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1989 Drilling Report on the Lara Group I

Lara Group I
Silver I, Silver II, Fang, Tooth, Cavity and Touche Claims
Susan, Klondyke, Tinto View Crown Grants

Victoria Mining Division, British Columbia Latitude: 48° 54' N Longitude 123° 52' W NTS 92 B/13W

#### Owners:

Laramide Resources Ltd. 675 West Hastings Street Vancouver, B.C. V6B 1N2

FILMED

### Operator:

Minnova Inc. 3rd Floor - 311 Water St. Vancouver, B.C. V6B 1B8

GEOLOGICAL BRANCH ASSESSMENT REPORT

19,806

John D. Kapusta

January 23, 1990

Minnova Inc.

Vancouver, B.C.

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#### 1. <u>Introduction</u>

The Lara property is situated on southern Vancouver Island, British Columbia, in the Victoria Mining Division. The property is comprised of 14 claims (totalling 144 units), seven fractional claims and three Crown Grants, and measures about 11 kilometres east-west by three kilometres north-south. The property is primarily underlain by felsic to intermediate volcanic rocks of the Paleozoic Sicker Group (McLaughlin Ridge Formation).

This report describes the results of diamond drill holes 89-265, 89-266, 89-267 and 89-270 which tested geophysical anomalies on the Lara property. The holes totalling 1099.20 m were drilled between November 7 and November 23, 1989.

#### 1.1 Location and Access

NTS:

92B/13W

Latitude: Longitude:

