
| 43728 | 80.40 | 82.50 | 2.10 | 0.6 | 80 | 4 | 73 | 13 | 25 | 67 | 2 | 290 | 16 | | |
| 43729 | 82.50 | 83.40 | 0.90 | 0.8 | 17 | 3 | 41 | 26 | 12 | 46 | 1 | 155 | 7 | | |
| 43730 | 83.40 | 85.40 | 2.00 | 0.3 | 38 | 4 | 38 | 15 | 33 | 81 | 2 | 665 | 9 | | |
| 43731 | 85.40 | 87.40 | 2.00 | 0.7 | 32 | 5 | 34 | 11 | 21 | 80 | 2 | 370 | 6 | | |
| 43732 | 87.40 | 89.40 | 2.00 | 1 | 54 | 4 | 29 | 15 | 17 | 72 | 2 | 185 | 12 | | |
| 43733 | 89.40 | 91.50 | 2.10 | 0.7 | 42 | 5 | 24 | 11 | 9 | 72 | 3 | 200 | 9 | | |
| 43734 | 91.50 | 93.60 | 2.10 | 0.5 | 53 | 4 | 23 | 13 | 23 | 67 | 4 | 300 | 10 | | |
| 43735 | 93.60 | 96.60 | 3.00 | 0.2 | 96 | 6 | 40 | 21 | 22 | 73 | 2 | 375 | 100 | | |
| 43736 | 96.60 | 99.20 | 2.60 | 0.3 | 58 | 4 | 28 | 16 | 11 | 65 | 3 | 180 | 13 | | |
| 43737 | 99.20 | 100.80 | 1.60 | 0.7 | 78 | 4 | 43 | 16 | 13 | 85 | 3 | 385 | 10 | | |
| 43738 | 100.80 | 102.20 | 1.40 | 0.3 | 51 | 4 | 29 | 12 | 11 | 86 | 7 | 470 | 7 | | |
| 43739 | 102.20 | 104.20 | 2.00 | 0.3 | 65 | 2 | 171 | 19 | 22 | 83 | 12 | 355 | 11 | | |
| 43740 | 104.20 | 106.20 | 2.00 | 0.6 | 96 | 2 | 62 | 14 | 15 | 74 | 6 | 205 | 16 | | |
| 43741 | 106.20 | 108.20 | 2.00 | 1 | 139 | 3 | 49 | 23 | 16 | 81 | 10 | 235 | 9 | | |
| 43742 | 108.20 | 110.20 | 2.00 | 1.8 | 129 | 2 | 41 | 23 | 15 | 73 | 40 | 260 | 100 | | |

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ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43743 | 110.20 | 112.20 | 2.00 | 0.9 | 141 | 2 | 24 | 13 | 14 | 76 | 23 | 365 | 100 |
| 43744 | 112.20 | 114.20 | 2.00 | 1.6 | 118 | 3 | 149 | 27 | 12 | 107 | 47 | 415 | 100 |
| 43745 | 114.20 | 116.20 | 2.00 | 2.6 | 1348 | 2 | 23 | 16 | 62 | 61 | 126 | 455 | 8 |
| 43746 | 116.20 | 118.20 | 2.00 | 1.4 | 369 | 1 | 21 | 14 | 14 | 49 | 118 | 65 | 8 |
| 43747 | 118.20 | 120.10 | 1.90 | 1 | 125 | 2 | 18 | 16 | 9 | 41 | 11 | 75 | 100 |
| 43748 | 120.10 | 122.10 | 2.00 | 0.6 | 23 | 2 | 16 | 18 | 1 | 38 | 15 | 35 | 19 |
| 43749 | 124.10 | 126.10 | 2.00 | 0.5 | 12 | 2 | 11 | 21 | 1 | 38 | 2 | 55 | 9 |
| 43750 | 127.00 | 129.10 | 2.10 | 0.7 | 129 | 3 | 23 | 12 | 4 | 30 | 12 | 45 | 19 |
| 43751 | 131.10 | 133.10 | 2.00 | 0.6 | 72 | 2 | 31 | 21 | 4 | 46 | 9 | 55 | 15 |
| 43752 | 135.10 | 137.10 | 2.00 | 0.6 | 20 | 2 | 12 | 15 | 1 | 34 | 3 | 45 | 14 |
| 43753 | 137.10 | 139.10 | 2.00 | 0.6 | 15 | 1 | 14 | 16 | 1 | 31 | 4 | 35 | 16 |
| 43754 | 139.10 | 141.10 | 2.00 | 0.5 | 24 | 2 | 13 | 16 | 1 | 34 | 2 | 35 | 21 |
| 43755 | 141.10 | 142.20 | 1.10 | 0.4 | 16 | 1 | 13 | 18 | 1 | 36 | 6 | 45 | 8 |
| 43756 | 142.20 | 144.20 | 2.00 | 0.4 | 22 | 2 | 11 | 16 | 1 | 35 | 7 | 55 | 50 |
| 43757 | 144.20 | 146.20 | 2.00 | 1.3 | 26 | 2 | 12 | 25 | 2 | 33 | 2 | 40 | 50 |
| 43758 | 146.20 | 148.20 | 2.00 | 0.5 | 30 | 1 | 15 | 23 | 3 | 34 | 1 | 15 | 50 |
| 43759 | 148.20 | 150.00 | 1.80 | 0.3 | 42 | 2 | 17 | 19 | 3 | 36 | 4 | 50 | 50 |
| 43760 | 150.00 | 152.00 | 2.00 | 0.4 | 37 | 3 | 24 | 18 | 1 | 45 | 5 | 55 | 50 |
| 43761 | 152.00 | 154.00 | 2.00 | 0.4 | 24 | 2 | 15 | 20 | 1 | 39 | 1 | 45 | 25 |
| 43762 | 154.00 | 156.00 | 2.00 | 0.5 | 37 | 2 | 14 | 21 | 2 | 35 | 4 | 25 | 15 |
| 43763 | 156.00 | 158.00 | 2.00 | 0.4 | 15 | 2 | 15 | 21 | 1 | 39 | 3 | 35 | 8 |
| 43764 | 158.90 | 160.90 | 2.00 | 0.7 | 83 | 4 | 21 | 19 | 7 | 35 | 8 | 890 | 16 |
| 43765 | 160.90 | 163.20 | 2.30 | 0.5 | 110 | 5 | 18 | 19 | 6 | 52 | 4 | 105 | 21 |
| 43766 | 163.20 | 166.00 | 2.80 | 0.9 | 154 | 2 | 23 | 14 | 7 | 55 | 56 | 65 | 100 |
| 43767 | 166.00 | 168.00 | 2.00 | 1 | 175 | 4 | 14 | 14 | 13 | 36 | 18 | 100 | 20 |
| 43768 | 168.00 | 169.50 | 1.50 | 1.3 | 334 | 2 | 18 | 17 | 26 | 42 | 57 | 2100 | 100 |
| 43769 | 169.50 | 171.50 | 2.00 | 0.7 | 91 | 2 | 81 | 85 | 6 | 71 | 59 | 185 | 28 |
| 43770 | 171.50 | 173.40 | 1.90 | 1 | 206 | 2 | 18 | 11 | 13 | 88 | 46 | 430 | 20 |
| 43771 | 173.40 | 175.40 | 2.00 | 0.6 | 124 | 1 | 25 | 21 | 8 | 43 | 37 | 130 | 40 |
| 43772 | 175.40 | 177.80 | 2.40 | 0.8 | 100 | 2 | 19 | 10 | 5 | 37 | 16 | 90 | 17 |
| 43773 | 177.80 | 178.80 | 1.00 | 0.6 | 90 | 2 | 19 | 10 | 5 | 39 | 49 | 60 | 12 |
| 43774 | 178.80 | 179.80 | 1.00 | 0.9 | 95 | 1 | 12 | 9 | 4 | 32 | 3 | 70 | 10 |
| 43775 | 179.80 | 180.80 | 1.00 | 0.7 | 137 | 1 | 26 | 11 | 9 | 54 | 60 | 130 | 10 |
| 43776 | 180.80 | 181.80 | 1.00 | 0.8 | 164 | 2 | 18 | 10 | 10 | 8 | 15 | 210 | 16 |
| 43777 | 181.80 | 183.00 | 1.20 | 0.6 | 134 | 3 | 8 | 7 | 6 | 7 | 32 | 290 | 9 |
| 43778 | 183.00 | 184.00 | 1.00 | 0.9 | 191 | 2 | 9 | 9 | 12 | 7 | 7 | 600 | 9 |
| 43779 | 184.00 | 186.00 | 2.00 | 1.2 | 104 | 2 | 109 | 8 | 7 | 21 | 5 | 110 | 21 |
| 43780 | 186.00 | 187.00 | 1.00 | 1 | 60 | 2 | 44 | 5 | 4 | 25 | 14 | 60 | 18 |

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ASSAY SHEET

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ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43781 | 187.00 | 188.00 | 1.00 | 0.4 | 71 | 4 | 16 | 6 | 2 | 21 | 36 | 35 | 12 |
| 43782 | 188.00 | 189.00 | 1.00 | 0.7 | 96 | 2 | 15 | 4 | 2 | 41 | 3 | 45 | 8 |
| 43783 | 189.00 | 190.00 | 1.00 | 0.5 | 112 | 3 | 7 | 7 | 1 | 42 | 9 | 70 | 10 |
| 43784 | 190.00 | 190.90 | 0.90 | 0.7 | 74 | 3 | 20 | 8 | 1 | 78 | 2 | 35 | 12 |
| 43785 | 190.90 | 193.00 | 2.10 | 0.5 | 26 | 1 | 15 | 13 | 1 | 39 | 1 | 15 | 14 |
| 43786 | 193.00 | 195.00 | 2.00 | 0.2 | 18 | 2 | 15 | 12 | 1 | 35 | 2 | 35 | 25 |
| 43787 | 195.00 | 197.00 | 2.00 | 0.3 | 16 | 2 | 12 | 13 | 1 | 36 | 1 | 25 | 11 |
| 43788 | 197.00 | 199.00 | 2.00 | 0.4 | 42 | 1 | 7 | 15 | 2 | 30 | 3 | 35 | 21 |
| 43789 | 199.00 | 200.40 | 1.40 | 0.9 | 37 | 3 | 9 | 24 | 4 | 87 | 4 | 40 | 18 |
| 43790 | 200.40 | 201.80 | 1.40 | 0.3 | 18 | 2 | 15 | 10 | 1 | 26 | 1 | 15 | 30 |

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HOLE NUMBER: CL-91-06

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43705 | 28.50 | 30.50 | 2.00 | 1.1 | 47 | 6 | 24 | 21 | 2 | 48 | 2 | 65 | 12 |
| 43706 | 32.50 | 34.50 | 2.00 | 1.6 | 39 | 1 | 11 | 14 | 4 | 30 | 1 | 45 | 18 |
| 43707 | 36.50 | 38.50 | 2.00 | 1 | 24 | 2 | 15 | 15 | 1 | 33 | 1 | 40 | 12 |
| 43708 | 40.50 | 42.50 | 2.00 | 0.8 | 27 | 2 | 16 | 20 | 1 | 54 | 1 | 50 | 14 |
| 43709 | 44.50 | 46.50 | 2.00 | 1.1 | 27 | 2 | 14 | 19 | 1 | 30 | 2 | 35 | 20 |
| 43710 | 48.00 | 49.00 | 1.00 | 0.9 | 21 | 1 | 11 | 16 | 1 | 39 | 1 | 40 | 3 |
| 43711 | 49.00 | 51.00 | 2.00 | 0.7 | 109 | 3 | 23 | 14 | 3 | 63 | 12 | 395 | 14 |
| 43712 | 51.00 | 53.00 | 2.00 | 1 | 49 | 2 | 26 | 15 | 1 | 68 | 4 | 350 | 18 |
| 43713 | 53.00 | 55.40 | 2.40 | 0.8 | 54 | 3 | 20 | 12 | 2 | 65 | 2 | 355 | 12 |
| 43714 | 55.40 | 57.00 | 1.60 | 0.2 | 41 | 2 | 30 | 13 | 11 | 78 | 3 | 375 | 9 |
| 43715 | 57.00 | 58.00 | 1.00 | 0.3 | 155 | 3 | 27 | 11 | 10 | 71 | 2 | 430 | 9 |
| 43716 | 58.00 | 60.00 | 2.00 | 1.2 | 273 | 4 | 30 | 17 | 21 | 61 | 1 | 450 | 10 |
| 43717 | 60.00 | 61.60 | 1.60 | 0.4 | 209 | 3 | 26 | 12 | 15 | 71 | 2 | 415 | 14 |
| 43718 | 61.60 | 62.50 | 0.90 | 0.6 | 80 | 4 | 27 | 12 | 29 | 79 | 1 | 1160 | 5 |
| 43719 | 62.50 | 64.50 | 2.00 | 0.6 | 50 | 4 | 30 | 15 | 27 | 76 | 1 | 545 | 8 |
| 43720 | 64.50 | 66.50 | 2.00 | 0.6 | 66 | 3 | 21 | 18 | 32 | 65 | 2 | 510 | 13 |
| 43721 | 66.50 | 68.50 | 2.00 | 0.4 | 70 | 5 | 23 | 15 | 31 | 79 | 1 | 675 | 10 |
| 43722 | 68.50 | 70.50 | 2.00 | 0.5 | 56 | 2 | 23 | 13 | 22 | 68 | 1 | 380 | 13 |
| 43723 | 70.50 | 72.50 | 2.00 | 0.4 | 36 | 4 | 28 | 12 | 17 | 85 | 2 | 405 | 10 |
| 43724 | 72.50 | 74.50 | 2.00 | 0.5 | 131 | 3 | 24 | 17 | 17 | 66 | 1 | 310 | 9 |
| 43725 | 74.50 | 76.50 | 2.00 | 0.5 | 63 | 2 | 26 | 16 | 13 | 67 | 2 | 295 | 7 |
| 43726 | 76.50 | 78.50 | 2.00 | 0.4 | 68 | 2 | 22 | 14 | 14 | 64 | 1 | 315 | 9 |
| 43727 | 78.50 | 80.40 | 1.90 | 0.7 | 42 | 5 | 21 | 14 | 15 | 65 | 1 | 200 | 7 |
| 43728 | 80.40 | 82.50 | 2.10 | 0.6 | 80 | 4 | 73 | 13 | 25 | 67 | 2 | 290 | 16 |
| 43729 | 82.50 | 83.40 | 0.90 | 0.8 | 17 | 3 | 41 | 26 | 12 | 46 | 1 | 155 | 7 |
| 43730 | 83.40 | 85.40 | 2.00 | 0.3 | 38 | 4 | 38 | 15 | 33 | 81 | 2 | 665 | 9 |
| 43731 | 85.40 | 87.40 | 2.00 | 0.7 | 32 | 5 | 34 | 11 | 21 | 80 | 2 | 370 | 6 |
| 43732 | 87.40 | 89.40 | 2.00 | 1 | 54 | 4 | 29 | 15 | 17 | 72 | 2 | 185 | 12 |
| 43733 | 89.40 | 91.50 | 2.10 | 0.7 | 42 | 5 | 24 | 11 | 9 | 72 | 3 | 200 | 9 |
| 43734 | 91.50 | 93.60 | 2.10 | 0.5 | 53 | 4 | 23 | 13 | 23 | 67 | 4 | 300 | 10 |
| 43735 | 93.60 | 96.60 | 3.00 | 0.2 | 96 | 6 | 40 | 21 | 22 | 73 | 2 | 375 | 100 |
| 43736 | 96.60 | 99.20 | 2.60 | 0.3 | 58 | 4 | 28 | 16 | 11 | 65 | 3 | 180 | 13 |
| 43737 | 99.20 | 100.80 | 1.60 | 0.7 | 78 | 4 | 43 | 16 | 13 | 85 | 3 | 385 | 10 |
| 43738 | 100.80 | 102.20 | 1.40 | 0.3 | 51 | 4 | 29 | 12 | 11 | 86 | 7 | 470 | 7 |
| 43739 | 102.20 | 104.20 | 2.00 | 0.3 | 65 | 2 | 171 | 19 | 22 | 83 | 12 | 355 | 11 |
| 43740 | 104.20 | 106.20 | 2.00 | 0.6 | 96 | 2 | 62 | 14 | 15 | 74 | 6 | 205 | 16 |
| 43741 | 106.20 | 108.20 | 2.00 | 1 | 139 | 3 | 49 | 23 | 16 | 81 | 10 | 235 | 9 |
| 43742 | 108.20 | 110.20 | 2.00 | 1.8 | 129 | 2 | 41 | 23 | 15 | 73 | 40 | 260 | 100 |
| 43743 | 110.20 | 112.20 | 2.00 | 0.9 | 141 | 2 | 24 | 13 | 14 | 76 | 23 | 365 | 100 |

HOLE NUMBER: CL-91-06

GEOCHEM. SHEET

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HOLE NUMBER: CL-91-06

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | Fl #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43744 | 112.20 | 114.20 | 2.00 | 1.6 | 118 | 3 | 149 | 27 | 12 | 107 | 47 | 415 | 100 |
| 43745 | 114.20 | 116.20 | 2.00 | 2.6 | 1348 | 2 | 23 | 16 | 62 | 61 | 126 | 455 | 8 |
| 43746 | 116.20 | 118.20 | 2.00 | 1.4 | 369 | 1 | 21 | 14 | 14 | 49 | 118 | 65 | 8 |
| 43747 | 118.20 | 120.10 | 1.90 | 1 | 125 | 2 | 18 | 16 | 9 | 41 | 11 | 75 | 100 |
| 43748 | 120.10 | 122.10 | 2.00 | 0.6 | 23 | 2 | 16 | 18 | 1 | 38 | 15 | 35 | 19 |
| 43749 | 124.10 | 126.10 | 2.00 | 0.5 | 12 | 2 | 11 | 21 | 1 | 38 | 2 | 55 | 9 |
| 43750 | 127.00 | 129.10 | 2.10 | 0.7 | 129 | 3 | 23 | 12 | 4 | 30 | 12 | 45 | 19 |
| 43751 | 131.10 | 133.10 | 2.00 | 0.6 | 72 | 2 | 31 | 21 | 4 | 46 | 9 | 55 | 15 |
| 43752 | 135.10 | 137.10 | 2.00 | 0.6 | 20 | 2 | 12 | 15 | 1 | 34 | 3 | 45 | 14 |
| 43753 | 137.10 | 139.10 | 2.00 | 0.6 | 15 | 1 | 14 | 16 | 1 | 31 | 4 | 35 | 16 |
| 43754 | 139.10 | 141.10 | 2.00 | 0.5 | 24 | 2 | 13 | 16 | 1 | 34 | 2 | 35 | 21 |
| 43755 | 141.10 | 142.20 | 1.10 | 0.4 | 16 | 1 | 13 | 18 | 1 | 36 | 6 | 45 | 8 |
| 43756 | 142.20 | 144.20 | 2.00 | 0.4 | 22 | 2 | 11 | 16 | 1 | 35 | 7 | 55 | 50 |
| 43757 | 144.20 | 146.20 | 2.00 | 1.3 | 26 | 2 | 12 | 25 | 2 | 33 | 2 | 40 | 50 |
| 43758 | 146.20 | 148.20 | 2.00 | 0.5 | 30 | 1 | 15 | 23 | 3 | 34 | 1 | 15 | 50 |
| 43759 | 148.20 | 150.00 | 1.80 | 0.3 | 42 | 2 | 17 | 19 | 3 | 36 | 4 | 50 | 50 |
| 43760 | 150.00 | 152.00 | 2.00 | 0.4 | 37 | 3 | 24 | 18 | 1 | 45 | 5 | 55 | 50 |
| 43761 | 152.00 | 154.00 | 2.00 | 0.4 | 24 | 2 | 15 | 20 | 1 | 39 | 1 | 45 | 25 |
| 43762 | 154.00 | 156.00 | 2.00 | 0.5 | 37 | 2 | 14 | 21 | 2 | 35 | 4 | 25 | 15 |
| 43763 | 156.00 | 158.00 | 2.00 | 0.4 | 15 | 2 | 15 | 21 | 1 | 39 | 3 | 35 | 8 |
| 43764 | 158.90 | 160.90 | 2.00 | 0.7 | 83 | 4 | 21 | 19 | 7 | 35 | 8 | 890 | 16 |
| 43765 | 160.90 | 163.20 | 2.30 | 0.5 | 110 | 5 | 18 | 19 | 6 | 52 | 4 | 105 | 21 |
| 43766 | 163.20 | 166.00 | 2.80 | 0.9 | 154 | 2 | 23 | 14 | 7 | 55 | 56 | 65 | 100 |
| 43767 | 166.00 | 168.00 | 2.00 | 1 | 175 | 4 | 14 | 14 | 13 | 36 | 18 | 100 | 20 |
| 43768 | 168.00 | 169.50 | 1.50 | 1.3 | 334 | 2 | 18 | 17 | 26 | 42 | 57 | 2100 | 100 |
| 43769 | 169.50 | 171.50 | 2.00 | 0.7 | 91 | 2 | 81 | 85 | 6 | 71 | 59 | 185 | 28 |
| 43770 | 171.50 | 173.40 | 1.90 | 1 | 206 | 2 | 18 | 11 | 13 | 88 | 46 | 430 | 20 |
| 43771 | 173.40 | 175.40 | 2.00 | 0.6 | 124 | 1 | 25 | 21 | 8 | 43 | 37 | 130 | 40 |
| 43772 | 175.40 | 177.80 | 2.40 | 0.8 | 100 | 2 | 19 | 10 | 5 | 37 | 16 | 90 | 17 |
| 43773 | 177.80 | 178.80 | 1.00 | 0.6 | 90 | 2 | 19 | 10 | 5 | 39 | 49 | 60 | 12 |
| 43774 | 178.80 | 179.80 | 1.00 | 0.9 | 95 | 1 | 12 | 9 | 4 | 32 | 3 | 70 | 10 |
| 43775 | 179.80 | 180.80 | 1.00 | 0.7 | 137 | 1 | 26 | 11 | 9 | 54 | 60 | 130 | 10 |
| 43776 | 180.80 | 181.80 | 1.00 | 0.8 | 164 | 2 | 18 | 10 | 10 | 8 | 15 | 210 | 16 |
| 43777 | 181.80 | 183.00 | 1.20 | 0.6 | 134 | 3 | 8 | 7 | 6 | 7 | 32 | 290 | 9 |
| 43778 | 183.00 | 184.00 | 1.00 | 0.9 | 191 | 2 | 9 | 9 | 12 | 7 | 7 | 600 | 9 |
| 43779 | 184.00 | 186.00 | 2.00 | 1.2 | 104 | 2 | 109 | 8 | 7 | 21 | 5 | 110 | 21 |
| 43780 | 186.00 | 187.00 | 1.00 | 1 | 60 | 2 | 44 | 5 | 4 | 25 | 14 | 60 | 18 |
| 43781 | 187.00 | 188.00 | 1.00 | 0.4 | 71 | 4 | 16 | 6 | 2 | 21 | 36 | 35 | 12 |

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GEOCHEM. SHEET

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GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43782 | 188.00 | 189.00 | 1.00 | 0.7 | 96 | 2 | 15 | 4 | 2 | 41 | 3 | 45 | 8 |
| 43783 | 189.00 | 190.00 | 1.00 | 0.5 | 112 | 3 | 7 | 7 | 1 | 42 | 9 | 70 | 10 |
| 43784 | 190.00 | 190.90 | 0.90 | 0.7 | 74 | 3 | 20 | 8 | 1 | 78 | 2 | 35 | 12 |
| 43785 | 190.90 | 193.00 | 2.10 | 0.5 | 26 | 1 | 15 | 13 | 1 | 39 | 1 | 15 | 14 |
| 43786 | 193.00 | 195.00 | 2.00 | 0.2 | 18 | 2 | 15 | 12 | 1 | 35 | 2 | 35 | 25 |
| 43787 | 195.00 | 197.00 | 2.00 | 0.3 | 16 | 2 | 12 | 13 | 1 | 36 | 1 | 25 | 11 |
| 43788 | 197.00 | 199.00 | 2.00 | 0.4 | 42 | 1 | 7 | 15 | 2 | 30 | 3 | 35 | 21 |
| 43789 | 199.00 | 200.40 | 1.40 | 0.9 | 37 | 3 | 9 | 24 | 4 | 87 | 4 | 40 | 18 |
| 43790 | 200.40 | 201.80 | 1.40 | 0.3 | 18 | 2 | 15 | 10 | 1 | 26 | 1 | 15 | 30 |

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GEOCHEM. SHEET

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HOLE NUMBER: CL-91-06

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| S>= 0.00cm | | | | | | | | | | |
| 57.00 | 59.00 | 2.00 | 50.00 | ***** | 30 | 15.00 | 0 | 0.00 | 0 | |
| 61.00 | 63.00 | 2.00 | 50.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | |
| 65.00 | 67.00 | 2.00 | 40.00 | ***** | 25 | 12.50 | 1 | 0.50 | 0 | |
| 69.00 | 71.00 | 2.00 | 60.00 | ***** | 15 | 7.50 | 1 | 0.50 | 0 | |
| 73.00 | 75.00 | 2.00 | 120.00 | ***** | 11 | 5.50 | 0 | 0.00 | 0 | |
| 77.00 | 79.00 | 2.00 | 60.00 | ***** | 26 | 13.00 | 0 | 0.00 | 0 | |
| 79.00 | 81.40 | 2.40 | 80.00 | ***** | 37 | 15.42 | 0 | 0.00 | 0 | |
| 81.40 | 83.40 | 2.00 | 90.00 | ***** | 23 | 11.50 | 0 | 0.00 | 0 | |
| 83.40 | 85.40 | 2.00 | 80.00 | ***** | 30 | 15.00 | 1 | 0.50 | 0 | |
| 87.40 | 89.40 | 2.00 | 80.00 | ***** | 34 | 17.00 | 0 | 0.00 | 0 | |
| 87.40 | 89.40 | 2.00 | 0.00 | 0.0 | 0 | 0.00 | 0 | 0.00 | 0 | |
| 89.40 | 91.40 | 2.00 | 80.00 | ***** | 24 | 12.00 | 3 | 1.50 | 0 | |
| 91.40 | 92.90 | 1.50 | 40.00 | ***** | 27 | 18.00 | 2 | 1.33 | 0 | |
| 92.90 | 94.90 | 2.00 | 60.00 | ***** | 19 | 9.50 | 0 | 0.00 | 0 | |
| 94.90 | 96.90 | 2.00 | 70.00 | ***** | 13 | 6.50 | 0 | 0.00 | 0 | |
| 96.90 | 98.90 | 2.00 | 70.00 | ***** | 14 | 7.00 | 1 | 0.50 | 0 | |
| 98.90 | 99.70 | 0.80 | 60.00 | ***** | 11 | 13.75 | 0 | 0.00 | 0 | |
| 99.70 | 101.20 | 1.50 | 40.00 | ***** | 13 | 8.67 | 0 | 0.00 | 0 | |
| 101.20 | 102.00 | 0.80 | 11.00 | ***** | 14 | 17.50 | 0 | 0.00 | 0 | |
| 102.00 | 103.90 | 1.90 | 70.00 | ***** | 32 | 16.84 | 0 | 0.00 | 0 | |
| 103.90 | 104.90 | 1.00 | 50.00 | ***** | 12 | 12.00 | 0 | 0.00 | 0 | |
| 104.90 | 106.90 | 2.00 | 50.00 | ***** | 26 | 13.00 | 0 | 0.00 | 0 | |
| 106.90 | 108.80 | 1.90 | 20.00 | ***** | 39 | 20.53 | 1 | 0.53 | 0 | |
| 108.80 | 110.80 | 2.00 | 10.00 | 500.0 | 37 | 18.50 | 0 | 0.00 | 0 | |
| 110.80 | 112.80 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 112.80 | 114.80 | 2.00 | 20.00 | ***** | 45 | 22.50 | 0 | 0.00 | 0 | |
| 114.80 | 115.00 | 0.20 | 10.00 | ***** | 13 | 65.00 | 0 | 0.00 | 0 | |
| 115.00 | 117.80 | 2.80 | 70.00 | ***** | 32 | 11.43 | 0 | 0.00 | 0 | |
| 117.80 | 119.80 | 2.00 | 40.00 | ***** | 38 | 19.00 | 0 | 0.00 | 0 | |
| 119.80 | 121.80 | 2.00 | 0.00 | 0.0 | 75 | 37.50 | 0 | 0.00 | 0 | |
| 121.80 | 123.70 | 1.90 | 10.00 | 526.3 | 100 | 52.63 | 0 | 0.00 | 1 | |
| 123.70 | 125.80 | 2.10 | 80.00 | ***** | 10 | 4.76 | 2 | 0.95 | 0 | |
| 125.80 | 126.00 | 0.20 | 0.00 | 0.0 | 50 | 250.00 | 2 | 10.00 | 0 | |
| 126.00 | 127.00 | 1.00 | 30.00 | ***** | 2 | 2.00 | 0 | 0.00 | 0 | |
| 127.00 | 127.50 | 0.50 | 20.00 | ***** | 1 | 2.00 | 0 | 0.00 | 0 | |
| 127.50 | 129.50 | 2.00 | 80.00 | ***** | 12 | 6.00 | 1 | 0.50 | 0 | |
| 129.50 | 130.90 | 1.40 | 80.00 | ***** | 12 | 8.57 | 0 | 0.00 | 0 | |
| 130.90 | 132.00 | 1.10 | 80.00 | ***** | 3 | 2.73 | 1 | 0.91 | 0 | |
| 132.00 | 132.50 | 0.50 | 30.00 | ***** | 3 | 6.00 | 2 | 4.00 | 0 | |
| 132.50 | 134.50 | 2.00 | 60.00 | ***** | 25 | 12.50 | 1 | 0.50 | 0 | |
| 134.50 | 136.50 | 2.00 | 80.00 | ***** | 21 | 10.50 | 2 | 1.00 | 0 | |
| 136.50 | 138.50 | 2.00 | 70.00 | ***** | 23 | 11.50 | 0 | 0.00 | 0 | |
| 138.50 | 140.50 | 2.00 | 50.00 | ***** | 32 | 16.00 | 0 | 0.00 | 0 | |
| 140.50 | 140.90 | 0.40 | 20.00 | ***** | 50 | 125.00 | 1 | 2.50 | 0 | |

HOLE NUMBER: CL-91-06

RQD ASSAY

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HOLE NUMBER: CL-91-06

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| S>= 0.00cm | | | | | | | | | | |
| 140.90 | 142.90 | 2.00 | 70.00 | ***** | 40 | 20.00 | 1 | 0.50 | 0 | |
| 142.90 | 143.90 | 1.00 | 60.00 | ***** | 21 | 21.00 | 1 | 1.00 | 0 | |
| 143.90 | 144.90 | 1.00 | 30.00 | ***** | 23 | 23.00 | 0 | 0.00 | 0 | |
| 144.90 | 146.90 | 2.00 | 60.00 | ***** | 37 | 18.50 | 0 | 0.00 | 0 | |
| 146.90 | 148.90 | 2.00 | 60.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | |
| 148.90 | 149.50 | 0.60 | 0.00 | 0.0 | 11 | 18.33 | 1 | 1.67 | 0 | |
| 149.50 | 151.30 | 1.80 | 70.00 | ***** | 19 | 10.56 | 0 | 0.00 | 0 | BX |
| 151.30 | 153.30 | 2.00 | 90.00 | ***** | 27 | 13.50 | 0 | 0.00 | 0 | BX |
| 153.30 | 155.30 | 2.00 | 40.00 | ***** | 31 | 15.50 | 0 | 0.00 | 0 | BX |
| 155.30 | 157.30 | 2.00 | 50.00 | ***** | 26 | 13.00 | 1 | 0.50 | 0 | |
| 157.30 | 159.30 | 2.00 | 40.00 | ***** | 30 | 15.00 | 1 | 0.50 | 0 | |
| 159.30 | 160.80 | 1.50 | 30.00 | ***** | 50 | 33.33 | 2 | 1.33 | 0 | |
| 160.80 | 162.80 | 2.00 | 50.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | BX |
| 162.80 | 163.80 | 1.00 | 50.00 | ***** | 50 | 50.00 | 0 | 0.00 | 0 | CCN |
| 163.80 | 164.80 | 1.00 | 0.00 | 0.0 | 35 | 35.00 | 1 | 1.00 | 0 | |
| 164.80 | 165.70 | 0.90 | 40.00 | ***** | 15 | 16.67 | 0 | 0.00 | 0 | |
| 165.70 | 166.70 | 1.00 | 10.00 | ***** | 24 | 24.00 | 2 | 2.00 | 0 | |
| 166.70 | 168.00 | 1.30 | 30.00 | ***** | 16 | 12.31 | 0 | 0.00 | 0 | BX |
| 168.00 | 169.20 | 1.20 | 40.00 | ***** | 10 | 8.33 | 0 | 0.00 | 0 | BX |
| 169.20 | 170.50 | 1.30 | 30.00 | ***** | 18 | 13.85 | 1 | 0.77 | 0 | |
| 170.50 | 171.50 | 1.00 | 20.00 | ***** | 6 | 6.00 | 0 | 0.00 | 0 | |
| 171.50 | 172.00 | 0.50 | 20.00 | ***** | 4 | 8.00 | 1 | 2.00 | 0 | |
| 172.00 | 172.60 | 0.60 | 0.00 | 0.0 | 4 | 6.67 | 1 | 1.67 | 0 | |
| 172.60 | 175.50 | 2.90 | 50.00 | ***** | 100 | 34.48 | 0 | 0.00 | 0 | CCN |
| 175.50 | 178.60 | 3.10 | 40.00 | ***** | 100 | 32.26 | 0 | 0.00 | 0 | BX |
| 178.60 | 181.60 | 3.00 | 120.00 | ***** | 37 | 12.33 | 0 | 0.00 | 0 | |
| 181.60 | 184.60 | 3.00 | 140.00 | ***** | 30 | 10.00 | 0 | 0.00 | 0 | CACAO3 |
| 184.60 | 187.60 | 3.00 | 150.00 | ***** | 19 | 6.33 | 3 | 1.00 | 0 | |
| 187.60 | 190.40 | 2.80 | 150.00 | ***** | 31 | 11.07 | 1 | 0.36 | 0 | |

HOLE NUMBER: CL-91-06

RQD ASSAY

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HOLE NUMBER: CL-91-07

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: CLISBAKO
PROJECT NUMBER: 667
CLAIM NUMBER:
LOCATION: CENTRAL ZONE

PLOTTING COORDS GRID:
NORTH: 40925.00N
EAST: 9874.00E
ELEV: 1312.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -50° 0' 0"
LENGTH OF THE HOLE: 183.50m
START DEPTH: 0.00m
FINAL DEPTH: 183.50m

COLLAR GRID AZIMUTH: 270° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 270° 0' 0"

DATE STARTED: August 22, 1991
DATE COMPLETED: August 23, 1991
DATE LOGGED: August 28, 1991

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING LTD.
CASING: 10" LEFT IN HOLE
CORE STORAGE: CAMP

PURPOSE:

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 33.80 | - | -51° 0' | ACID | OK | | - | - | - | - | - | |
| 96.30 | - | -54° 0' | ACID | OK | | - | - | - | - | - | |
| 183.50 | - | -56° 0' | ACID | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

HOLE NUMBER: CL-91-07

DRILL HOLE RECORD

LOGGED BY: PETER THIRSCH

PAGE: 1

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-07

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--------------------|---|-------------|---|--------------------------------|---------|
| 0.00 TO 31.10 | «CASING» | Overburden | | | | |
| 31.10 TO 35.30 | «OXIDATION ZONE» | Yellow-brown. Limonitic stained flow-banded latite? | | «M SIL, S LIM» | None. | |
| 35.30 TO 35.80 | «FAULT» | Brown. 90% clay gouge | | | | |
| 35.80 TO 40.00 | «LATITE» | Grey. Strongly argillically altered flow-banded latite. Feldspars gone to green clay or chlorite. Flow banding @ Strong c.g. calcite stockwork veining is barren of any sulphides. | 30 | «S ARG» is pervasive «W CHL» alteration of feldspar phenos | None | |
| 40.00 TO 47.20 | «FAULT STWK» | Grey. Gougy zone in flow banded latite is moderately stockwork veined by barren calcite. Interval is about 30% gouge. | | «S-X ARG» is patchy, fault-controlled. «W CHL» alteration of feldspar phenos. | | |
| 47.20 TO 49.80 | «FAULT» | 70% clay gouge. | | «I-X ARG» | | |
| 49.80 TO 51.70 | «RHYOLITE BRECCIA» | Dark grey. f.g. dark aphanitic unaltered rhyolite? breccia. | | «M SIL» | | |
| 51.70 TO 74.60 | «TUFF BRECCIA» | Pale green. Mixed lapilli to block breccia of locally amygdaloidal feldspar (hornblende) porphyry and perlitic rhyolite. Porphyry fragments dominate except at upper and lower contacts. Weak calcite stringers throughout. | | «S-X ARG» Interval is highly fractured and argillized, almost 50% is clay-rich gouge. «M CHL» filling minor amygdules. | None. | |
| 74.60 TO 76.80 | «FAULT» | 80% clay gouge. | | «X ARG» | | |
| 76.80 TO 78.70 | «RHYOLITE FLOW» | Dark grey aphanitic. Dark siliceous flow-banded rhyolite. Hairline fractures contain hematite w/ trace pyrite, alteration selvages of chlorite. | 45 - 60 | «S SIL» pervasive. «M CHL» associated with «M HEM» in hairline fractures. | «Tr Py» in hairline fractures. | |

HOLE NUMBER: CL-91-07

DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-07

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|-------------|--|---|---------|
| 78.70 TO 84.80 | «HEMATITE BRECCIA» | Red and green. Hematitic breccia of siliceous banded rhyolite frags and strongly argillized amygdaloidal frags. Hematitic matrix is moderately silicified. | | «S HEM» of breccia matrix. «S ARG» of non-rhyolite fragments. «M SIL» of hematitic matrix. Minor patchy chloritization. «M CHL» | «Tr Py» in chloritized fragments. | |
| 84.80 TO 93.20 | «FAULT» | Grey green. Wide zone of intense fracturing and argillization through above hematitic rhyolite breccia. | | «X ARG» 70% clay gouge. | None. | |
| 93.20 TO 99.80 | «LAPILLI BRECCIA» | Pale green. Interbedded lapilli breccia and bedded lithic tuffs and wackes. Bedding @ | 50 | «S-I ARG» 40% of interval is clay rich gouge. | None. | |
| 99.80 TO 100.90 | «FAULT» | Pale green. 80% clay gouge within above unit @ | 20 | | | |
| 100.90 TO 116.20 | «PERLITE» ‡115.8-116.2‡ | Pale grey. Aphanitic. Classic perlite with spherulitic and net fracture textures and local brecciation. | | «M SIL» Bleached zone of «M ARG» and disseminated pyrite. | «1% py» as euhedral disseminated crystals. | |
| 116.20 TO 141.80 | «FLOW/BRECCIA» ‡132.2-137.3‡ «FAULT ZONE» ‡137.3-141.8‡ | Red and grey, aphanitic. A mixed interval of interbedded hematitic tuff breccia, flow-banded and massive (non-banded) rhyolite and minor pseudo-perlitic breccias. Upper and lower contacts are most strongly hematitic. Highly fractured zone, minor gouge. «M PY STWK» Weak pyrite stockwork. | | «M SIL, M ARG» locally «M HEM» «S SIL» | «1% Py» as irregular blebs and late fracture fill. «1% Py» in late stringers. | |
| 141.80 TO 152.00 | «QZ-PY STWK» ‡151.4-152.0‡ «JIGSAW BRECCIA» | Pale grey. Weak to moderate pyritic quartz stockwork. Host rock is feldspar porphyry? Strong argillic alteration and disseminated chlorite and pyrite make identification difficult. Intense stockwork to jigsaw breccia. Lower vein contact @ is vuggy drusy pyritic white quartz vein 1 cm in width. | 20 | «M-S ARG» is pervasive. «M-S SIL» is patchy. «M CHL» is disseminated with blebby pyrite. «S-I SIL» | «1-3% Py» as disseminated crystals and blebs, and in stockwork stringers. «3% Py» in quartz stringers and replacing chloritized wall rock frags. | |

HOLE NUMBER: CL-91-07

DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-07

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--------------------------------------|--|-------------|----------------------|--------------------------------|---------|
| 152.00 TO 171.30 | «RHYOLITE» | Pale green aphanitic, generally massive rhyolite, with minor flow banding and pseudo-perlitic net fracture textures. | | «S SIL» | «Tr Py» | |
| | ‡152.0-155.0‡ «W PY STWK» | Weak pyrite stockwork. | | «S SIL» | «1% Py» in quartz stringers | |
| | ‡157.9-160.7‡ «HEMATITIC BRECCIA» | Mildly disrupted and hematized. | | | | |
| 171.30 TO 175.10 | «W PY STWK» | Pale green. Strongly bleached zone of argillic alteration and weak pyrite stockwork veining. Sparse stringers are semi-massive pyrite. | | «M-S ARG» «M SIL» | «1.3% Py» in quartz stringers. | |
| 175.10 TO 182.70 | «AMYGDALOID FLOW» | Green. Amygdaloidal feldspar porphyry, amygdules flattened and filled by chlorite @ | 50 | «M-S ARG» «W CHL» | None. | |
| 182.70 TO 183.50 | «RHYOLITE» | Weakly perlitic and flow banded rhyolite. Banding @ | 45 | «S ARG» «W CHL» | None. | |
| | 183.5 m | EOH | | | | |

HOLE NUMBER: CL-91-07

DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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HOLE NUMBER: CL-91-07

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 44320 | 31.10 | 33.80 | 2.70 | 0.1 | 110 | 2 | 20 | 18 | 1 | 94 | 22 | 225 | 100 | |
| 44321 | 33.80 | 35.80 | 2.00 | 0.4 | 123 | 2 | 26 | 19 | 1 | 82 | 43 | 545 | 50 | |
| 44322 | 35.80 | 37.00 | 1.20 | 1 | 43 | 1 | 8 | 15 | 1 | 23 | 6 | 165 | 50 | |
| 44323 | 37.00 | 38.00 | 1.00 | 1.2 | 50 | 3 | 7 | 23 | 1 | 20 | 3 | 55 | 16 | |
| 44324 | 38.00 | 40.00 | 2.00 | 0.6 | 41 | 1 | 18 | 24 | 1 | 38 | 14 | 140 | 35 | |
| 44325 | 40.00 | 41.50 | 1.50 | 0.4 | 44 | 1 | 20 | 21 | 1 | 43 | 5 | 145 | 20 | |
| 44326 | 41.50 | 43.00 | 1.50 | 0.3 | 43 | 1 | 21 | 22 | 1 | 41 | 2 | 130 | 23 | |
| 44327 | 43.00 | 45.20 | 2.20 | 0.4 | 56 | 1 | 19 | 26 | 1 | 39 | 9 | 115 | 42 | |
| 44328 | 45.20 | 47.20 | 2.00 | 0.5 | 52 | 2 | 17 | 20 | 1 | 35 | 4 | 125 | 60 | |
| 44329 | 47.20 | 49.80 | 2.60 | 0.4 | 46 | 1 | 21 | 25 | 1 | 45 | 2 | 115 | 100 | |
| 44330 | 49.80 | 51.70 | 1.90 | 0.5 | 40 | 1 | 19 | 23 | 1 | 44 | 1 | 85 | 50 | |
| 44331 | 51.70 | 53.70 | 2.00 | 0.3 | 39 | 1 | 22 | 22 | 1 | 42 | 2 | 105 | 35 | |
| 44332 | 56.50 | 58.50 | 2.00 | 0.4 | 27 | 1 | 21 | 17 | 1 | 41 | 1 | 75 | 33 | |
| 44333 | 60.50 | 62.50 | 2.00 | 0.3 | 13 | 1 | 14 | 18 | 1 | 35 | 3 | 85 | 25 | |
| 44334 | 64.50 | 66.50 | 2.00 | 0.4 | 20 | 1 | 16 | 22 | 1 | 38 | 3 | 85 | 31 | |
| 44335 | 68.50 | 70.50 | 2.00 | 0.3 | 16 | 1 | 18 | 22 | 1 | 41 | 1 | 135 | 50 | |
| 44336 | 72.50 | 74.60 | 2.10 | 0.5 | 26 | 1 | 24 | 20 | 1 | 41 | 2 | 75 | 17 | |
| 44337 | 78.70 | 80.70 | 2.00 | 0.5 | 22 | 2 | 21 | 20 | 1 | 42 | 1 | 65 | 19 | |
| 44338 | 82.70 | 84.70 | 2.00 | 0.4 | 17 | 1 | 21 | 24 | 1 | 38 | 2 | 70 | 14 | |
| 44339 | 88.80 | 90.70 | 1.90 | 0.4 | 24 | 1 | 28 | 22 | 1 | 45 | 2 | 115 | 27 | |
| 44340 | 96.50 | 98.50 | 2.00 | 0.2 | 16 | 1 | 17 | 22 | 3 | 44 | 1 | 40 | 21 | |
| 44341 | 101.00 | 103.00 | 2.00 | 0.2 | 46 | 1 | 23 | 21 | 1 | 48 | 5 | 105 | 42 | |
| 44342 | 105.00 | 107.00 | 2.00 | 0.3 | 36 | 1 | 24 | 23 | 2 | 49 | 2 | 115 | 40 | |
| 44343 | 109.00 | 111.00 | 2.00 | 0.1 | 16 | 1 | 22 | 24 | 1 | 50 | 2 | 90 | 16 | |
| 44344 | 115.20 | 116.20 | 1.00 | 0.8 | 331 | 1 | 18 | 17 | 8 | 34 | 40 | 85 | 7 | |
| 44345 | 120.00 | 122.00 | 2.00 | 0.2 | 57 | 3 | 21 | 20 | 2 | 43 | 22 | 130 | 28 | |
| 44346 | 122.00 | 124.00 | 2.00 | 0.3 | 64 | 1 | 23 | 20 | 5 | 48 | 5 | 125 | 19 | |
| 44347 | 137.30 | 139.70 | 2.40 | 0.2 | 72 | 1 | 22 | 18 | 4 | 42 | 17 | 110 | 33 | |
| 44348 | 139.70 | 141.80 | 2.10 | 0.6 | 207 | 1 | 14 | 14 | 7 | 35 | 35 | 145 | 30 | |
| 44349 | 141.80 | 143.80 | 2.00 | 0.8 | 351 | 1 | 18 | 19 | 12 | 46 | 38 | 205 | 20 | |
| 44350 | 143.80 | 145.90 | 2.10 | 0.9 | 372 | 1 | 18 | 2104 | 14 | 45 | 38 | 340 | 35 | |
| 44351 | 149.40 | 151.40 | 2.00 | 1.2 | 221 | 2 | 21 | 19 | 6 | 43 | 41 | 120 | 16 | |
| 44352 | 151.40 | 152.00 | 0.60 | 2.5 | 178 | 1 | 20 | 41 | 3 | 39 | 43 | 65 | 6 | |
| 44353 | 152.00 | 154.00 | 2.00 | 1.9 | 106 | 2 | 51 | 33 | 1 | 53 | 28 | 55 | 40 | |
| 44354 | 154.00 | 156.00 | 2.00 | 1.7 | 109 | 1 | 36 | 32 | 1 | 52 | 36 | 90 | 15 | |
| 44355 | 160.00 | 162.00 | 2.00 | 1 | 46 | 1 | 23 | 21 | 1 | 49 | 11 | 45 | 9 | |
| 44356 | 169.30 | 171.30 | 2.00 | 0.7 | 54 | 1 | 23 | 21 | 1 | 47 | 15 | 65 | 14 | |
| 44357 | 171.30 | 173.30 | 2.00 | 1 | 207 | 1 | 29 | 22 | 7 | 48 | 8 | 75 | 12 | |

HOLE NUMBER: CL-91-07

ASSAY SHEET

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HOLE NUMBER: CL-91-07

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|----------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 44358 | 173.30 | 175.10 | 1.80 | 1.1 | 184 | 1 | 18 | 16 | 5 | 43 | 17 | 140 | 19 |
| 44359 | 175.10 | 177.10 | 2.00 | 0.7 | 30 | 2 | 24 | 20 | 1 | 50 | 1 | 55 | 7 |
| 44360 | 179.00 | 181.00 | 2.00 | 0.5 | 29 | 2 | 21 | 25 | 1 | 46 | 3 | 75 | 12 |

HOLE NUMBER: CL-91-07

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44320 | 31.10 | 33.80 | 2.70 | 0.1 | 110 | 2 | 20 | 18 | 1 | 94 | 22 | 225 | 100 |
| 44321 | 33.80 | 35.80 | 2.00 | 0.4 | 123 | 2 | 26 | 19 | 1 | 82 | 43 | 545 | 50 |
| 44322 | 35.80 | 37.00 | 1.20 | 1 | 43 | 1 | 8 | 15 | 1 | 23 | 6 | 165 | 50 |
| 44323 | 37.00 | 38.00 | 1.00 | 1.2 | 50 | 3 | 7 | 23 | 1 | 20 | 3 | 55 | 16 |
| 44324 | 38.00 | 40.00 | 2.00 | 0.6 | 41 | 1 | 18 | 24 | 1 | 38 | 14 | 140 | 35 |
| 44325 | 40.00 | 41.50 | 1.50 | 0.4 | 44 | 1 | 20 | 21 | 1 | 43 | 5 | 145 | 20 |
| 44326 | 41.50 | 43.00 | 1.50 | 0.3 | 43 | 1 | 21 | 22 | 1 | 41 | 2 | 130 | 23 |
| 44327 | 43.00 | 45.20 | 2.20 | 0.4 | 56 | 1 | 19 | 26 | 1 | 39 | 9 | 115 | 42 |
| 44328 | 45.20 | 47.20 | 2.00 | 0.5 | 52 | 2 | 17 | 20 | 1 | 35 | 4 | 125 | 60 |
| 44329 | 47.20 | 49.80 | 2.60 | 0.4 | 46 | 1 | 21 | 25 | 1 | 45 | 2 | 115 | 100 |
| 44330 | 49.80 | 51.70 | 1.90 | 0.5 | 40 | 1 | 19 | 23 | 1 | 44 | 1 | 85 | 50 |
| 44331 | 51.70 | 53.70 | 2.00 | 0.3 | 39 | 1 | 22 | 22 | 1 | 42 | 2 | 105 | 35 |
| 44332 | 56.50 | 58.50 | 2.00 | 0.4 | 27 | 1 | 21 | 17 | 1 | 41 | 1 | 75 | 33 |
| 44333 | 60.50 | 62.50 | 2.00 | 0.3 | 13 | 1 | 14 | 18 | 1 | 35 | 3 | 85 | 25 |
| 44334 | 64.50 | 66.50 | 2.00 | 0.4 | 20 | 1 | 16 | 22 | 1 | 38 | 3 | 85 | 31 |
| 44335 | 68.50 | 70.50 | 2.00 | 0.3 | 16 | 1 | 18 | 22 | 1 | 41 | 1 | 135 | 50 |
| 44336 | 72.50 | 74.60 | 2.10 | 0.5 | 26 | 1 | 24 | 20 | 1 | 41 | 2 | 75 | 17 |
| 44337 | 78.70 | 80.70 | 2.00 | 0.5 | 22 | 2 | 21 | 20 | 1 | 42 | 1 | 65 | 19 |
| 44338 | 82.70 | 84.70 | 2.00 | 0.4 | 17 | 1 | 21 | 24 | 1 | 38 | 2 | 70 | 14 |
| 44339 | 88.80 | 90.70 | 1.90 | 0.4 | 24 | 1 | 28 | 22 | 1 | 45 | 2 | 115 | 27 |
| 44340 | 96.50 | 98.50 | 2.00 | 0.2 | 16 | 1 | 17 | 22 | 3 | 44 | 1 | 40 | 21 |
| 44341 | 101.00 | 103.00 | 2.00 | 0.2 | 46 | 1 | 23 | 21 | 1 | 48 | 5 | 105 | 42 |
| 44342 | 105.00 | 107.00 | 2.00 | 0.3 | 36 | 1 | 24 | 23 | 2 | 49 | 2 | 115 | 40 |
| 44343 | 109.00 | 111.00 | 2.00 | 0.1 | 16 | 1 | 22 | 24 | 1 | 50 | 2 | 90 | 16 |
| 44344 | 115.20 | 116.20 | 1.00 | 0.8 | 331 | 1 | 18 | 17 | 8 | 34 | 40 | 85 | 7 |
| 44345 | 120.00 | 122.00 | 2.00 | 0.2 | 57 | 3 | 21 | 20 | 2 | 43 | 22 | 130 | 28 |
| 44346 | 122.00 | 124.00 | 2.00 | 0.3 | 64 | 1 | 23 | 20 | 5 | 48 | 5 | 125 | 19 |
| 44347 | 137.30 | 139.70 | 2.40 | 0.2 | 72 | 1 | 22 | 18 | 4 | 42 | 17 | 110 | 33 |
| 44348 | 139.70 | 141.80 | 2.10 | 0.6 | 207 | 1 | 14 | 14 | 7 | 35 | 35 | 145 | 30 |
| 44349 | 141.80 | 143.80 | 2.00 | 0.8 | 351 | 1 | 18 | 19 | 12 | 46 | 38 | 205 | 20 |
| 44350 | 143.80 | 145.90 | 2.10 | 0.9 | 372 | 1 | 18 | 2104 | 14 | 45 | 38 | 340 | 35 |
| 44351 | 149.40 | 151.40 | 2.00 | 1.2 | 221 | 2 | 21 | 19 | 6 | 43 | 41 | 120 | 16 |
| 44352 | 151.40 | 152.00 | 0.60 | 2.5 | 178 | 1 | 20 | 41 | 3 | 39 | 43 | 65 | 6 |
| 44353 | 152.00 | 154.00 | 2.00 | 1.9 | 106 | 2 | 51 | 33 | 1 | 53 | 28 | 55 | 40 |
| 44354 | 154.00 | 156.00 | 2.00 | 1.7 | 109 | 1 | 36 | 32 | 1 | 52 | 36 | 90 | 15 |
| 44355 | 160.00 | 162.00 | 2.00 | 1 | 46 | 1 | 23 | 21 | 1 | 49 | 11 | 45 | 9 |
| 44356 | 169.30 | 171.30 | 2.00 | 0.7 | 54 | 1 | 23 | 21 | 1 | 47 | 15 | 65 | 14 |
| 44357 | 171.30 | 173.30 | 2.00 | 1 | 207 | 1 | 29 | 22 | 7 | 48 | 8 | 75 | 12 |
| 44358 | 173.30 | 175.10 | 1.80 | 1.1 | 184 | 1 | 18 | 16 | 5 | 43 | 17 | 140 | 19 |

HOLE NUMBER: CL-91-07

GEOCHEM. SHEET

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HOLE NUMBER: CL-91-07

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44359 | 175.10 | 177.10 | 2.00 | 0.7 | 30 | 2 | 24 | 20 | 1 | 50 | 1 | 55 | 7 |
| 44360 | 179.00 | 181.00 | 2.00 | 0.5 | 29 | 2 | 21 | 25 | 1 | 46 | 3 | 75 | 12 |

HOLE NUMBER: CL-91-07

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| S>= 0.00cm | | | | | | | | | | |
| 27.40 | 29.40 | 2.00 | 40.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | |
| 29.40 | 31.00 | 1.60 | 20.00 | ***** | 40 | 25.00 | 4 | 2.50 | 0 | |
| 31.00 | 32.60 | 1.60 | 30.00 | ***** | 50 | 31.25 | 1 | 0.63 | 0 | |
| 32.60 | 34.90 | 2.30 | 37.50 | ***** | 20 | 8.70 | 100 | 43.48 | 0 | |
| 34.90 | 37.50 | 2.60 | 20.00 | 769.2 | 100 | 38.46 | 0 | 0.00 | 0 | |
| 37.50 | 38.00 | 0.50 | 0.00 | 0.0 | 20 | 40.00 | 0 | 0.00 | 0 | |
| 38.00 | 39.80 | 1.80 | 20.00 | ***** | 17 | 9.44 | 0 | 0.00 | 0 | |
| 39.80 | 40.10 | 0.30 | 0.00 | 0.0 | 20 | 66.67 | 0 | 0.00 | 0 | |
| 40.10 | 41.00 | 0.90 | 10.00 | ***** | 24 | 26.67 | 0 | 0.00 | 0 | |
| 41.00 | 42.90 | 1.90 | 70.00 | ***** | 28 | 14.74 | 1 | 0.53 | 0 | |
| 42.90 | 43.90 | 1.00 | 50.00 | ***** | 17 | 17.00 | 3 | 3.00 | 0 | |
| 43.90 | 45.90 | 2.00 | 30.00 | ***** | 100 | 50.00 | 0 | 0.00 | 4 | |
| 45.90 | 46.90 | 1.00 | 10.00 | ***** | 60 | 60.00 | 3 | 3.00 | 0 | |
| 46.90 | 48.90 | 2.00 | 40.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | |
| 48.90 | 49.50 | 0.60 | 0.00 | 0.0 | 100 | 166.67 | 0 | 0.00 | 1 | |
| 49.50 | 51.40 | 1.90 | 40.00 | ***** | 50 | 26.32 | 1 | 0.53 | 0 | |
| 51.40 | 53.60 | 2.20 | 70.00 | ***** | 40 | 18.18 | 0 | 0.00 | 0 | |
| 53.60 | 55.60 | 2.00 | 40.00 | ***** | 30 | 15.00 | 1 | 0.50 | 0 | |
| 55.60 | 57.60 | 2.00 | 100.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | |
| 57.60 | 58.40 | 0.80 | 40.00 | ***** | 8 | 10.00 | 0 | 0.00 | 0 | |
| 58.40 | 59.30 | 0.90 | 40.00 | ***** | 19 | 21.11 | 0 | 0.00 | 0 | |
| 59.30 | 59.70 | 0.40 | 20.00 | ***** | 6 | 15.00 | 0 | 0.00 | 0 | |
| 64.90 | 66.90 | 2.00 | 80.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | |
| 66.90 | 67.80 | 0.90 | 40.00 | ***** | 8 | 8.89 | 0 | 0.00 | 0 | |
| 67.80 | 69.80 | 2.00 | 120.00 | ***** | 38 | 19.00 | 0 | 0.00 | 0 | |
| 69.80 | 70.80 | 1.00 | 80.00 | ***** | 11 | 11.00 | 2 | 2.00 | 0 | |
| 70.80 | 72.80 | 2.00 | 30.00 | ***** | 50 | 25.00 | 5 | 2.50 | 0 | |
| 72.80 | 74.50 | 1.70 | 50.00 | ***** | 30 | 17.65 | 6 | 3.53 | 0 | |
| 76.50 | 78.10 | 1.60 | 50.00 | ***** | 21 | 13.13 | 5 | 3.13 | 0 | |
| 78.10 | 79.30 | 1.20 | 30.00 | ***** | 50 | 41.67 | 3 | 2.50 | 0 | |
| 79.30 | 81.40 | 2.10 | 90.00 | ***** | 24 | 11.43 | 9 | 4.29 | 0 | |
| 81.40 | 83.40 | 2.00 | 150.00 | ***** | 21 | 10.50 | 3 | 1.50 | 0 | |
| 83.40 | 84.70 | 1.30 | 90.00 | ***** | 10 | 7.69 | 6 | 4.62 | 0 | |
| 84.70 | 85.20 | 0.50 | 0.00 | 0.0 | 20 | 40.00 | 2 | 4.00 | 0 | |
| 85.20 | 86.10 | 0.90 | 25.00 | ***** | 20 | 22.22 | 1 | 1.11 | 0 | |
| 86.10 | 86.30 | 0.20 | 10.00 | ***** | 3 | 15.00 | 1 | 5.00 | 0 | |
| 86.30 | 88.30 | 2.00 | 150.00 | ***** | 18 | 9.00 | 3 | 1.50 | 0 | |
| 88.30 | 89.70 | 1.40 | 70.00 | ***** | 17 | 12.14 | 2 | 1.43 | 0 | |
| 89.70 | 90.00 | 0.30 | 0.00 | 0.0 | 4 | 13.33 | 1 | 3.33 | 0 | |
| 90.00 | 92.00 | 2.00 | 90.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | |
| 92.00 | 94.00 | 2.00 | 120.00 | ***** | 14 | 7.00 | 2 | 1.00 | 0 | |
| 94.00 | 94.50 | 0.50 | 40.00 | ***** | 5 | 10.00 | 1 | 2.00 | 0 | |
| 94.50 | 95.10 | 0.60 | 30.00 | ***** | 5 | 8.33 | 2 | 3.33 | 0 | |
| 95.10 | 96.60 | 1.50 | 140.00 | ***** | 12 | 8.00 | 1 | 0.67 | 0 | |

HOLE NUMBER: CL-91-07

RQD ASSAY

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HOLE NUMBER: CL-91-07

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| | | | S>= 0.00cm | | | | | | | |
| 96.60 | 98.40 | 1.80 | 180.00 | ***** | 5 | 2.78 | 2 | 1.11 | 0 | |
| 98.40 | 99.10 | 0.70 | 60.00 | ***** | 3 | 4.29 | 2 | 2.86 | 0 | |
| 99.10 | 100.40 | 1.30 | 130.00 | ***** | 3 | 2.31 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-07

RQD ASSAY

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|---|-------------|---|---|--|
| 0.00 TO 31.70 | «CASING» | Overburden | | | | |
| 31.70 TO 42.60 | «PERLITE BRECCIA» | Buff, aphanitic. Highly fractured (faulted) interval of devitrified and strongly argillized perlite to perlite breccia. Upper 2m is dominantly breccia with white silicified matrix. | | «S ARG» | None | Perlite "breccia" is basically very dense or advanced "net texture" devitrification, leading to rounded frags in white siliceous matrix. |
| 42.60 TO 59.00 | «BALLIFEROUS PERLITE» ‡46.9-47.1‡ «SIL BX» ‡48.8-50.1‡ «CHL BX» ‡53.7-54.3‡ «FAULT» | Red & green. Same as above unit, but with big (2-6 cm) red (hematitic) alteration balls. Vuggy silicified perlite breccia With minor quartz. 2 cm gouge. | 15 | «S HEM» alteration balls «S CHL» in late fractures and minor jigsaw breccias. «M ARG» is pervasive. «S CHL, W SIL» | «Tr Py» with chlorite. | |
| 59.00 TO 59.30 | «FAULT» | 50% gouge | | | | |
| 59.30 TO 63.10 | «PERLITE BRECCIA» | Pale green, aphanitic. Similar to previous interval of perlite to perlite breccia, no alteration balls. Weakly silicified net texture matrix. | | | | |
| 63.10 TO 72.10 | «BLACK BRECCIA» ‡65.6-69.1‡ | Black & green. Depositional breccia with hydrothermal overprint. Fragments of perlite and black banded rhyolite in black f.g. matrix. Cut by sparse white pyritic quartz stringers. «W PY STWK-FAULT» Weak pyrite stockwork in strongly argillized (fault) zone. | | «M-S ARG» is pervasive. «S-X ARG» in gougy fault zone. | «1% Py» in sparse quartz stringers. «1-2% Py» as mm stringers. | |
| 72.10 TO 73.60 | «HEM BRECCIA» | Red & green. Strongly hematized matrix in depositional breccia of perlite fragments. | | «S HEM» breccia matrix. «W CHL» of fragments. | «Tr Py» in hematitic matrix. | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|--|-------------|---|---|---------|
| 73.60 TO 85.40 | «LATITE BRECCIA» ‡83.6-85.4‡ «FAULT ZONE» | Dark green and buff, f.g. Classic flow-banded latite breccia frags in a strongly chloritic matrix. Breccia is weakly veined by barren quartz stringers. Py blebs are restricted to chloritic matrix. Flow banded @ 3 gougy zones, extensive bleaching | 70 | «M HEM» highlighting flow bands in latite as a "beaded" texture. «S CHL, M SIL» of breccia matrix. «S ARG» | up to «1% Py» in chloritic matrix. | |
| 85.40 TO 86.00 | «PERLITE BRECCIA» | Pale green, f.g. narrow interbed of densely net textured perlite breccia. | | «M ARG» | None. | |
| 86.00 TO 102.40 | «LATITE BRECCIA» ‡86.4-86.7‡ «SIL BRECCIA» ‡86.7-92.0‡ «FRACTURE ZONE» ‡92.0-92.8‡ «PY STWK-FAULT» ‡95.3-96.3‡ «FAULT ZONE» | Green & buff. Similarly classic hematitic flow banded latite frags in chloritic breccia matrix. Slightly less brecciated, more localized jigsaw breccias. Flow banded from Chloritic breccia is silicified and veined by vuggy quartz Highly fractured, minor gouge. Weak pyrite stockwork in narrow fault zone of extreme argillic alteration and 50% clay gouge. 50% clay gouge and extreme argillic alteration. Also minor development of <1 cm alteration balls or spherulites in the chloritic matrix. Balls are totally replaced by yellow clay. | 5-45 | «S CHL, M SIL» of breccia matrix. «I SIL» «X ARG» extreme argillic alteration and fault gouge. «X ARG» overprints remnant «M HEM, W CHL» | «Tr Py» in chloritic breccia matrix. «Tr Py» on late chloritic fractures. «1-2% Py» in disrupted stringers. | |
| 102.40 TO 104.20 | «SIL BRECCIA» | Green. Quartz flooded perlite breccia, sub-angular frags argillically altered; lower half of interval is actually black breccia, similarly quartz flooded. | | «S SIL, M HEM» of breccia matrix. «M ARG» of perlitic frags. | None. | |

HOLE NUMBER: CL-91-08

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|-------------------|--|-------------|---|---|---------|
| 104.20 TO 110.10 | «PERLITE» | Almost perlite breccia with major net texture. | | «M ARG» | None | |
| 110.10 TO 111.20 | «W PY STWK» | Weak pyritic stringers in strongly bleached argillic zone of perlite. | | «S-I ARG» | «1.3% Py» in stringers and c.g. disseminations. | |
| 111.20 TO 121.60 | «TUFF BRECCIA» | Mixed lapilli to block breccia with interbedded tuffaceous layers. Monomictic frags are perlitic. Interval becomes more tuffaceous down section. | | «M ARG, W SIL» | None. | |
| 121.60 TO 122.20 | «FAULT» | 70% clay gouge. | | | | |
| 122.20 TO 125.50 | «PERLITE BRECCIA» | Pale green, aphanitic. Advanced net textures give brecciated appearance. | | «W-M ARG» | None. | |
| 125.50 TO 125.90 | «FAULT» | | | «M-S ARG» | «Tr Py» on fractures. | |
| 125.90 TO 129.00 | «TUFF BRECCIA» | Pale green. Interlayered ash and crystal tuffs with perlitic frags and one large feldspar porphyry block. | | «W ARG, M SIL» | None. | |
| 129.00 TO 130.20 | «SIL BRECCIA» | Pale green. Quartz flooded and veined tuff breccia of perlitic frags in tuffaceous matrix. 10 cm gouge at upper contact. Quartz is vuggy and drusy. | | «S-+/- SIL» | «Tr Marcasite» as mm blades in quartz. | |
| 130.20 TO 137.50 | «PERLITE BRECCIA» | Perlite breccia with white siliceous matrix. | | «M ARG, W SIL» | | |
| 137.50 TO 141.00 | «FAULT-STWK ZONE» | Red & green. Gougy fault zone in hematitic tuff breccia. Frags dominantly perlite. Interval is weakly stockworked with pyritic quartz stringers. One 1 cm vein is vuggy and barren white quartz. | | «S-I ARG» is pervasive. «S SIL» is patchy. Envelopes quartz veins. | «1% Py» in sparse stringers. | |

HOLE NUMBER: CL-91-08

DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

PAGE: 4

HOLE NUMBER: CL-91-08

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------------|----------------------|---|----------------|-----------------|----------------|---------|
| 141.00 TO 147.80 | «PERLITE BRECCIA» | Perlite to perlite breccia with weakly silicified matrix. Single quartz stringers @ 143.6 m shows bladed calcite replacement, no sulphides. | | «W SIL» «M ARG» | None. | |
| | 144.4- 145.6 | "Felty"-looking interval of chloritization. | | «S CHL, M SIL» | | |
| | 147.8 m | EOH | | | | |

HOLE NUMBER: CL-91-08

DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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HOLE NUMBER: CL-91-08

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 44362 | 32.60 | 34.60 | 2.00 | 0.2 | 37 | 2 | 18 | 20 | 1 | 49 | 2 | 115 | 100 | |
| 44363 | 40.60 | 42.60 | 2.00 | 0.6 | 47 | 2 | 21 | 23 | 4 | 45 | 4 | 105 | 35 | |
| 44364 | 42.60 | 44.60 | 2.00 | 0.5 | 20 | 2 | 23 | 24 | 3 | 39 | 2 | 70 | 7 | |
| 44365 | 46.10 | 47.10 | 1.00 | 0.5 | 16 | 2 | 24 | 19 | 1 | 42 | 2 | 75 | 7 | |
| 44366 | 47.10 | 48.80 | 1.70 | 0.1 | 16 | 3 | 23 | 20 | 1 | 76 | 9 | 75 | 7 | |
| 44367 | 48.80 | 50.10 | 1.30 | 0.1 | 2 | 3 | 22 | 24 | 1 | 57 | 2 | 45 | 23 | |
| 44368 | 50.10 | 52.10 | 2.00 | 0.5 | 22 | 2 | 21 | 18 | 1 | 47 | 5 | 55 | 28 | |
| 44369 | 61.10 | 63.10 | 2.00 | 0.5 | 20 | 2 | 22 | 20 | 1 | 53 | 4 | 110 | 23 | |
| 44370 | 63.10 | 65.60 | 2.50 | 1 | 56 | 2 | 20 | 22 | 4 | 55 | 17 | 220 | 18 | |
| 44371 | 65.60 | 67.10 | 1.50 | 1 | 148 | 2 | 30 | 24 | 11 | 43 | 22 | 1350 | 100 | |
| 44372 | 67.10 | 69.10 | 2.00 | 0.9 | 115 | 1 | 24 | 22 | 12 | 42 | 8 | 1310 | 21 | |
| 44373 | 69.10 | 71.10 | 2.00 | 0.6 | 22 | 1 | 17 | 19 | 2 | 48 | 2 | 160 | 27 | |
| 44374 | 71.10 | 72.10 | 1.00 | 1 | 121 | 1 | 14 | 20 | 8 | 43 | 3 | 250 | 15 | |
| 44375 | 72.10 | 73.60 | 1.50 | 0.5 | 23 | 1 | 41 | 24 | 1 | 52 | 1 | 125 | 38 | |
| 44376 | 73.60 | 75.60 | 2.00 | 0.1 | 21 | 1 | 23 | 22 | 1 | 58 | 4 | 115 | 15 | |
| 44377 | 75.60 | 77.60 | 2.00 | 0.1 | 60 | 1 | 20 | 22 | 2 | 46 | 16 | 55 | 21 | |
| 44378 | 77.60 | 79.60 | 2.00 | 0.1 | 33 | 2 | 20 | 23 | 2 | 48 | 2 | 65 | 33 | |
| 44379 | 79.60 | 81.60 | 2.00 | 1.1 | 211 | 2 | 23 | 18 | 8 | 40 | 68 | 280 | 15 | |
| 44380 | 81.60 | 83.60 | 2.00 | 1.3 | 233 | 1 | 19 | 19 | 8 | 36 | 46 | 1310 | 26 | |
| 44381 | 83.60 | 85.40 | 1.80 | 0.6 | 163 | 2 | 20 | 48 | 4 | 42 | 22 | 110 | 31 | |
| 44382 | 85.40 | 86.00 | 0.60 | 0.7 | 48 | 2 | 19 | 26 | 2 | 50 | 6 | 95 | 100 | |
| 44383 | 86.00 | 88.00 | 2.00 | 0.8 | 155 | 2 | 25 | 27 | 8 | 41 | 14 | 125 | 100 | |
| 44384 | 90.50 | 92.00 | 1.50 | 0.5 | 38 | 2 | 24 | 19 | 4 | 49 | 3 | 130 | 100 | |
| 44385 | 92.00 | 92.80 | 0.80 | 0.7 | 231 | 1 | 22 | 21 | 10 | 28 | 8 | 6250 | 18 | |
| 44386 | 92.80 | 94.80 | 2.00 | 0.4 | 30 | 1 | 22 | 20 | 2 | 53 | 2 | 390 | 100 | |
| 44387 | 94.80 | 96.30 | 1.50 | 0.1 | 47 | 1 | 30 | 22 | 2 | 54 | 5 | 1120 | 50 | |
| 44388 | 100.40 | 102.40 | 2.00 | 0.5 | 76 | 1 | 17 | 22 | 2 | 44 | 23 | 180 | 25 | |
| 44389 | 102.40 | 104.20 | 1.80 | 0.5 | 24 | 2 | 18 | 20 | 1 | 50 | 10 | 140 | 100 | |
| 44390 | 108.10 | 110.10 | 2.00 | 0.7 | 24 | 2 | 17 | 21 | 2 | 44 | 2 | 125 | 18 | |
| 44391 | 110.10 | 111.20 | 1.10 | 0.6 | 137 | 1 | 20 | 16 | 8 | 21 | 11 | 1145 | 16 | |
| 44392 | 111.20 | 113.20 | 2.00 | 0.4 | 15 | 2 | 17 | 25 | 1 | 47 | 1 | 130 | 10 | |
| 44393 | 113.20 | 115.20 | 2.00 | 0.6 | 13 | 2 | 26 | 27 | 2 | 56 | 4 | 135 | 6 | |
| 44394 | 129.00 | 130.20 | 1.20 | 1.1 | 69 | 2 | 33 | 17 | 3 | 30 | 25 | 70 | 18 | |
| 44395 | 130.20 | 132.10 | 1.90 | 0.6 | 30 | 2 | 22 | 24 | 3 | 49 | 3 | 90 | 21 | |
| 44396 | 137.90 | 139.50 | 1.60 | 1.1 | 192 | 2 | 30 | 22 | 12 | 42 | 24 | 100 | 18 | |
| 44397 | 139.50 | 141.00 | 1.50 | 1 | 121 | 2 | 23 | 17 | 5 | 42 | 19 | 150 | 21 | |
| 44398 | 141.00 | 143.00 | 2.00 | 1 | 99 | 2 | 17 | 21 | 10 | 41 | 19 | 115 | 19 | |
| 44399 | 144.40 | 145.60 | 1.20 | 0.5 | 17 | 2 | 24 | 22 | 1 | 46 | 4 | 90 | | |

HOLE NUMBER: CL-91-08

ASSAY SHEET

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HOLE NUMBER: CL-91-08

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m | | |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|

HOLE NUMBER: CL-91-08

ASSAY SHEET

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HOLE NUMBER: CL-91-08

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44362 | 32.60 | 34.60 | 2.00 | 0.2 | 37 | 2 | 18 | 20 | 1 | 49 | 2 | 115 | 100 |
| 44363 | 40.60 | 42.60 | 2.00 | 0.6 | 47 | 2 | 21 | 23 | 4 | 45 | 4 | 105 | 35 |
| 44364 | 42.60 | 44.60 | 2.00 | 0.5 | 20 | 2 | 23 | 24 | 3 | 39 | 2 | 70 | 7 |
| 44365 | 46.10 | 47.10 | 1.00 | 0.5 | 16 | 2 | 24 | 19 | 1 | 42 | 2 | 75 | 7 |
| 44366 | 47.10 | 48.80 | 1.70 | 0.1 | 16 | 3 | 23 | 20 | 1 | 76 | 9 | 75 | 7 |
| 44367 | 48.80 | 50.10 | 1.30 | 0.1 | 2 | 3 | 22 | 24 | 1 | 57 | 2 | 45 | 23 |
| 44368 | 50.10 | 52.10 | 2.00 | 0.5 | 22 | 2 | 21 | 18 | 1 | 47 | 5 | 55 | 28 |
| 44369 | 61.10 | 63.10 | 2.00 | 0.5 | 20 | 2 | 22 | 20 | 1 | 53 | 4 | 110 | 23 |
| 44370 | 63.10 | 65.60 | 2.50 | 1 | 56 | 2 | 20 | 22 | 4 | 55 | 17 | 220 | 18 |
| 44371 | 65.60 | 67.10 | 1.50 | 1 | 148 | 2 | 30 | 24 | 11 | 43 | 22 | 1350 | 100 |
| 44372 | 67.10 | 69.10 | 2.00 | 0.9 | 115 | 1 | 24 | 22 | 12 | 42 | 8 | 1310 | 21 |
| 44373 | 69.10 | 71.10 | 2.00 | 0.6 | 22 | 1 | 17 | 19 | 2 | 48 | 2 | 160 | 27 |
| 44374 | 71.10 | 72.10 | 1.00 | 1 | 121 | 1 | 14 | 20 | 8 | 43 | 3 | 250 | 15 |
| 44375 | 72.10 | 73.60 | 1.50 | 0.5 | 23 | 1 | 41 | 24 | 1 | 52 | 1 | 125 | 38 |
| 44376 | 73.60 | 75.60 | 2.00 | 0.1 | 21 | 1 | 23 | 22 | 1 | 58 | 4 | 115 | 15 |
| 44377 | 75.60 | 77.60 | 2.00 | 0.1 | 60 | 1 | 20 | 22 | 2 | 46 | 16 | 55 | 21 |
| 44378 | 77.60 | 79.60 | 2.00 | 0.1 | 33 | 2 | 20 | 23 | 2 | 48 | 2 | 65 | 33 |
| 44379 | 79.60 | 81.60 | 2.00 | 1.1 | 211 | 2 | 23 | 18 | 8 | 40 | 68 | 280 | 15 |
| 44380 | 81.60 | 83.60 | 2.00 | 1.3 | 233 | 1 | 19 | 19 | 8 | 36 | 46 | 1310 | 26 |
| 44381 | 83.60 | 85.40 | 1.80 | 0.6 | 163 | 2 | 20 | 48 | 4 | 42 | 22 | 110 | 31 |
| 44382 | 85.40 | 86.00 | 0.60 | 0.7 | 48 | 2 | 19 | 26 | 2 | 50 | 6 | 95 | 100 |
| 44383 | 86.00 | 88.00 | 2.00 | 0.8 | 155 | 2 | 25 | 27 | 8 | 41 | 14 | 125 | 100 |
| 44384 | 90.50 | 92.00 | 1.50 | 0.5 | 38 | 2 | 24 | 19 | 4 | 49 | 3 | 130 | 100 |
| 44385 | 92.00 | 92.80 | 0.80 | 0.7 | 231 | 1 | 22 | 21 | 10 | 28 | 8 | 6250 | 18 |
| 44386 | 92.80 | 94.80 | 2.00 | 0.4 | 30 | 1 | 22 | 20 | 2 | 53 | 2 | 390 | 100 |
| 44387 | 94.80 | 96.30 | 1.50 | 0.1 | 47 | 1 | 30 | 22 | 2 | 54 | 5 | 1120 | 50 |
| 44388 | 100.40 | 102.40 | 2.00 | 0.5 | 76 | 1 | 17 | 22 | 2 | 44 | 23 | 180 | 25 |
| 44389 | 102.40 | 104.20 | 1.80 | 0.5 | 24 | 2 | 18 | 20 | 1 | 50 | 10 | 140 | 100 |
| 44390 | 108.10 | 110.10 | 2.00 | 0.7 | 24 | 2 | 17 | 21 | 2 | 44 | 2 | 125 | 18 |
| 44391 | 110.10 | 111.20 | 1.10 | 0.6 | 137 | 1 | 20 | 16 | 8 | 21 | 11 | 1145 | 16 |
| 44392 | 111.20 | 113.20 | 2.00 | 0.4 | 15 | 2 | 17 | 25 | 1 | 47 | 1 | 130 | 10 |
| 44393 | 113.20 | 115.20 | 2.00 | 0.6 | 13 | 2 | 26 | 27 | 2 | 56 | 4 | 135 | 6 |
| 44394 | 129.00 | 130.20 | 1.20 | 1.1 | 69 | 2 | 33 | 17 | 3 | 30 | 25 | 70 | 18 |
| 44395 | 130.20 | 132.10 | 1.90 | 0.6 | 30 | 2 | 22 | 24 | 3 | 49 | 3 | 90 | 21 |
| 44396 | 137.90 | 139.50 | 1.60 | 1.1 | 192 | 2 | 30 | 22 | 12 | 42 | 24 | 100 | 18 |
| 44397 | 139.50 | 141.00 | 1.50 | 1 | 121 | 2 | 23 | 17 | 5 | 42 | 19 | 150 | 21 |
| 44398 | 141.00 | 143.00 | 2.00 | 1 | 99 | 2 | 17 | 21 | 10 | 41 | 19 | 115 | 19 |
| 44399 | 144.40 | 145.60 | 1.20 | 0.5 | 17 | 2 | 24 | 22 | 1 | 46 | 4 | 90 | |

HOLE NUMBER: CL-91-08

GEOCHEM. SHEET

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HOLE NUMBER: CL-91-08

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| S>= 0.00cm | | | | | | | | | | |
| 29.60 | 32.60 | 3.00 | 0.00 | 0.0 | 100 | 33.33 | 0 | 0.00 | 1 | |
| 32.60 | 35.90 | 3.30 | 0.00 | 0.0 | 100 | 30.30 | 0 | 0.00 | 1 | |
| 35.90 | 37.70 | 1.80 | 50.00 | ***** | 26 | 14.44 | 4 | 2.22 | 0 | |
| 37.70 | 39.70 | 2.00 | 0.00 | 0.0 | 50 | 25.00 | 4 | 2.00 | 0 | |
| 39.70 | 41.60 | 1.90 | 0.00 | 0.0 | 100 | 52.63 | 0 | 0.00 | 4 | |
| 41.60 | 42.40 | 0.80 | 0.00 | 0.0 | 50 | 62.50 | 0 | 0.00 | 0 | |
| 42.40 | 44.10 | 1.70 | 0.00 | 0.0 | 50 | 29.41 | 1 | 0.59 | 0 | |
| 44.10 | 45.50 | 1.40 | 0.00 | 0.0 | 100 | 71.43 | 0 | 0.00 | 0 | |
| 45.50 | 47.50 | 2.00 | 90.00 | ***** | 14 | 7.00 | 0 | 0.00 | 0 | |
| 47.50 | 47.90 | 0.40 | 20.00 | ***** | 8 | 20.00 | 1 | 2.50 | 0 | |
| 47.90 | 49.90 | 2.00 | 80.00 | ***** | 14 | 7.00 | 1 | 0.50 | 0 | |
| 49.90 | 50.80 | 0.90 | 50.00 | ***** | 7 | 7.78 | 2 | 2.22 | 0 | |
| 50.80 | 52.80 | 2.00 | 70.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | |
| 52.80 | 54.80 | 2.00 | 70.00 | ***** | 16 | 8.00 | 1 | 0.50 | 0 | |
| 54.80 | 57.00 | 2.20 | 10.00 | 454.5 | 18 | 8.18 | 1 | 0.45 | 0 | |
| 57.00 | 58.00 | 1.00 | 70.00 | ***** | 12 | 12.00 | 5 | 5.00 | 0 | |
| 58.00 | 60.00 | 2.00 | 70.00 | ***** | 18 | 9.00 | 3 | 1.50 | 0 | |
| 60.00 | 62.00 | 2.00 | 180.00 | ***** | 27 | 13.50 | 2 | 1.00 | 0 | |
| 62.00 | 65.00 | 3.00 | 0.00 | 0.0 | 100 | 33.33 | 0 | 0.00 | 0 | |
| 65.00 | 67.00 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 67.00 | 69.00 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 2 | |
| 69.00 | 71.00 | 2.00 | 80.00 | ***** | 25 | 12.50 | 2 | 1.00 | 0 | |
| 71.00 | 73.00 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 73.00 | 74.30 | 1.30 | 50.00 | ***** | 8 | 6.15 | 1 | 0.77 | 0 | |
| 74.30 | 76.30 | 2.00 | 20.00 | ***** | 35 | 17.50 | 3 | 1.50 | 0 | |
| 76.30 | 78.30 | 2.00 | 20.00 | ***** | 100 | 50.00 | 0 | 0.00 | 1 | |
| 78.30 | 79.80 | 1.50 | 100.00 | ***** | 18 | 12.00 | 0 | 0.00 | 0 | VN |
| 79.80 | 81.80 | 2.00 | 200.00 | ***** | 6 | 3.00 | 0 | 0.00 | 0 | VN |
| 81.80 | 83.80 | 2.00 | 190.00 | ***** | 10 | 5.00 | 0 | 0.00 | 0 | VN |
| 83.80 | 85.80 | 2.00 | 190.00 | ***** | 10 | 5.00 | 0 | 0.00 | 0 | VN |
| 85.80 | 86.80 | 1.00 | 70.00 | ***** | 8 | 8.00 | 0 | 0.00 | 0 | VN |
| 86.80 | 87.90 | 1.10 | 70.00 | ***** | 8 | 7.27 | 0 | 0.00 | 0 | VN |
| 87.90 | 90.00 | 2.10 | 110.00 | ***** | 18 | 8.57 | 2 | 0.95 | 0 | |
| 90.00 | 91.60 | 1.60 | 120.00 | ***** | 7 | 4.38 | 0 | 0.00 | 0 | VN |
| 91.60 | 93.60 | 2.00 | 160.00 | ***** | 9 | 4.50 | 11 | 5.50 | 0 | |
| 93.60 | 94.80 | 1.20 | 100.00 | ***** | 9 | 7.50 | 5 | 4.17 | 0 | |
| 94.80 | 96.80 | 2.00 | 120.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | |
| 96.80 | 98.80 | 2.00 | 50.00 | ***** | 100 | 50.00 | 0 | 0.00 | 0 | |
| 98.80 | 100.80 | 2.00 | 50.00 | ***** | 100 | 50.00 | 0 | 0.00 | 0 | |
| 100.80 | 102.80 | 2.00 | 80.00 | ***** | 30 | 15.00 | 0 | 0.00 | 0 | |
| 102.80 | 104.80 | 2.00 | 80.00 | ***** | 21 | 10.50 | 0 | 0.00 | 0 | |
| 104.80 | 106.80 | 2.00 | 110.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | |
| 106.80 | 108.80 | 2.00 | 80.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | |
| 108.80 | 109.90 | 1.10 | 50.00 | ***** | 9 | 8.18 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-08

RQD ASSAY

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HOLE NUMBER: CL-91-08

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|----------|--------|------------|---------------|-------------|--------------------|---------------------|-----------------|------------------|-------|----------|
| | | | S>= 0.00cm | | | | | | | |
| 109.90 | 111.90 | 2.00 | 70.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | |
| 111.90 | 113.90 | 2.00 | 70.00 | ***** | 19 | 9.50 | 0 | 0.00 | 0 | |
| 113.90 | 115.90 | 2.00 | 140.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | |
| 115.90 | 117.90 | 2.00 | 130.00 | ***** | 20 | 10.00 | 0 | 0.00 | 0 | |
| 117.90 | 119.90 | 2.00 | 40.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | |
| 119.90 | 121.60 | 1.70 | 40.00 | ***** | 50 | 29.41 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-08

RQD ASSAY

PAGE: 10

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|---|-------------|---|--|--------------------------|
| 0.00 TO 33.50 | «CASING» | | | | | |
| 33.50 TO 39.70 | «OXIDE ZONE» | Yellow, m.g. Flow banded feldspar porphyry latite? Strongly argillized, locally gougy. | | «S-1 ARG» Abundant yellow-red clay on gougy fractures. | «Tr py» | Vivid yellow & red clay. |
| 39.70 TO 46.60 | «STWK BX» {40.3-41.3} «BX VEIN» | Black pyritic quartz stockwork and microbreccia veins. Minor late vuggy white qtz. Wallrock appears to be feldspar, hornblende/biotite porphyry, with phenos replaced by f.g. pyrite. Black quartz breccia vein. Late vuggy white quartz | | «I SIL» Black quartz. Mafic phenos replaced by pyrite. | «1-3% py» f.g. in black qtz breccia and stringers, also replacing mafic phenos. «Tr py» | |
| 46.60 TO 76.50 | «PY STWK-FAULT» {46.6-51.4} «GOUGE» {60.6-65.2} «GOUGE» {63.7-64.8} «FAULT» | Grey. Strongly argillized quartz-pyrite stockwork zone. Highly fractured, 30% is gougy. Patchy pervasive silicification. Quartz is dominantly black, late qtz is white. Yellow clay coats late fractures. Lithology is feldspar porphyry which is locally glomeroporphyritic. In upper half of interval, feldspars are replaced by pyrite; in lower half feldspars have gone to dull yellow-green clay. Pale grey. Highly fractured. 80% gouge with minor preserved frags of intensely silicified and stock-worked wallrock. Grey. Highly fractured. 80% gouge. Minor silicified frags. 90% gouge. | 15 | «M-1 ARG» «W-S SIL» Patchy silicification and strong stockwork veining. 30% of interval is gougy. Upper half of interval fs -> py. Lower half, fs -> clay. «I ARG» Patches of green and yellow clay. «I ARG» | «3-5% py» occurs as f.g. disseminations and blebs in black quartz stringers. «1-3% py» in broken qtz stringers. «1-3% py» in broken qtz frags. Broken qtz-py frags. | |
| 76.50 TO 81.40 | «FAULT ZONE» | Pale grey. Intensely argillized fault zone. Generally rotten rock & clay gouge with rotated frags of black qtz and silicified wallrock to 10 cm Fault fractures @ | 50 | «I ARG» 70% gouge. | «1% py» in disrupted stringers. | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|--|-------------|--|--|---------|
| 81.40 TO 87.60 | «FAULT BX» ‡84.4-84.6‡ «GYPSUM?» | Pale grey yellow. As above, but extreme argillization, yellow clay and finer breccia frags.(1-2 cm) Crystals noted in split core. | | «X ARG» 90% gouge. | «1% py» in broken quartz fragments. | |
| 87.60 TO 96.00 | «FAULT ZONE» | Pale green grey. Abundant clay gouge, larger areas of competent silicified wallrock, which is banded Banding @ Fault shearing @ | 70 60 | «I-X ARG» 70% gouge. | «1% py» disseminated and in disrupted stringers. | |
| 96.00 TO 104.40 | «FELDSPAR PORPHYRY» ‡104.8-102.6‡ | Pale green, m.g. Latite? - locally flow banded (with hematite). Feldspars gone to green clay or chlorite & pyrite. In lower half feldspars are aligned giving trachytic texture @ | 70 | «M-S ARG, M-S SIL» «S CHL» replacing feldspar phenos. «I ARG» with chlorite stringers. | «Tr py» replacing feldspar phenos. | |
| 104.40 TO 108.00 | «HEMATITE BX» ‡105.2-105.6‡ «FAULT» ‡106.8-107.5‡ | Patchy hematitic heterolithic tuff breccia. Strongly argillized. Locally gougy, faulted. 90% clay gouge. | | «S-X ARG» «W HEM, W CHL» «X ARG» Total clay replacement. | | |
| 108.00 TO 128.20 | «TUFF BX» ‡111.6-111.7‡ «FAULT» ‡111.7-111.9‡ ‡113.5-113.8‡ ‡114.2-114.8‡ ‡125.4-125.7‡ | Green. Strongly altered, gougy, mixed tuff breccia Angular blocks of ash tuff and perlite, interbeds of reworked crystal wackes and f.g. bedded ash/seds. Perlitic/rhyolitic frags. Beds @ Gouge Qtz veinlet. | 60 | «S-I ARG» «M CAL» Pervasive bright green clay, locally intense argillic altn. Patchy strong silicification. Pervasive calcite and minor calcite stringers. «I SIL» «I ARG» «I ARG» «I ARG» | Zip | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|---|-------------|--|--|---------|
| 128.20 TO 154.50 | «PERLITE» ↓140.6-144.4↓ «BALLS» ↓144.4-145.3↓ «FAULT» ↓148.9-149.0↓ «FAULT» ↓150.2-150.4↓ «FAULT» | Green, f.g. Perlitic net textures and spherulites in aphanitic flow rock. Weak calcite stringers. Red-brown hematite alteration balls in perlite! (1-5 cm) Interval is only slightly more silicified than previous interval. Gougy. Gouge. Gouge. | 40 45 | «M SIL, W ARG» «W CAL» stringers. «M CHL» «M HEM» «I ARG» | «Tr py» with chlorite or in late calcite stringers. «Tr py» | |
| 154.50 TO 171.40 | «HEMATITE BX» ↓157.2-158.8↓ «FAULT» ↓167.2-167.7↓ «FAULT» | Red & green. Chaotic gougy faulted breccia of perlite and bedded ash/seds (RHYL) with patches of black or red hematitic matrix. Bedded ash/seds have black alternating bands. Weak calcite stringers throughout. Gougy. Gougy. | | «M-I ARG» «W-S SIL» «M HEM» 40% of interval is gougy +/- ARG. Minor patches of strong silicification. «I ARG» «I ARG» | «Tr py» | |
| 171.40 TO 181.40 | «ASH TUFFS» | Green & black. Bedded black banded rhyolite. Highly fractured, 30% gouge. Seds show minor perlitic textures and soft sed. deformation. | | «M-S ARG» «M-S SIL» | «Tr py» on late fractures. | |
| 181.40 TO 183.50 | «FAULT» 183.5 M | Grey green. 80% clay gouge. 20% bedded ash/sed frags. EOH. LOST HOLE IN FAULT GOUGE. | | «I ARG» | | |

HOLE NUMBER: CL-91-09

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | F1 #/m | COMMENTS | |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|--|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | | |
| 43791 | 33.40 | 36.00 | 2.60 | | | | | | | | | | | | |
| 43792 | 36.00 | 39.70 | 3.70 | 5.2 | 552 | 1 | 18 | 15 | 63 | 9 | 118 | 545 | | | |
| 43793 | 39.70 | 41.30 | 1.60 | 9.6 | 580 | 1 | 23 | 10 | 36 | 10 | 165 | 360 | | | |
| 43794 | 41.30 | 43.30 | 2.00 | 4.6 | 798 | 1 | 18 | 13 | 44 | 10 | 123 | 305 | | | |
| 43795 | 43.30 | 46.60 | 3.30 | 6.2 | 1506 | 1 | 40 | 14 | 56 | 19 | 140 | 360 | | | |
| 43796 | 46.60 | 50.00 | 3.40 | 9.7 | 1841 | 1 | 34 | 13 | 71 | 6 | 158 | 435 | | | |
| 43797 | 50.00 | 51.40 | 1.40 | 5 | 592 | 1 | 15 | 13 | 48 | 6 | 80 | 260 | | | |
| 43798 | 51.40 | 53.40 | 2.00 | 10.2 | 564 | 1 | 32 | 10 | 41 | 15 | 140 | 340 | | | |
| 43799 | 53.40 | 55.40 | 2.00 | 12.8 | 2220 | 1 | 44 | 13 | 108 | 22 | 217 | 355 | | | |
| 43800 | 55.40 | 57.40 | 2.00 | 9.3 | 1651 | 1 | 46 | 12 | 81 | 27 | 121 | 500 | 45 | | |
| 43801 | 57.40 | 59.40 | 2.00 | 7.4 | 1420 | 1 | 32 | 11 | 67 | 20 | 103 | 420 | 46 | | |
| 43802 | 59.40 | 60.60 | 1.20 | 28 | 2041 | 1 | 44 | 12 | 103 | 27 | 98 | 650 | 17 | | |
| 43803 | 60.60 | 63.70 | 3.10 | 8.8 | 1877 | 1 | 42 | 12 | 99 | 51 | 180 | 435 | 35 | | |
| 43804 | 63.70 | 64.80 | 1.10 | 12.3 | 2198 | 1 | 23 | 13 | 115 | 73 | 200 | 2000 | 6 | | |
| 43805 | 64.80 | 66.40 | 1.60 | 6.3 | 2415 | 1 | 20 | 15 | 119 | 65 | 144 | 1250 | 28 | | |
| 43806 | 66.40 | 68.40 | 2.00 | 6 | 1412 | 1 | 21 | 12 | 93 | 43 | 102 | 1040 | 40 | | |
| 43807 | 68.40 | 70.40 | 2.00 | 10 | 1046 | 1 | 24 | 12 | 79 | 48 | 119 | 1700 | 47 | | |
| 43808 | 70.40 | 72.40 | 2.00 | 12.4 | 477 | 1 | 25 | 12 | 74 | 53 | 58 | 1115 | 33 | | |
| 43809 | 72.40 | 74.20 | 1.80 | 4.4 | 519 | 1 | 28 | 17 | 71 | 71 | 60 | 1250 | 34 | | |
| 43810 | 74.20 | 76.50 | 2.30 | 2.4 | 1253 | 1 | 25 | 17 | 155 | 76 | 56 | 6125 | 21 | | |
| 43811 | 76.50 | 78.50 | 2.00 | 1.6 | 1030 | 1 | 21 | 14 | 81 | 72 | 127 | 615 | 30 | | |
| 43812 | 78.50 | 81.40 | 2.90 | 0.5 | 467 | 1 | 20 | 12 | 50 | 65 | 42 | 550 | 40 | | |
| 43813 | 81.40 | 83.40 | 2.00 | 1.6 | 140 | 1 | 18 | 24 | 21 | 48 | 10 | 160 | 20 | | |
| 43814 | 83.40 | 85.40 | 2.00 | 1.1 | 96 | 1 | 19 | 20 | 11 | 86 | 2 | 55 | 25 | | |
| 43815 | 85.40 | 87.60 | 2.20 | 0.8 | 89 | 1 | 19 | 20 | 9 | 73 | 14 | 150 | 24 | | |
| 43816 | 87.60 | 89.60 | 2.00 | 0.1 | 131 | 1 | 18 | 20 | 8 | 46 | 2 | 270 | 31 | | |
| 43817 | 89.60 | 91.60 | 2.00 | 0.6 | 462 | 1 | 17 | 13 | 30 | 63 | 3 | 620 | 100 | | |
| 43818 | 91.60 | 93.60 | 2.00 | 0.4 | 307 | 1 | 20 | 19 | 16 | 55 | 14 | 1225 | 100 | | |
| 43819 | 93.60 | 96.00 | 2.40 | 0.4 | 744 | 1 | 18 | 17 | 41 | 55 | 3 | 920 | 100 | | |
| 43820 | 96.00 | 98.00 | 2.00 | 0.1 | 128 | 1 | 20 | 23 | 9 | 61 | 2 | 495 | 42 | | |
| 43821 | 98.00 | 100.00 | 2.00 | 0.3 | 366 | 1 | 21 | 19 | 9 | 56 | 5 | 595 | 20 | | |
| 43822 | 100.00 | 102.00 | 2.00 | 0.3 | 116 | 1 | 26 | 20 | 5 | 44 | 1 | 610 | 14 | | |
| 43823 | 102.00 | 104.40 | 2.40 | 0.1 | 160 | 1 | 31 | 24 | 5 | 56 | 2 | 485 | 25 | | |
| 43824 | 104.40 | 106.40 | 2.00 | 0.1 | 178 | 1 | 53 | 23 | 7 | 67 | 1 | 525 | 21 | | |
| 43825 | 108.00 | 110.00 | 2.00 | 0.6 | 143 | 1 | 23 | 17 | 6 | 31 | 15 | 75 | 100 | | |
| 43826 | 112.00 | 114.00 | 2.00 | 0.6 | 45 | 1 | 22 | 20 | 1 | 36 | 2 | 45 | 50 | | |
| 43827 | 116.00 | 118.00 | 2.00 | 0.8 | 25 | 1 | 20 | 21 | 1 | 44 | 1 | 15 | 25 | | |
| 43828 | 120.00 | 122.00 | 2.00 | 1 | 18 | 1 | 24 | 16 | 1 | 28 | 2 | 45 | 31 | | |

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ASSAY SHEET

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ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|----------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 43829 | 124.00 | 126.00 | 2.00 | 0.5 | 40 | 1 | 18 | 17 | 1 | 35 | 1 | 40 | 18 |
| 43830 | 128.20 | 130.20 | 2.00 | 0.5 | 24 | 1 | 22 | 21 | 1 | 40 | 2 | 25 | 24 |
| 43831 | 132.20 | 134.20 | 2.00 | 0.6 | 17 | 1 | 19 | 18 | 1 | 46 | 1 | 30 | 11 |
| 43832 | 136.20 | 138.20 | 2.00 | 0.5 | 42 | 1 | 17 | 23 | 1 | 52 | 2 | 34 | 12 |
| 43833 | 140.20 | 142.20 | 2.00 | 0.6 | 35 | 1 | 20 | 20 | 1 | 44 | 1 | 30 | 14 |
| 43834 | 142.20 | 144.20 | 2.00 | 2.4 | 32 | 1 | 1 | 4 | 1 | 1 | 2 | 55 | 12 |
| 43835 | 144.20 | 146.20 | 2.00 | 0.7 | 44 | 1 | 16 | 15 | 1 | 39 | 1 | 60 | 34 |
| 43836 | 146.20 | 148.20 | 2.00 | 0.7 | 34 | 2 | 21 | 22 | 1 | 41 | 2 | 25 | 20 |
| 43837 | 148.20 | 150.20 | 2.00 | 0.8 | 27 | 1 | 18 | 18 | 2 | 46 | 1 | 35 | 18 |
| 43838 | 152.50 | 154.50 | 2.00 | 0.6 | 52 | 1 | 14 | 17 | 2 | 40 | 1 | 40 | 32 |
| 43839 | 154.50 | 156.50 | 2.00 | 0.7 | 75 | 1 | 28 | 22 | 4 | 33 | 3 | 35 | 31 |
| 43840 | 158.50 | 160.50 | 2.00 | 0.7 | 106 | 1 | 15 | 19 | 4 | 34 | 2 | 25 | 23 |
| 43841 | 162.50 | 164.50 | 2.00 | 2.5 | 55 | 2 | 1 | 5 | 3 | 1 | 35 | 55 | 42 |
| 43842 | 166.50 | 168.50 | 2.00 | 1.8 | 435 | 1 | 17 | 16 | 18 | 34 | 50 | 45 | 100 |
| 43843 | 170.00 | 171.40 | 1.40 | 0.6 | 64 | 1 | 23 | 16 | 2 | 31 | 2 | 15 | 26 |
| 43844 | 171.40 | 173.40 | 2.00 | 1 | 147 | 1 | 18 | 19 | 7 | 37 | 7 | 10 | 40 |
| 43845 | 175.40 | 177.40 | 2.00 | 0.4 | 42 | 1 | 17 | 21 | 2 | 41 | 2 | 15 | 50 |
| 43846 | 179.40 | 181.40 | 2.00 | 0.4 | 91 | 1 | 14 | 19 | 3 | 39 | 10 | 65 | 100 |
| 43847 | 181.40 | 183.50 | 2.10 | 0.4 | 85 | 1 | 18 | 18 | 4 | 38 | 12 | 40 | 100 |

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GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|----------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 43791 | 33.40 | 36.00 | 2.60 | | | | | | | | | | |
| 43792 | 36.00 | 39.70 | 3.70 | 5.2 | 552 | 1 | 18 | 15 | 63 | 9 | 118 | 545 | |
| 43793 | 39.70 | 41.30 | 1.60 | 9.6 | 580 | 1 | 23 | 10 | 36 | 10 | 165 | 360 | |
| 43794 | 41.30 | 43.30 | 2.00 | 4.6 | 798 | 1 | 18 | 13 | 44 | 10 | 123 | 305 | |
| 43795 | 43.30 | 46.60 | 3.30 | 6.2 | 1506 | 1 | 40 | 14 | 56 | 19 | 140 | 360 | |
| 43796 | 46.60 | 50.00 | 3.40 | 9.7 | 1841 | 1 | 34 | 13 | 71 | 6 | 158 | 435 | |
| 43797 | 50.00 | 51.40 | 1.40 | 5 | 592 | 1 | 15 | 13 | 48 | 6 | 80 | 260 | |
| 43798 | 51.40 | 53.40 | 2.00 | 10.2 | 564 | 1 | 32 | 10 | 41 | 15 | 140 | 340 | |
| 43799 | 53.40 | 55.40 | 2.00 | 12.8 | 2220 | 1 | 44 | 13 | 108 | 22 | 217 | 355 | |
| 43800 | 55.40 | 57.40 | 2.00 | 9.3 | 1651 | 1 | 46 | 12 | 81 | 27 | 121 | 500 | 45 |
| 43801 | 57.40 | 59.40 | 2.00 | 7.4 | 1420 | 1 | 32 | 11 | 67 | 20 | 103 | 420 | 46 |
| 43802 | 59.40 | 60.60 | 1.20 | 28 | 2041 | 1 | 44 | 12 | 103 | 27 | 98 | 650 | 17 |
| 43803 | 60.60 | 63.70 | 3.10 | 8.8 | 1877 | 1 | 42 | 12 | 99 | 51 | 180 | 435 | 35 |
| 43804 | 63.70 | 64.80 | 1.10 | 12.3 | 2198 | 1 | 23 | 13 | 115 | 73 | 200 | 2000 | 6 |
| 43805 | 64.80 | 66.40 | 1.60 | 6.3 | 2415 | 1 | 20 | 15 | 119 | 65 | 144 | 1250 | 28 |
| 43806 | 66.40 | 68.40 | 2.00 | 6 | 1412 | 1 | 21 | 12 | 93 | 43 | 102 | 1040 | 40 |
| 43807 | 68.40 | 70.40 | 2.00 | 10 | 1046 | 1 | 24 | 12 | 79 | 48 | 119 | 1700 | 47 |
| 43808 | 70.40 | 72.40 | 2.00 | 12.4 | 477 | 1 | 25 | 12 | 74 | 53 | 58 | 1115 | 33 |
| 43809 | 72.40 | 74.20 | 1.80 | 4.4 | 519 | 1 | 28 | 17 | 71 | 71 | 60 | 1250 | 34 |
| 43810 | 74.20 | 76.50 | 2.30 | 2.4 | 1253 | 1 | 25 | 17 | 155 | 76 | 56 | 6125 | 21 |
| 43811 | 76.50 | 78.50 | 2.00 | 1.6 | 1030 | 1 | 21 | 14 | 81 | 72 | 127 | 615 | 30 |
| 43812 | 78.50 | 81.40 | 2.90 | 0.5 | 467 | 1 | 20 | 12 | 50 | 65 | 42 | 550 | 40 |
| 43813 | 81.40 | 83.40 | 2.00 | 1.6 | 140 | 1 | 18 | 24 | 21 | 48 | 10 | 160 | 20 |
| 43814 | 83.40 | 85.40 | 2.00 | 1.1 | 96 | 1 | 19 | 20 | 11 | 86 | 2 | 55 | 25 |
| 43815 | 85.40 | 87.60 | 2.20 | 0.8 | 89 | 1 | 19 | 20 | 9 | 73 | 14 | 150 | 24 |
| 43816 | 87.60 | 89.60 | 2.00 | 0.1 | 131 | 1 | 18 | 20 | 8 | 46 | 2 | 270 | 31 |
| 43817 | 89.60 | 91.60 | 2.00 | 0.6 | 462 | 1 | 17 | 13 | 30 | 63 | 3 | 620 | 100 |
| 43818 | 91.60 | 93.60 | 2.00 | 0.4 | 307 | 1 | 20 | 19 | 16 | 55 | 14 | 1225 | 100 |
| 43819 | 93.60 | 96.00 | 2.40 | 0.4 | 744 | 1 | 18 | 17 | 41 | 55 | 3 | 920 | 100 |
| 43820 | 96.00 | 98.00 | 2.00 | 0.1 | 128 | 1 | 20 | 23 | 9 | 61 | 2 | 495 | 42 |
| 43821 | 98.00 | 100.00 | 2.00 | 0.3 | 366 | 1 | 21 | 19 | 9 | 56 | 5 | 595 | 20 |
| 43822 | 100.00 | 102.00 | 2.00 | 0.3 | 116 | 1 | 26 | 20 | 5 | 44 | 1 | 610 | 14 |
| 43823 | 102.00 | 104.40 | 2.40 | 0.1 | 160 | 1 | 31 | 24 | 5 | 56 | 2 | 485 | 25 |
| 43824 | 104.40 | 106.40 | 2.00 | 0.1 | 178 | 1 | 53 | 23 | 7 | 67 | 1 | 525 | 21 |
| 43825 | 108.00 | 110.00 | 2.00 | 0.6 | 143 | 1 | 23 | 17 | 6 | 31 | 15 | 75 | 100 |
| 43826 | 112.00 | 114.00 | 2.00 | 0.6 | 45 | 1 | 22 | 20 | 1 | 36 | 2 | 45 | 50 |
| 43827 | 116.00 | 118.00 | 2.00 | 0.8 | 25 | 1 | 20 | 21 | 1 | 44 | 1 | 15 | 25 |
| 43828 | 120.00 | 122.00 | 2.00 | 1 | 18 | 1 | 24 | 16 | 1 | 28 | 2 | 45 | 31 |
| 43829 | 124.00 | 126.00 | 2.00 | 0.5 | 40 | 1 | 18 | 17 | 1 | 35 | 1 | 40 | 18 |

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GEOCHEM. SHEET

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GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43830 | 128.20 | 130.20 | 2.00 | 0.5 | 24 | 1 | 22 | 21 | 1 | 40 | 2 | 25 | 24 |
| 43831 | 132.20 | 134.20 | 2.00 | 0.6 | 17 | 1 | 19 | 18 | 1 | 46 | 1 | 30 | 11 |
| 43832 | 136.20 | 138.20 | 2.00 | 0.5 | 42 | 1 | 17 | 23 | 1 | 52 | 2 | 34 | 12 |
| 43833 | 140.20 | 142.20 | 2.00 | 0.6 | 35 | 1 | 20 | 20 | 1 | 44 | 1 | 30 | 14 |
| 43834 | 142.20 | 144.20 | 2.00 | 2.4 | 32 | 1 | 1 | 4 | 1 | 1 | 2 | 55 | 12 |
| 43835 | 144.20 | 146.20 | 2.00 | 0.7 | 44 | 1 | 16 | 15 | 1 | 39 | 1 | 60 | 34 |
| 43836 | 146.20 | 148.20 | 2.00 | 0.7 | 34 | 2 | 21 | 22 | 1 | 41 | 2 | 25 | 20 |
| 43837 | 148.20 | 150.20 | 2.00 | 0.8 | 27 | 1 | 18 | 18 | 2 | 46 | 1 | 35 | 18 |
| 43838 | 152.50 | 154.50 | 2.00 | 0.6 | 52 | 1 | 14 | 17 | 2 | 40 | 1 | 40 | 32 |
| 43839 | 154.50 | 156.50 | 2.00 | 0.7 | 75 | 1 | 28 | 22 | 4 | 33 | 3 | 35 | 31 |
| 43840 | 158.50 | 160.50 | 2.00 | 0.7 | 106 | 1 | 15 | 19 | 4 | 34 | 2 | 25 | 23 |
| 43841 | 162.50 | 164.50 | 2.00 | 2.5 | 55 | 2 | 1 | 5 | 3 | 1 | 35 | 55 | 42 |
| 43842 | 166.50 | 168.50 | 2.00 | 1.8 | 435 | 1 | 17 | 16 | 18 | 34 | 50 | 45 | 100 |
| 43843 | 170.00 | 171.40 | 1.40 | 0.6 | 64 | 1 | 23 | 16 | 2 | 31 | 2 | 15 | 26 |
| 43844 | 171.40 | 173.40 | 2.00 | 1 | 147 | 1 | 18 | 19 | 7 | 37 | 7 | 10 | 40 |
| 43845 | 175.40 | 177.40 | 2.00 | 0.4 | 42 | 1 | 17 | 21 | 2 | 41 | 2 | 15 | 50 |
| 43846 | 179.40 | 181.40 | 2.00 | 0.4 | 91 | 1 | 14 | 19 | 3 | 39 | 10 | 65 | 100 |
| 43847 | 181.40 | 183.50 | 2.10 | 0.4 | 85 | 1 | 18 | 18 | 4 | 38 | 12 | 40 | 100 |

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GEOCHEM. SHEET

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HOLE NUMBER: CL-91-09

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| S>= 0.00cm | | | | | | | | | | |
| 24.50 | 26.70 | 2.20 | 0.00 | 0.0 | 100 | 45.45 | 0 | 0.00 | 0 | |
| 26.70 | 29.60 | 2.90 | 0.00 | 0.0 | 100 | 34.48 | 0 | 0.00 | 0 | |
| 29.60 | 31.60 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 61.10 | 63.10 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 86.50 | 88.50 | 2.00 | 20.00 | ***** | 100 | 50.00 | 0 | 0.00 | 0 | |
| 88.50 | 93.20 | 4.70 | 80.00 | ***** | 50 | 10.64 | 0 | 0.00 | 0 | |
| 93.20 | 95.20 | 2.00 | 60.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | |
| 95.20 | 97.30 | 2.10 | 110.00 | ***** | 18 | 8.57 | 0 | 0.00 | 0 | |
| 97.30 | 98.40 | 1.10 | 60.00 | ***** | 7 | 6.36 | 0 | 0.00 | 0 | |
| 98.40 | 99.00 | 0.60 | 30.00 | ***** | 4 | 6.67 | 0 | 0.00 | 0 | |
| 99.00 | 100.50 | 1.50 | 100.00 | ***** | 10 | 6.67 | 0 | 0.00 | 0 | |
| 100.50 | 102.40 | 1.90 | 0.00 | 0.0 | 100 | 52.63 | 0 | 0.00 | 0 | |
| 102.40 | 104.00 | 1.60 | 110.00 | ***** | 13 | 8.12 | 0 | 0.00 | 0 | |
| 104.00 | 107.00 | 3.00 | 170.00 | ***** | 23 | 7.67 | 0 | 0.00 | 0 | |
| 107.00 | 109.80 | 2.80 | 200.00 | ***** | 8 | 2.86 | 0 | 0.00 | 0 | |
| 109.80 | 111.80 | 2.00 | 120.00 | ***** | 13 | 6.50 | 0 | 0.00 | 0 | |
| 111.80 | 113.80 | 2.00 | 80.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | |
| 113.80 | 115.80 | 2.00 | 70.00 | ***** | 21 | 10.50 | 0 | 0.00 | 0 | |
| 115.80 | 116.10 | 0.30 | 20.00 | ***** | 3 | 10.00 | 1 | 3.33 | 0 | |
| 116.10 | 118.00 | 1.90 | 120.00 | ***** | 12 | 6.32 | 0 | 0.00 | 0 | |
| 118.00 | 118.70 | 0.70 | 40.00 | ***** | 5 | 7.14 | 0 | 0.00 | 0 | |
| 118.70 | 118.90 | 0.20 | 20.00 | ***** | 2 | 10.00 | 1 | 5.00 | 0 | |
| 118.90 | 121.00 | 2.10 | 180.00 | ***** | 11 | 5.24 | 0 | 0.00 | 0 | BX |
| 121.00 | 123.00 | 2.00 | 130.00 | ***** | 15 | 7.50 | 3 | 1.50 | 0 | |
| 123.00 | 125.30 | 2.30 | 100.00 | ***** | 25 | 10.87 | 0 | 0.00 | 0 | |
| 125.30 | 126.30 | 1.00 | 80.00 | ***** | 6 | 6.00 | 2 | 2.00 | 0 | |
| 126.30 | 127.30 | 1.00 | 90.00 | ***** | 7 | 7.00 | 5 | 5.00 | 0 | |
| 127.30 | 128.30 | 1.00 | 100.00 | ***** | 2 | 2.00 | 10 | 10.00 | 0 | VN |
| 128.30 | 129.30 | 1.00 | 90.00 | ***** | 7 | 7.00 | 0 | 0.00 | 0 | VN |
| 129.30 | 130.30 | 1.00 | 70.00 | ***** | 3 | 3.00 | 0 | 0.00 | 0 | VN |
| 130.30 | 131.30 | 1.00 | 120.00 | ***** | 9 | 9.00 | 0 | 0.00 | 0 | VN |
| 131.30 | 132.30 | 1.00 | 90.00 | ***** | 10 | 10.00 | 0 | 0.00 | 0 | VN |
| 132.30 | 133.70 | 1.40 | 60.00 | ***** | 20 | 14.29 | 0 | 0.00 | 0 | VN |
| 133.70 | 134.30 | 0.60 | 30.00 | ***** | 10 | 16.67 | 0 | 0.00 | 0 | VN |
| 134.30 | 136.30 | 2.00 | 170.00 | ***** | 10 | 5.00 | 16 | 8.00 | 0 | |
| 136.30 | 138.30 | 2.00 | 100.00 | ***** | 23 | 11.50 | 8 | 4.00 | 0 | |
| 142.50 | 144.50 | 2.00 | 50.00 | ***** | 32 | 16.00 | 0 | 0.00 | 0 | |
| 144.50 | 146.50 | 2.00 | 140.00 | ***** | 9 | 4.50 | 0 | 0.00 | 0 | |
| 150.80 | 153.30 | 2.50 | 50.00 | ***** | 50 | 20.00 | 0 | 0.00 | 0 | |
| 158.80 | 160.80 | 2.00 | 130.00 | ***** | 14 | 7.00 | 0 | 0.00 | 0 | |
| 160.80 | 162.80 | 2.00 | 120.00 | ***** | 20 | 10.00 | 0 | 0.00 | 0 | |

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MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: CLISBAKO
PROJECT NUMBER: 667
CLAIM NUMBER:
LOCATION: N.Z.

PLOTTING COORDS GRID: UTM
NORTH: 41280.00N
EAST: 9564.00E
ELEV: 1306.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0N
EAST: 0+ 0E
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 154.50m
START DEPTH: 0.00m
FINAL DEPTH: 154.50m

COLLAR GRID AZIMUTH: 290° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 290° 0' 0"

DATE STARTED: August 25, 1991
DATE COMPLETED: August 26, 1991
DATE LOGGED: September 5, 1991

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: YES

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING LTD.
CASING: TO 12.8M. 10' LEFT IN HOLE
CORE STORAGE: CAMP

PURPOSE:

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 83.50 | - | -46° 0' | ACID | OK | | - | - | - | - | - | |
| 154.50 | - | -49° 0' | ACID | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|-------------|--|---|---------|
| 0.00 TO 12.80 | «CASING» | | | | | |
| 12.80 TO 25.60 | «STOCKWORK BRECCIA» { 17.2-18.2 «PERLITIC BRECCIA» { 22.2-25.6 «QUARTZ BRECCIA» | Yellow brown. Zone of strong quartz stockworking and breccia. 30% of interval is faulted and gougy. | | «M-X ARG, M-1 SIL» Patchy limonitic staining. «I SIL» «I SIL» | «1-3% py» in black quartz stringers and disseminated in silicified wall rock. | |
| 25.60 TO 27.70 | «FAULT» | Grey. Highly fractured, minor gouge. | | «S SIL» overprints «S ARG» | | |
| 27.70 TO 38.70 | «MIXED BRECCIA» { 30.9-32.6 «GOUGE» { 33.7-34.1 «GOUGE» | Yellow-green. Perlitic (hydro?) breccia dominates upper 1/2 of interval. Ash tuff breccia, and amygdaloidal flow in lower 1/2. Generally strongly silicified matrix. 30% of interval is faulted and gougy. | | «S ARG» frags «+/- SIL» matrix. Patchy «M CHL, HEM» in breccia matrix. | «Tr py» | |
| 38.70 TO 42.00 | «ASH TUFF» | Yellow & black. Bedded black banded ash tuff. Patchy silicification along some bedding planes, accompanied by perlite textures. Bands @ | 20 30 | «M-S ARG» «M-S SIL» patchy. | «Tr py in black bands» | |
| 42.00 TO 45.60 | «FAULT» | Grey green. 50% of interval is clay rich gouge, in similar ash tuff breccia. Minor narrow patches of silicification with strong chlorite and pyrite. | | «S CHL» «S+/-ARG» Patchy sil. | «1-2% py» as coarse euhedral crystals associated with chlorite. | |
| 45.60 TO 60.20 | «TUFF BRECCIA» { 53.7-53.8 «FAULT» { 54.8-55.5 «PYRITE | Pale green. Mixed breccia of bedded black banded ash tuff frags, perlitic ash tuff, clast-supported hematitic breccia with interbeds of sandy feldspar crystal tuff. Local perlitic textures. | | «M-1 ARG» and «S CHL» overprinted by locally intense silicification. Locally gougy. «X ARG» «S ARG» frags | «1% py» associated with chlorite and as replacement nodules @ 46.6m. «15% py» as matrix to 1-2 cm tuff | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|--|-------------|--|---|--|
| | BRECCIA» {56.6-57.2} «SIL ZONE» | Green quartz breccia vein and silicification. | | «S SIL» matrix «I SIL, S CHL» | breccia frags. «Tr py» | |
| 60.20 TO 62.40 | «QTZ-PY STWK» | Yellow green. Bleached interval of moderate pyrite stockwork. Host rock appears to be brecciated feldspar porphyry. | | «M ARG, S SIL» Strong silicification associated with pyrite stringers. | «3-5% py» in quartz stringers. | |
| 62.40 TO 67.60 | «SIL ZONE» {63.6-63.9} «FAULT» | Green. Mottled zone of net texture silicification. Host may be feldspar porphyry. Looks amygdaloidal in some places, pseudo-perlitic in others. Sparse discrete quartz veins are vuggy, grey, fine-grained. Gouge. | | «S-I SIL, M ARG» | «Tr py» | |
| 67.60 TO 83.60 | «PERLITE» {74.7-77.2} «QTZ STWK» | Green. Generally strongly silicified and chloritized. Local perlite breccia. Pervasive net texture Sparse later quartz stringers are generally barren Veins @ Generally barren qtz stwk zone, with a central vuggy pyrite-rich breccia vein @ 76m. | 65 45 | «S SIL, S CHL» Patchy S Argillic, one alteration ball @ 79.7 m. «S SIL» Moderate stockwork. | «Tr py» in sparse quartz stringers. «5% py» as selvages in quartz breccia vein @ 76m. | Single 1 cm alteration ball @ 79.7 m SAMPLE SAWN. |
| 83.60 TO 101.40 | «TUFF BX» {83.6-83.9} «BX VEIN» {85.8-84.4} «FAULT» {85.8-86.1} «FAULT» | Grey green. Mixed breccia of perlitic frags, ash tuff frags, porphyry frags, with patches of hematitic matrix. Moderate vuggy quartz stringers in upper half of interval. Pyritic grey quartz breccia vein with white clay filled vugs. Gouge. Gouge. | | «M-S SIL» patchy «M-S ARG» variable Generally «M CHL» Argillic alteration increases down-section. | «Tr py» on late fractures, associated with chlorite. Quartz stringers are generally barren. «1% py» as irregular blebs in quartz vein. | |
| 101.40 TO 114.60 | «TUFF BX» {104.6-107.6} | Black & green. Again, mixed breccia of bedded ash tuff frags, feldspar porphyry frags, perlitic textured frags and matrix. Minor patches of black matrix. | | Abundant chlorite or green clay through out. «S-I ARG» altered frags. «S-I SIL» breccia matrix. | «Tr py» associated with st. chloritic alteration. | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|---|-------------|--|--|--|
| | «SIL BX» ↓109.6-110.2↓ «SIL BX» ↓111.8-112.6↓ «BLACK BX MATRIX» ↓113.4-114.6↓ «BLACK BX MATRIX» | Strong hydrothermal overprint, breccia matrix is intensely silicified, minor vuggy white quartz stringers. Same as above. | | «I SIL» «I SIL» | «Tr py» «Tr py» | Depositional? Depositional? |
| 114.60 TO 124.50 | «LATITE» ↓114.6-114.9↓ ↓115.4-117.3↓ «QTZ STWK» | Pale green, f.g. flow banded latite. Hematitic flow lines, strong fracturing gives "hairnet" texture with local jigsaw breccia. Abundant chlorite, pyrite & quartz fill fractures. Bands @ Strongly silicified banded latite, drusy pyritic qtz stringers. Quartz is not chloritic. | 35 | «M SIL» pervasive «S CHL, HEM, PY» along fractures, in breccia matrix. «S ARG» «I SIL» overprints patchy strong argillic. | «1-3% py» with chlorite coating fractures. «3% py» in grey quartz stringers, as coarse blebs and fine disseminations. | |
| 124.50 TO 139.80 | «LATITE BX» ↓125.8-136.6↓ «QTZ STWK» ↓130.4-131.9↓ «QTZ BX» ↓136.9-141.2↓ «FAULT» ↓127.8- | Green & red. Similar to previous, but now chlorite and hematite rich. Latite jigsaw breccia. In minor matrix supported intervals, matrix is strongly hematitic, frags are strictly banded latite. Green & red. Moderate quartz stockwork veins cross cut latite breccia. Quartz is white to grey, essentially barren, with large drusy vugs to 5 cm. Veins @ Central breccia vein is nested below. Red. Central quartz breccia vein in stockwork zone Grey quartz is barren, with abundant drusy vugs. | 45 80 | «S CHL» on fractures. «S HEM» in matrix supported breccia «M ARG» patchy «S SIL» «S SIL» «S CHL, HEM» «I SIL, I HEM» Interval is intensely silicified and flooded by hematite. | «1% py» disseminated, associated with chlorite and hematite. «Tr py» «Tr py» | More pyrite occurs in chloritic wall rocks than in quartz veins. |

HOLE NUMBER: CL-91-10

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------------|--|---|----------------|---|---|---------|
| | 127.9† «FAULT» ‡131.8- 131.9† «FAULT» | | 50 | | | |
| 139.80 TO 154.50 | «LATITE» ‡143.3- 143.8† «HEMATITIC BX» ‡148.8- 148.9† «MICRO STWK» ‡149.4- 150.2† «JIGSAW BX» 154.5 M | Flow banded latite with minor jigsaw breccia. Flow bands are hematitic, jigsaw breccia matrix is chloritic +/- quartz. Sparse quartz stringers also carry pyrite "rip up" selvages. Vuggy quartz, barren. EOH | 20 | «M CHL, HEM» «M SIL» «S HEM» «M SIL» «I SIL» «S CHL», «M SIL» | «Tr-1% py» associated with chlorite and in sparse quartz stringers. | |

HOLE NUMBER: CL-91-10

DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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HOLE NUMBER: CL-91-10

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 43848 | 12.90 | 17.10 | 4.20 | 7.1 | 612 | 1 | 8 | 18 | 30 | 8 | 158 | 2000 | 34 | |
| 43849 | 17.10 | 18.20 | 1.10 | 1.5 | 156 | 1 | 54 | 18 | 15 | 31 | 27 | 145 | 9 | |
| 43850 | 18.20 | 20.20 | 2.00 | 1.5 | 352 | 2 | 38 | 16 | 17 | 28 | 40 | 430 | 33 | |
| 43851 | 20.20 | 22.20 | 2.00 | 0.9 | 804 | 1 | 27 | 18 | 20 | 22 | 58 | 910 | 30 | |
| 43852 | 22.20 | 23.40 | 1.20 | 0.7 | 671 | 1 | 26 | 10 | 13 | 14 | 100 | 610 | 23 | |
| 43853 | 23.40 | 25.60 | 2.20 | 1.3 | 545 | 1 | 23 | 11 | 9 | 18 | 39 | 225 | 100 | |
| 43854 | 25.60 | 27.70 | 2.10 | 1 | 140 | 1 | 24 | 17 | 12 | 77 | 16 | 125 | 100 | |
| 43855 | 27.70 | 30.90 | 3.20 | 0.5 | 77 | 1 | 21 | 19 | 2 | 62 | 2 | 35 | 70 | |
| 43856 | 32.60 | 34.60 | 2.00 | 0.7 | 118 | 1 | 32 | 23 | 8 | 55 | 3 | 145 | 20 | |
| 43857 | 36.60 | 38.70 | 2.10 | 0.9 | 249 | 1 | 17 | 16 | 17 | 46 | 2 | 210 | 28 | |
| 43858 | 38.70 | 40.70 | 2.00 | 0.7 | 72 | 1 | 22 | 19 | 4 | 50 | 22 | 90 | 23 | |
| 43859 | 43.60 | 45.60 | 2.00 | 0.5 | 112 | 1 | 39 | 20 | 8 | 48 | 4 | 230 | 50 | |
| 43860 | 47.60 | 49.60 | 2.00 | 0.2 | 31 | 1 | 26 | 26 | 2 | 48 | 1 | 70 | 27 | |
| 43861 | 52.80 | 54.20 | 1.40 | 0.4 | 1764 | 1 | 17 | 19 | 90 | 33 | 2 | 17000 | 100 | |
| 43862 | 55.50 | 57.50 | 2.00 | 1 | 397 | 1 | 21 | 16 | 17 | 35 | 10 | 810 | 13 | |
| 43863 | 57.50 | 60.20 | 2.70 | 1.1 | 252 | 1 | 21 | 13 | 14 | 42 | 4 | 1715 | 50 | |
| 43864 | 60.20 | 62.40 | 2.20 | 2.4 | 620 | 1 | 19 | 12 | 25 | 36 | 18 | 10625 | 33 | |
| 43865 | 62.40 | 64.40 | 2.00 | 1.3 | 164 | 1 | 19 | 19 | 7 | 39 | 20 | 230 | 40 | |
| 43866 | 64.40 | 67.60 | 3.20 | 1.4 | 169 | 1 | 15 | 16 | 6 | 42 | 19 | 130 | 36 | |
| 43867 | 67.60 | 69.60 | 2.00 | 1.7 | 575 | 1 | 15 | 14 | 24 | 40 | 60 | 95 | 37 | |
| 43868 | 73.60 | 75.60 | 2.00 | 1.6 | 145 | 1 | 19 | 30 | 4 | 50 | 5 | 100 | 22 | |
| 43869 | 75.60 | 76.30 | 0.70 | 2.7 | 767 | 1 | 17 | 18 | 23 | 36 | 58 | 200 | 7 | |
| 43870 | 76.30 | 78.30 | 2.00 | 1.9 | 384 | 1 | 20 | 18 | 13 | 44 | 24 | 155 | 22 | |
| 43871 | 81.60 | 83.60 | 2.00 | 1.6 | 417 | 1 | 21 | 18 | 16 | 43 | 26 | 85 | 30 | |
| 43872 | 83.60 | 84.60 | 1.00 | 0.5 | 63 | 1 | 17 | 17 | 1 | 33 | 10 | 80 | 20 | |
| 43873 | 84.60 | 86.60 | 2.00 | 0.8 | 119 | 1 | 26 | 17 | 6 | 38 | 7 | 105 | 50 | |
| 43874 | 86.60 | 88.60 | 2.00 | 0.6 | 338 | 1 | 27 | 21 | 14 | 39 | 44 | 115 | 50 | |
| 43875 | 88.60 | 90.60 | 2.00 | 0.5 | 278 | 1 | 23 | 19 | 15 | 39 | 2 | 100 | 36 | |
| 43876 | 90.60 | 92.60 | 2.00 | 0.3 | 53 | 1 | 21 | 21 | 2 | 45 | 1 | 35 | 100 | |
| 43877 | 94.60 | 96.60 | 2.00 | 0.5 | 53 | 1 | 25 | 16 | 1 | 41 | 2 | 65 | 28 | |
| 43878 | 99.40 | 101.40 | 2.00 | 0.5 | 79 | 1 | 23 | 16 | 3 | 44 | 1 | 60 | 13 | |
| 43879 | 101.40 | 103.40 | 2.00 | 0.6 | 60 | 2 | 68 | 150 | 2 | 296 | 28 | 25 | 24 | |
| 43880 | 103.40 | 104.60 | 1.20 | 0.3 | 40 | 2 | 36 | 49 | 2 | 80 | 16 | 40 | 16 | |
| 43881 | 104.60 | 106.10 | 1.50 | 0.1 | 61 | 1 | 34 | 30 | 1 | 52 | 9 | 45 | 50 | |
| 43882 | 106.10 | 107.60 | 1.50 | 0.3 | 36 | 2 | 37 | 36 | 1 | 52 | 2 | 40 | 8 | |
| 43883 | 107.60 | 109.40 | 1.80 | 0.3 | 44 | 1 | 24 | 25 | 1 | 53 | 6 | 25 | 8 | |
| 43884 | 109.40 | 110.20 | 0.80 | 0.5 | 74 | 1 | 28 | 21 | 2 | 43 | 8 | 30 | 5 | |
| 43885 | 110.20 | 111.80 | 1.60 | 0.6 | 123 | 1 | 21 | 18 | 3 | 39 | 1 | 180 | 15 | |

HOLE NUMBER: CL-91-10

ASSAY SHEET

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HOLE NUMBER: CL-91-10

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|----------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 43886 | 111.80 | 112.60 | 0.80 | 1.2 | 258 | 1 | 20 | 21 | 10 | 24 | 47 | 185 | 5 |
| 43887 | 112.60 | 114.60 | 2.00 | 0.8 | 68 | 1 | 28 | 15 | 2 | 44 | 19 | 35 | 13 |
| 43888 | 114.60 | 115.40 | 0.80 | 0.6 | 132 | 1 | 24 | 23 | 6 | 40 | 60 | 55 | 7 |
| 43889 | 115.40 | 117.30 | 1.90 | 0.7 | 178 | 1 | 19 | 17 | 5 | 36 | 31 | 70 | 30 |
| 43890 | 117.30 | 119.30 | 2.00 | 0.4 | 81 | 1 | 20 | 34 | 3 | 50 | 26 | 50 | 16 |
| 43891 | 119.30 | 121.30 | 2.00 | 0.4 | 195 | 1 | 23 | 18 | 6 | 33 | 37 | 125 | 11 |
| 43892 | 121.30 | 123.30 | 2.00 | 0.4 | 196 | 1 | 20 | 20 | 6 | 31 | 62 | 85 | 14 |
| 43893 | 123.30 | 124.50 | 1.20 | 0.5 | 171 | 1 | 13 | 18 | 4 | 28 | 119 | 80 | 12 |
| 43894 | 124.50 | 125.80 | 1.30 | 0.6 | 95 | 1 | 24 | 16 | 2 | 37 | 54 | 75 | 31 |
| 43895 | 125.80 | 127.80 | 2.00 | 0.3 | 42 | 1 | 33 | 18 | 1 | 39 | 4 | 35 | 8 |
| 43896 | 127.80 | 129.10 | 1.30 | 0.4 | 105 | 1 | 21 | 18 | 2 | 33 | 16 | 45 | 6 |
| 43897 | 129.10 | 131.10 | 2.00 | 0.3 | 27 | 1 | 30 | 14 | 1 | 31 | 2 | 25 | 8 |
| 43898 | 131.90 | 132.90 | 1.00 | 0.6 | 135 | 1 | 16 | 14 | 1 | 23 | 59 | 60 | 15 |
| 43899 | 132.90 | 134.60 | 1.70 | 0.3 | 49 | 1 | 23 | 19 | 1 | 42 | 2 | 45 | 19 |
| 43900 | 134.60 | 136.60 | 2.00 | 0.5 | 95 | 1 | 18 | 14 | 2 | 34 | 41 | 50 | 12 |
| 43948 | 136.60 | 137.50 | 0.90 | 1 | 126 | 1 | 15 | 17 | 3 | 36 | 20 | 50 | 7 |
| 43949 | 137.50 | 139.80 | 2.30 | 0.3 | 28 | 2 | 18 | 23 | 1 | 50 | 2 | 10 | 76 |
| 43950 | 142.30 | 143.30 | 1.00 | 0.7 | 281 | 2 | 18 | 18 | 4 | 31 | 23 | 325 | 8 |
| 43951 | 143.30 | 143.80 | 0.50 | 0.8 | 120 | 1 | 25 | 19 | 2 | 39 | 47 | 140 | 1 |
| 43952 | 143.80 | 144.80 | 1.00 | 0.5 | 69 | 2 | 16 | 16 | 1 | 38 | 18 | 30 | 10 |
| 43953 | 147.40 | 148.40 | 1.00 | 0.4 | 101 | 1 | 18 | 17 | 2 | 36 | 36 | 65 | 17 |
| 43954 | 148.40 | 150.20 | 1.80 | 0.5 | 113 | 2 | 21 | 15 | 2 | 43 | 42 | 35 | 23 |
| 43955 | 150.20 | 151.20 | 1.00 | 0.6 | 46 | 2 | 15 | 17 | 1 | 34 | 2 | 40 | 12 |

HOLE NUMBER: CL-91-10

ASSAY SHEET

HOLE NUMBER: CL-91-10

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43848 | 12.90 | 17.10 | 4.20 | 7.1 | 612 | 1 | 8 | 18 | 30 | 8 | 158 | 2000 | 34 |
| 43849 | 17.10 | 18.20 | 1.10 | 1.5 | 156 | 1 | 54 | 18 | 15 | 31 | 27 | 145 | 9 |
| 43850 | 18.20 | 20.20 | 2.00 | 1.5 | 352 | 2 | 38 | 16 | 17 | 28 | 40 | 430 | 33 |
| 43851 | 20.20 | 22.20 | 2.00 | 0.9 | 804 | 1 | 27 | 18 | 20 | 22 | 58 | 910 | 30 |
| 43852 | 22.20 | 23.40 | 1.20 | 0.7 | 671 | 1 | 26 | 10 | 13 | 14 | 100 | 610 | 23 |
| 43853 | 23.40 | 25.60 | 2.20 | 1.3 | 545 | 1 | 23 | 11 | 9 | 18 | 39 | 225 | 100 |
| 43854 | 25.60 | 27.70 | 2.10 | 1 | 140 | 1 | 24 | 17 | 12 | 77 | 16 | 125 | 100 |
| 43855 | 27.70 | 30.90 | 3.20 | 0.5 | 77 | 1 | 21 | 19 | 2 | 62 | 2 | 35 | 70 |
| 43856 | 32.60 | 34.60 | 2.00 | 0.7 | 118 | 1 | 32 | 23 | 8 | 55 | 3 | 145 | 20 |
| 43857 | 36.60 | 38.70 | 2.10 | 0.9 | 249 | 1 | 17 | 16 | 17 | 46 | 2 | 210 | 28 |
| 43858 | 38.70 | 40.70 | 2.00 | 0.7 | 72 | 1 | 22 | 19 | 4 | 50 | 22 | 90 | 23 |
| 43859 | 43.60 | 45.60 | 2.00 | 0.5 | 112 | 1 | 39 | 20 | 8 | 48 | 4 | 230 | 50 |
| 43860 | 47.60 | 49.60 | 2.00 | 0.2 | 31 | 1 | 26 | 26 | 2 | 48 | 1 | 70 | 27 |
| 43861 | 52.80 | 54.20 | 1.40 | 0.4 | 1764 | 1 | 17 | 19 | 90 | 33 | 2 | 17000 | 100 |
| 43862 | 55.50 | 57.50 | 2.00 | 1 | 397 | 1 | 21 | 16 | 17 | 35 | 10 | 810 | 13 |
| 43863 | 57.50 | 60.20 | 2.70 | 1.1 | 252 | 1 | 21 | 13 | 14 | 42 | 4 | 1715 | 50 |
| 43864 | 60.20 | 62.40 | 2.20 | 2.4 | 620 | 1 | 19 | 12 | 25 | 36 | 18 | 10625 | 33 |
| 43865 | 62.40 | 64.40 | 2.00 | 1.3 | 164 | 1 | 19 | 19 | 7 | 39 | 20 | 230 | 40 |
| 43866 | 64.40 | 67.60 | 3.20 | 1.4 | 169 | 1 | 15 | 16 | 6 | 42 | 19 | 130 | 36 |
| 43867 | 67.60 | 69.60 | 2.00 | 1.7 | 575 | 1 | 15 | 14 | 24 | 40 | 60 | 95 | 37 |
| 43868 | 73.60 | 75.60 | 2.00 | 1.6 | 145 | 1 | 19 | 30 | 4 | 50 | 5 | 100 | 22 |
| 43869 | 75.60 | 76.30 | 0.70 | 2.7 | 767 | 1 | 17 | 18 | 23 | 36 | 58 | 200 | 7 |
| 43870 | 76.30 | 78.30 | 2.00 | 1.9 | 384 | 1 | 20 | 18 | 13 | 44 | 24 | 155 | 22 |
| 43871 | 81.60 | 83.60 | 2.00 | 1.6 | 417 | 1 | 21 | 18 | 16 | 43 | 26 | 85 | 30 |
| 43872 | 83.60 | 84.60 | 1.00 | 0.5 | 63 | 1 | 17 | 17 | 1 | 33 | 10 | 80 | 20 |
| 43873 | 84.60 | 86.60 | 2.00 | 0.8 | 119 | 1 | 26 | 17 | 6 | 38 | 7 | 105 | 50 |
| 43874 | 86.60 | 88.60 | 2.00 | 0.6 | 338 | 1 | 27 | 21 | 14 | 39 | 44 | 115 | 50 |
| 43875 | 88.60 | 90.60 | 2.00 | 0.5 | 278 | 1 | 23 | 19 | 15 | 39 | 2 | 100 | 36 |
| 43876 | 90.60 | 92.60 | 2.00 | 0.3 | 53 | 1 | 21 | 21 | 2 | 45 | 1 | 35 | 100 |
| 43877 | 94.60 | 96.60 | 2.00 | 0.5 | 53 | 1 | 25 | 16 | 1 | 41 | 2 | 65 | 28 |
| 43878 | 99.40 | 101.40 | 2.00 | 0.5 | 79 | 1 | 23 | 16 | 3 | 44 | 1 | 60 | 13 |
| 43879 | 101.40 | 103.40 | 2.00 | 0.6 | 60 | 2 | 68 | 150 | 2 | 296 | 28 | 25 | 24 |
| 43880 | 103.40 | 104.60 | 1.20 | 0.3 | 40 | 2 | 36 | 49 | 2 | 80 | 16 | 40 | 16 |
| 43881 | 104.60 | 106.10 | 1.50 | 0.1 | 61 | 1 | 34 | 30 | 1 | 52 | 9 | 45 | 50 |
| 43882 | 106.10 | 107.60 | 1.50 | 0.3 | 36 | 2 | 37 | 36 | 1 | 52 | 2 | 40 | 8 |
| 43883 | 107.60 | 109.40 | 1.80 | 0.3 | 44 | 1 | 24 | 25 | 1 | 53 | 6 | 25 | 8 |
| 43884 | 109.40 | 110.20 | 0.80 | 0.5 | 74 | 1 | 28 | 21 | 2 | 43 | 8 | 30 | 5 |
| 43885 | 110.20 | 111.80 | 1.60 | 0.6 | 123 | 1 | 21 | 18 | 3 | 39 | 1 | 180 | 15 |
| 43886 | 111.80 | 112.60 | 0.80 | 1.2 | 258 | 1 | 20 | 21 | 10 | 24 | 47 | 185 | 5 |

HOLE NUMBER: CL-91-10

GEOCHEM. SHEET

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HOLE NUMBER: CL-91-10

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43887 | 112.60 | 114.60 | 2.00 | 0.8 | 68 | 1 | 28 | 15 | 2 | 44 | 19 | 35 | 13 |
| 43888 | 114.60 | 115.40 | 0.80 | 0.6 | 132 | 1 | 24 | 23 | 6 | 40 | 60 | 55 | 7 |
| 43889 | 115.40 | 117.30 | 1.90 | 0.7 | 178 | 1 | 19 | 17 | 5 | 36 | 31 | 70 | 30 |
| 43890 | 117.30 | 119.30 | 2.00 | 0.4 | 81 | 1 | 20 | 34 | 3 | 50 | 26 | 50 | 16 |
| 43891 | 119.30 | 121.30 | 2.00 | 0.4 | 195 | 1 | 23 | 18 | 6 | 33 | 37 | 125 | 11 |
| 43892 | 121.30 | 123.30 | 2.00 | 0.4 | 196 | 1 | 20 | 20 | 6 | 31 | 62 | 85 | 14 |
| 43893 | 123.30 | 124.50 | 1.20 | 0.5 | 171 | 1 | 13 | 18 | 4 | 28 | 119 | 80 | 12 |
| 43894 | 124.50 | 125.80 | 1.30 | 0.6 | 95 | 1 | 24 | 16 | 2 | 37 | 54 | 75 | 31 |
| 43895 | 125.80 | 127.80 | 2.00 | 0.3 | 42 | 1 | 33 | 18 | 1 | 39 | 4 | 35 | 8 |
| 43896 | 127.80 | 129.10 | 1.30 | 0.4 | 105 | 1 | 21 | 18 | 2 | 33 | 16 | 45 | 6 |
| 43897 | 129.10 | 131.10 | 2.00 | 0.3 | 27 | 1 | 30 | 14 | 1 | 31 | 2 | 25 | 8 |
| 43898 | 131.90 | 132.90 | 1.00 | 0.6 | 135 | 1 | 16 | 14 | 1 | 23 | 59 | 60 | 15 |
| 43899 | 132.90 | 134.60 | 1.70 | 0.3 | 49 | 1 | 23 | 19 | 1 | 42 | 2 | 45 | 19 |
| 43900 | 134.60 | 136.60 | 2.00 | 0.5 | 95 | 1 | 18 | 14 | 2 | 34 | 41 | 50 | 12 |
| 43948 | 136.60 | 137.50 | 0.90 | 1 | 126 | 1 | 15 | 17 | 3 | 36 | 20 | 50 | 7 |
| 43949 | 137.50 | 139.80 | 2.30 | 0.3 | 28 | 2 | 18 | 23 | 1 | 50 | 2 | 10 | 76 |
| 43950 | 142.30 | 143.30 | 1.00 | 0.7 | 281 | 2 | 18 | 18 | 4 | 31 | 23 | 325 | 8 |
| 43951 | 143.30 | 143.80 | 0.50 | 0.8 | 120 | 1 | 25 | 19 | 2 | 39 | 47 | 140 | 1 |
| 43952 | 143.80 | 144.80 | 1.00 | 0.5 | 69 | 2 | 16 | 16 | 1 | 38 | 18 | 30 | 10 |
| 43953 | 147.40 | 148.40 | 1.00 | 0.4 | 101 | 1 | 18 | 17 | 2 | 36 | 36 | 65 | 17 |
| 43954 | 148.40 | 150.20 | 1.80 | 0.5 | 113 | 2 | 21 | 15 | 2 | 43 | 42 | 35 | 23 |
| 43955 | 150.20 | 151.20 | 1.00 | 0.6 | 46 | 2 | 15 | 17 | 1 | 34 | 2 | 40 | 12 |

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GEOCHEM. SHEET

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RQD ASSAY

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| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| S>= 0.00cm | | | | | | | | | | |
| 27.40 | 29.40 | 2.00 | 60.00 | ***** | 20 | 10.00 | 1 | 0.50 | 0 | |
| 29.40 | 31.50 | 2.10 | 20.00 | 952.4 | 24 | 11.43 | 1 | 0.48 | 0 | |
| 31.50 | 33.40 | 1.90 | 0.00 | 0.0 | 30 | 15.79 | 1 | 0.53 | 0 | |
| 33.40 | 36.90 | 3.50 | 30.00 | 857.1 | 24 | 6.86 | 1 | 0.29 | 0 | |
| 36.90 | 37.50 | 0.60 | 10.00 | ***** | 7 | 11.67 | 2 | 3.33 | 0 | |
| 37.50 | 39.20 | 1.70 | 90.00 | ***** | 27 | 15.88 | 1 | 0.59 | 0 | |
| 39.20 | 40.30 | 1.10 | 110.00 | ***** | 9 | 8.18 | 5 | 4.55 | 0 | |
| 40.30 | 42.40 | 2.10 | 170.00 | ***** | 19 | 9.05 | 2 | 0.95 | 0 | |
| 42.40 | 44.00 | 1.60 | 30.00 | ***** | 29 | 18.12 | 0 | 0.00 | 0 | |
| 44.00 | 45.40 | 1.40 | 30.00 | ***** | 30 | 21.43 | 0 | 0.00 | 0 | |
| 45.40 | 47.40 | 2.00 | 80.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | |
| 47.40 | 49.30 | 1.90 | 100.00 | ***** | 30 | 15.79 | 0 | 0.00 | 0 | |
| 49.30 | 51.30 | 2.00 | 70.00 | ***** | 22 | 11.00 | 0 | 0.00 | 0 | |
| 51.30 | 53.30 | 2.00 | 130.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | |
| 53.30 | 55.30 | 2.00 | 90.00 | ***** | 13 | 6.50 | 0 | 0.00 | 0 | |
| 55.30 | 56.50 | 1.20 | 30.00 | ***** | 15 | 12.50 | 0 | 0.00 | 0 | |
| 56.50 | 58.40 | 1.90 | 110.00 | ***** | 21 | 11.05 | 0 | 0.00 | 0 | |
| 60.30 | 63.10 | 2.80 | 140.00 | ***** | 27 | 9.64 | 0 | 0.00 | 0 | |
| 63.80 | 65.80 | 2.00 | 30.00 | ***** | 60 | 30.00 | 0 | 0.00 | 0 | |

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RQD ASSAY

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|-------------|--|--|---------|
| 0.00 TO 27.40 | «CASING/ OVERBURDEN» | | | | | |
| 27.40 TO 27.50 | «OVERBURDEN » | Boulders and cobbles of mixed rock types. | | | | |
| 27.50 TO 31.00 | «APHANITIC FELSIC FLOW» ‡28.8-29.3‡ | Olive green grey, aphanitic. Very fine-grained to aphanitic rock. Distinctive perlitic fracture suggests a devitrified flow of some sort. No fragmental or bedding textures seen. Dark green (chloritic) spots may be relict phenocrysts - after PF? Flow banding noted. | | «W ARG, W SIL» The groundmass scratches easily suggesting some argillization. Hairline qz stringers are abundant. These are vuggy in places. At least 2 stages present. Pale yellow clay fills fractures. | «Tr py-mc» Mainly as platy areas on fracture surfaces. | |
| 31.00 TO 34.90 | «PERLITE» | Pale grey, f.g. A well developed interval of perlite, appears brecciated in places. | | «M SIL, W ARG» At least two generations of quartz injection. Early stage consists of silicification of the matrix; possibly some hydrothermal brecciation on a microscopic scale. This quartz has a distinct blue hue. Later grey drusy veins cut the earlier silica. These form subparallel sets that have 90 degree branches. | «Tr-1% py» Bladed forms- mostly in the later quartz stringers. | |
| 34.90 TO 40.10 | «FAULT» ‡35.5-35.7‡ ‡36.2-36.5‡ «GOUGE» ‡37.9-39.8‡ «FAULT BX» | A complicated zone of gougy and healed breccia intervals. The fault contains blocks of less disrupted material. These reach 50 cm in width. Hb-bi porphyry and flow banded or bedded material noted. Breccia sections are partly healed by grey qz. The clasts, however, appear to be strongly argillized. Clast of Bi-Hb porphyry @ 35.5 m. Mafic phenos are pervasively chloritized. Matrix supported fault breccia composed of highly argillized subrounded clasts. Many show alteration rinds - bleaching. | | «M-S ARG, M SIL» «I ARG» Interval of dark green chlorite alteration with finely disseminated py. «I ARG» «I ARG, M CL, W HE» Intensely argillized wallrock fragments in a weakly silicified matrix. The matrix is medium green colour due to either green | «Tr py» «1% py - diss.» | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|---|-------------|---|---|---|
| | | | | clay or pervasive chlorite alteration. | | |
| 40.10 TO 43.90 | «FELDSPAR PORPHYRY» {41.0-42.9} {42.9-43.9} «SILICIFIED BX» | Grey-green, f.g. A nondescript unit with an unusual mottled texture. With a hand lens - tabular feldspar phenocrysts (to 5mm) are visible suggesting it is probably a porphyry (flow or dyke). The interval is brecciated over narrow widths and strongly altered. Silica replaced (fault?) breccia consisting of angular to subangular clasts of wallrock up to 50 mm across. Breccia textures range from pull-apart or jigsaw to randomly oriented fault breccia. Mostly clast supported. Matrix is glassy grey qz. Clasts altered to bright green in places. Looks like green clay. | | «M SIL, M-S ARG, W CL» Patchy silicification occurs throughout interval. Mostly as a pervasive replacement of the groundmass, but also as crosscutting breccia veins. Black qz stringers occur throughout. «M SIL» Black qz stringers & irregular groundmass replacements form a loose stockwork zone. Stringers <5mm. A crosscutting silica healed breccia is noted at 41.4 m. this feature has a true width of about 3 cm. «S-1 SIL, M ARG» Pervasive silicification of the breccia matrix. Vuggy cavities developed in the quartz. Clasts variably silicified, some are strongly argillized to green clay. | «Tr py» as fine disseminations. «1% py» as disseminations and as bladed forms in the matrix. Irregular masses of pyrite are concentrated in the black silicified areas. «3% py» as disseminations in clasts and matrix. Marcasite also noted. | Little evidence for more than 2 events. |
| 43.90 TO 46.90 | «SILICIFIED TUFF BX» {46.6-46.7} «RUBBLY FAULT» | Green, c.g. A mixed breccia consisting of feldspar porphyry and Bi-Hb porphyry clasts. the matrix is variably silicified - healed by glassy grey qz. Clasts are bright green and often spotted after mafic phenos. Green colour caused by green clay/chlorite? | | «M SIL, W-M CL, M ARG» Silica healed breccia. Matrix is vuggy quartz. Clasts green after chlorite or green clay. At least 2 phases of vuggy quartz stringers cut matrix and clasts. Yellow green alteration of clasts in some places. | «MC 1% - bladed» Disseminated bladed marcasite crystals in matrix and in clasts. Diss. py cubes also noted. | |
| 46.90 TO 50.70 | «BLACK BANDED ASH TUFF» (Flow banded rhyolite) {49.3-49.6} «FAULT» | Green-grey, f.g. A faulted and contorted interval of well bedded ash tuff. Beds on a 10-30 cm scale, highlighted by fine black laminae. The matrix of the ash tuff is variably silicified by irregular networks and patches of fine grained blue-grey quartz. Veinlets (to 5mm) of vivid green chlorite with py cut the interval. Perlitic textures present lower in section. | | «M CL, M SIL» Strong green colour due to pervasive chlorite (or green clay). Thicker pale coloured beds are pervasively silicified. | «1% py» as disseminated cubes to 0.5 mm | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|----------------------|---|--|---------|
| 50.70 TO 51.40 | «FAULT BX» | Grey green. Argillized breccia composed of rounded poorly sorted wallrock clasts, some with well-developed alteration rinds or halos. Clast supported. Matrix is hematitic and variably healed with grey aphanitic silica. Weak pervasive chlorite gives rock a green colour. Clasts range from 2mm to 20 cm. | | «W-M SIL, W CL, W ARG» Clasts are argillized - some have well developed alteration rims. Matrix is fine grained and hematitic. It is variably replaced by grey silica. | «Tr py» | |
| 51.40 TO 53.60 | «PERLITE» {53.4-53.6} «FAULT» | Pale grey green. A typical interval of web textured perlite. This interval is weakly argillized and chloritized. | | «W CL, W ARG» | Limonite coatings of some fracture surfaces. | |
| 53.60 TO 59.30 | «VITRIC TUFF» {57.9-58.2} «BX VEIN» {57.6-57.7} «BX VEIN» | Pale grey. Distinctive unit composed of highly vesicular (filled) pumice material. In places, vesicles have been flattened into fiamme-like streaks. Many of these are chloritized. Vesicles constitute up to 25% of the rock. The aphanitic groundmass is strongly argillized and has local patches of grey silicification. Dark grey. Crosscutting breccia vein consisting of beige coloured rounded wallrock clasts (3-40 mm) in a dark grey, highly siliceous matrix. Breccia margins grade from true breccia out into incipient breccia. Fragment supported. Upper contact @ 57.9 m Narrow but sharply defined breccia vein composed of 50-60% highly argillized wallrock frags in a silicified matrix. Upper contact @ 57.6 m | 30 40 | «M-S ARG, W SIL» Pervasive argillic alteration. Patchy silicification of the groundmass. Weak hair thin qz microveins widespread. These contain patches of py that appear to overgrow wallrock. «S ARG, M-S SIL» Strong argillic alteration of the clasts. Pervasive but uneven silicification of the matrix. | «Tr py» as sparse disseminations, patches in veins and clots. Patches of bladed marcasite also noted «1% mc» These also have a rosette-like habit. «5% py» Finely disseminated pyrite throughout matrix. | |
| 59.30 TO 64.90 | «PERLITE» & FLOW BANDED RHYL | Green-grey, f.g. Similar to the interval higher up the hole. This unit is fairly massive near the top grading down into the black banded vitric ash tuff. The banded parts also have well developed perlitic fractures. Bedding @ 60.1 m @ 61.5 m @ 62.5 m @ 63.1 m | 40 22 08 15 | «W ARG» Weak pervasive argillic alteration throughout interval. Silicification absent. The top 30 cm is bleached to a yellow-beige colour. | «Tr py, < 1% mc» Py occurs as sparse disseminated cubes throughout the groundmass. Narrow, branching qz veinlets full of bladed or platy marcasite occur lower in the interval e.g. @ 62.9 m. | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---------------------------|---|-------------|--|--|--|
| 64.90 TO 67.70 | «BALLI-FEROUS PERLITE» | Grey. A continuation of the above perlite unit with some dramatic textural changes. This unit is full of balls! These are rounded sometimes hematitic concretions that have grown over the perlitic texture. In places the perlitic fractures parallel the margins of the balls. this indicates that they may be growing on spherulites. Ball sizes vary from 0.5 cm to about 3.5 cm. Textures also vary from isolated round balls to crowded varieties where the ball rims touch each other. Some balls are filled or cored by coarse py and qz. | | «W ARG» Sparse yellow veinlets and weak pervasive alteration. Perlitic cracks and ball rims highlighted by thin rims of quartz. | «Tr py» Patches noted in the cores of alteration balls. | |
| {64.9-65.5} | «VESICULAR FLOW TOP?» | Grey-green. A spongy textured interval composed of what appears to be balliferous perlite. This zone is typified by about 25% unfilled vesicles. These may indicate a flow top. | | «W SIL, W ARG» Some blue qz fillings noted. | «5-10% py» Partial filling of vesicles and disseminations in groundmass. | |
| 67.70 TO 70.80 | «FB RHYOLITE VITRIC TUFF» | Green to pale brown. A mixed interval consisting of well bedded tuffs. the beds vary from 2 cm to over 50 cm. They are compositionally variable. They range from vitric ashes to crystal ashes. Streaky textures in the vitric tuffs may indicate some welding. Finer grained dark-green beds show perlitic cracks and in some places balls are developed e.g. 69.2-69.6 m. These appear to replace certain beds preferentially (i.e. compositional/textural control) | | «W ARG, W CB, W CL» Weak pervasive argillic alteration of groundmass. Ball alteration preferentially replaces some of the thinner tuff beds. This may be a form of hematization. White spots up to 2 mm appear to be rimmed or zoned carbonate porphyroblasts. These tend to occur in the more vitric tuffs. Py-cl veinlets noted. | «2-3% py» occurs mainly as fine dusting of the groundmass. Crystal aggregates of coarser py occur in places. These can reach over 1 cm in diameter. Py-cl microveins also present. | |
| 70.80 TO 74.40 | «BANDED LATITE» | Green, f.g. to aphanitic. A homogenous unit of well banded latite. Similar to the material seen in previous holes. This unit is fine grained, almost aphanitic and aphyric. Bands are highlighted by hematite veinlets. Upper contact @ 70.8 m | 50 | «W CL, W HE» Py-cl veinlets are fairly sparse. Chlorite gives rock a greenish colour. Hematite veinlets (earthy) follow flow bands. A 1 cm vuggy qz stringer noted @ 74.2 m | «1% py» mostly in Cl veinlets. | |
| 74.40 TO 79.30 | «BALLI-FEROUS PERLITE» | Dark green. Similar again to the unit higher in the hole. The balls are much larger (to 40 mm) and less packed. They seem to be constrained by a crude layering in the rock. | | «W SIL, W CL, W ARG» Alteration seems to be increasing in this interval. Silicification of the perlitic cracks and narrow banded vuggy veins are present. Bleaching to a yellow colour over short sections indicates patchy argillic alteration. «M SIL» | «Tr py» | Narrow banded veins concentrated between |
| {78.1-79.3} | | | | | | |

MINNOVA INC.
DRILL HOLE RECORD

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|--|--|----------------|--|--|---------|
| 79.30 TO 86.00 | «BALLIFEROUS FLOW BANDED RHYOLITE» ↓84.7-85.0↓ ↓85.1-85.2↓ «SILICIFIED BX» | Green-grey. Black banded, perlitic rhyolite showing well developed spheroidal textures. The spheroids are defined by strong web textures of the fractures. These suggest that the original tuff was highly vitric. Dark bands are fairly widely spaced and in places show convoluted layering or soft sediment deformation features. Banding @ 82.3 m Narrow breccia interval healed by grey glassy qz. Clasts of perlite are poorly sorted, angular and rotated. Some are completely replaced by qz. | 60 | «W ARG» Patchy bleaching of the web texture. Bleached halo in hangingwall of breccia «I SIL» | «Tr py» | |
| 86.00 TO 96.60 | «TUFF BX» ↓89.4-89.7↓ «SILICIFIED ZONE» ↓94.4-94.5↓ «BLADED QZ VEIN» ↓94.4-95.0↓ | Bright green. A highly variable unit composed of tuff clasts in a fine-grained clay altered matrix. Clasts are mostly angular and randomly oriented. Sizes range up to 5 cm. Mostly matrix supported but locally clast supported. These intervals may be beds. Flooded zone with narrow cockscomb qz veins. Veins are partly banded and vuggy. Botryoidal textures noted in the cavities. Vein made up of qz (+CB) blades arranged in a random fashion to create open cavities. Replacement of breccia matrix. | | «W-M SIL, S ARG» Pervasive bright green clay alteration of the breccia matrix. Clasts are clay altered to a yellow-green colour. Patchy silicification of the matrix noted. These areas appear as grey patches. «M SIL» | «Tr-1% py» «Tr-1% py» | |
| 96.60 TO 100.25 | «SILICIFIED RHYOLITE BX» ↓97.8-98.1↓ «JIGSAW BX» ↓98.5-99.0↓ «JIGSAW BX» ↓99.6-99.8↓ «JIGSAW BX» | Grey. Similar to the above interval but with bedding or cross cutting breccia veins (i.e. hydrothermal breccias). Jigsaw breccias with moderately healed (silicified) matrices are abundant throughout. Clasts consist of vitric crystal tuff material. These are subangular and generally sorted. Average size is about 25 mm. Bedding @ 98.3 m | 30 30 25 | «W-M SIL, W ARG» Pervasive yellowish clay alteration of clasts and matrix. Pervasive silicification of matrix within and immediately adjacent to jigsaw breccia. «S SIL» «M SIL» | «Tr py» | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|--|--------------|--|--|---------|
| 100.25 TO 107.60 | «VITRIC TUFF» ↓100.25-102.7↑ «PERLITE» ↓108.6-108.8↑ | Grey, f.g. A well-sorted feldspar crystal ash with abundant green fiamme. These are clearly squished vesicles and glass shards. Many exhibit typical cuni-linear forms. Slight alignment of shards indicates layering. Possibly a welded unit. Perlitic textures at top of vitric ash unit. May be a separate more glassy tuff bed. Bedding @ 104.6 m Narrow beds of perlite 5-20 cm thick occur sporadically throughout interval. Slight acid leaching to give cavities - lined with drusy quartz in places. | 22 35 | «VW ARG» Very slightly argillized. More an overall bleaching. | «Tr mc» in acid leach cavities near base of interval. Bladed mc noted in some cavities. | |
| 107.60 TO 115.10 | «PERLITE» ↓113.9-114.3↑ «BALLIFEROUS PERLITE» | Dark grey. Classic perlite. this interval could have been a glassy volcanic flow. Well defined curved fracture surfaces define a web texture. The rock is aphanitic and siliceous. Probably aphanitic in composition. A bedded sequence of perlitic ash tuffs exhibiting irregular shaped balls along certain bedding planes. These are densely packed to the point of coalescing into bubble like masses. Balls range from 5 mm to 15 mm. Bedding @ 113.9 m | 45 | «M CL» Chloritization of the groundmass | | |
| 115.10 TO 127.30 | «PERLITE» ↓115.1-119.2↑ «BALLIFEROUS PERLITE» ↓117.3-117.5↑ ↓117.5- | Medium grey, aphanitic. More of the same rock. This interval contains a fairly wide zone of balls Balls scattered throughout this section. Most are completely round, but a few are composites or amoeboid aggregates. Average size is about 1.5 mm. There is a general increase in size down interval. Pervasive replacement of groundmass by grey quartz | | «M CL, W CA» Chlorite alteration increases down interval. The matrix also contains increasing amounts of calcite as perlite fracture fillings and as disseminations in the groundmass. The rock is fairly soft compared to the previous interval. «M CA, M CL» «W-M SIL» | | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|---|-------------|---|---|---------|
| | 127.3↓ | | | «M-S CA, M CL» | | |
| 127.30 TO 142.30 | «TUFF BX» ↓140.1-140.4↓ | Green, c.g. A depositional breccia unit composed of angular crystal tuff and rhyolite clasts. The unit appears to be crudely bedded. This is based on size variations and clast populations. Overall, it is matrix supported with clasts up to 45 mm. Bleaching of frags. | | «M CL, W CA, W SIL» Clasts and matrix contain pervasive chlorite and calcite as microveins and as matrix. Local patches of silicification noted in breccia matrix. Patches of brown hematite also occur in matrix. «M SIL» | «Tr-3% py» Variable pyrite content gradually increasing downhole. Most occurs as disseminated cubes in matrix. Crystal aggregates of py up to 5 mm across also noted. These are quite sparse. | |
| 142.30 TO 148.90 | «TUFF BX» ↓144.7-145.0↓ «QZ STWK» ↓145.4-145.6↓ ↓147.3-147.9↓ | Grey to green. A coarser grained block breccia consisting of boulder size fragments of flow banded rhyolite, rhyolitic material and crystal tuff. Between large clasts, which range up to 60 mm, smaller poorly sorted breccia frags form a matrix. These are mostly fragment supported. No bedding is visible. Contact @ 148.9 m A narrow zone of strong pervasive chlorite altn. | 40 | «M-S ARG, W-M CL, M CA» Clay alteration distinguishes this interval from the previous one. Large segments of the interval are bleached to a yellow-grey by the clay altn. These sections contain local qz-py stockworks made up to microveinlets. Calcite veinlets up to 1 cm noted throughout interval. «S CL» «S CL, M CA» | «5% py» in microveins in argillic altered breccia host. «15-20% py» as disseminations. «5-10% py» | |
| 148.90 TO 157.30 | «VITRIC RHYOLITE TUFFS/FB RHYOLITE» ↓153.4-157.3↓ | Pale grey, f.g. A well laminated section of moderate to highly siliceous felsic ash tuffs. Perlitic textures occur throughout suggesting a high original glass component. Fine lamination noted on a mm to cm scale. In places these are contorted by soft sediment deformation. Laminations @ Siliceous section. Probably primary - not introduced. | 40 | «W CA» Not very altered. Possibly slightly argillized. A loose stockwork of calcite microveins is present throughout. These do not exceed 1 cm in width. | «Tr py» | |
| 157.30 TO 161.70 | «FLOW BANDED RHYOLITE» or FB RHYL! ↓157.9-158.0↓ | Green-pink, f.g. Devitrified flow banded rhyolite. Pink and green alteration make this unit distinct. Bedding is on a 1 to 50 cm scale. One large bed of siliceous-rhyolite tuff is noted from 159.4 to 159.9 m. Bedding @ 159.2 m Pyrite-calcite vein. | 40 | «W-M CA, W CL, M KF?» Banded pale green and pink alteration. Green caused by weak chlorite. Pink could be feldspar. This however does not stain with cobaltinitite. | «1-2% py» «80% py vein» | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|-----------------|--|--|---------|
| | †159.4-159.9† «RHYOLITE ASH TUFF» †160.4-160.7† «QZ STWK» | Fairly massive, siliceous tuff bed. Crude banding visible. Distinguished by fine spots of py. These are about 0.5 mm wide and make up about 1% of rock Hydrobrecciated and healed interval. Grey qz veins form stockwork over short interval. One has a fairly large (4 cm) vuggy cavity @ 160.6 m. Clasts are of silicified ash tuff. | | «I SIL» Veins have patches of yellow clay as selvages. | «1% py spots» | |
| 161.70 TO 184.10 | «HEMATITIC RHYOLITE BX» †178.9-183.0† †180.4-180.7† †183.0-184.1† | Green-brown, c.g. A coarse grained interval of block tuff breccia. Contains fragments up to 60 cm of black & white striped FB rhyolite, perlitic vitric ash tuff and crystal tuff. Matrix is also of fine grained breccia cemented by hematite. Clasts are angular and poorly sorted. Alteration is also patchy - probably controlled by clast chemistry. dominantly propylitic. | | «W-M CA, M CL» Chlorite occurs as intense alteration of clasts and groundmass over 1-2 m sectins. These have abundant calcite stringers which form a loose stockwork. «S CA» «S CL» «S CL» | «1-3% py» as disseminations primarily in the most chloritic zones. | |
| 184.10 TO 194.20 | «BLACK BANDED RHYOLITE» †184.1-188.7† 194.2 M | White, f.g. Flow banded rhyolite with distinctive 5-10 mm black bands. These are spaced at 1 to 10 cm intervals. Near top of the interval, the rock is weakly chloritic with 10-15 cm interbeds of medium to dark brown crystal tuffs. At around 188.3 m the ashes become white and qz rich. They remain this way to EOH. Beds @ 188.7 m EOH | 20 0 | «W CL» «W CL» | «3% py- STWK» Pyrite stringers occur throughout the interval. These are mostly narrow - up to 1 mm. Pods of py also noted near bottom of hole. These may be irregular veins. Most of these reach 1 cm across. | |

HOLE NUMBER: CL-91-11

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA | GEOCHEMICAL | | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----------|----------|
| | | | | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | | |
| 43901 | 27.40 | 29.40 | 2.00 | 0.1 | 35 | 2 | 21 | 17 | 1 | 68 | 2 | 65 | 18 | | |
| 43902 | 29.40 | 31.00 | 1.60 | 0.3 | 32 | 1 | 38 | 17 | 1 | 56 | 6 | 45 | 40 | | |
| 43903 | 31.00 | 32.60 | 1.60 | 0.3 | 35 | 1 | 22 | 16 | 1 | 49 | 2 | 55 | 50 | | |
| 43904 | 32.60 | 34.90 | 2.30 | 0.3 | 27 | 1 | 21 | 16 | 1 | 51 | 2 | 30 | 20 | | |
| 43905 | 34.90 | 37.50 | 2.60 | 0.1 | 25 | 1 | 20 | 18 | 1 | 73 | 1 | 35 | 100 | | |
| 43906 | 37.50 | 38.00 | 0.50 | 0.1 | 31 | 1 | 26 | 29 | 1 | 65 | 2 | 90 | 20 | | |
| 43907 | 38.00 | 39.80 | 1.80 | 0.1 | 36 | 1 | 19 | 20 | 1 | 55 | 1 | 60 | 17 | | |
| 43908 | 39.80 | 40.10 | 0.30 | 0.4 | 122 | 1 | 92 | 21 | 3 | 75 | 2 | 130 | 20 | | |
| 43909 | 40.10 | 41.00 | 0.90 | 0.5 | 87 | 2 | 34 | 22 | 4 | 57 | 2 | 60 | 24 | | |
| 43910 | 41.00 | 42.90 | 1.90 | 0.9 | 106 | 2 | 26 | 14 | 5 | 45 | 8 | 80 | 28 | | |
| 43911 | 42.90 | 43.90 | 1.00 | 1.6 | 455 | 2 | 20 | 12 | 18 | 25 | 69 | 155 | 17 | | |
| 43912 | 43.90 | 45.90 | 2.00 | 1.2 | 166 | 1 | 27 | 12 | 6 | 34 | 58 | 170 | 100 | | |
| 43913 | 45.90 | 46.90 | 1.00 | 1.2 | 347 | 1 | 17 | 12 | 13 | 35 | 55 | 20 | 60 | | |
| 43914 | 46.90 | 48.90 | 2.00 | 0.7 | 105 | 1 | 23 | 19 | 8 | 46 | 9 | 75 | 50 | | |
| 43915 | 48.90 | 49.50 | 0.60 | 0.7 | 105 | 1 | 18 | 15 | 6 | 38 | 4 | 70 | 100 | | |
| 43916 | 49.50 | 51.40 | 1.90 | 0.4 | 54 | 1 | 22 | 16 | 3 | 42 | 2 | 40 | 50 | | |
| 43917 | 51.40 | 53.60 | 2.20 | 0.6 | 47 | 1 | 21 | 19 | 2 | 43 | 3 | 25 | 40 | | |
| 43918 | 53.60 | 55.60 | 2.00 | 0.8 | 112 | 1 | 17 | 17 | 6 | 42 | 2 | 40 | 30 | | |
| 43919 | 55.60 | 57.60 | 2.00 | 0.8 | 102 | 1 | 19 | 18 | 4 | 47 | 7 | 45 | 18 | | |
| 43920 | 57.60 | 58.40 | 0.80 | 0.5 | 94 | 1 | 16 | 17 | 3 | 31 | 2 | 50 | 8 | | |
| 43921 | 58.40 | 59.30 | 0.90 | 0.3 | 72 | 1 | 20 | 17 | 2 | 51 | 1 | 65 | 19 | | |
| 43922 | 59.30 | 59.70 | 0.40 | 0.1 | 18 | 1 | 22 | 19 | 1 | 84 | 2 | 35 | 6 | | |
| 43923 | 64.90 | 66.90 | 2.00 | 0.1 | 147 | 1 | 21 | 21 | 1 | 43 | 8 | 45 | 18 | | |
| 43924 | 66.90 | 67.80 | 0.90 | 0.3 | 47 | 1 | 24 | 20 | 1 | 52 | 1 | 40 | 8 | | |
| 43925 | 67.80 | 69.80 | 2.00 | 0.1 | 85 | 2 | 23 | 19 | 1 | 51 | 3 | 15 | 38 | | |
| 43926 | 69.80 | 70.80 | 1.00 | 0.4 | 101 | 1 | 19 | 20 | 1 | 39 | 56 | 45 | 11 | | |
| 43927 | 70.80 | 72.80 | 2.00 | 0.7 | 155 | 1 | 20 | 18 | 5 | 45 | 37 | 55 | 50 | | |
| 43928 | 72.80 | 74.50 | 1.70 | 0.5 | 47 | 1 | 21 | 20 | 3 | 44 | 5 | 40 | 30 | | |
| 43929 | 76.50 | 78.10 | 1.60 | 0.9 | 113 | 1 | 19 | 15 | 7 | 41 | 4 | 20 | 21 | | |
| 43930 | 78.10 | 79.30 | 1.20 | 0.6 | 54 | 1 | 22 | 12 | 3 | 42 | 1 | 10 | 50 | | |
| 43931 | 79.30 | 81.40 | 2.10 | 1 | 250 | 1 | 19 | 15 | 12 | 41 | 62 | 15 | 24 | | |
| 43932 | 81.40 | 83.40 | 2.00 | 0.9 | 168 | 1 | 22 | 18 | 9 | 43 | 10 | 40 | 21 | | |
| 43933 | 83.40 | 84.70 | 1.30 | 0.9 | 154 | 1 | 19 | 13 | 6 | 40 | 6 | 30 | 10 | | |
| 43934 | 84.70 | 85.20 | 0.50 | 1.8 | 691 | 1 | 18 | 17 | 27 | 33 | 171 | 60 | 20 | | |
| 43935 | 85.20 | 86.10 | 0.90 | 0.8 | 94 | 2 | 18 | 18 | 4 | 38 | 7 | 40 | 20 | | |
| 43936 | 86.10 | 86.30 | 0.20 | 0.6 | 35 | 2 | 13 | 16 | 1 | 33 | 6 | 50 | 3 | | |
| 43937 | 86.30 | 88.30 | 2.00 | 0.7 | 50 | 2 | 18 | 18 | 3 | 35 | 1 | 30 | 18 | | |
| 43938 | 88.30 | 89.70 | 1.40 | 0.9 | 55 | 2 | 23 | 17 | 3 | 44 | 2 | 40 | 17 | | |

HOLE NUMBER: CL-91-11

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ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43939 | 89.70 | 90.00 | 0.30 | 0.2 | 71 | 3 | 11 | 16 | 1 | 35 | 2 | 75 | 4 |
| 43940 | 90.00 | 92.00 | 2.00 | 0.4 | 50 | 2 | 19 | 15 | 1 | 34 | 4 | 60 | 50 |
| 43941 | 92.00 | 94.00 | 2.00 | 0.4 | 44 | 2 | 26 | 20 | 4 | 47 | 1 | 55 | 14 |
| 43942 | 94.00 | 94.50 | 0.50 | 0.3 | 47 | 2 | 24 | 13 | 1 | 35 | 3 | 35 | 5 |
| 43943 | 94.50 | 95.10 | 0.60 | 0.4 | 44 | 3 | 18 | 16 | 2 | 31 | 3 | 65 | 5 |
| 43944 | 95.10 | 96.60 | 1.50 | 0.2 | 38 | 2 | 14 | 18 | 1 | 41 | 1 | 45 | 12 |
| 43945 | 96.60 | 98.40 | 1.80 | 0.4 | 35 | 2 | 24 | 20 | 1 | 42 | 6 | 25 | 5 |
| 43946 | 98.40 | 99.10 | 0.70 | 0.5 | 25 | 2 | 14 | 17 | 1 | 36 | 2 | 45 | 3 |
| 43947 | 99.10 | 100.40 | 1.30 | 0.4 | 22 | 3 | 18 | 21 | 1 | 40 | 9 | 40 | 3 |

HOLE NUMBER: CL-91-11

ASSAY SHEET

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| Sample | From (m) | To (m) | Length (m) | | | | | | | | | | |
|--------|----------|--------|------------|-----|-----|---|----|----|----|----|-----|-----|-----|
| 43901 | 27.40 | 29.40 | 2.00 | 0.1 | 35 | 2 | 21 | 17 | 1 | 68 | 2 | 65 | 18 |
| 43902 | 29.40 | 31.00 | 1.60 | 0.3 | 32 | 1 | 38 | 17 | 1 | 56 | 6 | 45 | 40 |
| 43903 | 31.00 | 32.60 | 1.60 | 0.3 | 35 | 1 | 22 | 16 | 1 | 49 | 2 | 55 | 50 |
| 43904 | 32.60 | 34.90 | 2.30 | 0.3 | 27 | 1 | 21 | 16 | 1 | 51 | 2 | 30 | 20 |
| 43905 | 34.90 | 37.50 | 2.60 | 0.1 | 25 | 1 | 20 | 18 | 1 | 73 | 1 | 35 | 100 |
| 43906 | 37.50 | 38.00 | 0.50 | 0.1 | 31 | 1 | 26 | 29 | 1 | 65 | 2 | 90 | 20 |
| 43907 | 38.00 | 39.80 | 1.80 | 0.1 | 36 | 1 | 19 | 20 | 1 | 55 | 1 | 60 | 17 |
| 43908 | 39.80 | 40.10 | 0.30 | 0.4 | 122 | 1 | 92 | 21 | 3 | 75 | 2 | 130 | 20 |
| 43909 | 40.10 | 41.00 | 0.90 | 0.5 | 87 | 2 | 34 | 22 | 4 | 57 | 2 | 60 | 24 |
| 43910 | 41.00 | 42.90 | 1.90 | 0.9 | 106 | 2 | 26 | 14 | 5 | 45 | 8 | 80 | 28 |
| 43911 | 42.90 | 43.90 | 1.00 | 1.6 | 455 | 2 | 20 | 12 | 18 | 25 | 69 | 155 | 17 |
| 43912 | 43.90 | 45.90 | 2.00 | 1.2 | 166 | 1 | 27 | 12 | 6 | 34 | 58 | 170 | 100 |
| 43913 | 45.90 | 46.90 | 1.00 | 1.2 | 347 | 1 | 17 | 12 | 13 | 35 | 55 | 20 | 60 |
| 43914 | 46.90 | 48.90 | 2.00 | 0.7 | 105 | 1 | 23 | 19 | 8 | 46 | 9 | 75 | 50 |
| 43915 | 48.90 | 49.50 | 0.60 | 0.7 | 105 | 1 | 18 | 15 | 6 | 38 | 4 | 70 | 100 |
| 43916 | 49.50 | 51.40 | 1.90 | 0.4 | 54 | 1 | 22 | 16 | 3 | 42 | 2 | 40 | 50 |
| 43917 | 51.40 | 53.60 | 2.20 | 0.6 | 47 | 1 | 21 | 19 | 2 | 43 | 3 | 25 | 40 |
| 43918 | 53.60 | 55.60 | 2.00 | 0.8 | 112 | 1 | 17 | 17 | 6 | 42 | 2 | 40 | 30 |
| 43919 | 55.60 | 57.60 | 2.00 | 0.8 | 102 | 1 | 19 | 18 | 4 | 47 | 7 | 45 | 18 |
| 43920 | 57.60 | 58.40 | 0.80 | 0.5 | 94 | 1 | 16 | 17 | 3 | 31 | 2 | 50 | 8 |
| 43921 | 58.40 | 59.30 | 0.90 | 0.3 | 72 | 1 | 20 | 17 | 2 | 51 | 1 | 65 | 19 |
| 43922 | 59.30 | 59.70 | 0.40 | 0.1 | 18 | 1 | 22 | 19 | 1 | 84 | 2 | 35 | 6 |
| 43923 | 64.90 | 66.90 | 2.00 | 0.1 | 147 | 1 | 21 | 21 | 1 | 43 | 8 | 45 | 18 |
| 43924 | 66.90 | 67.80 | 0.90 | 0.3 | 47 | 1 | 24 | 20 | 1 | 52 | 1 | 40 | 8 |
| 43925 | 67.80 | 69.80 | 2.00 | 0.1 | 85 | 2 | 23 | 19 | 1 | 51 | 3 | 15 | 38 |
| 43926 | 69.80 | 70.80 | 1.00 | 0.4 | 101 | 1 | 19 | 20 | 1 | 39 | 56 | 45 | 11 |
| 43927 | 70.80 | 72.80 | 2.00 | 0.7 | 155 | 1 | 20 | 18 | 5 | 45 | 37 | 55 | 50 |
| 43928 | 72.80 | 74.50 | 1.70 | 0.5 | 47 | 1 | 21 | 20 | 3 | 44 | 5 | 40 | 30 |
| 43929 | 76.50 | 78.10 | 1.60 | 0.9 | 113 | 1 | 19 | 15 | 7 | 41 | 4 | 20 | 21 |
| 43930 | 78.10 | 79.30 | 1.20 | 0.6 | 54 | 1 | 22 | 12 | 3 | 42 | 1 | 10 | 50 |
| 43931 | 79.30 | 81.40 | 2.10 | 1 | 250 | 1 | 19 | 15 | 12 | 41 | 62 | 15 | 24 |
| 43932 | 81.40 | 83.40 | 2.00 | 0.9 | 168 | 1 | 22 | 18 | 9 | 43 | 10 | 40 | 21 |
| 43933 | 83.40 | 84.70 | 1.30 | 0.9 | 154 | 1 | 19 | 13 | 6 | 40 | 6 | 30 | 10 |
| 43934 | 84.70 | 85.20 | 0.50 | 1.8 | 691 | 1 | 18 | 17 | 27 | 33 | 171 | 60 | 20 |
| 43935 | 85.20 | 86.10 | 0.90 | 0.8 | 94 | 2 | 18 | 18 | 4 | 38 | 7 | 40 | 20 |
| 43936 | 86.10 | 86.30 | 0.20 | 0.6 | 35 | 2 | 13 | 16 | 1 | 33 | 6 | 50 | 3 |
| 43937 | 86.30 | 88.30 | 2.00 | 0.7 | 50 | 2 | 18 | 18 | 3 | 35 | 1 | 30 | 18 |
| 43938 | 88.30 | 89.70 | 1.40 | 0.9 | 55 | 2 | 23 | 17 | 3 | 44 | 2 | 40 | 17 |
| 43939 | 89.70 | 90.00 | 0.30 | 0.2 | 71 | 3 | 11 | 16 | 1 | 35 | 2 | 75 | 4 |

HOLE NUMBER: CL-91-11

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | | | | | | | | | | |
|--------|----------|--------|------------|-----|----|---|----|----|---|----|---|----|----|
| 43940 | 90.00 | 92.00 | 2.00 | 0.4 | 50 | 2 | 19 | 15 | 1 | 34 | 4 | 60 | 50 |
| 43941 | 92.00 | 94.00 | 2.00 | 0.4 | 44 | 2 | 26 | 20 | 4 | 47 | 1 | 55 | 14 |
| 43942 | 94.00 | 94.50 | 0.50 | 0.3 | 47 | 2 | 24 | 13 | 1 | 35 | 3 | 35 | 5 |
| 43943 | 94.50 | 95.10 | 0.60 | 0.4 | 44 | 3 | 18 | 16 | 2 | 31 | 3 | 65 | 5 |
| 43944 | 95.10 | 96.60 | 1.50 | 0.2 | 38 | 2 | 14 | 18 | 1 | 41 | 1 | 45 | 12 |
| 43945 | 96.60 | 98.40 | 1.80 | 0.4 | 35 | 2 | 24 | 20 | 1 | 42 | 6 | 25 | 5 |
| 43946 | 98.40 | 99.10 | 0.70 | 0.5 | 25 | 2 | 14 | 17 | 1 | 36 | 2 | 45 | 3 |
| 43947 | 99.10 | 100.40 | 1.30 | 0.4 | 22 | 3 | 18 | 21 | 1 | 40 | 9 | 40 | 3 |

HOLE NUMBER: CL-91-11

GEOCHEM. SHEET

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|---|---|-------------|--|---|------------|
| 0.00 TO 81.40 | «LAPILLI TUFF» | Olive green, c.g. A thick unit composed predominantly of angular rhyolite lapilli in a fine grain tuffaceous matrix. Clasts are randomly oriented with no apparent layering or bedding. Sizes vary from 0.5 to 50 mm. Clast types include sericitized Qz-feldspar phyrlic rhyolite, perlite, and amygdaloidal andesite. Rare clasts of pyritized material noted. These occur @ 61.6 and 70.4 m. | | «I-X ARG, S SER» Pervasive clay-sericite alteration. Matrix is pervasively altered to an olive green clay, possibly celadonite. Lapilli are altered to a white clay and/or sericite. Sericite noted due to its silky sheen. | Only seen in scattered pyritized clasts. These are pre-depositional as the clast boundaries cut the pyritization boundaries. Dark grey veinlets near top of the hole are py-clay. | |
| 81.40 TO 99.70 | «BEDDED CRYSTAL TUFFS» ‡82.7-83.0‡ «FAULT GOUGE» ‡83.3-83.6‡ «FAULT» ‡90.1-90.3‡ | Grey green. A thickly bedded sequence of feldspar, feldspar-biotite and crystal lithic tuffs. Beds range from 10 to 120 cm in apparent thickness. Grading noted in some sections. These fine upwards (e.g. 84.6-85.5m). Narrow intervals of lithic tuff and lapilli tuff also present. Some crystal tuff beds contain up to 35% mafic minerals. Their habit suggests biotite and Mb. Bedding @ 90.6 m Narrow stringers qz with bleached envelopes form a narrow stockwork zone. | 40 | «I ARG, S SER» As above. Complete clay replacement of clasts and matrix. Primary textures however are not destroyed. Calcite is present as irregular, discontinuous stringers and as fine grained cement to the matrix. «W SIL» | «Tr py» Pyritic-siliceous clasts noted in the lithic sections. Traces of disseminated py also noted throughout. «5% py» as finely disseminated crystals throughout sil. matrix. | |
| 99.70 TO 106.80 | «MINERALIZED FAULT ZONE» ‡99.7-101.2‡ «MASSIVE YELLOW CLAY» ‡102.2-102.7‡ «PYRITIZED FAULT BX» ‡103.9- | Yellow-green. A complex zone of intensely clay-altered fault breccia. Where present the host rock appears to be the crystal tuffs described above. Several sub-intervals defined by alteration and faulting textures are present. Intensely clay altered fault breccia. Zone consists mostly of dense yellow-grey clay with angular, more competent clasts of less altered wall rock. Some frags are moderately silicified. Pyritic Qz vein clasts abundant low in the interval. These reach 3 cm in length. | | «I ARG, W SIL» Intense argillic alteration of the fault zone to a massive gougy interval with remnant angular clasts. Almost complete replacement by clay. The zone is putty-like and easily squashed. | «3-5% py» Most pyrite occurs as fine-grained clasts in the fault gouge. In places, however, pyrite forms the matrix to fault breccia and stockwork zones within the fault. This could be a significant hydrothermal conduit. «1% py» disseminated. «5-10% py» as irregular patches - perhaps replacing clasts or interstitial to relict clasts | XRD sample |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-12

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|-------------|---|--|--------------------------------|
| | 104.8f «PYRITIC HEALED FAULT BX» 104.8-106.8f «CLAY STWK» | A zone of hydrofractured and brecciated fault material healed and stockworked by fine-grained pyrite. Host rock is mostly flow banded rhyolite or latite. Clasts of fault breccia noted - multi-phase. Lower contact @ A zone of yellow-grey clay veinlets. These form an irregular stockwork. | 40 | | «20-30% py» As a breccia matrix and as broken veinlets. | Mineralization syn-faulting. |
| 106.80 TO 112.60 | «RHYOLITE DYKE» | White, m.g. A feldspar-qz phyric rhyolite. Could be intrusive (i.e. dyke) or could be a welded ash flow. No flattening or banding textures noted, therefore most likely a feeder dyke. From top to bottom of the interval, the degree of argillic alteration diminishes from strong to weak. | | «W ARG» Argillic alteration decreases in intensity from top to bottom. Mostly as alteration of groundmass feldspar. | «py + MC-3%» as a weak stockwork. Veinlets are randomly oriented and range up to 3 mm. One larger breccia vein up to 3 cm wide is present at 108.7 m. This contains fine marcasite blades. | Core badly broken at 110.7 m. |
| 112.60 TO 115.60 | «FELDSPAR CRYSTAL TUFF» | Pale green. A fairly faulted interval of feldspar crystal ash tuff. Lapilli size clasts of perlitic rhyolite noted. The largest is about 5 cm in diam. Fault contact @ 115.6 m | 25 | «M-S ARG, W SIL» Pervasive clay and/or green sericite alteration of the matrix. Plagioclase crystal forms well preserved. Lapilli are not as altered. Irregular veinlets of white or grey qz form a very sparse stockwork. Rare pyrite veinlets also occur. | «Tr-1% py» as microveins. | |
| 115.60 TO 117.80 | «FAULT BX» | Grey. Gougy and highly brecciated fault zone containing perhaps 90% rock fragments of various types. The dominant type is vein material. This consists of rounded highly pyritic siliceous material - perhaps vein. Rhyolite and clasts of intense clay material - the feldspar crystal tuff also seen. Lower contact | 25 | «I ARG» Intense pervasive argillic alteration. Clasts of vein and silicified material also noted. | «3-5% py» as patches, vein fragments and as disseminations through the fault matrix. | |
| 117.80 TO 123.70 | «FELDSPAR PORPHYRY» 120.6-120.8f | Green, f.g. Feldspar phyric rock with crude flow banding-like textures. Euhedral plagioclase phenos up to 5 mm in size comprise 15-2% of the rock. Groundmass is aphanitic and pervasively altered. The interval is variably broken, some sections are almost gougy, possibly due to proximity to the fault. | | «M-S ARG, W CL» Pervasive clay alteration of the phenos and the clasts. The phenos are yellow-brown to green in colour, while the groundmass is an olive green to pink. Narrow veinlets with chlorite envelopes quite abundant. No calcite seen however. Yellow clay veins noted below 123.0 m. | «1% py» Narrow pyrite stringers are widespread throughout interval. Pyrite veinlets increase in frequency to bottom of interval. | Dyke or flow? Intermediate? |

HOLE NUMBER: CL-91-12

DRILL HOLE RECORD

LOGGED BY: D.R. HEBERLEIN

PAGE: 3

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|--------------|--|---|---------|
| | «FAULT» | | | | | |
| 123.70 TO 127.00 | «LATITE» ‡123.7-126.1‡ ‡125.0-125.3‡ «FAULT» ‡126.1-126.6‡ ‡126.6-126.62‡ | Beige, f.g. Flow banded latite interval. As with the previous intervals, this unit is intensely broken by faulting. Narrow zones of gouge noted throughout. Rubble and gougy fault breccia. Mostly argillized and milled wallrock fragments up to 1 cm. Weak pyritization of matrix. 2 cm chlorite vein on contact. | 20 40 | «W-M ARG, W SIL» Argillic alteration decreases dramatically in this interval. Rock is increasingly silicified to lower contact. «S-I ARG» Gougy and strongly argillized zone. Breccia textures with siliceous clasts - possibly vein material. | Abundant to strong py veining parallel to and perpendicular to flow banding. Coarser veins contain bladed marcasite crystals. «5% py, 1-3% mc» «py STWK 15%» Dusty py-mc veins follow flow banding in the latite. | |
| 127.00 TO 127.50 | «SILICIFIED FAULT BX» | Same texture as the fault gouge in the previous interval but completely healed by glassy grey qz. The most abundant clast type is the flow banded latite. Lower contact @ | 40 | «I SIL» Fault breccia completely healed by grey glassy silica. The frags are more or less silicified also. Most, however, can still be scratched with a knife. | «5% py + mc» Most sulphide occurs in the qz matrix as fine grained to dusty masses. This gives the breccia a dark grey to black colour in places. | |
| 127.50 TO 140.90 | «PY STWK» «FELDSPAR PORPHYRY CRYSTAL TUFF» ‡129.7-129.8‡ «VEIN BX» ‡130.8- | Yellow grey, f.g. A thick interval of feldspar crystal tuff or porphyry - difficult to tell which. Plagioclase phenocrysts comprise about 10-20% of the unit. These are mostly euhedral and range from 3 to 8mm across. Most are altered to a pale yellow clay. In silicified portions, weak banding is present. This is highlighted by alignment of phenocrysts and flow textures in the matrix. Pale grey to pink tabular phenocrysts may be relict biotites or Hb. A few rounded qz phenos also noted. Banding @ 131.7 m | 45 | «W-S SIL, W-M ARG» Pervasive argillic alteration is dominant over silicification. Feldspar phenos are preferentially altered to a yellow clay. The matrix is also weakly to moderately clay altered. Silicification is patchy (see below) Diffuse zones of grey - pervasive silicification gradually become more abundant and stronger downhole. Narrow silicification envelopes up to 2 mm wide occur around some stringers. «I SIL» | «5-20% py» Well developed stockwork of py and py-qz veinlets. Marcasite also fairly abundant in the veins. Vein densities vary but average about 13 per metre. | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|-------------|--|---|-----------------------------------|
| | 130.9† ‡132.2- 132.5† ‡136.6- 140.9† «FAULT» | Approaching another fault zone. The rock is more fractured and gougy. | | «I SIL» «M-S SIL» «M-S ARG» | | |
| 140.90 TO 145.20 | «SILICIFIED BX» | Grey. Highly silicified breccia zone - with heterolithic fragment population. Clasts are highly angular and poorly sorted. Clasts range from <0.5 cm to >15 cm. Most are completely randomly oriented. Clast types noted include feldspar porphyry, lapilli tuff and fine grained lithic ash tuff. The breccia is in part matrix supported and in part fragment supported. Unit may be a depositional or healed fault breccia. | | «S-I SIL» Pervasive replacement of breccia matrix by grey glassy quartz. Matrix has some open spaces filled by yellow clay. These comprise <5% of zone. Clasts are argillized and variably silicified. Some have bleached alteration haloes. Pyrite clasts also noted. These may be from pre-existing stockwork. | «2-5% py» Mostly as rounded "clasts" of vein material. Fine disseminated pyrite also noted in the darker silica matrix. Pyrite replacement of clasts noted. Py crystal aggregates form cores to feldspar porphyry clasts. | |
| 145.20 TO 160.90 | «FELDSPAR CRYSTAL TUFF» (VITRIC TUFF) ‡160.4- 160.9† | Yellow grey, f.g. A thick unit of feldspar crystal tuff. The rock consists of about 20% euhedral feldspar phenocrysts in a clay altered aphanitic matrix. Some intervals in the unit show a strong flattening texture suggestive of welding. Best example occurs at 151.3-152.0 m. With hand lens distinct shards are visible. Banding @ 157.0 m | 20 | «M-S ARG, W SIL» Phenos and groundmass are completely argillized and perhaps sericitized. Phenos altered to a yellow green clay. Areas of pervasive silicification show up a medium grey zone in which the feldspars are white (e.g. 156.0 m) «M-S SIL» | «3-5% py STWK» Pyrite stockwork developed throughout unit. Qz-py occur every 10-15 cm. These reach 3 mm in width and have essentially random orientations. | |
| 160.90 TO 165.60 | «SILICIFIED BX» (HYDROTHERMAL) ‡163.8- 164.1† «SANDY BX» ‡164.2- 164.4† | Grey. A spectacular breccia zone consisting of angular and rotated clasts of wallrock in a completely silicified matrix. The clasts are unsorted with max. dimensions of about 80 mm. Some textures look like milling - as the clasts are ground down to a very small size. A sorted and unsilicified section within the silicified unit. | | «I SIL» Strong pervasive silicification. Possible silica healing of a hydrothermal conduit. The breccia is cut by a 5 cm porcellanous qz vein @ 164.5 m. Bright green clay patches and altered clasts scattered through zone. Weakly consolidated or cemented. | «5-10% py» as clasts of fine grained pyrite and as rims around larger clasts. In places the rims have become detached to form pseudo-clasts. «15% py» as clasts in the breccia. | XRD sample @ 166.3 m. Green clay. |
| 165.60 TO 169.00 | «FAULT BX» | Grey. Structurally brecciated interval. This zone contains more rounded clasts of various volcanic wall rocks and also clasts of silicified breccia. This suggests a late structure. Unlike the above breccia, this one is totally clast supported. | | «M-S SIL, W ARG» | «3-5% py» Mainly as clasts within the breccia. Some veinlike streaks also noted. | |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-12

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|--|-------------|---|---|------------------------------|
| | <p>‡165.5-166.1‡ «QZ-PY STWK»</p> <p>‡166.1-166.2‡ «FAULT GOUGE»</p> <p>‡166.7-167.1‡</p> | <p>Max. fragment size is 40 mm.</p> <p>Yellow. Bleached and strongly silicified feldspar porphyry. Irregular stockwork of qz-py veins throughout section.</p> <p>Contains fragments of grey qz veins and abundant bright green clay. Lower contact @ 165.6 m</p> | 25 | <p>«S SIL, M ARG»</p> <p>«S ARG, S CL» Strong green colour caused either by chlorite or green clay Section has a gougy habit.</p> | «3% py» as vein fillings. | |
| 169.00 TO 171.20 | «SILICIFIED BX» | Yellow grey. Similar to the previous fault breccia but variably silicified. Clast supported - poorly sorted. Max. fragment size is about 15 cm. Clast types include feldspar pophyry & qz-py vein. Less silicified sections are distinctly gougy. These are mostly composed of white to grey clay. | | «M-S SIL, M ARG» Silicification decreasing downhole. | «3% py» as clasts and ribbon patches in breccia. | |
| 171.20 TO 172.10 | «CRYSTAL ASH TUFFS» | Pale green, m.g. thinly bedded crystal ash tuffs composed mainly of white feldspar crystals. Beds are defined by grain size. Most are about 3-5 cm thick. Small lapilli occur in thicker beds. These reach 3 cm in diameter. | | «W ARG» Pale green alteration of ground mass could be sericitization. | «1% py» as disseminated euhedral crystals in matrix and as narrow veinlets. Bladed forms noted. These could be marcasite. | |
| 172.10 TO 172.60 | «FLOW BANDED RHYOLITE» | Pale green. A large block or bed of perlite banded rhyolite. Black vitreous bands up to 1 cm wide typify this unit. | | «M ARG» Pervasive argillic alteration. Pale green colour may also be due to sericite. | «11-3% py» as veinlets. | |
| 172.60 TO 190.20 | «RHYOLITE BX» | Purple & green, c.g. A chaotic monomictic breccia composed of flow banded rhyolite clasts from mm to over a metre in size. The clasts are angular and sit in a fine grained breccia matrix which is pervasively hematized. The rhyolite clasts are strongly flow banded and exhibit perlitic textures suggesting that they were once glassy. | | «W ARG, M HE» Weak argillic alt/seric of the devitrified rhyolite clasts. Matrix healed with hematite. | «1% py» Pyritization of small clasts. Py also occurs as cubes in hematitic matrix and in micro fractures. | |
| 190.20 TO 197.20 | «FELDSPAR BIOTITE PORPHYRY» | Green, m.g. A homogenous porphyritic intrusion consisting of euhedral plagioclase phenocrysts in a medium grained matrix of qz-PF and biotite. The top 2 to 3 metres are flow banded. This is highlighted by more qz rich layers and alignment of biotite phenos. | | «W CL» Weak chloritization of the mafics. | | Intrusion!! -c.g CL-91-05 |

HOLE NUMBER: CL-91-12

DRILL HOLE RECORD

LOGGED BY: D.R. HEBERLEIN

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HOLE NUMBER: CL-91-12

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------|--------------|-----------------------|----------------|------------|----------------|---------|
| | 197.2 m | EOH | | | | |

HOLE NUMBER: CL-91-12

DRILL HOLE RECORD

LOGGED BY: D.R. HEBERLEIN

PAGE: 7

| Sample | From (m) | To (m) | Length (m) | ESTIMA | GEOCHEMICAL | | | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|--|-----------|----------|
| | | | | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | | | |
| 43994 | 57.00 | 59.00 | 2.00 | 0.3 | 61 | 1 | 33 | 23 | 12 | 69 | 2 | 1885 | 30 | | | |
| 43995 | 61.00 | 63.00 | 2.00 | 0.9 | 96 | 2 | 16 | 21 | 10 | 29 | 10 | 140 | 16 | | | |
| 43996 | 65.00 | 67.00 | 2.00 | 0.6 | 109 | 1 | 14 | 15 | 8 | 34 | 1 | 85 | 26 | | | |
| 43997 | 69.00 | 71.00 | 2.00 | 0.6 | 60 | 1 | 16 | 20 | 5 | 27 | 6 | 55 | 15 | | | |
| 43998 | 73.00 | 75.00 | 2.00 | 0.6 | 41 | 1 | 15 | 16 | 1 | 24 | 2 | 35 | 11 | | | |
| 43999 | 77.00 | 79.00 | 2.00 | 0.7 | 65 | 1 | 18 | 18 | 4 | 29 | 4 | 55 | 26 | | | |
| 44000 | 79.00 | 81.40 | 2.40 | 0.6 | 47 | 2 | 18 | 18 | 4 | 36 | 3 | 70 | 32 | | | |
| 44001 | 81.40 | 83.40 | 2.00 | 0.7 | 164 | 2 | 28 | 22 | 23 | 59 | 2 | 540 | 25 | | | |
| 44002 | 83.40 | 85.40 | 2.00 | 0.6 | 150 | 2 | 23 | 20 | 17 | 62 | 1 | 550 | 30 | | | |
| 44003 | 87.40 | 89.40 | 2.00 | 0.2 | 66 | 1 | 24 | 22 | 7 | 63 | 2 | 335 | 34 | | | |
| 44004 | 89.40 | 91.40 | 2.00 | 0.9 | 635 | 1 | 21 | 19 | 21 | 49 | 11 | 485 | 24 | | | |
| 44005 | 91.40 | 92.90 | 1.50 | 0.4 | 81 | 2 | 24 | 21 | 6 | 63 | 2 | 440 | 27 | | | |
| 44006 | 92.90 | 94.90 | 2.00 | 0.6 | 131 | 1 | 12 | 18 | 7 | 41 | 5 | 335 | 19 | | | |
| 44007 | 94.90 | 96.90 | 2.00 | 0.8 | 241 | 1 | 24 | 20 | 14 | 56 | 1 | 175 | 13 | | | |
| 44008 | 96.90 | 98.90 | 2.00 | 0.5 | 154 | 1 | 20 | 20 | 14 | 58 | 1 | 160 | 14 | | | |
| 44009 | 98.90 | 99.70 | 0.80 | 0.4 | 36 | 2 | 23 | 25 | 6 | 53 | 2 | 175 | 11 | | | |
| 44010 | 99.70 | 101.20 | 1.50 | 0.3 | 55 | 2 | 24 | 22 | 8 | 61 | 1 | 245 | 13 | | | |
| 44011 | 101.20 | 102.00 | 0.80 | 0.6 | 166 | 1 | 32 | 23 | 12 | 65 | 1 | 345 | 14 | | | |
| 44012 | 102.00 | 103.90 | 1.90 | 1.4 | 231 | 1 | 19 | 14 | 12 | 37 | 2 | 425 | 37 | | | |
| 44013 | 103.90 | 104.90 | 1.00 | 4.9 | 489 | 1 | 19 | 16 | 26 | 38 | 6 | 695 | 12 | | | |
| 44014 | 104.90 | 106.90 | 2.00 | 1.1 | 168 | 1 | 11 | 20 | 17 | 56 | 2 | 325 | 26 | | | |
| 44015 | 106.90 | 108.80 | 1.90 | 1.7 | 245 | 1 | 11 | 14 | 18 | 41 | 4 | 625 | 39 | | | |
| 44016 | 108.80 | 110.80 | 2.00 | 0.8 | 199 | 1 | 11 | 14 | 9 | 31 | 5 | 390 | 37 | | | |
| 44017 | 110.80 | 112.80 | 2.00 | 0.6 | 245 | 1 | 12 | 16 | 13 | 33 | 2 | 545 | 100 | | | |
| 44018 | 112.80 | 114.80 | 2.00 | 1 | 278 | 1 | 8 | 17 | 13 | 45 | 1 | 175 | 45 | | | |
| 44019 | 114.80 | 115.00 | 0.20 | 1.1 | 108 | 1 | 16 | 16 | 8 | 63 | 1 | 220 | 13 | | | |
| 44020 | 115.00 | 117.80 | 2.80 | 1.9 | 769 | 1 | 17 | 14 | 31 | 33 | 35 | 250 | 32 | | | |
| 44021 | 117.80 | 119.80 | 2.00 | 0.6 | 105 | 1 | 14 | 16 | 4 | 50 | 6 | 115 | 38 | | | |
| 44022 | 119.80 | 121.80 | 2.00 | 0.3 | 109 | 2 | 14 | 20 | 4 | 51 | 2 | 120 | 75 | | | |
| 44023 | 121.80 | 123.70 | 1.90 | 0.3 | 118 | 1 | 14 | 19 | 4 | 44 | 4 | 85 | 100 | | | |
| 44024 | 123.70 | 125.80 | 2.10 | 1.1 | 582 | 1 | 13 | 13 | 21 | 67 | 21 | 125 | 10 | | | |
| 44025 | 125.80 | 126.00 | 0.20 | 0.9 | 313 | 1 | 16 | 11 | 11 | 65 | 18 | 105 | 50 | | | |
| 44026 | 126.00 | 127.00 | 1.00 | 1.3 | 531 | 2 | 14 | 13 | 26 | 45 | 32 | 150 | 2 | | | |
| 44027 | 127.00 | 127.50 | 0.50 | 3.2 | 1804 | 1 | 11 | 8 | 75 | 27 | 100 | 125 | 1 | | | |
| 44028 | 127.50 | 129.50 | 2.00 | 4.7 | 1298 | 1 | 16 | 13 | 60 | 36 | 85 | 430 | 12 | | | |
| 44029 | 129.50 | 130.90 | 1.40 | 4.1 | 1729 | 1 | 12 | 15 | 74 | 44 | 116 | 755 | 12 | | | |
| 44030 | 130.90 | 132.00 | 1.10 | 3.8 | 1006 | 1 | 13 | 11 | 42 | 35 | 81 | 965 | 3 | | | |
| 44031 | 132.00 | 132.50 | 0.50 | 2.5 | 799 | 2 | 11 | 14 | 35 | 39 | 59 | 1100 | 3 | | | |

HOLE NUMBER: CL-91-12

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44032 | 132.50 | 134.50 | 2.00 | 1.6 | 546 | 1 | 15 | 17 | 26 | 42 | 23 | 700 | 25 |
| 44033 | 134.50 | 136.50 | 2.00 | 0.9 | 226 | 2 | 17 | 15 | 11 | 27 | 14 | 350 | 21 |
| 44034 | 136.50 | 138.50 | 2.00 | 1.7 | 253 | 1 | 9 | 10 | 11 | 22 | 24 | 430 | 23 |
| 44035 | 138.50 | 140.50 | 2.00 | 1.9 | 599 | 1 | 14 | 13 | 23 | 34 | 42 | 445 | 32 |
| 44036 | 140.50 | 140.90 | 0.40 | 1.7 | 385 | 1 | 10 | 14 | 17 | 23 | 21 | 1220 | 50 |
| 44037 | 140.90 | 142.90 | 2.00 | 1.3 | 708 | 2 | 9 | 10 | 25 | 24 | 68 | 405 | 40 |
| 44038 | 142.90 | 143.90 | 1.00 | 1.4 | 1076 | 4 | 9 | 11 | 38 | 35 | 83 | 350 | 21 |
| 44039 | 143.90 | 144.90 | 1.00 | 1.5 | 337 | 2 | 15 | 13 | 11 | 36 | 25 | 240 | 23 |
| 44040 | 144.90 | 146.90 | 2.00 | 1.5 | 525 | 3 | 15 | 14 | 20 | 35 | 49 | 275 | 37 |
| 44041 | 146.90 | 148.90 | 2.00 | 2 | 498 | 1 | 16 | 16 | 20 | 35 | 56 | 390 | 16 |
| 44042 | 148.90 | 149.50 | 0.60 | 1.6 | 183 | 2 | 20 | 14 | 9 | 23 | 11 | 560 | 11 |
| 44043 | 149.50 | 151.30 | 1.80 | 1.8 | 158 | 1 | 16 | 14 | 6 | 20 | 17 | 280 | 19 |
| 44044 | 151.30 | 153.30 | 2.00 | 1.8 | 458 | 1 | 18 | 16 | 26 | 36 | 58 | 315 | 27 |
| 44045 | 153.30 | 155.30 | 2.00 | 0.9 | 118 | 3 | 14 | 13 | 4 | 32 | 13 | 350 | 31 |
| 44046 | 155.30 | 157.30 | 2.00 | 2.3 | 182 | 1 | 17 | 13 | 11 | 44 | 46 | 235 | 26 |
| 44047 | 157.30 | 159.30 | 2.00 | 3.6 | 244 | 1 | 16 | 15 | 10 | 31 | 25 | 300 | 30 |
| 44048 | 159.30 | 160.80 | 1.50 | 3.4 | 302 | 1 | 17 | 13 | 14 | 30 | 31 | 220 | 50 |
| 44049 | 160.80 | 162.80 | 2.00 | 4.3 | 380 | 1 | 10 | 12 | 16 | 28 | 28 | 235 | 50 |
| 44050 | 162.80 | 163.80 | 1.00 | 3.4 | 264 | 1 | 5 | 10 | 10 | 16 | 20 | 615 | 50 |
| 44051 | 163.80 | 164.80 | 1.00 | 4.7 | 1348 | 1 | 18 | 8 | 78 | 23 | 81 | 5400 | 35 |
| 44052 | 164.80 | 165.70 | 0.90 | 4.5 | 1626 | 1 | 22 | 8 | 101 | 21 | 57 | 6900 | 15 |
| 44053 | 165.70 | 166.70 | 1.00 | 4.6 | 1119 | 1 | 25 | 14 | 75 | 34 | 80 | 5300 | 24 |
| 44054 | 166.70 | 168.00 | 1.30 | 3 | 964 | 1 | 11 | 22 | 40 | 49 | 82 | 1640 | 16 |
| 44055 | 168.00 | 169.20 | 1.20 | 1.8 | 513 | 1 | 6 | 16 | 17 | 43 | 61 | 1050 | 10 |
| 44056 | 169.20 | 170.50 | 1.30 | 1.8 | 1489 | 1 | 13 | 15 | 59 | 46 | 84 | 1410 | 18 |
| 44057 | 170.50 | 171.50 | 1.00 | 0.5 | 324 | 1 | 5 | 11 | 8 | 28 | 20 | 190 | 10 |
| 44058 | 171.50 | 172.00 | 0.50 | 0.5 | 179 | 1 | 11 | 14 | 7 | 22 | 7 | 65 | 6 |
| 44059 | 172.00 | 172.60 | 0.60 | 0.7 | 239 | 1 | 22 | 22 | 22 | 49 | 23 | 175 | 4 |
| 44101 | 172.60 | 175.50 | 2.90 | 0.4 | 244 | 1 | 15 | 17 | 21 | 44 | 17 | 90 | 100 |
| 44102 | 175.50 | 178.60 | 3.10 | 0.5 | 130 | 1 | 19 | 23 | 10 | 46 | 11 | 75 | 100 |
| 44103 | 178.60 | 181.60 | 3.00 | 0.5 | 30 | 1 | 24 | 23 | 1 | 41 | 3 | 25 | 32 |
| 44104 | 181.60 | 184.60 | 3.00 | 0.2 | 16 | 1 | 32 | 21 | 1 | 36 | 2 | 35 | 30 |
| 44105 | 184.60 | 187.60 | 3.00 | 0.5 | 13 | 2 | 29 | 18 | 1 | 25 | 2 | 60 | 19 |
| 44106 | 187.60 | 190.40 | 2.80 | 0.4 | 92 | 1 | 26 | 17 | 6 | 29 | 8 | 185 | 31 |

HOLE NUMBER: CL-91-12

ASSAY SHEET

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HOLE NUMBER: CL-91-12

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 43994 | 57.00 | 59.00 | 2.00 | 0.3 | 61 | 1 | 33 | 23 | 12 | 69 | 2 | 1885 | 30 |
| 43995 | 61.00 | 63.00 | 2.00 | 0.9 | 96 | 2 | 16 | 21 | 10 | 29 | 10 | 140 | 16 |
| 43996 | 65.00 | 67.00 | 2.00 | 0.6 | 109 | 1 | 14 | 15 | 8 | 34 | 1 | 85 | 26 |
| 43997 | 69.00 | 71.00 | 2.00 | 0.6 | 60 | 1 | 16 | 20 | 5 | 27 | 6 | 55 | 15 |
| 43998 | 73.00 | 75.00 | 2.00 | 0.6 | 41 | 1 | 15 | 16 | 1 | 24 | 2 | 35 | 11 |
| 43999 | 77.00 | 79.00 | 2.00 | 0.7 | 65 | 1 | 18 | 18 | 4 | 29 | 4 | 55 | 26 |
| 44000 | 79.00 | 81.40 | 2.40 | 0.6 | 47 | 2 | 18 | 18 | 4 | 36 | 3 | 70 | 32 |
| 44001 | 81.40 | 83.40 | 2.00 | 0.7 | 164 | 2 | 28 | 22 | 23 | 59 | 2 | 540 | 25 |
| 44002 | 83.40 | 85.40 | 2.00 | 0.6 | 150 | 2 | 23 | 20 | 17 | 62 | 1 | 550 | 30 |
| 44003 | 87.40 | 89.40 | 2.00 | 0.2 | 66 | 1 | 24 | 22 | 7 | 63 | 2 | 335 | 34 |
| 44004 | 89.40 | 91.40 | 2.00 | 0.9 | 635 | 1 | 21 | 19 | 21 | 49 | 11 | 485 | 24 |
| 44005 | 91.40 | 92.90 | 1.50 | 0.4 | 81 | 2 | 24 | 21 | 6 | 63 | 2 | 440 | 27 |
| 44006 | 92.90 | 94.90 | 2.00 | 0.6 | 131 | 1 | 12 | 18 | 7 | 41 | 5 | 335 | 19 |
| 44007 | 94.90 | 96.90 | 2.00 | 0.8 | 241 | 1 | 24 | 20 | 14 | 56 | 1 | 175 | 13 |
| 44008 | 96.90 | 98.90 | 2.00 | 0.5 | 154 | 1 | 20 | 20 | 14 | 58 | 1 | 160 | 14 |
| 44009 | 98.90 | 99.70 | 0.80 | 0.4 | 36 | 2 | 23 | 25 | 6 | 53 | 2 | 175 | 11 |
| 44010 | 99.70 | 101.20 | 1.50 | 0.3 | 55 | 2 | 24 | 22 | 8 | 61 | 1 | 245 | 13 |
| 44011 | 101.20 | 102.00 | 0.80 | 0.6 | 166 | 1 | 32 | 23 | 12 | 65 | 1 | 345 | 14 |
| 44012 | 102.00 | 103.90 | 1.90 | 1.4 | 231 | 1 | 19 | 14 | 12 | 37 | 2 | 425 | 37 |
| 44013 | 103.90 | 104.90 | 1.00 | 4.9 | 489 | 1 | 19 | 16 | 26 | 38 | 6 | 695 | 12 |
| 44014 | 104.90 | 106.90 | 2.00 | 1.1 | 168 | 1 | 11 | 20 | 17 | 56 | 2 | 325 | 26 |
| 44015 | 106.90 | 108.80 | 1.90 | 1.7 | 245 | 1 | 11 | 14 | 18 | 41 | 4 | 625 | 39 |
| 44016 | 108.80 | 110.80 | 2.00 | 0.8 | 199 | 1 | 11 | 14 | 9 | 31 | 5 | 390 | 37 |
| 44017 | 110.80 | 112.80 | 2.00 | 0.6 | 245 | 1 | 12 | 16 | 13 | 33 | 2 | 545 | 100 |
| 44018 | 112.80 | 114.80 | 2.00 | 1 | 278 | 1 | 8 | 17 | 13 | 45 | 1 | 175 | 45 |
| 44019 | 114.80 | 115.00 | 0.20 | 1.1 | 108 | 1 | 16 | 16 | 8 | 63 | 1 | 220 | 13 |
| 44020 | 115.00 | 117.80 | 2.80 | 1.9 | 769 | 1 | 17 | 14 | 31 | 33 | 35 | 250 | 32 |
| 44021 | 117.80 | 119.80 | 2.00 | 0.6 | 105 | 1 | 14 | 16 | 4 | 50 | 6 | 115 | 38 |
| 44022 | 119.80 | 121.80 | 2.00 | 0.3 | 109 | 2 | 14 | 20 | 4 | 51 | 2 | 120 | 75 |
| 44023 | 121.80 | 123.70 | 1.90 | 0.3 | 118 | 1 | 14 | 19 | 4 | 44 | 4 | 85 | 100 |
| 44024 | 123.70 | 125.80 | 2.10 | 1.1 | 582 | 1 | 13 | 13 | 21 | 67 | 21 | 125 | 10 |
| 44025 | 125.80 | 126.00 | 0.20 | 0.9 | 313 | 1 | 16 | 11 | 11 | 65 | 18 | 105 | 50 |
| 44026 | 126.00 | 127.00 | 1.00 | 1.3 | 531 | 2 | 14 | 13 | 26 | 45 | 32 | 150 | 2 |
| 44027 | 127.00 | 127.50 | 0.50 | 3.2 | 1804 | 1 | 11 | 8 | 75 | 27 | 100 | 125 | 1 |
| 44028 | 127.50 | 129.50 | 2.00 | 4.7 | 1298 | 1 | 16 | 13 | 60 | 36 | 85 | 430 | 12 |
| 44029 | 129.50 | 130.90 | 1.40 | 4.1 | 1729 | 1 | 12 | 15 | 74 | 44 | 116 | 755 | 12 |
| 44030 | 130.90 | 132.00 | 1.10 | 3.8 | 1006 | 1 | 13 | 11 | 42 | 35 | 81 | 965 | 3 |
| 44031 | 132.00 | 132.50 | 0.50 | 2.5 | 799 | 2 | 11 | 14 | 35 | 39 | 59 | 1100 | 3 |
| 44032 | 132.50 | 134.50 | 2.00 | 1.6 | 546 | 1 | 15 | 17 | 26 | 42 | 23 | 700 | 25 |

HOLE NUMBER: CL-91-12

GEOCHEM. SHEET

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HOLE NUMBER: CL-91-12

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44033 | 134.50 | 136.50 | 2.00 | 0.9 | 226 | 2 | 17 | 15 | 11 | 27 | 14 | 350 | 21 |
| 44034 | 136.50 | 138.50 | 2.00 | 1.7 | 253 | 1 | 9 | 10 | 11 | 22 | 24 | 430 | 23 |
| 44035 | 138.50 | 140.50 | 2.00 | 1.9 | 599 | 1 | 14 | 13 | 23 | 34 | 42 | 445 | 32 |
| 44036 | 140.50 | 140.90 | 0.40 | 1.7 | 385 | 1 | 10 | 14 | 17 | 23 | 21 | 1220 | 50 |
| 44037 | 140.90 | 142.90 | 2.00 | 1.3 | 708 | 2 | 9 | 10 | 25 | 24 | 68 | 405 | 40 |
| 44038 | 142.90 | 143.90 | 1.00 | 1.4 | 1076 | 4 | 9 | 11 | 38 | 35 | 83 | 350 | 21 |
| 44039 | 143.90 | 144.90 | 1.00 | 1.5 | 337 | 2 | 15 | 13 | 11 | 36 | 25 | 240 | 23 |
| 44040 | 144.90 | 146.90 | 2.00 | 1.5 | 525 | 3 | 15 | 14 | 20 | 35 | 49 | 275 | 37 |
| 44041 | 146.90 | 148.90 | 2.00 | 2 | 498 | 1 | 16 | 16 | 20 | 35 | 56 | 390 | 16 |
| 44042 | 148.90 | 149.50 | 0.60 | 1.6 | 183 | 2 | 20 | 14 | 9 | 23 | 11 | 560 | 11 |
| 44043 | 149.50 | 151.30 | 1.80 | 1.8 | 158 | 1 | 16 | 14 | 6 | 20 | 17 | 280 | 19 |
| 44044 | 151.30 | 153.30 | 2.00 | 1.8 | 458 | 1 | 18 | 16 | 26 | 36 | 58 | 315 | 27 |
| 44045 | 153.30 | 155.30 | 2.00 | 0.9 | 118 | 3 | 14 | 13 | 4 | 32 | 13 | 350 | 31 |
| 44046 | 155.30 | 157.30 | 2.00 | 2.3 | 182 | 1 | 17 | 13 | 11 | 44 | 46 | 235 | 26 |
| 44047 | 157.30 | 159.30 | 2.00 | 3.6 | 244 | 1 | 16 | 15 | 10 | 31 | 25 | 300 | 30 |
| 44048 | 159.30 | 160.80 | 1.50 | 3.4 | 302 | 1 | 17 | 13 | 14 | 30 | 31 | 220 | 50 |
| 44049 | 160.80 | 162.80 | 2.00 | 4.3 | 380 | 1 | 10 | 12 | 16 | 28 | 28 | 235 | 50 |
| 44050 | 162.80 | 163.80 | 1.00 | 3.4 | 264 | 1 | 5 | 10 | 10 | 16 | 20 | 615 | 50 |
| 44051 | 163.80 | 164.80 | 1.00 | 4.7 | 1348 | 1 | 18 | 8 | 78 | 23 | 81 | 5400 | 35 |
| 44052 | 164.80 | 165.70 | 0.90 | 4.5 | 1626 | 1 | 22 | 8 | 101 | 21 | 57 | 6900 | 15 |
| 44053 | 165.70 | 166.70 | 1.00 | 4.6 | 1119 | 1 | 25 | 14 | 75 | 34 | 80 | 5300 | 24 |
| 44054 | 166.70 | 168.00 | 1.30 | 3 | 964 | 1 | 11 | 22 | 40 | 49 | 82 | 1640 | 16 |
| 44055 | 168.00 | 169.20 | 1.20 | 1.8 | 513 | 1 | 6 | 16 | 17 | 43 | 61 | 1050 | 10 |
| 44056 | 169.20 | 170.50 | 1.30 | 1.8 | 1489 | 1 | 13 | 15 | 59 | 46 | 84 | 1410 | 18 |
| 44057 | 170.50 | 171.50 | 1.00 | 0.5 | 324 | 1 | 5 | 11 | 8 | 28 | 20 | 190 | 10 |
| 44058 | 171.50 | 172.00 | 0.50 | 0.5 | 179 | 1 | 11 | 14 | 7 | 22 | 7 | 65 | 6 |
| 44059 | 172.00 | 172.60 | 0.60 | 0.7 | 239 | 1 | 22 | 22 | 22 | 49 | 23 | 175 | 4 |
| 44101 | 172.60 | 175.50 | 2.90 | 0.4 | 244 | 1 | 15 | 17 | 21 | 44 | 17 | 90 | 100 |
| 44102 | 175.50 | 178.60 | 3.10 | 0.5 | 130 | 1 | 19 | 23 | 10 | 46 | 11 | 75 | 100 |
| 44103 | 178.60 | 181.60 | 3.00 | 0.5 | 30 | 1 | 24 | 23 | 1 | 41 | 3 | 25 | 32 |
| 44104 | 181.60 | 184.60 | 3.00 | 0.2 | 16 | 1 | 32 | 21 | 1 | 36 | 2 | 35 | 30 |
| 44105 | 184.60 | 187.60 | 3.00 | 0.5 | 13 | 2 | 29 | 18 | 1 | 25 | 2 | 60 | 19 |
| 44106 | 187.60 | 190.40 | 2.80 | 0.4 | 92 | 1 | 26 | 17 | 6 | 29 | 8 | 185 | 31 |

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RQD ASSAY

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| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|----------|--------|------------|---------------|-------------|--------------------|---------------------|-----------------|------------------|-------|----------|
| | | | S>= 0.00cm | | | | | | | |
| 18.30 | 20.40 | 2.10 | 0.00 | 0.0 | 50 | 23.81 | 0 | 0.00 | 0 | |
| 20.40 | 22.80 | 2.40 | 0.00 | 0.0 | 100 | 41.67 | 0 | 0.00 | 0 | |
| 22.80 | 24.50 | 1.70 | 50.00 | ***** | 30 | 17.65 | 1 | 0.59 | 0 | |
| 24.50 | 26.50 | 2.00 | 90.00 | ***** | 11 | 5.50 | 1 | 0.50 | 0 | |
| 26.50 | 28.50 | 2.00 | 140.00 | ***** | 15 | 7.50 | 0 | 0.00 | 0 | |
| 28.50 | 31.20 | 2.70 | 220.00 | ***** | 18 | 6.67 | 0 | 0.00 | 0 | |
| 31.20 | 35.00 | 3.80 | 90.00 | ***** | 17 | 4.47 | 2 | 0.53 | 0 | |
| 35.00 | 36.60 | 1.60 | 30.00 | ***** | 50 | 31.25 | 0 | 0.00 | 0 | |
| 36.60 | 38.40 | 1.80 | 60.00 | ***** | 50 | 27.78 | 0 | 0.00 | 0 | |
| 38.40 | 39.90 | 1.50 | 50.00 | ***** | 30 | 20.00 | 2 | 1.33 | 0 | |
| 39.90 | 41.40 | 1.50 | 30.00 | ***** | 50 | 33.33 | 0 | 0.00 | 0 | |
| 41.40 | 42.50 | 1.10 | 10.00 | 909.1 | 17 | 15.45 | 0 | 0.00 | 0 | |
| 42.50 | 43.80 | 1.30 | 20.00 | ***** | 30 | 23.08 | 1 | 0.77 | 0 | |
| 43.80 | 46.00 | 2.20 | 30.00 | ***** | 19 | 8.64 | 0 | 0.00 | 0 | |
| 47.50 | 49.50 | 2.00 | 90.00 | ***** | 25 | 12.50 | 0 | 0.00 | 0 | |
| 51.00 | 53.00 | 2.00 | 120.00 | ***** | 18 | 9.00 | 0 | 0.00 | 0 | |
| 53.00 | 54.80 | 1.80 | 140.00 | ***** | 16 | 8.89 | 0 | 0.00 | 0 | |
| 54.80 | 56.80 | 2.00 | 160.00 | ***** | 12 | 6.00 | 0 | 0.00 | 0 | |
| 60.00 | 62.20 | 2.20 | 140.00 | ***** | 14 | 6.36 | 0 | 0.00 | 0 | |

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RQD ASSAY

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-13

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|------------------------|--|-------------|--|--|---|
| 0.00 TO 3.10 | «CASING» | Overburden | | | | |
| 3.10 TO 5.20 | «QUARTZ BX» | Black & white. Intense stockwork-breccia of pyritic black to grey quartz. Quartz near chalcedonic. Lithology appears to be amygdaloidal quartz eye porphyry. | | «I SIL» of wallrock frags. | «3-5% py» v.f.g. in black quartz breccia matrix. | Hole collared in qtz breccia. |
| 5.20 TO 12.80 | «FAULT STWK» | Black & grey. Intensely argillized and fractured pyritic stockwork zone. Microveins and breccias of black quartz carry v.f.g. pyrite. | | «S-I SIL, I-X ARG» Wall rock is variably silicified, overprinting st. argillization where feldspar? phenos have gone to green clay. | «3-5% py» v.f.g. pyrite occurs in qtz microveins and breccias. | |
| 12.80 TO 14.70 | «FAULT» | Grey green. 90% clay gouge. | | «X ARG» | | |
| 14.70 TO 69.70 | «TUFF BX» | Black & green. Heterolithic tuff breccia. Lapilli to block size frags of flow banded rhyolite and feldspar-biotite-hornblende porphyry (about 60/40 for rhyolite). Entire interval has weak stockwork of barren calcite stringers. Some of the less altered rhyolite frags show weak spherulitic textures. Black banding is rare. | | «S-I ARG» Generally strong argillization with 20% intense patches. «M-S HEM» about 50% of interval has red to black hematitic matrix. | «Tr py» is almost negligible. | NOTE: DRILLERS SCREWED UP FOOTAGE BLOCK 77' WAS SUBSTITUTED FOR 67' MEANING SUBSEQUENT FOOTAGES ARE 10' TOO HIGH AND HOLE IS ACTUALLY 148.4 M LONG NOT 151.5M. |
| | ‡14.0-14.6‡ «FAULT» | | 45 | | | |
| | ‡36.0-36.5‡ «FAULT» | | 10 | | | |
| | ‡39.1-40.6‡ «FAULT» | | 10 | | | |
| | ‡41.5-62.5‡ «FAULT» | General area of hematite rich breccia matrix. | 45 | | | |
| | ‡44.9-47.6‡ «FAULT» | | 10 | | | |
| | ‡56.6-58.6‡ «FAULT» | | 45 | | | |
| | ‡64.2-66.6‡ FAULT | | 05 | | | |

HOLE NUMBER: CL-91-13

DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|------------------------|---|-------------|--|----------------|---------|
| 69.70 TO 72.00 | «FAULT» | 90% clay gouge @ | 45 | «I-X ARG» | | |
| 72.00 TO 77.50 | «FELDSPAR PORPHYRY» | Green, c.g. Feldspar-quartz porphyry flow with local chloritic specks. Specks are irregular, variably flattened, probably amygdules. Feldspar phenos 10-20% generally 3-5 mm, up to 1 cm. Quartz eyes, glassy, 5%, 3-5 mm. Uppermost 2 metres are veined and replaced by grungy pale green quartz @ Flow banding @ | 40 60 | «M PROPYLITIC» Green specks suggest chlorite, feldspar phenos variably replaced by calcite or green clay. «M CHL, M CAL» | None? | |
| 77.50 TO 85.30 | «PORPHYRY BX» | Green. Lapilli to cobble size breccia of feldspar quartz porphyry unit. Chlorite filled amygdules are dense in some fragments, almost absent in others. Vary rare calcite microstringers. | | «M PROPYLITIC» «M-S CHL, W CAL, W HEM» More abundant chloritic fragments and amygdules; feldspar phenos replaced by calcite; breccia matrix and rare frags are weakly hematitic. | None? | |
| 85.30 TO 85.50 | «FAULT» | Gouge. | 40 | | | |
| 85.50 TO 98.80 | «FELDSPAR PORPHYRY» | Pale green, c.g. Homogenous interval of feldspar (hornblende) porphyry. Quartz eyes now absent. Feldspar phenos 3-6 mm, 15-20%, fuzzy outlines. Weak calcite replacement. Hornblende (biotite?) needles 2-4 mm long - replaced by epidote or pale brown clay (?). Vague flow banding @ | 30 | «W PROPYLITIC, W SIL» Only partial replacement of feldspars by calcite. | None | |
| 98.80 TO 99.10 | «FAULT» | Gouge | 45 | | | |
| 99.10 TO 128.80 | «FELDSPAR PORPHYRY BX» | Red & green. Wide interval of interlayered porphyry flows and depositional breccias. Flows are commonly banded like rhyolite, but highlighted by chlorite and/or hematite. Breccias are commonly hematite rich, and locally weakly silicified and bleached. Minor calcite stringers. Banding @ | 45 70 | «PROPYLITIC» Feldspars variably replaced by calcite. «M CHL, M HEM» | None. | |
| | 110.6-113.6f | | | «S HEM» Breccia matrix. | | |

MINNOVA INC.
DRILL HOLE RECORD

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|------------------------|---|-------------|--|----------------|---------|
| | 119.0-121.0 | | | «W SIL» Bleached matrix. | | |
| 128.80 TO 131.30 | «FELDSPAR PORPHYRY» | Pale green, c.g. Homogenous flow vaguely banded @ | 80 | «W PROPYLITIC» | None. | |
| 131.30 TO 134.90 | «FS-HB-BI PORPHYRY» | Dark green, m.g. Strongly chloritized interval of homogenous feldspar (hornblende? biotite?) porphyry. Phenos are sub 4 mm, appear corroded, irregular. Upper contact is gradational, lower one is an unconformity. | | «S PROPYLITIC, S CHL» All phenocrysts are replaced by chlorite. | None. | |
| 134.90 TO 148.40 | «FELDSPAR PORPHYRY BX» | Red & green. Similar to previous breccia interval, interlayered hematite breccia and banded flows with prominent feldspar phenos and lesser chloritized mafics. Minor calcite stringers. Banding @ | 40 80 | «M PROPYLITIC» «M CHL, M HEM» Feldspars variably replaced by calcite, mafics replaced by hematite. | «Tr py» | |
| | 148.4 m | EOH | | | | |

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DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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| Sample | From (m) | To (m) | Length (m) | ESTIMA | GEOCHEMICAL | | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|-----------|----------|
| | | | | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | | |
| 44276 | 3.10 | 5.20 | 2.10 | 4.3 | 289 | 1 | 28 | 9 | 18 | 16 | 59 | 3120 | 40 | | |
| 44277 | 5.20 | 8.30 | 3.10 | 3.6 | 1037 | 1 | 37 | 16 | 36 | 37 | 113 | 1145 | 100 | | |
| 44278 | 8.30 | 12.80 | 4.50 | 3.3 | 482 | 1 | 24 | 12 | 25 | 33 | 51 | 1300 | 100 | | |
| 44279 | 12.80 | 14.80 | 2.00 | 0.1 | 29 | 2 | 32 | 25 | 2 | 137 | 1 | 215 | 60 | | |
| 44280 | 17.50 | 19.80 | 2.30 | 0.3 | 19 | 1 | 29 | 20 | 1 | 47 | 2 | 85 | 20 | | |
| 44281 | 22.50 | 24.50 | 2.00 | | | | | | | | | | | | |
| 44282 | 26.50 | 28.50 | 2.00 | 0.1 | 27 | 1 | 24 | 20 | 1 | 42 | 2 | 95 | 23 | | |
| 44283 | 30.50 | 32.50 | 2.00 | 0.4 | 19 | 1 | 25 | 18 | 1 | 44 | 1 | 80 | 17 | | |
| 44284 | 34.50 | 36.00 | 1.50 | 0.4 | 11 | 1 | 19 | 18 | 1 | 36 | 4 | 155 | 13 | | |
| 44285 | 36.00 | 36.50 | 0.50 | 0.4 | 38 | 2 | 27 | 26 | 1 | 42 | 2 | 65 | 15 | | |
| 44286 | 36.50 | 38.50 | 2.00 | 0.5 | 25 | 2 | 25 | 24 | 1 | 48 | 49 | 55 | 21 | | |
| 44287 | 41.50 | 43.50 | 2.00 | 0.4 | 27 | 1 | 28 | 20 | 1 | 38 | 3 | 65 | 40 | | |
| 44288 | 45.50 | 47.60 | 2.10 | 0.2 | 19 | 1 | 25 | 18 | 1 | 37 | 1 | 60 | 50 | | |
| 44289 | 50.60 | 52.60 | 2.00 | 0.2 | 16 | 2 | 26 | 19 | 1 | 38 | 3 | 55 | 23 | | |
| 44290 | 54.60 | 56.60 | 2.00 | 0.4 | 19 | 2 | 23 | 21 | 1 | 40 | 5 | 50 | 20 | | |
| 44291 | 56.60 | 58.60 | 2.00 | 0.3 | 16 | 1 | 27 | 17 | 1 | 38 | 2 | 110 | 22 | | |
| 44292 | 58.60 | 60.60 | 2.00 | 0.4 | 12 | 2 | 25 | 19 | 1 | 34 | 4 | 100 | 17 | | |
| 44293 | 62.20 | 64.20 | 2.00 | 0.1 | 41 | 2 | 27 | 19 | 1 | 50 | 3 | 90 | 31 | | |
| 44294 | 64.20 | 65.00 | 0.80 | 0.4 | 70 | 1 | 23 | 21 | 4 | 42 | 6 | 160 | 23 | | |
| 44295 | 65.00 | 66.60 | 1.60 | 0.3 | 67 | 1 | 29 | 18 | 1 | 36 | 9 | 145 | 21 | | |
| 44296 | 68.60 | 69.70 | 1.10 | 0.5 | 22 | 1 | 24 | 21 | 1 | 39 | 2 | 205 | 12 | | |
| 44297 | 69.70 | 72.00 | 2.30 | 0.3 | 39 | 1 | 28 | 17 | 2 | 41 | 1 | 155 | 50 | | |
| 44298 | 72.00 | 74.00 | 2.00 | 0.3 | 14 | 2 | 24 | 20 | 1 | 42 | 1 | 75 | 70 | | |
| 44299 | 83.30 | 85.50 | 2.20 | | | | | | | | | | | | |
| 44314 | 85.50 | 87.50 | 2.00 | 0.5 | 15 | 1 | 17 | 18 | 1 | 35 | 1 | 90 | 13 | | |
| 44315 | 90.50 | 92.50 | 2.00 | 0.2 | 10 | 1 | 17 | 20 | 1 | 36 | 2 | 60 | 11 | | |
| 44316 | 99.10 | 101.10 | 2.00 | 0.3 | 17 | 2 | 21 | 18 | 1 | 44 | 2 | 65 | 10 | | |
| 44317 | 103.10 | 105.10 | 2.00 | 0.4 | 11 | 1 | 24 | 17 | 1 | 34 | 4 | 65 | 10 | | |
| 44318 | 110.60 | 112.60 | 2.00 | 0.5 | 13 | 2 | 25 | 15 | 1 | 33 | 1 | 70 | 7 | | |
| 44319 | 119.00 | 121.00 | 2.00 | 0.4 | 17 | 1 | 23 | 17 | 1 | 41 | 1 | 45 | 8 | | |

| Sample | From (m) | To (m) | Length (m) | | | | | | | | | | | | | | | | | | | |
|--------|-------------|-----------|---------------|-----|------|---|----|----|----|-----|-----|------|-----|--|--|--|--|--|--|--|--|--|
| 44276 | 3.10 | 5.20 | 2.10 | 4.3 | 289 | 1 | 28 | 9 | 18 | 16 | 59 | 3120 | 40 | | | | | | | | | |
| 44277 | 5.20 | 8.30 | 3.10 | 3.6 | 1037 | 1 | 37 | 16 | 36 | 37 | 113 | 1145 | 100 | | | | | | | | | |
| 44278 | 8.30 | 12.80 | 4.50 | 3.3 | 482 | 1 | 24 | 12 | 25 | 33 | 51 | 1300 | 100 | | | | | | | | | |
| 44279 | 12.80 | 14.80 | 2.00 | 0.1 | 29 | 2 | 32 | 25 | 2 | 137 | 1 | 215 | 60 | | | | | | | | | |
| 44280 | 17.50 | 19.80 | 2.30 | 0.3 | 19 | 1 | 29 | 20 | 1 | 47 | 2 | 85 | 20 | | | | | | | | | |
| 44281 | 22.50 | 24.50 | 2.00 | | | | | | | | | | | | | | | | | | | |
| 44282 | 26.50 | 28.50 | 2.00 | 0.1 | 27 | 1 | 24 | 20 | 1 | 42 | 2 | 95 | 23 | | | | | | | | | |
| 44283 | 30.50 | 32.50 | 2.00 | 0.4 | 19 | 1 | 25 | 18 | 1 | 44 | 1 | 80 | 17 | | | | | | | | | |
| 44284 | 34.50 | 36.00 | 1.50 | 0.4 | 11 | 1 | 19 | 18 | 1 | 36 | 4 | 155 | 13 | | | | | | | | | |
| 44285 | 36.00 | 36.50 | 0.50 | 0.4 | 38 | 2 | 27 | 26 | 1 | 42 | 2 | 65 | 15 | | | | | | | | | |
| 44286 | 36.50 | 38.50 | 2.00 | 0.5 | 25 | 2 | 25 | 24 | 1 | 48 | 49 | 55 | 21 | | | | | | | | | |
| 44287 | 41.50 | 43.50 | 2.00 | 0.4 | 27 | 1 | 28 | 20 | 1 | 38 | 3 | 65 | 40 | | | | | | | | | |
| 44288 | 45.50 | 47.60 | 2.10 | 0.2 | 19 | 1 | 25 | 18 | 1 | 37 | 1 | 60 | 50 | | | | | | | | | |
| 44289 | 50.60 | 52.60 | 2.00 | 0.2 | 16 | 2 | 26 | 19 | 1 | 38 | 3 | 55 | 23 | | | | | | | | | |
| 44290 | 54.60 | 56.60 | 2.00 | 0.4 | 19 | 2 | 23 | 21 | 1 | 40 | 5 | 50 | 20 | | | | | | | | | |
| 44291 | 56.60 | 58.60 | 2.00 | 0.3 | 16 | 1 | 27 | 17 | 1 | 38 | 2 | 110 | 22 | | | | | | | | | |
| 44292 | 58.60 | 60.60 | 2.00 | 0.4 | 12 | 2 | 25 | 19 | 1 | 34 | 4 | 100 | 17 | | | | | | | | | |
| 44293 | 62.20 | 64.20 | 2.00 | 0.1 | 41 | 2 | 27 | 19 | 1 | 50 | 3 | 90 | 31 | | | | | | | | | |
| 44294 | 64.20 | 65.00 | 0.80 | 0.4 | 70 | 1 | 23 | 21 | 4 | 42 | 6 | 160 | 23 | | | | | | | | | |
| 44295 | 65.00 | 66.60 | 1.60 | 0.3 | 67 | 1 | 29 | 18 | 1 | 36 | 9 | 145 | 21 | | | | | | | | | |
| 44296 | 68.60 | 69.70 | 1.10 | 0.5 | 22 | 1 | 24 | 21 | 1 | 39 | 2 | 205 | 12 | | | | | | | | | |
| 44297 | 69.70 | 72.00 | 2.30 | 0.3 | 39 | 1 | 28 | 17 | 2 | 41 | 1 | 155 | 50 | | | | | | | | | |
| 44298 | 72.00 | 74.00 | 2.00 | 0.3 | 14 | 2 | 24 | 20 | 1 | 42 | 1 | 75 | 70 | | | | | | | | | |
| 44299 | 83.30 | 85.50 | 2.20 | | | | | | | | | | | | | | | | | | | |
| 44314 | 85.50 | 87.50 | 2.00 | 0.5 | 15 | 1 | 17 | 18 | 1 | 35 | 1 | 90 | 13 | | | | | | | | | |
| 44315 | 90.50 | 92.50 | 2.00 | 0.2 | 10 | 1 | 17 | 20 | 1 | 36 | 2 | 60 | 11 | | | | | | | | | |
| 44316 | 99.10 | 101.10 | 2.00 | 0.3 | 17 | 2 | 21 | 18 | 1 | 44 | 2 | 65 | 10 | | | | | | | | | |
| 44317 | 103.10 | 105.10 | 2.00 | 0.4 | 11 | 1 | 24 | 17 | 1 | 34 | 4 | 65 | 10 | | | | | | | | | |
| 44318 | 110.60 | 112.60 | 2.00 | 0.5 | 13 | 2 | 25 | 15 | 1 | 33 | 1 | 70 | 7 | | | | | | | | | |
| 44319 | 119.00 | 121.00 | 2.00 | 0.4 | 17 | 1 | 23 | 17 | 1 | 41 | 1 | 45 | 8 | | | | | | | | | |

MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: CL-91-14

DATE: 25-May-1992

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|----------------------------|---|----------------|--|---------------------------------------|--|
| 0.00 TO 34.80 | «CASING» | Overburden | | | | |
| 34.80 TO 49.20 | «QTZ-CAL-PY STWK» | Grey-green. Moderate to strong stockwork of early pyritic quartz and late barren calcite (50/50). Lithology is weakly vesicular feldspar porphyry, flow. Amygdules are qz lined, calcite filled. Flatten to planes @ Veins @ | 45 60 40 | «M-S ARG» «S-I SIL» «M CHL» Chlorite or green clay replaces feldspar phenocrysts. Argillic alteration is pervasive, silicification is patchy. | «1-3% py» in quartz stringers. | Weakly amygdaloidal flow unit with abundant feldspar phenos. |
| | ‡38.4-39.1‡ «SIL FAULT» | Blue. Partially quartz healed fault breccia, with strong blue quartz stockwork breccia. Minor gouge. | | «I ARG, I SIL» Intensely argillized wallrock frags. | «1% py» in quartz stringers. | Blue opaline quartz. |
| | ‡39.6-40.7‡ «STWK BX» | Grey. Strong pyritic quartz stockwork to breccia. f.g. pyrite occurs as selvages in early quartz rimming wallrock frags. Minor blue quartz is later. Calcite is latest. | | «S ARG, S SIL» Strongly argillized wallrock, with some remnant chlorite or green clay altered feldspar phenos. | «1-2% py» in early grey quartz. | |
| | ‡44.0-44.5‡ «FAULT» | Gouge | | «X ARG» | | |
| | ‡47.4-47.6‡ «FAULT» | Gouge | | «X ARG» | | |
| 49.20 TO 52.00 | «JIGSAW BX» | Pale green. Interesting quartz jigsaw breccia. Veining is flow banding (or bedding) parallel at roughly 1 cm spacings, with veins also cutting perpendicularly between planes. Veins all less than 5 mm wide @ | 25 30 | «M ARG, M SIL» Alteration is pervasive and homogenous, host rock is weakly chloritized, feldspars gone to green clay. | «Tr py» in hairline quartz stringers. | |
| 52.00 TO 53.20 | «FAULT» | 80% clay gouge with abundant broken pyritic quartz vein fragments. | | «X ARG» | | |
| 53.20 TO 55.70 | «QTZ STWK» | Weak quartz, calcite poor stockwork. Hairline fractures filled by qz-chlorite-pyrite. Veins @ Lithology is different, non-vesicular feldspar porphyritic, siliceous. Hematite highlights vague flow banding. A mottled spherulitic texture also seems to follow possible flow planes. Interpreted as a f.g. feldspar porphyry sill or dyke (bounded by gouge zones above and below). | 50 | «W ARG, S SIL» «W CHL, HEM» | «Tr py» in chloritic stringers. | Feldspar porphyry dyke bounded by gouge zones above and below. |

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-14

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|--------------------------|--|---|---|
| 55.70 TO 60.50 | «FAULT STWK» | Intensely argillized and sheared fault zone of amygdaloidal intermediate flow fragments and pyritic quartz vein fragments. Amygdules mm to cm size lined by chlorite, filled by quartz and/or calcite. | | «X ARG» 80% clay gouge. | «1% py» in disrupted quartz stringers. | |
| 60.50 TO 73.00 | «ARG ZONE» ‡65.6-65.9‡ «GOUGE» ‡67.5-67.8‡ «QTZ VEIN» ‡69.2-69.6‡ «GOUGE» ‡69.7-73.0‡ «AMYG FLOW» | Green, f.g. Wide zone of intense argillization, with minor gougy zones and weakly developed pyrite stockwork. Remnant hematitic flow bands(?) and flattened chloritic amygdules give attitudes of 10 cm banded qtz vein. Less altered, more competent interval of amygdaloidal flow unit. Several 1 cm blue quartz filled amygdules, flattened @ Moderate pyritic quartz stockwork. | 50 40 | «I-X ARG» is pervasive «M SIL» is patchy «M CHL» lining amygdules. «X ARG» «I SIL» «X ARG» «M-S ARG» | «Tr py» in "hair net" fractures. «1% py» in qtz stringers. | One 2 cm amygdule is filled by banded quartz in its lower half and c.g. calcite in the upper half, giving horizontal @ 45 degrees to core axis. |
| 73.00 TO 79.20 | «FAULT STWK» | Grey. Similar to previous intervals but more intense argillic alteration and weak to moderately developed pyritic quartz stockwork. | | «I-X ARG» | «1-2% py» in disrupted quartz stringers | |
| 79.20 TO 82.80 | «STWK BX» | Grey. Intensely argillized, gougy zone of strong pyritic quartz stockwork and breccia veining. Minor late calcite. Pyrite is carried by early quartz rimming intensely argillized amygdaloidal feldspar porphyry. Interval is highly disrupted but veins appear to trend @ | 20 | «I-X ARG» of amygdaloidal feldspar porphyry host rock. | «1-3% py» in early grey quartz rimming wallrock fragments. | Centre of mineralized "zone"/ |
| 82.80 TO 85.30 | «TUFF BX» | Pale green. Intensely argillized breccia, transitional from mainly amygdaloidal frags in top half to feldspar porphyry frags in lower half. | | «I-X ARG, SER?» Intensity of alteration suggests that breccia is probably fault related. | | Possible sericitic alteration. |
| 85.30 TO 90.60 | «FELDSPAR PORPHYRY BX» | Green, m.g. Monomictic hematitic matrix block breccia of m.g. feldspar porphyry flow. Sparse (10%) feldspar phenos gone to white clay. Vague flow banding @ Minor gougy fractures. Contact @ | 40 50 30 | «S ARG» Possible sericite. «M HEM» matrix, also locally silicified | «Tr py» on late fractures. | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------------|--|---|----------------|--|-----------------------|---------|
| 90.60 TO 124.10 | «LAPILLI BX» ↓102.5- 107.3↓ ↓111.3- 118.0↓ 124.1 | Pale green & red. Pale green bleached locally hematitic crowded lapilli breccia of nondescript green ash tuff? frags. Some frags show bedding or flow banding. Sparse calcite stringers are barren. EOH | | «M-S ARG» Pale green bleaching «M CHL» «S HEM» matrix. «M HEM» matrix. | «Tr py» disseminated. | |

HOLE NUMBER: CL-91-14

DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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HOLE NUMBER: CL-91-14

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 44235 | 34.80 | 37.00 | 2.20 | 0.5 | 194 | 1 | 26 | 24 | 2 | 62 | 17 | 385 | 19 | |
| 44236 | 37.00 | 38.40 | 1.40 | 0.3 | 95 | 1 | 28 | 21 | 1 | 58 | 4 | 445 | 12 | |
| 44237 | 38.40 | 39.10 | 0.70 | 0.7 | 47 | 1 | 17 | 20 | 1 | 41 | 3 | 1015 | 13 | |
| 44238 | 39.10 | 39.60 | 0.50 | 0.5 | 20 | 1 | 20 | 21 | 1 | 55 | 1 | 550 | 10 | |
| 44239 | 39.60 | 40.70 | 1.10 | 0.4 | 27 | 1 | 18 | 20 | 1 | 45 | 6 | 1280 | 14 | |
| 44240 | 40.70 | 42.70 | 2.00 | 0.6 | 20 | 1 | 8 | 21 | 1 | 38 | 2 | 470 | 12 | |
| 44241 | 42.70 | 44.70 | 2.00 | 0.5 | 28 | 1 | 8 | 19 | 1 | 42 | 1 | 330 | 22 | |
| 44242 | 44.70 | 46.70 | 2.00 | 0.7 | 30 | 3 | 19 | 28 | 2 | 58 | 5 | 310 | 19 | |
| 44243 | 46.70 | 47.80 | 1.10 | 0.5 | 35 | 2 | 22 | 22 | 1 | 51 | 2 | 490 | 13 | |
| 44244 | 47.80 | 49.20 | 1.40 | 0.4 | 18 | 2 | 20 | 21 | 1 | 57 | 1 | 330 | 8 | |
| 44245 | 49.20 | 50.60 | 1.40 | 0.7 | 30 | 2 | 18 | 21 | 1 | 54 | 3 | 475 | 30 | |
| 44246 | 50.60 | 52.00 | 1.40 | 0.7 | 27 | 2 | 19 | 23 | 1 | 50 | 2 | 410 | 14 | |
| 44247 | 52.00 | 53.20 | 1.20 | 0.6 | 65 | 1 | 16 | 20 | 2 | 45 | 4 | 675 | 15 | |
| 44248 | 53.20 | 55.70 | 2.50 | 0.3 | 28 | 2 | 40 | 22 | 1 | 60 | 2 | 450 | 100 | |
| 44249 | 55.70 | 57.70 | 2.00 | 0.4 | 85 | 1 | 27 | 19 | 4 | 58 | 2 | 560 | 35 | |
| 44250 | 57.70 | 59.10 | 1.40 | 0.7 | 239 | 1 | 26 | 26 | 18 | 69 | 14 | 550 | 17 | |
| 44251 | 59.10 | 60.50 | 1.40 | 0.4 | 185 | 2 | 25 | 23 | 13 | 72 | 2 | 440 | 16 | |
| 44252 | 60.50 | 62.50 | 2.00 | 0.3 | 54 | 2 | 23 | 22 | 3 | 65 | 6 | 360 | 27 | |
| 44253 | 62.50 | 64.50 | 2.00 | 0.2 | 80 | 1 | 21 | 23 | 3 | 59 | 10 | 560 | 29 | |
| 44254 | 64.50 | 66.50 | 2.00 | 0.5 | 109 | 2 | 20 | 24 | 5 | 52 | 13 | 500 | 50 | |
| 44255 | 66.50 | 67.50 | 1.00 | 0.3 | 78 | 2 | 27 | 23 | 6 | 73 | 5 | 610 | 16 | |
| 44256 | 67.50 | 67.80 | 0.30 | 0.7 | 226 | 1 | 13 | 12 | 14 | 19 | 8 | 500 | 4 | |
| 44257 | 67.80 | 69.20 | 1.40 | 0.8 | 170 | 1 | 25 | 22 | 17 | 63 | 3 | 530 | 15 | |
| 44258 | 69.20 | 71.20 | 2.00 | 0.5 | 132 | 2 | 28 | 19 | 10 | 60 | 2 | 380 | 28 | |
| 44259 | 71.20 | 73.00 | 1.80 | 0.5 | 84 | 2 | 25 | 23 | 10 | 62 | 4 | 305 | 20 | |
| 44260 | 73.00 | 75.00 | 2.00 | 0.3 | 104 | 2 | 34 | 25 | 18 | 69 | 3 | 400 | 29 | |
| 44261 | 75.00 | 77.00 | 2.00 | 0.7 | 187 | 1 | 17 | 22 | 6 | 61 | 11 | 610 | 24 | |
| 44262 | 77.00 | 79.20 | 2.20 | 0.7 | 248 | 1 | 18 | 20 | 16 | 68 | 15 | 535 | 27 | |
| 44263 | 79.20 | 81.40 | 2.20 | 1.6 | 361 | 1 | 16 | 16 | 22 | 54 | 53 | 435 | 17 | |
| 44264 | 81.40 | 82.80 | 1.40 | 1.6 | 325 | 1 | 22 | 19 | 24 | 51 | 62 | 645 | 10 | |
| 44265 | 82.80 | 83.30 | 0.50 | 0.9 | 211 | 2 | 22 | 24 | 12 | 72 | 16 | 380 | 12 | |
| 44266 | 83.30 | 85.30 | 2.00 | 0.6 | 34 | 2 | 16 | 20 | 1 | 43 | 4 | 70 | 16 | |
| 44267 | 85.30 | 87.70 | 2.40 | 0.3 | 40 | 1 | 13 | 22 | 1 | 44 | 2 | 125 | 36 | |
| 44268 | 90.60 | 92.60 | 2.00 | 0.9 | 30 | 3 | 29 | 22 | 1 | 35 | 1 | 70 | 14 | |
| 44269 | 100.50 | 102.50 | 2.00 | 0.8 | 13 | 3 | 26 | 21 | 1 | 25 | 3 | 120 | 7 | |
| 44270 | 104.50 | 107.50 | 3.00 | 0.4 | 9 | 2 | 27 | 19 | 1 | 18 | 2 | 60 | 17 | |
| 44271 | 107.50 | 109.30 | 1.80 | 0.5 | 13 | 1 | 38 | 14 | 1 | 15 | 2 | 75 | 23 | |

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| Sample | From (m) | To (m) | Length (m) | | | | | | | | | | |
|--------|----------|--------|------------|-----|-----|---|----|----|----|----|----|------|-----|
| 44235 | 34.80 | 37.00 | 2.20 | 0.5 | 194 | 1 | 26 | 24 | 2 | 62 | 17 | 385 | 19 |
| 44236 | 37.00 | 38.40 | 1.40 | 0.3 | 95 | 1 | 28 | 21 | 1 | 58 | 4 | 445 | 12 |
| 44237 | 38.40 | 39.10 | 0.70 | 0.7 | 47 | 1 | 17 | 20 | 1 | 41 | 3 | 1015 | 13 |
| 44238 | 39.10 | 39.60 | 0.50 | 0.5 | 20 | 1 | 20 | 21 | 1 | 55 | 1 | 550 | 10 |
| 44239 | 39.60 | 40.70 | 1.10 | 0.4 | 27 | 1 | 18 | 20 | 1 | 45 | 6 | 1280 | 14 |
| 44240 | 40.70 | 42.70 | 2.00 | 0.6 | 20 | 1 | 8 | 21 | 1 | 38 | 2 | 470 | 12 |
| 44241 | 42.70 | 44.70 | 2.00 | 0.5 | 28 | 1 | 8 | 19 | 1 | 42 | 1 | 330 | 22 |
| 44242 | 44.70 | 46.70 | 2.00 | 0.7 | 30 | 3 | 19 | 28 | 2 | 58 | 5 | 310 | 19 |
| 44243 | 46.70 | 47.80 | 1.10 | 0.5 | 35 | 2 | 22 | 22 | 1 | 51 | 2 | 490 | 13 |
| 44244 | 47.80 | 49.20 | 1.40 | 0.4 | 18 | 2 | 20 | 21 | 1 | 57 | 1 | 330 | 8 |
| 44245 | 49.20 | 50.60 | 1.40 | 0.7 | 30 | 2 | 18 | 21 | 1 | 54 | 3 | 475 | 30 |
| 44246 | 50.60 | 52.00 | 1.40 | 0.7 | 27 | 2 | 19 | 23 | 1 | 50 | 2 | 410 | 14 |
| 44247 | 52.00 | 53.20 | 1.20 | 0.6 | 65 | 1 | 16 | 20 | 2 | 45 | 4 | 675 | 15 |
| 44248 | 53.20 | 55.70 | 2.50 | 0.3 | 28 | 2 | 40 | 22 | 1 | 60 | 2 | 450 | 100 |
| 44249 | 55.70 | 57.70 | 2.00 | 0.4 | 85 | 1 | 27 | 19 | 4 | 58 | 2 | 560 | 35 |
| 44250 | 57.70 | 59.10 | 1.40 | 0.7 | 239 | 1 | 26 | 26 | 18 | 69 | 14 | 550 | 17 |
| 44251 | 59.10 | 60.50 | 1.40 | 0.4 | 185 | 2 | 25 | 23 | 13 | 72 | 2 | 440 | 16 |
| 44252 | 60.50 | 62.50 | 2.00 | 0.3 | 54 | 2 | 23 | 22 | 3 | 65 | 6 | 360 | 27 |
| 44253 | 62.50 | 64.50 | 2.00 | 0.2 | 80 | 1 | 21 | 23 | 3 | 59 | 10 | 560 | 29 |
| 44254 | 64.50 | 66.50 | 2.00 | 0.5 | 109 | 2 | 20 | 24 | 5 | 52 | 13 | 500 | 50 |
| 44255 | 66.50 | 67.50 | 1.00 | 0.3 | 78 | 2 | 27 | 23 | 6 | 73 | 5 | 610 | 16 |
| 44256 | 67.50 | 67.80 | 0.30 | 0.7 | 226 | 1 | 13 | 12 | 14 | 19 | 8 | 500 | 4 |
| 44257 | 67.80 | 69.20 | 1.40 | 0.8 | 170 | 1 | 25 | 22 | 17 | 63 | 3 | 530 | 15 |
| 44258 | 69.20 | 71.20 | 2.00 | 0.5 | 132 | 2 | 28 | 19 | 10 | 60 | 2 | 380 | 28 |
| 44259 | 71.20 | 73.00 | 1.80 | 0.5 | 84 | 2 | 25 | 23 | 10 | 62 | 4 | 305 | 20 |
| 44260 | 73.00 | 75.00 | 2.00 | 0.3 | 104 | 2 | 34 | 25 | 18 | 69 | 3 | 400 | 29 |
| 44261 | 75.00 | 77.00 | 2.00 | 0.7 | 187 | 1 | 17 | 22 | 6 | 61 | 11 | 610 | 24 |
| 44262 | 77.00 | 79.20 | 2.20 | 0.7 | 248 | 1 | 18 | 20 | 16 | 68 | 15 | 535 | 27 |
| 44263 | 79.20 | 81.40 | 2.20 | 1.6 | 361 | 1 | 16 | 16 | 22 | 54 | 53 | 435 | 17 |
| 44264 | 81.40 | 82.80 | 1.40 | 1.6 | 325 | 1 | 22 | 19 | 24 | 51 | 62 | 645 | 10 |
| 44265 | 82.80 | 83.30 | 0.50 | 0.9 | 211 | 2 | 22 | 24 | 12 | 72 | 16 | 380 | 12 |
| 44266 | 83.30 | 85.30 | 2.00 | 0.6 | 34 | 2 | 16 | 20 | 1 | 43 | 4 | 70 | 16 |
| 44267 | 85.30 | 87.70 | 2.40 | 0.3 | 40 | 1 | 13 | 22 | 1 | 44 | 2 | 125 | 36 |
| 44268 | 90.60 | 92.60 | 2.00 | 0.9 | 30 | 3 | 29 | 22 | 1 | 35 | 1 | 70 | 14 |
| 44269 | 100.50 | 102.50 | 2.00 | 0.8 | 13 | 3 | 26 | 21 | 1 | 25 | 3 | 120 | 7 |
| 44270 | 104.50 | 107.50 | 3.00 | 0.4 | 9 | 2 | 27 | 19 | 1 | 18 | 2 | 60 | 17 |
| 44271 | 107.50 | 109.30 | 1.80 | 0.5 | 13 | 1 | 38 | 14 | 1 | 15 | 2 | 75 | 23 |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|-------------|---|---|---------|
| 0.00 TO 30.00 | «CASING/ OVERBURDEN» | | | | | |
| 30.00 TO 78.30 | «AMYGDA- LOIDAL INT. FLOW» | M. green, f.g. A monotonous sequence of thick intermediate flows characterized by abundant qz and sometimes calcite filled amygdules. These show a variety of morphologies, from pipe to rounded, spherical forms. The groundmass is fine grained to aphanitic. Phenocrysts of euhedral plagioclase and possibly hornblende occur sporadically. The mafic minerals are replaced by chlorite. Most of this interval has been disrupted by diffuse fault zones which have caused crushing of the rock. This becomes gougy in places. No significant differences in lithology noted across these structures, therefore they are probably minor. | | «M-S ARG+SER, W CL» The entire interval is altered to a very soft green texture. This is interpreted to be argillic alteration, however, there could be a significant sericite and chlorite component. Weak calcite is also noted in places. | «Tr-3% py» Very sparse throughout most of the interval. Locally pyrite stockworks are developed. These only occur over narrow widths (5-25 cm). | |
| | {30.0-35.7} «CRUSH ZONE -FAULT» | Pulverized zone of the amygdaloidal flow. This could be partially a near surface feature or a fault zone. No distinct planes seen. Clasts of qz after filled amygdules and fragments of qz-py stringers noted. | | | «1% py» Mostly in clasts of qz vein material. 1-5 cm patches of crushed py stringers also noted. | |
| | {35.9- 36.25} «QZ-PY STRINGER ZONE» | Less disrupted zone of qz-py stockwork. Qz stringers contain varying amounts of calcite. Fine py also. | | «S ARG, M CL, M CA» | «5% py» mainly in qz-calcite stringers. Also as envelopes around microfractures | |
| | {40.8-47.9} «PY STWK» | Py veinlets present throughout the interval. Density reaches over 3-/m. Py veinlets associated with qz-calcite veins. Sometimes pyrite forms envelopes around them. | | «S-I ARG» Bright green chlorite blebs also noted. | «5% py» Fine grained py stockwork. | |
| | {44.1-45.4} «DISRUPTED ZONE-FAULT BX» | | | | | |
| | {45.4-57.4} «PY STWK» | The stockwork is disrupted by wide crushed and gougy breccia zones. these are post-mineral faults | | «I ARG» Groundmass altered to very soft green clay. Probably a clay-chlorite mixture. | «5% py» | |
| | {60.0-61.0} «FAULT ZONE» | | | | | |
| | {62.7-74.2} | | | | | |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-15

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|-------------|--|--|------------------|
| | «FAULT ZONE» ‡74.2-78.3‡ «AMYGDALOIDAL FLOW» ‡75.45-75.6‡ «SIL BX/STWK» | Crushed and brecciated core - unhealed. Green. Relatively intact interval of amygdaloidal andesite. Fewer amygdules present. Most are chlorite filled and up to 4 mm in diameter. Euhedral plagioclase phenos also finer grained than higher in the hole. These reach 3 mm in length. A brecciated and healed section of the host rock. Irregular qz-py stringers have invaded breccia zone. Clasts are angular and range from 1 mm to 4 cm across. Clast supported texture. | | «I ARG» Pervasive clay alteration. Pods of fine grained calcite abundant lower in interval. These may be vein frags or irregular amygdules. «W-M SIL, I ARG» | «Tr py» as disseminated, microscopic crystals in groundmass and as 1 mm envelopes around sparse qz stringers. «3% py» in vein margins and as rims on angular clasts of wallrock. | |
| 78.30 TO 88.00 | «SILICIFIED BX» | Dark grey. A zone of intense silica flooding of a wallrock breccia. The unit is made up of angular clasts of amygdaloidal flow material which have been rebroken by later stockworking. At least 3 generations of brecciation and veining are noted. Initial brecciation may have been fault related. This is shattered and stockworked by numerous qz-py stringers and clasts of the original breccia were silicified. Late crosscutting vuggy qz veinlets, barren of pyrite, form the latest event. Vein-like breccias cut the zone. There are at least two generations noted. Lower contact @ Lower contact of zone is knife sharp suggesting possible late fault movement. | 50 | «X SIL» Pervasive silicification of clasts, healing of crosscutting breccia and qz stockworking. Multistage silicification, at least three generations noted - possibly more. Late white quartz veins are drusy. | «3-10% py» Mostly as stockworking of qz-py veinlets, but also as finely disseminated - dusty pyrite in the siliceous breccia matrix. Replacement of wallrock clasts by fine pyrite noted at 185.7 m. More pyrite rims and invades andesite clasts. | |
| 88.00 TO 88.50 | «RHYOLITE» | A moderately silicified interval of perlitic rhyolite. This zone exhibits incipient hydrothermal brecciation and strong qz stockworking. Parallel qz-py veins may be replacing original flow banding. Lower contact @ 88.5 | 40 | «M SIL, M-S ARG» Pervasive argillic alteration with patchy silicification and qz stockworking. Green tints could be due to weak chloritization. Qz microveins have 1-2 mm silicified envelopes. | «3% py» Mostly as patches and crystal aggregates up to 1 cm across. Py does not seem to be the same event as the qz stockwork - perhaps earlier? | |
| 88.50 TO 91.60 | «SILICIFIED HETERO-LITHIC BX» ‡90.0-91.2‡ | Green & grey, m.- c.g. A fairly well sorted, possibly depositional breccia containing angular fragments of several types. Glassy and perlitic rhyolite are the dominant type. Others include argillized andesite and bedded ash tuff. Clasts range in size from about 1 mm to over 5 cm. Most however average about 1-2 cm. | | «M-S SIL, W ARG» The interval is variably silicified. Where most intense the breccia matrix has been healed and pervaded by qz. In these areas, vuggy cavities are abundant. «S SIL» | «Tr-1% py» Less abundant than previous interval. Most occurs in narrow breccia veins (1-2 cm) near upper contact. | Lapilli breccia? |

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HOLE NUMBER: CL-91-15

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|------------------------------------|--|-------------|---|---|-----------------------|
| | {91.5-91.6} | | | «S SIL» | | |
| 91.60 TO 94.80 | «PLAGIO-CLASE-BI PORPHYRY» | Grey, f.g. A fine to aphanitic intermediate flow or dyke containing about 15-20% , 0.5-1.0 cm plagioclase phenos. Lath shaped biotites and rare rounded qz crystals also noted. No flow banding or bedding features seen, suggesting an intrusive. The host is moderately to strongly siliceous. This may in part be a primary feature. | | «M-S SIL, W CL» «QZ STWK» The interval is stockworked by two generations of qz stringers. Early ones have well developed chlorite (+py) envelopes up to 10 mm wide. These cut and are cut by grey to white quartz veinlets. The youngest veins have large vuggy cavities with euhedral nailhead spar calcite crystals. | «Tr py» Mostly with chlorite in vein envelopes, but also as sparse disseminations in the porphyry groundmass. | |
| 94.80 TO 109.10 | «FLOW BANDED RHYOLITE/RHYOLITE BX» | Grey-green, f.g.-a. A complex unit composed of flow banded glassy and perlitic rhyolite and rhyolite breccia. Intervals of breccia are strongly aligned and flattened suggesting welding. A pink coloured matrix to breccia intervals may be caused by K-feldspar crystals. This unit is most likely a semi-plastic/brittle glassy rhyolite flow. Orbicular or spherulitic textures result from devitrification. | | «M SIL, W ARG» Not very altered. Fine qz stringers with 1 mm silica envelopes occur through interval. | «Tr py» in late veinlets. | Glassy-Obsidian flow. |
| 109.10 TO 109.90 | «FAULT BX/GOUGE» | Green grey. Rubby clay healed fault breccia. The rock is crushed into densely packed fragments held together by a yellow-green clay matrix. The top third is dominated by rhyolite fragments. These give way to intensely argillized tuff near bottom. | | «S ARG» Calcite clasts - vein material also noted. | «Tr py» | |
| 109.90 TO 121.00 | «RHYOLITE» {109.9-114.6} | Flow banded rhyolite with no glassy remnants. Intense argillic alteration near top of the interval may have destroyed these textures. Pale green blebs may be relict feldspar phenos. | | «M SER, W CL» Intense yellow green alteration looks like sericite on fracture surfaces. Patchy chlorite also noted. Chlorite envelopes present around widespread qz stringers. «I SER» Degree of sericitization decreases down hole. | | |
| 121.00 TO 121.60 | «PYRO-CLASTIC BX» | A narrow interval of heterolithic lapilli breccia. Possibly an inter flow unit. Made up mostly of sericitic rhyolite clasts but with pinkish and dark grey clasts mixed in. These may also be rhyolite. Clasts are poorly sorted and angular. Size ranges from 2 mm - 3.5 cm. Fragment supported | | «S SER, W CL» Strong sericite alteration of matrix, also patches of chlorite noted. | «Tr-15 py» as patches replacing some clasts. | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|---|-------------|---|---|---------|
| 121.60 TO 125.20 | «RHYOLITE» ↓122.3-123.1↓ «GROUND AND BROKEN CORE» | Yellow-grey, f.-m.g. A moderately sericitized, fine to medium grained equigranular rhyolite. The rock consists of densely packed qz crystals about 1 mm across in a groundmass of sericitized feldspars. Despite being sericitized the rock is very hard. This reflects the amount of free qz present (30-40%). Weak flow banding textures noted @ 123.9 m. | | «M SER, W CL» Moderately sericitized with patchy chloritization. Chlorite also occurs along microfractures. | «Tr py» as disseminated cubic crystals. | |
| 125.20 TO 125.40 | «FAULT» | Lower contact @ 125.4 m | 20 | | | |
| 125.40 TO 129.00 | «FLOW BANDED LATITE/DACITE» | Pink-green, a.-f.g. Very fine grained, almost glassy flow banded unit. Banding is highlighted by parallel chlorite stringers. Bleaching around these gives the rock a striped and/or mottled aspect. In places the rock is stained pink or brown. This appears to be caused by hematite; pink may also be primary KF. | | «W CL, W SER» | «Tr py» Py microveins noted in places. These have chlorite envelopes. | |
| 129.00 TO 132.00 | «PLAGIOCLASE - BI PORPHYRY» | Green-grey. Sill or dyke of clean looking feldspar biotite porphyry. PF phenos are euhedral and comprise about 15-25% of the rock. Biotites are smaller (2-5 mm) and make up about 5%. All phenos are randomly oriented. | | «W CL, W-M SER» Mafics are chloritized and the fine groundmass is pervasively sericitized. | | |
| 132.00 TO 160.50 | «FLOW BANDED LATITE» ↓132.0-132.1↓ «BRECCIA» ↓138.8-138.9↓ «BLACK PYRITIC QZ» | Grey. Similar to the previous latite unit. This section consists of one or perhaps several thick flows. There is very little textural variation. The only significant textural changes are from porphyritic (FX) to aphyric. Pinkish colouration in places is attributed to hematitic staining. Silicified interflow breccia? | | «M SER, W CL» Moderate pervasive sericitization. «M-S SIL» | «Tr py» | |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------|---|--|----------------|---|--|---------|
| | VEIN» ‡149.0- 149.2‡ | | | «I SIL» Patch of intense grey silicification. Adjacent wall rocks are strongly sericitized and locally hydrobrecciated. | | |
| | ‡149.2- 153.1‡ | Hydrobrecciation and qz stockworking on a small scale. | | «S SER, W SIL» Patchy silification over 2-10 cm lengths. | «Tr py» as rounded patches and aggregates. | |
| | ‡153.1- 154.5‡ «HEMATIZED FLOW BX» | Dark brown. A very dense unit composed of flow banded latite fragments in a similar matrix. Could be a flow top or autobreccia unit. Dark colour due to pervasive dark hematite and chlorite | | «S HE, M CL» Pervasive chloritization and hematization of breccia interval. | «Tr py» | |
| | 160.0 m | EON | | | | |

HOLE NUMBER: CL-91-15

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DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 44107 | 29.60 | 32.60 | 3.00 | 0.3 | 72 | 2 | 44 | 28 | 3 | 70 | 2 | 545 | 100 | |
| 44108 | 32.60 | 35.90 | 3.30 | 0.5 | 34 | 2 | 26 | 21 | 5 | 61 | 1 | 530 | 100 | |
| 44109 | 35.90 | 37.70 | 1.80 | 0.5 | 22 | 2 | 25 | 22 | 3 | 53 | 4 | 335 | 26 | |
| 44110 | 37.70 | 39.70 | 2.00 | 0.3 | 23 | 2 | 25 | 21 | 7 | 57 | 2 | 405 | 50 | |
| 44111 | 39.70 | 41.60 | 1.90 | 0.4 | 25 | 3 | 22 | 21 | 3 | 60 | 3 | 360 | 100 | |
| 44112 | 41.60 | 42.40 | 0.80 | 0.5 | 37 | 1 | 23 | 22 | 1 | 52 | 2 | 845 | 50 | |
| 44113 | 42.40 | 44.10 | 1.70 | 0.4 | 52 | 2 | 25 | 20 | 1 | 60 | 9 | 595 | 50 | |
| 44114 | 44.10 | 45.50 | 1.40 | 0.1 | 37 | 1 | 22 | 21 | 1 | 61 | 5 | 755 | 100 | |
| 44115 | 45.50 | 47.50 | 2.00 | 0.1 | 83 | 1 | 26 | 20 | 6 | 59 | 2 | 700 | 14 | |
| 44116 | 47.50 | 47.90 | 0.40 | 0.1 | 69 | 1 | 31 | 18 | 5 | 65 | 7 | 765 | 8 | |
| 44117 | 47.90 | 49.90 | 2.00 | 0.3 | 75 | 2 | 30 | 21 | 11 | 67 | 3 | 595 | 14 | |
| 44118 | 49.90 | 50.80 | 0.90 | 0.4 | 45 | 2 | 23 | 20 | 9 | 60 | 3 | 410 | 7 | |
| 44119 | 50.80 | 52.80 | 2.00 | 0.5 | 54 | 2 | 23 | 21 | 10 | 71 | 2 | 340 | 9 | |
| 44120 | 52.80 | 54.80 | 2.00 | 0.9 | 164 | 1 | 24 | 21 | 12 | 58 | 16 | 485 | 16 | |
| 44121 | 54.80 | 57.00 | 2.20 | 0.9 | 241 | 2 | 29 | 20 | 15 | 61 | 48 | 3650 | 18 | |
| 44122 | 57.00 | 58.00 | 1.00 | 0.6 | 162 | 1 | 23 | 23 | 8 | 59 | 13 | 3450 | 12 | |
| 44123 | 58.00 | 60.00 | 2.00 | 0.6 | 204 | 2 | 27 | 22 | 9 | 71 | 29 | 2095 | 18 | |
| 44124 | 60.00 | 62.00 | 2.00 | 0.4 | 275 | 2 | 26 | 20 | 16 | 67 | 35 | 725 | 27 | |
| 44125 | 62.00 | 65.00 | 3.00 | 0.5 | 121 | 2 | 36 | 25 | 13 | 66 | 4 | 895 | 100 | |
| 44126 | 65.00 | 67.00 | 2.00 | 0.7 | 137 | 1 | 35 | 23 | 7 | 57 | 8 | 635 | 100 | |
| 44127 | 67.00 | 69.00 | 2.00 | 0.5 | 90 | 2 | 23 | 25 | 4 | 67 | 3 | 405 | 100 | |
| 44128 | 69.00 | 71.00 | 2.00 | 0.5 | 161 | 1 | 23 | 25 | 8 | 70 | 51 | 475 | 25 | |
| 44129 | 71.00 | 73.00 | 2.00 | 1.2 | 239 | 1 | 41 | 19 | 19 | 69 | 57 | 455 | 100 | |
| 44130 | 73.00 | 74.30 | 1.30 | 1.3 | 294 | 2 | 49 | 20 | 15 | 72 | 64 | 510 | 8 | |
| 44131 | 74.30 | 76.30 | 2.00 | 0.2 | 68 | 2 | 37 | 22 | 7 | 68 | 1 | 420 | 35 | |
| 44132 | 76.30 | 78.30 | 2.00 | 0.8 | 138 | 2 | 23 | 23 | 11 | 72 | 6 | 495 | 100 | |
| 44133 | 78.30 | 79.80 | 1.50 | 1.9 | 241 | 1 | 14 | 25 | 17 | 56 | 67 | 615 | 18 | |
| 44134 | 79.80 | 81.80 | 2.00 | 2.9 | 322 | 1 | 13 | 17 | 26 | 39 | 59 | 545 | 6 | |
| 44135 | 81.80 | 83.80 | 2.00 | 2.2 | 359 | 1 | 13 | 18 | 24 | 45 | 62 | 305 | 10 | |
| 44136 | 83.80 | 85.80 | 2.00 | 2.5 | 322 | 1 | 12 | 19 | 23 | 40 | 56 | 290 | 10 | |
| 44137 | 85.80 | 86.80 | 1.00 | 2.8 | 341 | 1 | 14 | 16 | 25 | 43 | 72 | 380 | 8 | |
| 44138 | 86.80 | 87.90 | 1.10 | 2 | 321 | 1 | 15 | 19 | 26 | 36 | 59 | 555 | 8 | |
| 44139 | 87.90 | 90.00 | 2.10 | 0.4 | 120 | 1 | 18 | 17 | 8 | 48 | 23 | 250 | 18 | |
| 44140 | 90.00 | 91.60 | 1.60 | 0.6 | 32 | 1 | 19 | 14 | 1 | 31 | 4 | 115 | 7 | |
| 44141 | 91.60 | 93.60 | 2.00 | 0.7 | 25 | 1 | 10 | 14 | 1 | 26 | 8 | 100 | 9 | |
| 44142 | 93.60 | 94.80 | 1.20 | 0.5 | 23 | 1 | 21 | 14 | 1 | 31 | 2 | 65 | 9 | |
| 44143 | 94.80 | 96.80 | 2.00 | 0.2 | 46 | 1 | 17 | 19 | 1 | 40 | 1 | 130 | 16 | |
| 44144 | 96.80 | 98.80 | 2.00 | 0.3 | 73 | 1 | 26 | 23 | 1 | 50 | 9 | 185 | 100 | |

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ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44145 | 98.80 | 100.80 | 2.00 | 0.2 | 88 | 1 | 24 | 23 | 2 | 42 | 6 | 160 | 100 |
| 44146 | 100.80 | 102.80 | 2.00 | 0.2 | 86 | 1 | 23 | 20 | 1 | 45 | 57 | 165 | 30 |
| 44147 | 102.80 | 104.80 | 2.00 | 0.3 | 47 | 1 | 30 | 22 | 1 | 42 | 3 | 220 | 21 |
| 44148 | 104.80 | 106.80 | 2.00 | 0.5 | 26 | 1 | 24 | 22 | 1 | 35 | 2 | 155 | 15 |
| 44149 | 106.80 | 108.80 | 2.00 | 0.3 | 30 | 1 | 26 | 21 | 1 | 47 | 6 | 125 | 15 |
| 44150 | 108.80 | 109.90 | 1.10 | 0.5 | 32 | 1 | 26 | 22 | 1 | 34 | 4 | 100 | 9 |
| 44226 | 109.90 | 111.90 | 2.00 | 0.8 | 40 | 1 | 45 | 19 | 1 | 6 | 5 | 110 | 50 |
| 44227 | 111.90 | 113.90 | 2.00 | 0.7 | 12 | 1 | 40 | 19 | 1 | 14 | 3 | 60 | 19 |
| 44228 | 113.90 | 115.90 | 2.00 | 0.7 | 21 | 1 | 43 | 18 | 1 | 26 | 2 | 80 | 15 |
| 44229 | 115.90 | 117.90 | 2.00 | 0.8 | 20 | 1 | 49 | 18 | 1 | 23 | 2 | 85 | 20 |
| 44230 | 117.90 | 119.90 | 2.00 | 0.6 | 18 | 1 | 49 | 17 | 1 | 22 | 1 | 50 | 50 |
| 44231 | 119.90 | 121.60 | 1.70 | 0.5 | 32 | 1 | 57 | 20 | 1 | 31 | 5 | 110 | 50 |

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HOLE NUMBER: CL-91-15

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | | | | | | | | | | |
|--------|----------|--------|------------|-----|-----|---|----|----|----|----|----|------|-----|
| 44107 | 29.60 | 32.60 | 3.00 | 0.3 | 72 | 2 | 44 | 28 | 3 | 70 | 2 | 545 | 100 |
| 44108 | 32.60 | 35.90 | 3.30 | 0.5 | 34 | 2 | 26 | 21 | 5 | 61 | 1 | 530 | 100 |
| 44109 | 35.90 | 37.70 | 1.80 | 0.5 | 22 | 2 | 25 | 22 | 3 | 53 | 4 | 335 | 26 |
| 44110 | 37.70 | 39.70 | 2.00 | 0.3 | 23 | 2 | 25 | 21 | 7 | 57 | 2 | 405 | 50 |
| 44111 | 39.70 | 41.60 | 1.90 | 0.4 | 25 | 3 | 22 | 21 | 3 | 60 | 3 | 360 | 100 |
| 44112 | 41.60 | 42.40 | 0.80 | 0.5 | 37 | 1 | 23 | 22 | 1 | 52 | 2 | 845 | 50 |
| 44113 | 42.40 | 44.10 | 1.70 | 0.4 | 52 | 2 | 25 | 20 | 1 | 60 | 9 | 595 | 50 |
| 44114 | 44.10 | 45.50 | 1.40 | 0.1 | 37 | 1 | 22 | 21 | 1 | 61 | 5 | 755 | 100 |
| 44115 | 45.50 | 47.50 | 2.00 | 0.1 | 83 | 1 | 26 | 20 | 6 | 59 | 2 | 700 | 14 |
| 44116 | 47.50 | 47.90 | 0.40 | 0.1 | 69 | 1 | 31 | 18 | 5 | 65 | 7 | 765 | 8 |
| 44117 | 47.90 | 49.90 | 2.00 | 0.3 | 75 | 2 | 30 | 21 | 11 | 67 | 3 | 595 | 14 |
| 44118 | 49.90 | 50.80 | 0.90 | 0.4 | 45 | 2 | 23 | 20 | 9 | 60 | 3 | 410 | 7 |
| 44119 | 50.80 | 52.80 | 2.00 | 0.5 | 54 | 2 | 23 | 21 | 10 | 71 | 2 | 340 | 9 |
| 44120 | 52.80 | 54.80 | 2.00 | 0.9 | 164 | 1 | 24 | 21 | 12 | 58 | 16 | 485 | 16 |
| 44121 | 54.80 | 57.00 | 2.20 | 0.9 | 241 | 2 | 29 | 20 | 15 | 61 | 48 | 3650 | 18 |
| 44122 | 57.00 | 58.00 | 1.00 | 0.6 | 162 | 1 | 23 | 23 | 8 | 59 | 13 | 3450 | 12 |
| 44123 | 58.00 | 60.00 | 2.00 | 0.6 | 204 | 2 | 27 | 22 | 9 | 71 | 29 | 2095 | 18 |
| 44124 | 60.00 | 62.00 | 2.00 | 0.4 | 275 | 2 | 26 | 20 | 16 | 67 | 35 | 725 | 27 |
| 44125 | 62.00 | 65.00 | 3.00 | 0.5 | 121 | 2 | 36 | 25 | 13 | 66 | 4 | 895 | 100 |
| 44126 | 65.00 | 67.00 | 2.00 | 0.7 | 137 | 1 | 35 | 23 | 7 | 57 | 8 | 635 | 100 |
| 44127 | 67.00 | 69.00 | 2.00 | 0.5 | 90 | 2 | 23 | 25 | 4 | 67 | 3 | 405 | 100 |
| 44128 | 69.00 | 71.00 | 2.00 | 0.5 | 161 | 1 | 23 | 25 | 8 | 70 | 51 | 475 | 25 |
| 44129 | 71.00 | 73.00 | 2.00 | 1.2 | 239 | 1 | 41 | 19 | 19 | 69 | 57 | 455 | 100 |
| 44130 | 73.00 | 74.30 | 1.30 | 1.3 | 294 | 2 | 49 | 20 | 15 | 72 | 64 | 510 | 8 |
| 44131 | 74.30 | 76.30 | 2.00 | 0.2 | 68 | 2 | 37 | 22 | 7 | 68 | 1 | 420 | 35 |
| 44132 | 76.30 | 78.30 | 2.00 | 0.8 | 138 | 2 | 23 | 23 | 11 | 72 | 6 | 495 | 100 |
| 44133 | 78.30 | 79.80 | 1.50 | 1.9 | 241 | 1 | 14 | 25 | 17 | 56 | 67 | 615 | 18 |
| 44134 | 79.80 | 81.80 | 2.00 | 2.9 | 322 | 1 | 13 | 17 | 26 | 39 | 59 | 545 | 6 |
| 44135 | 81.80 | 83.80 | 2.00 | 2.2 | 359 | 1 | 13 | 18 | 24 | 45 | 62 | 305 | 10 |
| 44136 | 83.80 | 85.80 | 2.00 | 2.5 | 322 | 1 | 12 | 19 | 23 | 40 | 56 | 290 | 10 |
| 44137 | 85.80 | 86.80 | 1.00 | 2.8 | 341 | 1 | 14 | 16 | 25 | 43 | 72 | 380 | 8 |
| 44138 | 86.80 | 87.90 | 1.10 | 2 | 321 | 1 | 15 | 19 | 26 | 36 | 59 | 555 | 8 |
| 44139 | 87.90 | 90.00 | 2.10 | 0.4 | 120 | 1 | 18 | 17 | 8 | 48 | 23 | 250 | 18 |
| 44140 | 90.00 | 91.60 | 1.60 | 0.6 | 32 | 1 | 19 | 14 | 1 | 31 | 4 | 115 | 7 |
| 44141 | 91.60 | 93.60 | 2.00 | 0.7 | 25 | 1 | 10 | 14 | 1 | 26 | 8 | 100 | 9 |
| 44142 | 93.60 | 94.80 | 1.20 | 0.5 | 23 | 1 | 21 | 14 | 1 | 31 | 2 | 65 | 9 |
| 44143 | 94.80 | 96.80 | 2.00 | 0.2 | 46 | 1 | 17 | 19 | 1 | 40 | 1 | 130 | 16 |
| 44144 | 96.80 | 98.80 | 2.00 | 0.3 | 73 | 1 | 26 | 23 | 1 | 50 | 9 | 185 | 100 |
| 44145 | 98.80 | 100.80 | 2.00 | 0.2 | 88 | 1 | 24 | 23 | 2 | 42 | 6 | 160 | 100 |

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GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | | | | | | | | | | |
|--------|-------------|-----------|---------------|-----|----|---|----|----|---|----|----|-----|----|
| 44146 | 100.80 | 102.80 | 2.00 | 0.2 | 86 | 1 | 23 | 20 | 1 | 45 | 57 | 165 | 30 |
| 44147 | 102.80 | 104.80 | 2.00 | 0.3 | 47 | 1 | 30 | 22 | 1 | 42 | 3 | 220 | 21 |
| 44148 | 104.80 | 106.80 | 2.00 | 0.5 | 26 | 1 | 24 | 22 | 1 | 35 | 2 | 155 | 15 |
| 44149 | 106.80 | 108.80 | 2.00 | 0.3 | 30 | 1 | 26 | 21 | 1 | 47 | 6 | 125 | 15 |
| 44150 | 108.80 | 109.90 | 1.10 | 0.5 | 32 | 1 | 26 | 22 | 1 | 34 | 4 | 100 | 9 |
| 44226 | 109.90 | 111.90 | 2.00 | 0.8 | 40 | 1 | 45 | 19 | 1 | 6 | 5 | 110 | 50 |
| 44227 | 111.90 | 113.90 | 2.00 | 0.7 | 12 | 1 | 40 | 19 | 1 | 14 | 3 | 60 | 19 |
| 44228 | 113.90 | 115.90 | 2.00 | 0.7 | 21 | 1 | 43 | 18 | 1 | 26 | 2 | 80 | 15 |
| 44229 | 115.90 | 117.90 | 2.00 | 0.8 | 20 | 1 | 49 | 18 | 1 | 23 | 2 | 85 | 20 |
| 44230 | 117.90 | 119.90 | 2.00 | 0.6 | 18 | 1 | 49 | 17 | 1 | 22 | 1 | 50 | 50 |
| 44231 | 119.90 | 121.60 | 1.70 | 0.5 | 32 | 1 | 57 | 20 | 1 | 31 | 5 | 110 | 50 |

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|--|-------------|--|--------------------------------------|---|
| 0.00 TO 18.30 | «CASING» | | | | | |
| 18.30 TO 56.50 | «TUFF BX» ‡26.7-29.6‡ «BLACK BX» ‡32.6-33.6‡ «GOUGE» ‡35.8-38.7‡ «GOUGE» ‡44.8-45.5‡ «GOUGE» ‡50.5-51.7‡ «GOUGE» | Green. Essentially monomictic lithic lapilli to block breccia of green clay altered fragments of f.g. (<1mm) feldspar porphyry with rare (~10%) amygdaloidal block sized fragments. Breccia matrix is f.g. soft unsilicified lithic rich but crystal poor and paler green. Maybe a lahar? Black matrix. | | «S-I ARG» 40% of interval is gougy, especially in lower half. | «Tr py» Irregular patches in matrix. | Breccia matrix is muddy, may represent a lahar. |
| 56.50 TO 64.10 | «BLACK BX» | Black & green. Black matrix tuff breccia. Same lithology for fragments, but matrix now more crystal rich. Black colour increases downsection. | | «S-I ARG» | «Tr py» Irregular patches in matrix. | |
| 64.10 TO 71.00 | «LAHAR» | Brown-grey. f.g. Really grungy strange looking tuff breccia. Rock is totally replaced by clay, is fingernail soft, dull grey-brown, crumbly. Maybe muddy matrix lahar. One amygdaloidal flow frag. | | «I ARG» | «Tr py» | Muddy lahar? |
| 71.00 TO 74.40 | «LAHAR» | Black. Similarly altered soft, crumbly black muddy matrix with barely recognizable clay altered fragments. 5% 1-2 mm white specks in muddy matrix might be clay altered feldspar crystals or zeolite ? | | «I-X ARG» Total clay replacement. | | Muddy lahar? |
| 74.40 TO 86.50 | «FAULT LAPILLI BX» | Grey-green. Gougy zone of faulted intensely argillized tuff breccia. Abundant angular frags of quartz vein & green f.g. porphyry frags (similar to above) and rare amygdaloidal frags. | | «I-X ARG» of matrix and wallrock frags. 70% of interval is fault gouge. | | |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-16

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|---|-------------|---|---|---------|
| 86.50 TO 104.00 | «STWK FAULT ZONE» ‡98.4-99.0‡ «QTZ BX» | Grey. Moderate quartz and calcite pyritic stockwork in intensely argillized fault zone, within the amygdaloidal flow unit. Single preserved "island" of amygdaloidal flow shows welding into a plane @ Black & white. Pyritic quartz stockwork breccia. Intensely argillized amyg. flow fragments to 5 cm. 10 cm quartz breccia vein. | 30 | «I-X ARG» 50% of interval is extremely argillic and gougy. «I SIL» | «1-3% py» in disrupted qtz stringers. «5% py» in quartz breccia matrix. | |
| 104.00 TO 118.00 | «STWK FAULT ZONE» ‡104.0-107.0‡ «AMYGDALOIDAL FLOW» ‡107.2-107.5‡ «FAULT» ‡109.9-111.4‡ «FAULT» ‡114.5-115.4‡ «FAULT» ‡115.8-116.1‡ «SIL ZONE» | Grey-green. Similar to previous interval but weaker stockwork, less pyrite, slightly less intensely altered and more competent. Abundant quartz and calcite filled amygdules maybe 10% grey quartz vein frags. Green. Chlorite lined amygdules flattened into planes @ Quartz vein frags, amygdules and silicified wall rock frags in gougy extremely argillized zones. S.A.A. S.A.A. Pyrite quartz flooded amygdaloidal flow. | 20 | «I ARG» 30% of interval is gougy. «M CHL» in rare preserved amyg. flow fragments. «M CHL, M HEM» «X ARG» Abundant clay gouge. «I SIL» | «1-2% py» in disrupted qtz stringers. «5% py» in grey quartz matrix. | |
| 118.00 TO 125.30 | «QTZ STWK» ‡118.7-119.0‡ «SIL FAULT» ‡123.6-124.9‡ «FAULT» | Grey-green. Weakly pyritic moderate quartz stockwork zone with local jigsaw breccia. More silicified and competent than previous interval. 80% clay gouge with silicified pyritic frags. | | «M-S ARG» «M-S SIL» M CHL, M HEM» Moderate remnant chlorite lining amygdules and hematite stringers. | «1% py» in grey quartz stringers. | |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-16

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|---|-------------|---|---|-------------------|
| 125.30 TO 134.30 | «QTZ STWK-BX» ‡133.7-134.2‡ «BX VEIN/FAULT» | Dark grey. Moderately pyritic multiphase quartz stockwork breccia. Interval is 70% quartz. Host is intensely silicified amygdaloidal flow unit. PARAGENESIS IS: early white bull quartz; pyritic grey to chalcedonic quartz; late drusy white qtz. Black quartz breccia vein @ may represent completely silicified fault breccia. | 35 | «+/- SIL» Minor remnant chlorite lining small (mm) amygdules. «I SIL» | «1-3% py» in grey quartz stringers and breccia matrix and in rare drusy cavities as euhedral crystals. f.g. pyrite also occurs on late fractures. | |
| 134.30 TO 142.50 | «RHYOLITE BX» | Black & green. A black matrix pyroclastic breccia of f.g. green rhyolite (?) fragments. Frags lapilli to block size have weak perlitic textures & rare black flow bands. Matrix becomes hematitic in lower metre of interval. Flow bands @ | 40 | «M ARG» Minor gougy patches. | «Tr py» irregularly disseminated. | RHYOLITE BRECCIA. |
| 142.50 TO 162.80 | «FELDSPAR PORPHYRY» ‡160.0-160.5‡ «PY-CAL STRINGERS» ‡150.8-153.3‡ «TUFF BX» ‡160.5-162.4‡ «SIL BX» 162.8 m | Green, m.g. A flow banded feldspar porphyry flow with sparse quartz eyes, vague flow bands and local concentrations of flattened 1-2 mm amygdules are highlighted by chlorite. Lower 1/2 of interval is leached and vuggy, very similar to FQXT in dch #5, but chloritized. Flow banding @ 149.5 m @ 159.4 m Banded flows are interstratified with minor silicified breccias - possibly autoclastic flow breccias? Minor pyritic calcite stringers. Black & green. Typical tuff breccia of feldspar porphyry frags in black to hematitic matrix, with trace pyrite. Green. A siliceous breccia of feldspar porphyry Looks pyroclastic, with possible hydrothermal overprint. A single open vug (2 cm) is lined with f.g. pyrite. | 45 20 | «M ARG, M CHL» in upper 1/2 of interval «M CHL, S SIL» in lower 1/2. Feldspars gone to white clay in upper half of interval, leached out in lower half. «S SIL, S HEM» «S SIL» No quartz. | «Tr py» in very sparse calcite stringers. «1% py» «Tr py» in hematitic matrix. «Tr py» | |
| | | EOH | | | | |

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 44060 | 24.50 | 26.70 | 2.20 | 0.2 | 67 | 2 | 26 | 24 | 8 | 77 | 2 | 2100 | 100 | |
| 44061 | 26.70 | 29.60 | 2.90 | 0.3 | 337 | 1 | 22 | 28 | 52 | 61 | 18 | 13875 | 100 | |
| 44062 | 29.60 | 31.60 | 2.00 | 0.1 | 214 | 3 | 24 | 23 | 21 | 65 | 10 | 2220 | 100 | |
| 44063 | 61.10 | 63.10 | 2.00 | 0.2 | 127 | 3 | 27 | 30 | 20 | 88 | 19 | 1720 | 100 | |
| 44064 | 86.50 | 88.50 | 2.00 | 0.2 | 41 | 2 | 27 | 28 | 3 | 84 | 6 | 2560 | 100 | |
| 44065 | 88.50 | 93.20 | 4.70 | 0.5 | 124 | 2 | 28 | 23 | 6 | 68 | 11 | 940 | 50 | |
| 44066 | 93.20 | 95.20 | 2.00 | 1.4 | 334 | 1 | 26 | 21 | 3 | 47 | 30 | 2510 | 50 | |
| 44067 | 95.20 | 97.30 | 2.10 | 1.6 | 330 | 1 | 22 | 20 | 14 | 54 | 49 | 785 | 18 | |
| 44068 | 97.30 | 98.40 | 1.10 | 0.6 | 202 | 1 | 31 | 20 | 15 | 65 | 16 | 725 | 7 | |
| 44069 | 98.40 | 99.00 | 0.60 | 2.5 | 445 | 1 | 21 | 12 | 27 | 35 | 167 | 665 | 4 | |
| 44070 | 99.00 | 100.50 | 1.50 | 2 | 341 | 1 | 37 | 19 | 24 | 52 | 53 | 850 | 10 | |
| 44071 | 100.50 | 102.40 | 1.90 | 0.4 | 74 | 2 | 23 | 22 | 12 | 66 | 4 | 545 | 100 | |
| 44072 | 102.40 | 104.00 | 1.60 | 0.5 | 77 | 1 | 23 | 22 | 8 | 57 | 2 | 425 | 13 | |
| 44073 | 104.00 | 107.00 | 3.00 | 0.7 | 116 | 2 | 23 | 21 | 12 | 59 | 18 | 280 | 23 | |
| 44074 | 107.00 | 109.80 | 2.80 | 0.5 | 80 | 1 | 22 | 22 | 10 | 63 | 2 | 455 | 8 | |
| 44075 | 109.80 | 111.80 | 2.00 | 0.4 | 76 | 1 | 23 | 23 | 14 | 59 | 5 | 580 | 13 | |
| 44076 | 111.80 | 113.80 | 2.00 | 0.8 | 188 | 2 | 28 | 22 | 14 | 67 | 22 | 475 | 18 | |
| 44077 | 113.80 | 115.80 | 2.00 | 1.2 | 271 | 1 | 26 | 22 | 26 | 68 | 26 | 630 | 21 | |
| 44078 | 115.80 | 116.10 | 0.30 | 2.5 | 482 | 1 | 24 | 20 | 34 | 51 | 106 | 880 | 3 | |
| 44079 | 116.10 | 118.00 | 1.90 | 0.6 | 148 | 1 | 23 | 24 | 12 | 61 | 23 | 370 | 12 | |
| 44080 | 118.00 | 118.70 | 0.70 | 0.7 | 180 | 2 | 32 | 23 | 10 | 70 | 19 | 420 | 5 | |
| 44081 | 118.70 | 118.90 | 0.20 | 3.5 | 460 | 1 | 17 | 15 | 23 | 23 | 128 | 1085 | 2 | |
| 44082 | 118.90 | 121.00 | 2.10 | 0.7 | 164 | 1 | 17 | 15 | 13 | 54 | 24 | 735 | 11 | |
| 44083 | 121.00 | 123.00 | 2.00 | 0.5 | 109 | 2 | 26 | 22 | 13 | 71 | 7 | 345 | 15 | |
| 44084 | 123.00 | 125.30 | 2.30 | 1.2 | 324 | 2 | 19 | 20 | 18 | 64 | 46 | 590 | 25 | |
| 44085 | 125.30 | 126.30 | 1.00 | 1.6 | 227 | 1 | 15 | 22 | 12 | 57 | 39 | 655 | 6 | |
| 44086 | 126.30 | 127.30 | 1.00 | 2 | 297 | 1 | 10 | 20 | 13 | 47 | 57 | 640 | 7 | |
| 44087 | 127.30 | 128.30 | 1.00 | 1.8 | 257 | 1 | 9 | 16 | 10 | 46 | 54 | 305 | 2 | |
| 44088 | 128.30 | 129.30 | 1.00 | 1.7 | 372 | 1 | 12 | 11 | 18 | 38 | 18 | 410 | 7 | |
| 44089 | 129.30 | 130.30 | 1.00 | 1.6 | 224 | 1 | 10 | 13 | 11 | 36 | 52 | 300 | 3 | |
| 44090 | 130.30 | 131.30 | 1.00 | 1.2 | 134 | 1 | 6 | 10 | 5 | 29 | 37 | 230 | 9 | |
| 44091 | 131.30 | 132.30 | 1.00 | 1.4 | 179 | 1 | 12 | 11 | 8 | 32 | 55 | 485 | 10 | |
| 44092 | 132.30 | 133.70 | 1.40 | 1.2 | 225 | 1 | 11 | 14 | 24 | 43 | 73 | 915 | 20 | |
| 44093 | 133.70 | 134.30 | 0.60 | 1.2 | 108 | 1 | 5 | 15 | 15 | 16 | 41 | 495 | 10 | |
| 44094 | 134.30 | 136.30 | 2.00 | 0.4 | 119 | 1 | 16 | 12 | 3 | 35 | 28 | 125 | 10 | |
| 44095 | 136.30 | 138.30 | 2.00 | 0.2 | 90 | 1 | 23 | 18 | 7 | 39 | 22 | 55 | 23 | |
| 44096 | 142.50 | 144.50 | 2.00 | 0.1 | 58 | 2 | 18 | 17 | 6 | 40 | 2 | 45 | 32 | |
| 44097 | 144.50 | 146.50 | 2.00 | 0.5 | 37 | 2 | 21 | 18 | 1 | 40 | 4 | 40 | 9 | |

HOLE NUMBER: CL-91-16

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|----------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 44099 | 148.50 | 150.50 | 2.00 | 0.2 | 94 | 1 | 16 | 21 | 15 | 39 | 3 | 310 | 14 |
| 44098 | 150.80 | 153.30 | 2.50 | 0.1 | 234 | 1 | 16 | 19 | 67 | 39 | 1 | 130 | 50 |
| 44099 | 158.80 | 160.80 | 2.00 | | | | | | | | | | |
| 44100 | 160.80 | 162.80 | 2.00 | 0.3 | 88 | 1 | 22 | 16 | 10 | 33 | 2 | 180 | 20 |

HOLE NUMBER: CL-91-16

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44060 | 24.50 | 26.70 | 2.20 | 0.2 | 67 | 2 | 26 | 24 | 8 | 77 | 2 | 2100 | 100 |
| 44061 | 26.70 | 29.60 | 2.90 | 0.3 | 337 | 1 | 22 | 28 | 52 | 61 | 18 | 13875 | 100 |
| 44062 | 29.60 | 31.60 | 2.00 | 0.1 | 214 | 3 | 24 | 23 | 21 | 65 | 10 | 2220 | 100 |
| 44063 | 61.10 | 63.10 | 2.00 | 0.2 | 127 | 3 | 27 | 30 | 20 | 88 | 19 | 1720 | 100 |
| 44064 | 86.50 | 88.50 | 2.00 | 0.2 | 41 | 2 | 27 | 28 | 3 | 84 | 6 | 2560 | 100 |
| 44065 | 88.50 | 93.20 | 4.70 | 0.5 | 124 | 2 | 28 | 23 | 6 | 68 | 11 | 940 | 50 |
| 44066 | 93.20 | 95.20 | 2.00 | 1.4 | 334 | 1 | 26 | 21 | 3 | 47 | 30 | 2510 | 50 |
| 44067 | 95.20 | 97.30 | 2.10 | 1.6 | 330 | 1 | 22 | 20 | 14 | 54 | 49 | 785 | 18 |
| 44068 | 97.30 | 98.40 | 1.10 | 0.6 | 202 | 1 | 31 | 20 | 15 | 65 | 16 | 725 | 7 |
| 44069 | 98.40 | 99.00 | 0.60 | 2.5 | 445 | 1 | 21 | 12 | 27 | 35 | 167 | 665 | 4 |
| 44070 | 99.00 | 100.50 | 1.50 | 2 | 341 | 1 | 37 | 19 | 24 | 52 | 53 | 850 | 10 |
| 44071 | 100.50 | 102.40 | 1.90 | 0.4 | 74 | 2 | 23 | 22 | 12 | 66 | 4 | 545 | 100 |
| 44072 | 102.40 | 104.00 | 1.60 | 0.5 | 77 | 1 | 23 | 22 | 8 | 57 | 2 | 425 | 13 |
| 44073 | 104.00 | 107.00 | 3.00 | 0.7 | 116 | 2 | 23 | 21 | 12 | 59 | 18 | 280 | 23 |
| 44074 | 107.00 | 109.80 | 2.80 | 0.5 | 80 | 1 | 22 | 22 | 10 | 63 | 2 | 455 | 8 |
| 44075 | 109.80 | 111.80 | 2.00 | 0.4 | 76 | 1 | 23 | 23 | 14 | 59 | 5 | 580 | 13 |
| 44076 | 111.80 | 113.80 | 2.00 | 0.8 | 188 | 2 | 28 | 22 | 14 | 67 | 22 | 475 | 18 |
| 44077 | 113.80 | 115.80 | 2.00 | 1.2 | 271 | 1 | 26 | 22 | 26 | 68 | 26 | 630 | 21 |
| 44078 | 115.80 | 116.10 | 0.30 | 2.5 | 482 | 1 | 24 | 20 | 34 | 51 | 106 | 880 | 3 |
| 44079 | 116.10 | 118.00 | 1.90 | 0.6 | 148 | 1 | 23 | 24 | 12 | 61 | 23 | 370 | 12 |
| 44080 | 118.00 | 118.70 | 0.70 | 0.7 | 180 | 2 | 32 | 23 | 10 | 70 | 19 | 420 | 5 |
| 44081 | 118.70 | 118.90 | 0.20 | 3.5 | 460 | 1 | 17 | 15 | 23 | 23 | 128 | 1085 | 2 |
| 44082 | 118.90 | 121.00 | 2.10 | 0.7 | 164 | 1 | 17 | 15 | 13 | 54 | 24 | 735 | 11 |
| 44083 | 121.00 | 123.00 | 2.00 | 0.5 | 109 | 2 | 26 | 22 | 13 | 71 | 7 | 345 | 15 |
| 44084 | 123.00 | 125.30 | 2.30 | 1.2 | 324 | 2 | 19 | 20 | 18 | 64 | 46 | 590 | 25 |
| 44085 | 125.30 | 126.30 | 1.00 | 1.6 | 227 | 1 | 15 | 22 | 12 | 57 | 39 | 655 | 6 |
| 44086 | 126.30 | 127.30 | 1.00 | 2 | 297 | 1 | 10 | 20 | 13 | 47 | 57 | 640 | 7 |
| 44087 | 127.30 | 128.30 | 1.00 | 1.8 | 257 | 1 | 9 | 16 | 10 | 46 | 54 | 305 | 2 |
| 44088 | 128.30 | 129.30 | 1.00 | 1.7 | 372 | 1 | 12 | 11 | 18 | 38 | 18 | 410 | 7 |
| 44089 | 129.30 | 130.30 | 1.00 | 1.6 | 224 | 1 | 10 | 13 | 11 | 36 | 52 | 300 | 3 |
| 44090 | 130.30 | 131.30 | 1.00 | 1.2 | 134 | 1 | 6 | 10 | 5 | 29 | 37 | 230 | 9 |
| 44091 | 131.30 | 132.30 | 1.00 | 1.4 | 179 | 1 | 12 | 11 | 8 | 32 | 55 | 485 | 10 |
| 44092 | 132.30 | 133.70 | 1.40 | 1.2 | 225 | 1 | 11 | 14 | 24 | 43 | 73 | 915 | 20 |
| 44093 | 133.70 | 134.30 | 0.60 | 1.2 | 108 | 1 | 5 | 15 | 15 | 16 | 41 | 495 | 10 |
| 44094 | 134.30 | 136.30 | 2.00 | 0.4 | 119 | 1 | 16 | 12 | 3 | 35 | 28 | 125 | 10 |
| 44095 | 136.30 | 138.30 | 2.00 | 0.2 | 90 | 1 | 23 | 18 | 7 | 39 | 22 | 55 | 23 |
| 44096 | 142.50 | 144.50 | 2.00 | 0.1 | 58 | 2 | 18 | 17 | 6 | 40 | 2 | 45 | 32 |
| 44097 | 144.50 | 146.50 | 2.00 | 0.5 | 37 | 2 | 21 | 18 | 1 | 40 | 4 | 40 | 9 |
| 44099 | 148.50 | 150.50 | 2.00 | 0.2 | 94 | 1 | 16 | 21 | 15 | 39 | 3 | 310 | 14 |

HOLE NUMBER: CL-91-16

GEOCHEM. SHEET

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HOLE NUMBER: CL-91-16

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|----------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 44098 | 150.80 | 153.30 | 2.50 | 0.1 | 234 | 1 | 16 | 19 | 67 | 39 | 1 | 130 | 50 |
| 44099 | 158.80 | 160.80 | 2.00 | | | | | | | | | | |
| 44100 | 160.80 | 162.80 | 2.00 | 0.3 | 88 | 1 | 22 | 16 | 10 | 33 | 2 | 180 | 20 |

HOLE NUMBER: CL-91-16

GEOCHEM. SHEET

HOLE NUMBER: CL-91-16

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| | | | S>= 0.00cm | | | | | | | |
| 65.60 | 67.60 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 67.60 | 69.60 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 69.60 | 71.60 | 2.00 | 0.00 | 0.0 | 100 | 50.00 | 5 | 2.50 | 0 | |
| 71.60 | 73.80 | 2.20 | 0.00 | 0.0 | 100 | 45.45 | 4 | 1.82 | 0 | |
| 73.80 | 75.10 | 1.30 | 0.00 | 0.0 | 100 | 76.92 | 0 | 0.00 | 0 | |
| 75.10 | 76.60 | 1.50 | 0.00 | 0.0 | 100 | 66.67 | 1 | 0.67 | 0 | |
| 76.60 | 78.00 | 1.40 | 30.00 | ***** | 50 | 35.71 | 0 | 0.00 | 0 | |
| 78.00 | 80.00 | 2.00 | 40.00 | ***** | 100 | 50.00 | 4 | 2.00 | 0 | |
| 80.00 | 81.60 | 1.60 | 120.00 | ***** | 10 | 6.25 | 0 | 0.00 | 0 | |
| 81.60 | 82.60 | 1.00 | 95.00 | ***** | 8 | 8.00 | 0 | 0.00 | 0 | VN |
| 82.60 | 83.60 | 1.00 | 100.00 | ***** | 3 | 3.00 | 0 | 0.00 | 0 | VN |
| 83.60 | 84.60 | 1.00 | 100.00 | ***** | 4 | 4.00 | 0 | 0.00 | 0 | VN |
| 84.60 | 85.60 | 1.00 | 90.00 | ***** | 6 | 6.00 | 0 | 0.00 | 0 | VN |
| 85.60 | 87.20 | 1.60 | 120.00 | ***** | 11 | 6.88 | 0 | 0.00 | 0 | VN |
| 87.20 | 89.20 | 2.00 | 120.00 | ***** | 21 | 10.50 | 1 | 0.50 | 0 | CALC. |
| 89.20 | 91.20 | 2.00 | 80.00 | ***** | 33 | 16.50 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-16

RQD ASSAY

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-17

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--------------------------|---|-------------|---|---|---------|
| 0.00 TO 27.40 | «CASING» | Overburden. | | | | |
| 27.40 TO 42.20 | «AMYGDALOIDAL FLOW» | Grey-green, f.g. Amygdule rich intermediate flow. Quartz fill is dominant but calcite also present. Amygdules up to 1 cm, commonly flattened @ approx. to core axis. Dark green clay or chlorite is common in smaller (2-5 mm) amygdules. Interval is locally gougy, faulted, generally poor recovery. | 50 | «M-S ARG» plus pervasive «M CHL» and «W HEM» in late hairline fractures. Patchy silicification. | No pyrite? | |
| | {27.4-28.5} «OXIDE ZONE» | Abundant hematite in late hairline fractures. | | | | |
| | {28.5-36.9} «WEAK STWK» | Sparse qtz stringers. | | | | |
| | {33.4-33.6} «FAULT» | Gouge. | | | | |
| | {35.8-36.7} «FAULT» | Gouge. | | | | |
| | {36.5-37.9} «STWK BX» | Quartz-pyrite stockwork/breccia vein, white bull quartz is cut by black chalcedonic pyritic quartz. Highly fractured, poor recovery. | 45 | «I SIL» | «2% py» as fine selvages within grey quartz. | |
| | {39.2-40.3} «BX VEIN» | Black & white. Pyritic quartz breccia vein and intense wallrock silicification. Corresponds with high density and size of amygdules (all filled by quartz). Irregular PARAGENESIS: silicification and amygdule filling by grey f.g. quartz; brecciation and cementing by pyritic grey chalcedony; infilling of open spaces by vuggy crystalline white quartz. | 30 | «+/- SIL» | «3-5% py» in grey quartz rimming breccia fragments. | |
| | {41.0-41.3} «BX VEIN» | S.A.A. | | «+/- SIL» | «3% py» | |
| 42.20 TO 42.40 | «FAULT» | Gouge. | | | | |
| 42.40 TO 45.40 | «TUFF BX» | Black & green. Depositional breccia of black banded rhyolitic flow (previously bedded ash tuff) highly fractured, oxidized, hematitic, locally gougy. | | «M SIL, W ARG, M CHL» | «Tr py» associated with chlorite. | |

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DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-17

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|--|-------------|---|--|---------|
| 45.40 TO 47.40 | «PERLITE» | Green. Classic perlitic texture overprinting black and/or hematitic flow banded rhyolite. | | «M SIL, M CHL» Propylitic? | «Tr py» | |
| 47.40 TO 54.50 | «TUFF BX» ‡53.5-54.3‡ «FAULT» ‡54.2-54.3‡ «FAULT» | Green & black. Propylitically? altered tuff/block breccia, of flow banded rhyolite frags. Abundant black breccia matrix, local hematite, dominantly clast supported. Gouge. | | «M SIL, M CHL, W HEM» | «Tr py» | |
| 54.50 TO 55.30 | «FAULT» | 60% clay gouge, single preserved 1 cm pyritic quartz vein. | | «I ARG» | «3% py» in disrupted stringers. | |
| 55.30 TO 60.30 | «FLOW BANDED RHYOLITE» ‡55.3-56.5‡ | Red & green. (Previously banded ash tuffs). Perlitic and flow banded rhyolite flow. | | «S HEM, S SIL» Strong hematitic flow banding. «I HEM» | «Tr py» on late fractures. | |
| 60.30 TO 67.00 | «TUFF BX» ‡60.3-63.1‡ «HEMATITE RICH» ‡60.9-61.2‡ «FAULT» ‡63.8-67.0‡ «FAULT ZONE» 67.0 M | Red & green. Hematitic breccia of flow banded and perlitic fragments. Uppermost 2 metres is very strongly hematized. Lower half of interval is highly fractured, gougy. Gouge. EOH | | «S-I ARG, M HEM» | «1% py» in gougy breccias in lower half of interval. | |

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DRILL HOLE RECORD

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ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 43956 | 27.40 | 29.40 | 2.00 | 0.3 | 87 | 1 | 33 | 24 | 2 | 64 | 17 | 235 | 20 | |
| 43957 | 29.40 | 31.50 | 2.10 | 1.2 | 261 | 1 | 57 | 23 | 4 | 69 | 42 | 460 | 24 | |
| 43958 | 31.50 | 33.40 | 1.90 | 0.5 | 118 | 1 | 21 | 24 | 3 | 64 | 13 | 575 | 30 | |
| 43959 | 33.40 | 36.90 | 3.50 | 0.9 | 244 | 1 | 24 | 22 | 10 | 70 | 26 | 960 | 24 | |
| 43960 | 36.90 | 37.50 | 0.60 | 3.4 | 530 | 1 | 17 | 15 | 43 | 35 | 297 | 1400 | 7 | |
| 43961 | 37.50 | 39.20 | 1.70 | 1.2 | 282 | 1 | 23 | 21 | 9 | 73 | 27 | 490 | 27 | |
| 43962 | 39.20 | 40.30 | 1.10 | 4 | 595 | 1 | 20 | 14 | 44 | 54 | 310 | 1090 | 9 | |
| 43963 | 40.30 | 42.40 | 2.10 | 2.2 | 433 | 1 | 22 | 24 | 19 | 63 | 65 | 640 | 19 | |
| 43964 | 42.40 | 44.00 | 1.60 | 0.7 | 33 | 1 | 23 | 22 | 1 | 46 | 10 | 60 | 29 | |
| 43965 | 44.00 | 45.40 | 1.40 | 0.2 | 24 | 1 | 19 | 21 | 1 | 71 | 7 | 50 | 30 | |
| 43966 | 45.40 | 47.40 | 2.00 | 0.2 | 28 | 1 | 23 | 24 | 1 | 85 | 8 | 65 | 50 | |
| 43967 | 47.40 | 49.30 | 1.90 | 0.3 | 29 | 1 | 21 | 24 | 1 | 90 | 3 | 45 | 30 | |
| 43968 | 49.30 | 51.30 | 2.00 | 0.4 | 22 | 1 | 22 | 23 | 1 | 76 | 1 | 40 | 22 | |
| 43969 | 51.30 | 53.30 | 2.00 | 0.6 | 27 | 1 | 21 | 24 | 1 | 46 | 1 | 45 | 15 | |
| 43970 | 53.30 | 55.30 | 2.00 | 0.8 | 174 | 1 | 19 | 19 | 8 | 48 | 39 | 25 | 13 | |
| 43971 | 55.30 | 56.50 | 1.20 | 0.5 | 157 | 1 | 29 | 20 | 1 | 46 | 21 | 55 | 15 | |
| 43972 | 56.50 | 58.40 | 1.90 | 0.4 | 75 | 7 | 30 | 20 | 1 | 41 | 16 | 115 | 21 | |
| 43973 | 60.30 | 63.10 | 2.80 | 0.4 | 88 | 1 | 16 | 22 | 3 | 45 | 7 | 45 | 27 | |
| 43974 | 63.80 | 65.80 | 2.00 | 0.3 | 148 | 1 | 33 | 22 | 24 | 56 | 6 | 70 | 60 | |

HOLE NUMBER: CL-91-17

ASSAY SHEET

PAGE: 4

| Sample | From (m) | To (m) | Length (m) | | | | | | | | | | |
|--------|-------------|-----------|---------------|-----|-----|---|----|----|----|----|-----|------|----|
| 43956 | 27.40 | 29.40 | 2.00 | 0.3 | 87 | 1 | 33 | 24 | 2 | 64 | 17 | 235 | 20 |
| 43957 | 29.40 | 31.50 | 2.10 | 1.2 | 261 | 1 | 57 | 23 | 4 | 69 | 42 | 460 | 24 |
| 43958 | 31.50 | 33.40 | 1.90 | 0.5 | 118 | 1 | 21 | 24 | 3 | 64 | 13 | 575 | 30 |
| 43959 | 33.40 | 36.90 | 3.50 | 0.9 | 244 | 1 | 24 | 22 | 10 | 70 | 26 | 960 | 24 |
| 43960 | 36.90 | 37.50 | 0.60 | 3.4 | 530 | 1 | 17 | 15 | 43 | 35 | 297 | 1400 | 7 |
| 43961 | 37.50 | 39.20 | 1.70 | 1.2 | 282 | 1 | 23 | 21 | 9 | 73 | 27 | 490 | 27 |
| 43962 | 39.20 | 40.30 | 1.10 | 4 | 595 | 1 | 20 | 14 | 44 | 54 | 310 | 1090 | 9 |
| 43963 | 40.30 | 42.40 | 2.10 | 2.2 | 433 | 1 | 22 | 24 | 19 | 63 | 65 | 640 | 19 |
| 43964 | 42.40 | 44.00 | 1.60 | 0.7 | 33 | 1 | 23 | 22 | 1 | 46 | 10 | 60 | 29 |
| 43965 | 44.00 | 45.40 | 1.40 | 0.2 | 24 | 1 | 19 | 21 | 1 | 71 | 7 | 50 | 30 |
| 43966 | 45.40 | 47.40 | 2.00 | 0.2 | 28 | 1 | 23 | 24 | 1 | 85 | 8 | 65 | 50 |
| 43967 | 47.40 | 49.30 | 1.90 | 0.3 | 29 | 1 | 21 | 24 | 1 | 90 | 3 | 45 | 30 |
| 43968 | 49.30 | 51.30 | 2.00 | 0.4 | 22 | 1 | 22 | 23 | 1 | 76 | 1 | 40 | 22 |
| 43969 | 51.30 | 53.30 | 2.00 | 0.6 | 27 | 1 | 21 | 24 | 1 | 46 | 1 | 45 | 15 |
| 43970 | 53.30 | 55.30 | 2.00 | 0.8 | 174 | 1 | 19 | 19 | 8 | 48 | 39 | 25 | 13 |
| 43971 | 55.30 | 56.50 | 1.20 | 0.5 | 157 | 1 | 29 | 20 | 1 | 46 | 21 | 55 | 15 |
| 43972 | 56.50 | 58.40 | 1.90 | 0.4 | 75 | 7 | 30 | 20 | 1 | 41 | 16 | 115 | 21 |
| 43973 | 60.30 | 63.10 | 2.80 | 0.4 | 88 | 1 | 16 | 22 | 3 | 45 | 7 | 45 | 27 |
| 43974 | 63.80 | 65.80 | 2.00 | 0.3 | 148 | 1 | 33 | 22 | 24 | 56 | 6 | 70 | 60 |

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-18

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|--|-------------|--|--|---|
| 0.00 TO 18.30 | «CASING» | Overburden | | | | |
| 18.30 TO 24.50 | «TUFF BX» {22.8-24.5} «FAULT» | Green & grey. Strongly argillized crystal ash tuff breccia. Green clay altered angular frags in a dark weakly silicified matrix. Highly fractured and gougy. 80% clay gouge with quartz vein and wallrock frags Grey. | | «S-I ARG» | «1-2% py» in disrupted quartz stringers | Similar to interval 50-60 m in hole # 19. No oxide zone. |
| 24.50 TO 31.20 | «AMYGDA- Loidal FLOW» | Intermediate amygdaloidal flow. Amygdules mainly <1 cm lined with chlorite filled by quartz and late calcite. Rare irregular vugs up to 8 cm across, commonly filled with c.g. calcite. Amygdules flattened into planes @ | 40 | «S-I ARG» plus minor patchy silicification. «M CHL» and green clay lining and/or filling small (<1 cm) amygdules. | | One large irregular vug is lined by a brown translucent mineral that looks like a seaweed frond. Maybe biotite? |
| 31.20 TO 36.60 | «FAULT ZONE» {35.0-35.7} «GOUGE» | Grey. Gougy zone of intense argillic alteration and broke pyritic qtz veins. | | «I-X ARG» «M CHL» | «1-3% py» in broken quartz veins. | |
| 36.60 TO 38.40 | «QTZ-PY STWK» | Green. Strong quartz-pyrite stockwork in weakly amygdaloidal intermediate flow. Minor late calcite | | «M ARG, M SIL» «M CHL, HEM» | «5% py» in quartz stringers. | Very low density of amygdules. |
| 38.40 TO 41.40 | «QTZ-PY STWK» | Grey green. Quartz stockwork/breccia. Strongly argillized amygdaloidal flow fragments. Amygdules lined with chlorite, filled by quartz. Single pyritic banded qtz vein, 3 cm @ 39.7 m @ | 60 | «S-I ARG» of wallrock fragments. «I SIL» breccia matrix. | «2% py» irregularly distributed as blebs in qtz stringers and filling amygdules. | High density of small (<1 cm) amygdules |
| 41.40 TO 43.50 | «BX VEIN» | Quartz breccia vein and flooded wall rock. Interval is highly fractured and locally gougy. | | «I SIL» in quartz breccia matrix and filling amygdules. «I/- ARG» minor unsilicified wallrock. | «3% py» as irregular blebs and disrupted stringers. | Very high density of amygdules. |
| 43.50 TO 43.80 | «FAULT» | Gougy contact between amygdaloidal flow/quartz breccia and underlying banded rhyolite. | | | | |

HOLE NUMBER: CL-91-18

DRILL HOLE RECORD

LOGGED BY: PETER THIERSCH

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| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|-------------------|--|-------------|--|-----------------------------------|---------|
| 43.80 TO 47.50 | «BANDED RHYOLITE» | Black & green, aphanitic. Green argillically altered rhyolite, with black flow banding (previously black banded ash tuffs). Weak perlitic textures throughout. Highly fractured at upper contact. Flow banding | 30 | «M ARG, W SIL» both pervasive. | «Tr py» in disseminated patches. | |
| 47.50 TO 51.00 | «BANDED RHYOLITE» | Red & green. Spherulitic flow banded rhyolite. Strongly hematized bands and 2-4 mm spherulites. Rare perlitic textures. Local incipient ball formation of hematitic patches. Flow banding @ | 15 | «S CHL, S HEM» «S SIL» | «1% py» c.g. disseminated pyrite. | |
| 51.00 TO 54.80 | «BANDED RHYOLITE» | Black, aphanitic. Black, hematitic chloritic flow banded rhyolite. Very sparse calcite stringers. Very siliceous and competent. Banding varies | 40 20 | «S SIL, S HEM, S CHL» | None. | |
| 54.80 TO 62.30 | «HEMATITIC BX» | Red & green. Strongly argillically altered band rhyolite frags in hematite rich f.g. matrix. Minor percentage of frags are dark green clay or chlorite altered. Matrix supported. | | «S ARG» frags. «M SIL, S HEM» matrix. | «Tr py» disseminated throughout. | |
| 62.30 TO 63.10 | «RHYOLITE» | Black, f.g. dark weakly flow banded rhyolite. | | «S SIL» | Tr py. | |
| | 63.1 m | EOH | | | | |

HOLE NUMBER: CL-91-18

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 43975 | 18.30 | 20.40 | 2.10 | 0.1 | 153 | 2 | 22 | 27 | 24 | 70 | 17 | 1950 | 50 | |
| 43976 | 20.40 | 22.80 | 2.40 | 0.1 | 111 | 1 | 23 | 24 | 8 | 67 | 3 | 1465 | 100 | |
| 43977 | 22.80 | 24.50 | 1.70 | 0.2 | 167 | 1 | 24 | 23 | 8 | 62 | 43 | 960 | 30 | |
| 43978 | 24.50 | 26.50 | 2.00 | 0.7 | 234 | 3 | 30 | 26 | 8 | 78 | 20 | 390 | 11 | |
| 43979 | 26.50 | 28.50 | 2.00 | 0.3 | 152 | 1 | 26 | 20 | 7 | 64 | 17 | 590 | 15 | |
| 43980 | 28.50 | 31.20 | 2.70 | 0.3 | 196 | 3 | 20 | 18 | 7 | 73 | 11 | 545 | 18 | |
| 43981 | 31.20 | 35.00 | 3.80 | 1.5 | 304 | 1 | 25 | 21 | 9 | 67 | 57 | 710 | 17 | |
| 43982 | 35.00 | 36.60 | 1.60 | 1.8 | 351 | 2 | 26 | 22 | 24 | 64 | 43 | 665 | 50 | |
| 43983 | 36.60 | 38.40 | 1.80 | 2.4 | 601 | 1 | 42 | 23 | 50 | 72 | 60 | 1130 | 50 | |
| 43984 | 38.40 | 39.90 | 1.50 | 3.3 | 520 | 1 | 20 | 19 | 22 | 71 | 78 | 900 | 30 | |
| 43985 | 39.90 | 41.40 | 1.50 | 1.7 | 416 | 1 | 27 | 22 | 17 | 66 | 42 | 470 | 50 | |
| 43986 | 41.40 | 42.50 | 1.10 | 3.9 | 678 | 1 | 23 | 14 | 35 | 65 | 110 | 640 | 17 | |
| 43987 | 42.50 | 43.80 | 1.30 | 4.6 | 680 | 1 | 22 | 14 | 44 | 51 | 122 | 720 | 30 | |
| 43988 | 43.80 | 46.00 | 2.20 | 0.6 | 27 | 1 | 24 | 22 | 1 | 44 | 1 | 65 | 19 | |
| 43989 | 47.50 | 49.50 | 2.00 | 0.5 | 24 | 2 | 25 | 18 | 1 | 46 | 11 | 35 | 25 | |
| 43990 | 51.00 | 53.00 | 2.00 | 0.4 | 14 | 1 | 32 | 18 | 1 | 49 | 1 | 35 | 16 | |
| 43991 | 53.00 | 54.80 | 1.80 | 0.5 | 14 | 1 | 26 | 17 | 1 | 41 | 1 | 25 | 18 | |
| 43992 | 54.80 | 56.80 | 2.00 | 0.9 | 26 | 1 | 25 | 17 | 1 | 29 | 7 | 25 | 12 | |
| 43993 | 60.00 | 62.20 | 2.20 | 0.2 | 211 | 1 | 26 | 18 | 25 | 51 | 10 | 195 | 14 | |

HOLE NUMBER: CL-91-18

ASSAY SHEET

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HOLE NUMBER: CL-91-18

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | | | | | | | | | | |
|--------|-------------|-----------|---------------|-----|-----|---|----|----|----|----|-----|------|-----|
| 43975 | 18.30 | 20.40 | 2.10 | 0.1 | 153 | 2 | 22 | 27 | 24 | 70 | 17 | 1950 | 50 |
| 43976 | 20.40 | 22.80 | 2.40 | 0.1 | 111 | 1 | 23 | 24 | 8 | 67 | 3 | 1465 | 100 |
| 43977 | 22.80 | 24.50 | 1.70 | 0.2 | 167 | 1 | 24 | 23 | 8 | 62 | 43 | 960 | 30 |
| 43978 | 24.50 | 26.50 | 2.00 | 0.7 | 234 | 3 | 30 | 26 | 8 | 78 | 20 | 390 | 11 |
| 43979 | 26.50 | 28.50 | 2.00 | 0.3 | 152 | 1 | 26 | 20 | 7 | 64 | 17 | 590 | 15 |
| 43980 | 28.50 | 31.20 | 2.70 | 0.3 | 196 | 3 | 20 | 18 | 7 | 73 | 11 | 545 | 18 |
| 43981 | 31.20 | 35.00 | 3.80 | 1.5 | 304 | 1 | 25 | 21 | 9 | 67 | 57 | 710 | 17 |
| 43982 | 35.00 | 36.60 | 1.60 | 1.8 | 351 | 2 | 26 | 22 | 24 | 64 | 43 | 665 | 50 |
| 43983 | 36.60 | 38.40 | 1.80 | 2.4 | 601 | 1 | 42 | 23 | 50 | 72 | 60 | 1130 | 50 |
| 43984 | 38.40 | 39.90 | 1.50 | 3.3 | 520 | 1 | 20 | 19 | 22 | 71 | 78 | 900 | 30 |
| 43985 | 39.90 | 41.40 | 1.50 | 1.7 | 416 | 1 | 27 | 22 | 17 | 66 | 42 | 470 | 50 |
| 43986 | 41.40 | 42.50 | 1.10 | 3.9 | 678 | 1 | 23 | 14 | 35 | 65 | 110 | 640 | 17 |
| 43987 | 42.50 | 43.80 | 1.30 | 4.6 | 680 | 1 | 22 | 14 | 44 | 51 | 122 | 720 | 30 |
| 43988 | 43.80 | 46.00 | 2.20 | 0.6 | 27 | 1 | 24 | 22 | 1 | 44 | 1 | 65 | 19 |
| 43989 | 47.50 | 49.50 | 2.00 | 0.5 | 24 | 2 | 25 | 18 | 1 | 46 | 11 | 35 | 25 |
| 43990 | 51.00 | 53.00 | 2.00 | 0.4 | 14 | 1 | 32 | 18 | 1 | 49 | 1 | 35 | 16 |
| 43991 | 53.00 | 54.80 | 1.80 | 0.5 | 14 | 1 | 26 | 17 | 1 | 41 | 1 | 25 | 18 |
| 43992 | 54.80 | 56.80 | 2.00 | 0.9 | 26 | 1 | 25 | 17 | 1 | 29 | 7 | 25 | 12 |
| 43993 | 60.00 | 62.20 | 2.20 | 0.2 | 211 | 1 | 26 | 18 | 25 | 51 | 10 | 195 | 14 |

HOLE NUMBER: CL-91-18

GEOCHEM. SHEET

PAGE: 5

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

HOLE NUMBER: CL-91-19

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------------------|---------------------------------------|---|-------------|---|---------------------------------|---------|
| 0.00 0.00 TO 18.30 | «OVERBURDEN /CASING» | | | | | |
| 18.30 TO 35.40 | «LAHAR BRECCIA | Green. Chaotic, unsorted andesite clasts in an unconsolidated, tuffaceous matrix. No bedding or sorting-typical of a lahar. Most clasts consist of chloritized andesite and feldspar porphyry. Abundant vesicular and amygdaloidal fragments also present. Crush zones within unit resemble faults but may also be caused by drilling unconsolidated muds. Fragment sizes range from <1 cm to over 5 cm. Interval mostly matrix supported but can be clast supported over various intervals. Clasts make up 50-60%. | | «S.CL,M.CA» Pervasive chloritization of the clasts. Narrow intervals of strong hematite colouration. These could be large clasts of oxidized material rather than alteration. | «PyTr» Almost absent. | |
| 35.40 TO 68.20 | «MUDDY LAHAR» | Grey-brown. F-C. An unconsolidated lithic breccia unit with a muddy matrix. The matrix material is composed of a mudstone. The lithic clasts are finer grained than the previous interval and entirely matrix supported from top to bottom. Clasts comprise about 30%. Similar clast types to last interval. There are: amygdaloidal andesite, feldspar porphyry and tuff. | | No significant alteration. Some clasts are bleached, others are chloritic. | «PyTr» | |
| | {42.2-44.8} | Black. A highly siliceous and graphitic interval. Textures noted include crude banding or bedding, detrital or clastic textures. High graphite content may imply organic material i.e. vegetation caught in mudflow. | | Very siliceous - may not be caused by alteration. | | |
| | LOWER CONTACT | | 45 | | | |
| | {65.6-68.2} «Disrupted Fault Zone» | Grey. Core becomes crushed and broken down to bottom of interval. Sections of gouge noted from 66.1 to 66.5 m. | | «W-SIL» Irregular vein-like patches of silicification noted. These tend to be about 3 cm wide and occur at 0.5 to 1.5 metre intervals. Slight bleaching of rock | | |
| 68.20 TO 78.00 | «LAHAR» | Same interval but becoming very crushed and disrupted by faulting. The muddy matrix is reduced to powdery clay. | | «M-ARG;W-SIL» | «Tr-3%» in Qz veinlets. | |
| | {72.2-73.8} «GOUGE» | | | Qz (& Py) stockworking increasing in intensity downhole. Bleaching of | Amount increases down interval. | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|-------------|--|---|---------|
| | ↓73.8-75.0↓ «QUARTZ STOCKWORK» | | | crushed clay matrix - weak to mod. argillic alteration. ↓73.8-75.0↓«M-S ARG»;W-MOD SIL» | «Py 3%» in veinlets and vein fragments. | |
| 78.00 TO 81.70 | «AMYGDALOID AL ANDESITE FLOW» | Pale green. Distinctive amygdaloidal unit. Amygdules are large in this section- up to 1.5 cm wide. They are also sparser than other intersections of this unit seen around the south zone. The groundmass is slightly porphyritic with altered plagioclase and mafic pheno's. The latter are most likely biotites or hornblendes. LOWER CONTACT «Gougy Fault Zone» | 30 | «W-M ARG;W-CL» Weak Qz-Py microstockwork present in lower half of section. Calcite is also widespread as microfracture fillings and in amygdules with Qz. The entire groundmass and the mafic pheno's are chloritized giving the rock an overall green colour. | «Py Tr-1%» | |
| 81.70 TO 85.60 | «SILICIFIED ZONE» ↓81.7-81.9↓ «FAULT GOUGE» ↓81.9-82.8↓ «SILICIFIED BRECCIA» ↓82.8-85.2↓ «SILICIFIED QZ STOCKWORK» ↓85.2-85.6↓ | Grey. A 15 cm gougy fault contact separates the massive silicification from the overlying unit. The zone is a typical silicified hydrothermal breccia containing angular fragments of silicified wallrock in an intensely healed silica matrix. Three stages are noted. An early stockwork of Qz veinlets is silicified and brecciated by a second event. This is cut by later vuggy Qz veins. Not so much a breccia as a strongly developed stockwork in feldspar phyric (amyg?) andesite wallrock. Stockworking intense enough in places to form an incipient breccia or jigsaw breccia zone. | | «X-SIL» «I-X SIL» Complete replacement of wall rock by silica. «M-SIL; S-ARG» | «3-5%» Pyrite is the dusty fine-grained variety. It occurs mostly in the matrix but some pyrite also noted in the Qz stockwork. | |
| 85.60 TO 92.00 | «HEMATITIC RHYOLITE BRECCIA» ↓85.6-87.0↓ ↓87.8-88.6↓ | Typical footwall rocks consisting of angular to subangular clasts of flow banded rhyolite and green perlite in a strongly hematitic matrix. Clasts range from <1cm to almost a metre. Possibly a large breccia clast. | | «M-S-ARG; S-HE» Rhyolitic clasts are moderately argillized and/or sericitized. Perlite clasts seem to be less altered-perhaps due to low permeability to fluids. «M-S SIL; S-ARG; W-CL» Bleached and silicified rhyolite breccia. Fault breccia superimposed from 86.6-86.8m. | Py-Tr. | |

HOLE NUMBER: CL-91-19

MINNOVA INC.
DRILL HOLE RECORD

DATE: 25-May-1992

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------|--------------------------------|-----------------------|----------------|---|----------------|---------|
| | «PERLITE» 90.8-92.0 92.0 | Clast? EOH | | «W-ARG; W-M CL» Weak chlorite stringers | | |

HOLE NUMBER: CL-91-19

DRILL HOLE RECORD

LOGGED BY: D. HEBERLEIN

PAGE: 4

HOLE NUMBER: CL-91-19

ASSAY SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | ESTIMA Ag ppm | GEOCHEMICAL | | | | | | | | FI #/m | COMMENTS |
|--------|-------------|-----------|---------------|---------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | | | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | | |
| 44232 | 65.60 | 67.60 | 2.00 | 0.1 | 67 | 1 | 23 | 26 | 6 | 59 | 4 | 3060 | 100 | |
| 44233 | 67.60 | 69.60 | 2.00 | 0.1 | 96 | 1 | 27 | 28 | 6 | 72 | 3 | 1170 | 100 | |
| 44234 | 69.60 | 71.60 | 2.00 | 0.6 | 206 | 1 | 18 | 23 | 16 | 56 | 49 | 1250 | 100 | |
| 44301 | 71.60 | 73.80 | 2.20 | 1.1 | 258 | 3 | 25 | 25 | 24 | 62 | 55 | 830 | 100 | |
| 44302 | 73.80 | 75.10 | 1.30 | 1 | 95 | 2 | 20 | 23 | 8 | 58 | 21 | 530 | 13 | |
| 44303 | 75.10 | 76.60 | 1.50 | 0.8 | 110 | 4 | 22 | 27 | 10 | 73 | 37 | 510 | 11 | |
| 44304 | 76.60 | 78.00 | 1.40 | 0.7 | 204 | 3 | 21 | 26 | 15 | 79 | 36 | 800 | 100 | |
| 44305 | 78.00 | 80.00 | 2.00 | 1.6 | 366 | 2 | 18 | 26 | 16 | 71 | 58 | 495 | 10 | |
| 44306 | 80.00 | 81.60 | 1.60 | 0.7 | 236 | 2 | 17 | 25 | 9 | 73 | 39 | 360 | 100 | |
| 44307 | 81.60 | 82.60 | 1.00 | 1.9 | 272 | 1 | 10 | 14 | 10 | 37 | 67 | 325 | 50 | |
| 44308 | 82.60 | 83.60 | 1.00 | 1 | 91 | 1 | 4 | 11 | 1 | 24 | 24 | 120 | 10 | |
| 44309 | 83.60 | 84.60 | 1.00 | 1.1 | 177 | 1 | 5 | 11 | 1 | 31 | 35 | 145 | 7 | |
| 44310 | 84.60 | 85.60 | 1.00 | 0.8 | 164 | 1 | 5 | 14 | 1 | 30 | 56 | 110 | 100 | |
| 44311 | 85.60 | 87.20 | 1.60 | 1 | 142 | 1 | 10 | 16 | 2 | 33 | 25 | 75 | 10 | |
| 44312 | 87.20 | 89.20 | 2.00 | 0.6 | 31 | 1 | 22 | 22 | 1 | 44 | 1 | 70 | 8 | |
| 44313 | 89.20 | 91.20 | 2.00 | 0.5 | 46 | 1 | 23 | 24 | 2 | 50 | 2 | 60 | 8 | |

HOLE NUMBER: CL-91-19

ASSAY SHEET

PAGE: 5

HOLE NUMBER: CL-91-19

GEOCHEM. SHEET

DATE: 25-May-1992

| Sample | From (m) | To (m) | Length (m) | Ag ppm | As ppm | Bi ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb | Hg ppb | FI #/m |
|--------|-------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 44232 | 65.60 | 67.60 | 2.00 | 0.1 | 67 | 1 | 23 | 26 | 6 | 59 | 4 | 3060 | 100 |
| 44233 | 67.60 | 69.60 | 2.00 | 0.1 | 96 | 1 | 27 | 28 | 6 | 72 | 3 | 1170 | 100 |
| 44234 | 69.60 | 71.60 | 2.00 | 0.6 | 206 | 1 | 18 | 23 | 16 | 56 | 49 | 1250 | 100 |
| 44301 | 71.60 | 73.80 | 2.20 | 1.1 | 258 | 3 | 25 | 25 | 24 | 62 | 55 | 830 | 100 |
| 44302 | 73.80 | 75.10 | 1.30 | 1 | 95 | 2 | 20 | 23 | 8 | 58 | 21 | 530 | 13 |
| 44303 | 75.10 | 76.60 | 1.50 | 0.8 | 110 | 4 | 22 | 27 | 10 | 73 | 37 | 510 | 11 |
| 44304 | 76.60 | 78.00 | 1.40 | 0.7 | 204 | 3 | 21 | 26 | 15 | 79 | 36 | 800 | 100 |
| 44305 | 78.00 | 80.00 | 2.00 | 1.6 | 366 | 2 | 18 | 26 | 16 | 71 | 58 | 495 | 10 |
| 44306 | 80.00 | 81.60 | 1.60 | 0.7 | 236 | 2 | 17 | 25 | 9 | 73 | 39 | 360 | 100 |
| 44307 | 81.60 | 82.60 | 1.00 | 1.9 | 272 | 1 | 10 | 14 | 10 | 37 | 67 | 325 | 50 |
| 44308 | 82.60 | 83.60 | 1.00 | 1 | 91 | 1 | 4 | 11 | 1 | 24 | 24 | 120 | 10 |
| 44309 | 83.60 | 84.60 | 1.00 | 1.1 | 177 | 1 | 5 | 11 | 1 | 31 | 35 | 145 | 7 |
| 44310 | 84.60 | 85.60 | 1.00 | 0.8 | 164 | 1 | 5 | 14 | 1 | 30 | 56 | 110 | 100 |
| 44311 | 85.60 | 87.20 | 1.60 | 1 | 142 | 1 | 10 | 16 | 2 | 33 | 25 | 75 | 10 |
| 44312 | 87.20 | 89.20 | 2.00 | 0.6 | 31 | 1 | 22 | 22 | 1 | 44 | 1 | 70 | 8 |
| 44313 | 89.20 | 91.20 | 2.00 | 0.5 | 46 | 1 | 23 | 24 | 2 | 50 | 2 | 60 | 8 |

HOLE NUMBER: CL-91-19

GEOCHEM. SHEET

PAGE: 6

HOLE NUMBER: CL-91-19

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|------------------|
| S>= 0.00cm | | | | | | | | | | |
| 12.90 | 17.10 | 4.20 | 30.00 | 714.3 | 34 | 8.10 | 4 | 0.95 | 0 | Massive, bull vn |
| 17.10 | 18.20 | 1.10 | 50.00 | ***** | 9 | 8.18 | 0 | 0.00 | 0 | BX |
| 18.20 | 20.20 | 2.00 | 120.00 | ***** | 33 | 16.50 | 4 | 2.00 | 0 | |
| 20.20 | 22.20 | 2.00 | 20.00 | ***** | 30 | 15.00 | 0 | 0.00 | 0 | BX |
| 22.20 | 23.40 | 1.20 | 40.00 | ***** | 23 | 19.17 | 0 | 0.00 | 0 | BX |
| 23.40 | 25.60 | 2.20 | 10.00 | 454.5 | 100 | 45.45 | 0 | 0.00 | 0 | MASSIVE VN |
| 25.60 | 27.70 | 2.10 | 0.00 | 0.0 | 100 | 47.62 | 0 | 0.00 | 0 | |
| 27.70 | 30.90 | 3.20 | 30.00 | 937.5 | 70 | 21.88 | 0 | 0.00 | 0 | |
| 32.60 | 34.60 | 2.00 | 80.00 | ***** | 20 | 10.00 | 0 | 0.00 | 0 | |
| 36.60 | 38.70 | 2.10 | 90.00 | ***** | 28 | 13.33 | 0 | 0.00 | 0 | |
| 38.70 | 40.70 | 2.00 | 130.00 | ***** | 23 | 11.50 | 0 | 0.00 | 0 | |
| 43.60 | 45.60 | 2.00 | 30.00 | ***** | 50 | 25.00 | 0 | 0.00 | 0 | |
| 47.60 | 49.60 | 2.00 | 100.00 | ***** | 27 | 13.50 | 0 | 0.00 | 0 | |
| 52.80 | 54.20 | 1.40 | 70.00 | ***** | 100 | 71.43 | 0 | 0.00 | 0 | |
| 55.20 | 57.50 | 2.30 | 80.00 | ***** | 13 | 5.65 | 1 | 0.43 | 0 | |
| 57.50 | 60.20 | 2.70 | 70.00 | ***** | 50 | 18.52 | 0 | 0.00 | 0 | |
| 60.20 | 62.40 | 2.20 | 100.00 | ***** | 33 | 15.00 | 1 | 0.45 | 0 | |
| 62.40 | 64.40 | 2.00 | 60.00 | ***** | 40 | 20.00 | 1 | 0.50 | 0 | |
| 64.40 | 67.60 | 3.20 | 160.00 | ***** | 36 | 11.25 | 5 | 1.56 | 0 | |
| 67.60 | 69.60 | 2.00 | 70.00 | ***** | 37 | 18.50 | 3 | 1.50 | 0 | |
| 73.60 | 75.60 | 2.00 | 110.00 | ***** | 22 | 11.00 | 15 | 7.50 | 0 | |
| 75.60 | 76.30 | 0.70 | 60.00 | ***** | 7 | 10.00 | 11 | 15.71 | 0 | |
| 76.30 | 78.30 | 2.00 | 90.00 | ***** | 22 | 11.00 | 5 | 2.50 | 0 | |
| 81.60 | 83.60 | 2.00 | 70.00 | ***** | 30 | 15.00 | 2 | 1.00 | 0 | |
| 83.60 | 84.60 | 1.00 | 40.00 | ***** | 20 | 20.00 | 6 | 6.00 | 0 | |
| 84.60 | 86.60 | 2.00 | 60.00 | ***** | 50 | 25.00 | 9 | 4.50 | 0 | |
| 86.60 | 88.60 | 2.00 | 70.00 | ***** | 50 | 25.00 | 6 | 3.00 | 0 | |
| 88.60 | 90.60 | 2.00 | 90.00 | ***** | 36 | 18.00 | 0 | 0.00 | 0 | |
| 90.60 | 92.60 | 2.00 | 10.00 | 500.0 | 100 | 50.00 | 0 | 0.00 | 0 | |
| 94.60 | 96.60 | 2.00 | 110.00 | ***** | 28 | 14.00 | 0 | 0.00 | 0 | |
| 99.40 | 101.40 | 2.00 | 150.00 | ***** | 13 | 6.50 | 0 | 0.00 | 0 | |
| 101.40 | 103.40 | 2.00 | 100.00 | ***** | 24 | 12.00 | 0 | 0.00 | 0 | |
| 103.40 | 104.60 | 1.20 | 30.00 | ***** | 16 | 13.33 | 0 | 0.00 | 0 | |
| 104.60 | 106.10 | 1.50 | 60.00 | ***** | 50 | 33.33 | 0 | 0.00 | 0 | |
| 106.10 | 107.60 | 1.50 | 110.00 | ***** | 8 | 5.33 | 2 | 1.33 | 0 | |
| 107.60 | 109.40 | 1.80 | 180.00 | ***** | 8 | 4.44 | 1 | 0.56 | 0 | |
| 109.40 | 110.20 | 0.80 | 40.00 | ***** | 5 | 6.25 | 2 | 2.50 | 0 | |
| 110.20 | 111.80 | 1.60 | 110.00 | ***** | 15 | 9.37 | 2 | 1.25 | 0 | |
| 111.80 | 112.60 | 0.80 | 60.00 | ***** | 5 | 6.25 | 1 | 1.25 | 0 | |
| 112.60 | 114.60 | 2.00 | 140.00 | ***** | 13 | 6.50 | 1 | 0.50 | 0 | |
| 114.60 | 115.40 | 0.80 | 60.00 | ***** | 7 | 8.75 | 1 | 1.25 | 0 | |
| 115.40 | 117.30 | 1.90 | 70.00 | ***** | 30 | 15.79 | 2 | 1.05 | 0 | |
| 117.30 | 119.30 | 2.00 | 120.00 | ***** | 16 | 8.00 | 0 | 0.00 | 0 | |
| 119.30 | 121.30 | 2.00 | 180.00 | ***** | 11 | 5.50 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-19

RQD ASSAY

PAGE: 7

HOLE NUMBER: CL-91-19

RQD ASSAY

DATE: 25-May-1992

| From (m) | To (m) | Length (L) | Sum Of Length | RQD S/LX100 | Number Of Fracturs | Fracturs Per Metres | Number Of Veins | Veins Per Metres | Angle | Comments |
|-------------|-----------|---------------|------------------|----------------|--------------------------|---------------------------|-----------------------|------------------------|-------|----------|
| | | | S>= 0.00cm | | | | | | | |
| 121.30 | 123.30 | 2.00 | 170.00 | ***** | 14 | 7.00 | 0 | 0.00 | 0 | |
| 123.30 | 124.50 | 1.20 | 170.00 | ***** | 12 | 10.00 | 0 | 0.00 | 0 | |
| 124.50 | 125.80 | 1.30 | 50.00 | ***** | 31 | 23.85 | 1 | 0.77 | 0 | |
| 125.80 | 127.80 | 2.00 | 170.00 | ***** | 8 | 4.00 | 2 | 1.00 | 0 | |
| 127.80 | 129.10 | 1.30 | 120.00 | ***** | 6 | 4.62 | 5 | 3.85 | 0 | |
| 129.10 | 131.10 | 2.00 | 150.00 | ***** | 8 | 4.00 | 12 | 6.00 | 0 | |
| 131.90 | 132.90 | 1.00 | 70.00 | ***** | 15 | 15.00 | 3 | 3.00 | 0 | |
| 132.90 | 134.60 | 1.70 | 60.00 | ***** | 19 | 11.18 | 2 | 1.18 | 0 | |
| 134.60 | 136.60 | 2.00 | 150.00 | ***** | 12 | 6.00 | 2 | 1.00 | 0 | |
| 136.60 | 137.50 | 0.90 | 60.00 | ***** | 7 | 7.78 | 0 | 0.00 | 0 | |
| 137.50 | 139.80 | 2.30 | 90.00 | ***** | 76 | 33.04 | 0 | 0.00 | 0 | |
| 142.30 | 143.30 | 1.00 | 50.00 | ***** | 8 | 8.00 | 0 | 0.00 | 0 | |
| 143.30 | 143.80 | 0.50 | 50.00 | ***** | 1 | 2.00 | 0 | 0.00 | 0 | |
| 143.80 | 144.80 | 1.00 | 50.00 | ***** | 10 | 10.00 | 0 | 0.00 | 0 | |
| 147.40 | 148.40 | 1.00 | 20.00 | ***** | 17 | 17.00 | 2 | 2.00 | 0 | |
| 148.40 | 150.20 | 1.80 | 120.00 | ***** | 23 | 12.78 | 0 | 0.00 | 0 | |
| 150.20 | 151.20 | 1.00 | 60.00 | ***** | 12 | 12.00 | 0 | 0.00 | 0 | |

HOLE NUMBER: CL-91-19

RQD ASSAY

PAGE: 8

APPENDIX III
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, David Heberlein of 12221 Makinson Street, Maple Ridge, B.C. certify that:

1. I graduated from the University of Southampton, England with a B.Sc (Honours) Degree in Geology in 1980.
2. I graduated from the University of British Columbia with an M.Sc Degree in Geology in 1985.
3. I have practised my profession continuously since my graduation.
4. I am a Fellow of the Geological Association of Canada (F5050).
5. I am currently employed by Minnova Inc. as a Senior Project Geologist.
6. Work described in this report was carried out under my direct supervision.

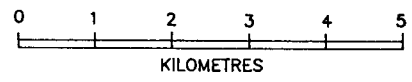
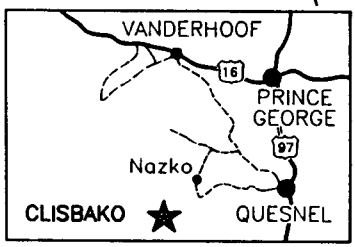
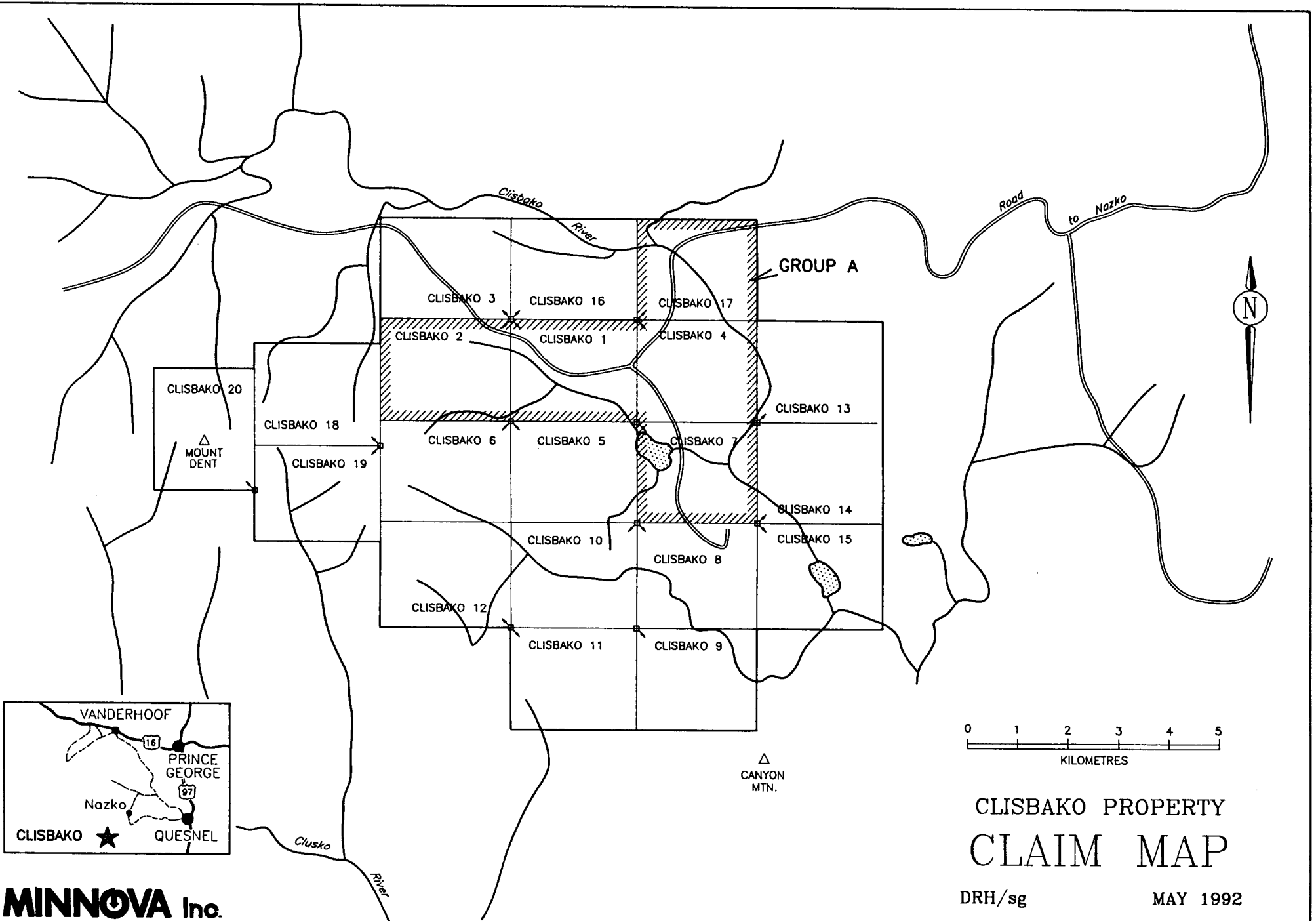
Date: _____

May 27, 1992

Signature: _____

D. Heberlein

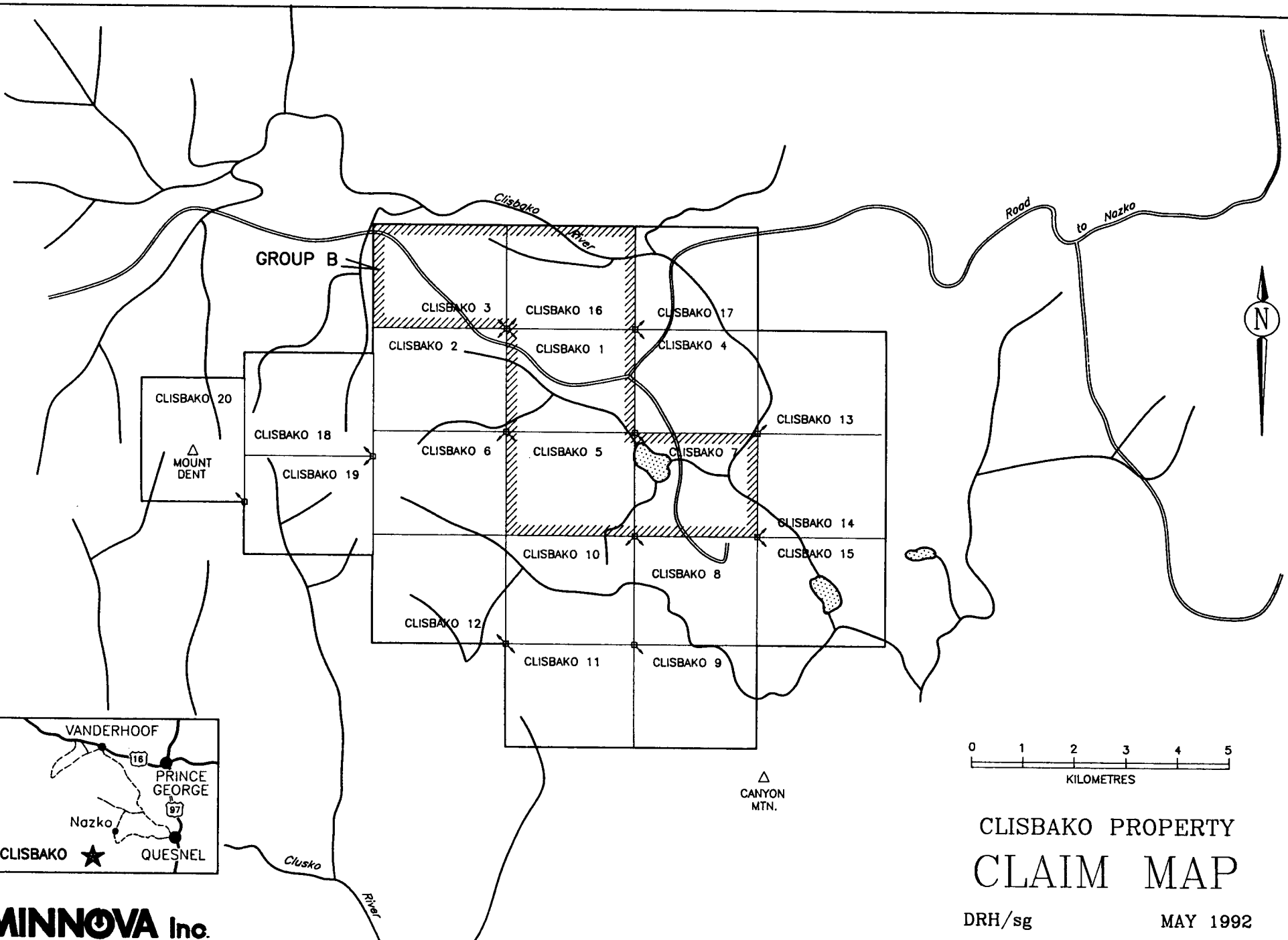
**APPENDIX IV
CLAIM GROUPINGS**



CLISBAKO PROPERTY CLAIM MAP

DRH/sg

MAY 1992



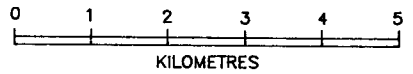
GROUP B

CLISBAKO 20
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CLISBAKO 18
 CLISBAKO 19

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 CLISBAKO 6 CLISBAKO 5 CLISBAKO 7
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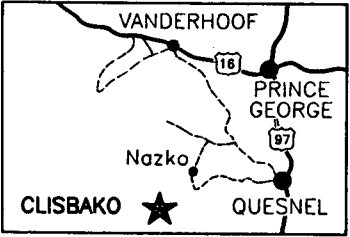
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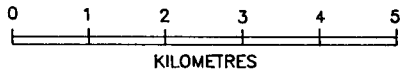
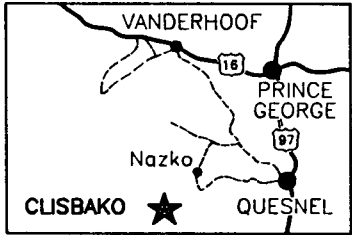
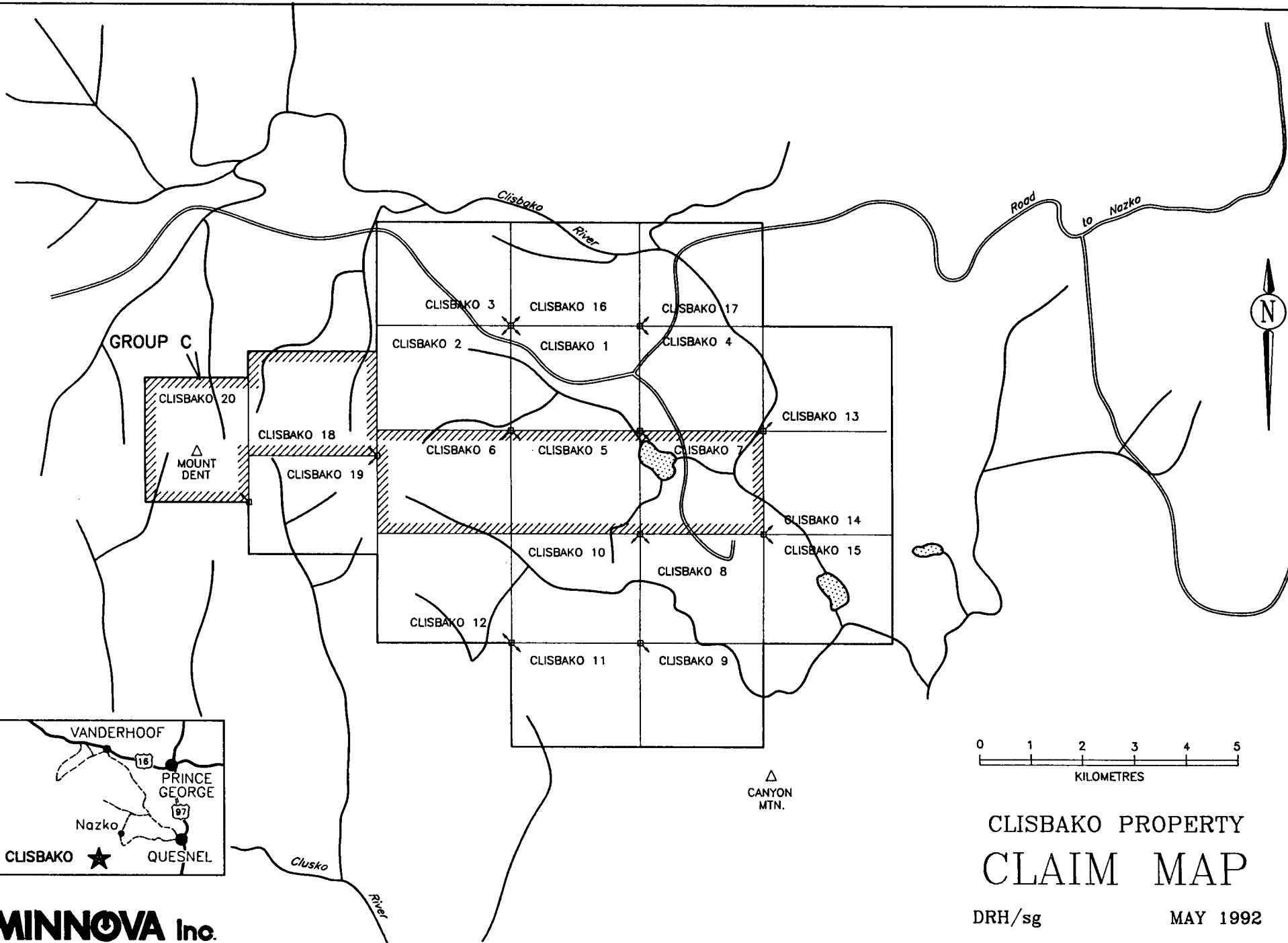


CLISBAKO PROPERTY
 CLAIM MAP

DRH/sg

MAY 1992

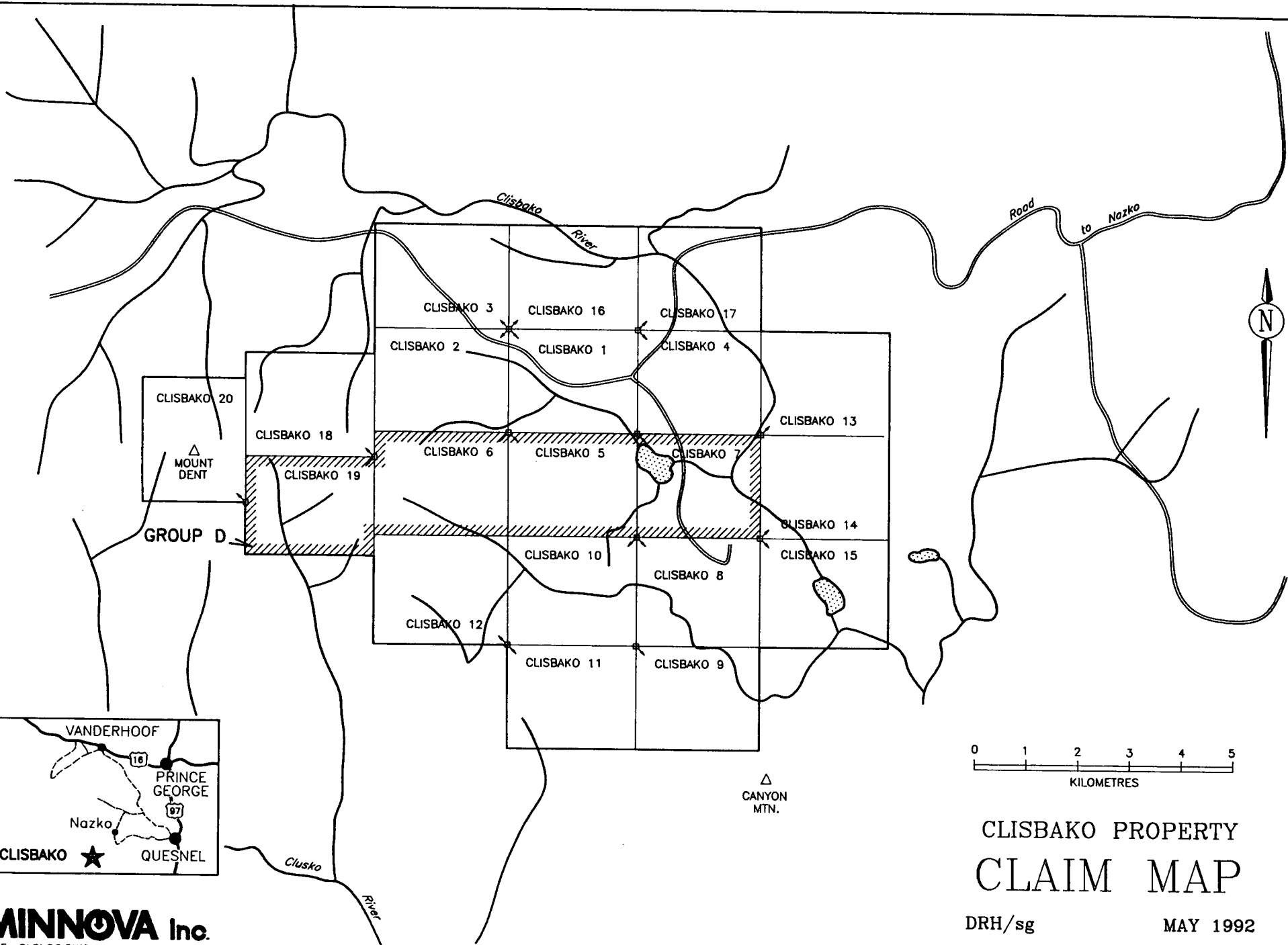




CLISBAKO PROPERTY CLAIM MAP

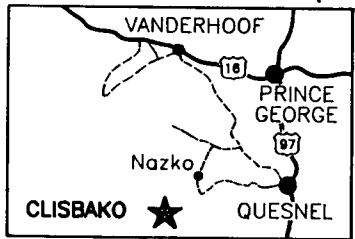
DRH/sg

MAY 1992



CLISBAKO 20
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GROUP D



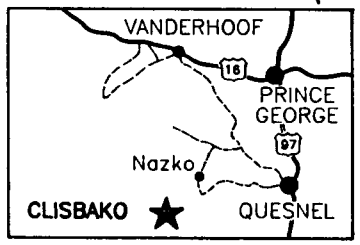
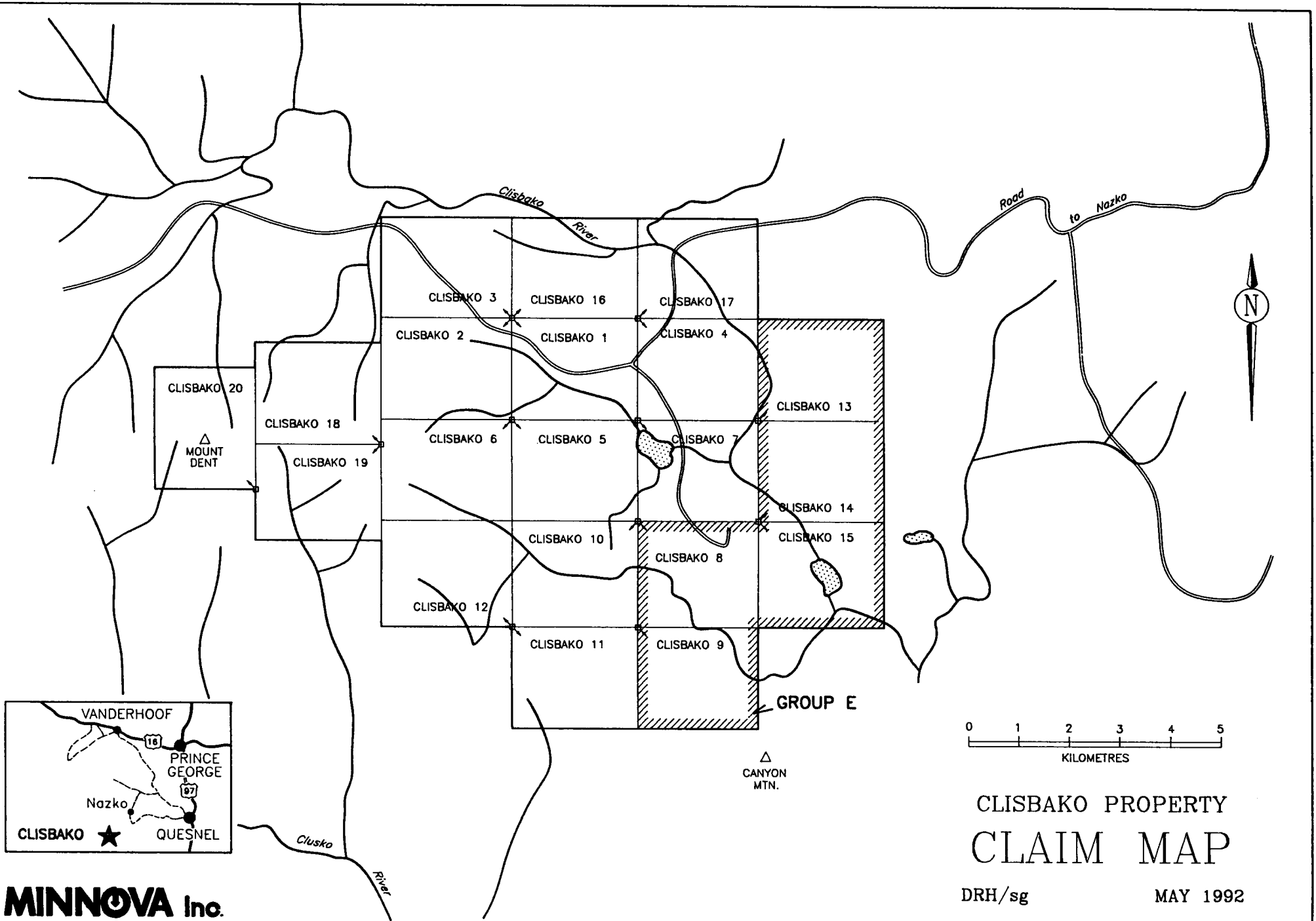
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 CANYON
 MTN.



CLISBAKO PROPERTY CLAIM MAP

DRH/sg

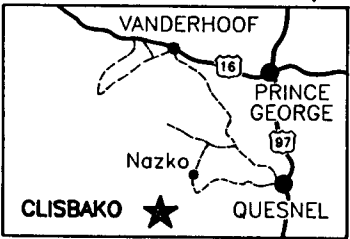
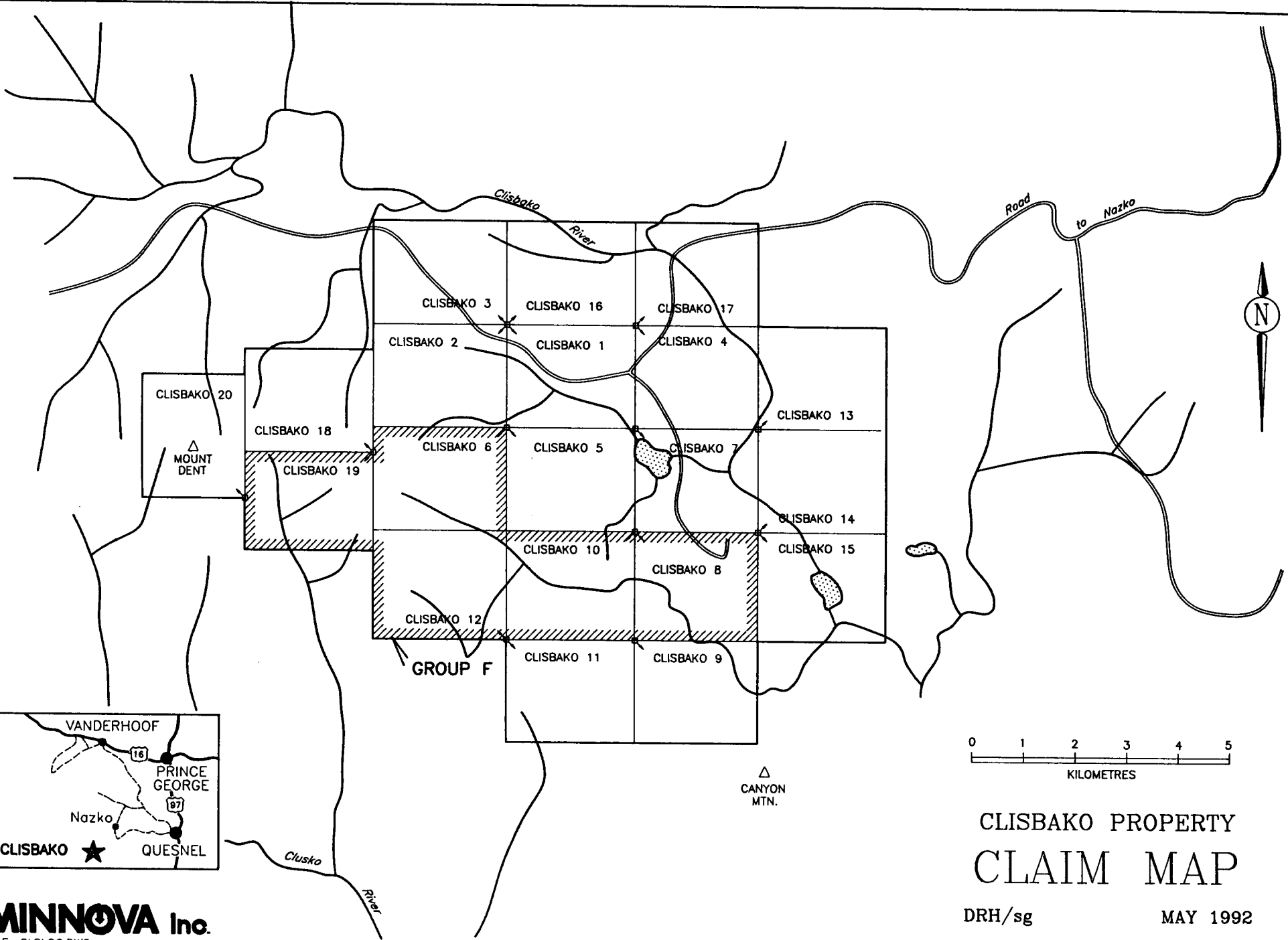
MAY 1992



CLISBAKO PROPERTY CLAIM MAP

DRH/sg

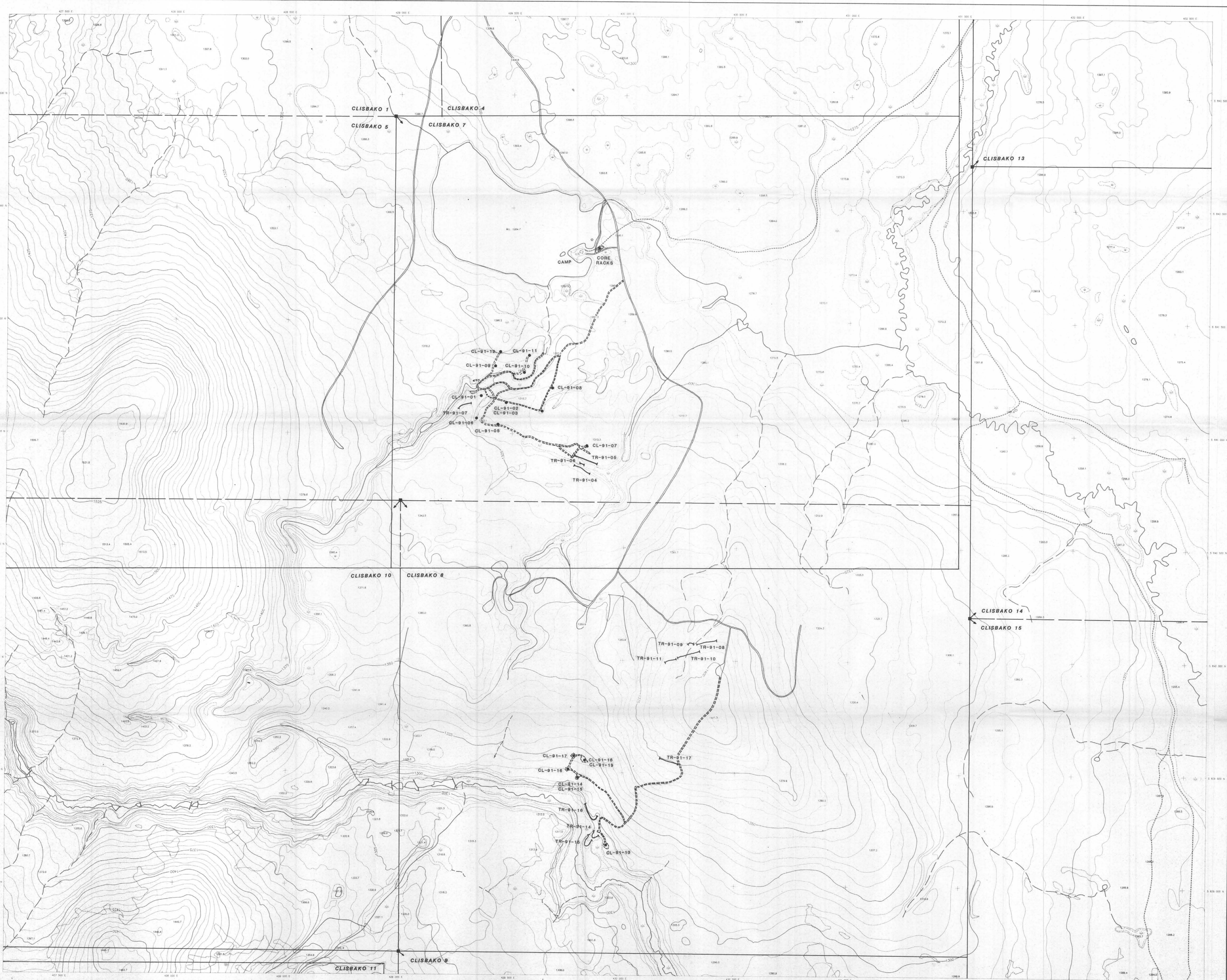
MAY 1992



CLISBAKO PROPERTY CLAIM MAP

DRH/sg

MAY 1992



GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,339

- 1991 TRAILS
- 1991 DRILL HOLE LOCATION
- 1991 TRENCH LOCATION

**CLISBAKO PROJECT
DRILL HOLE
LOCATION MAP**

SCALE 1:5000

CONTOUR INTERVAL 5 m.

FIGURE 2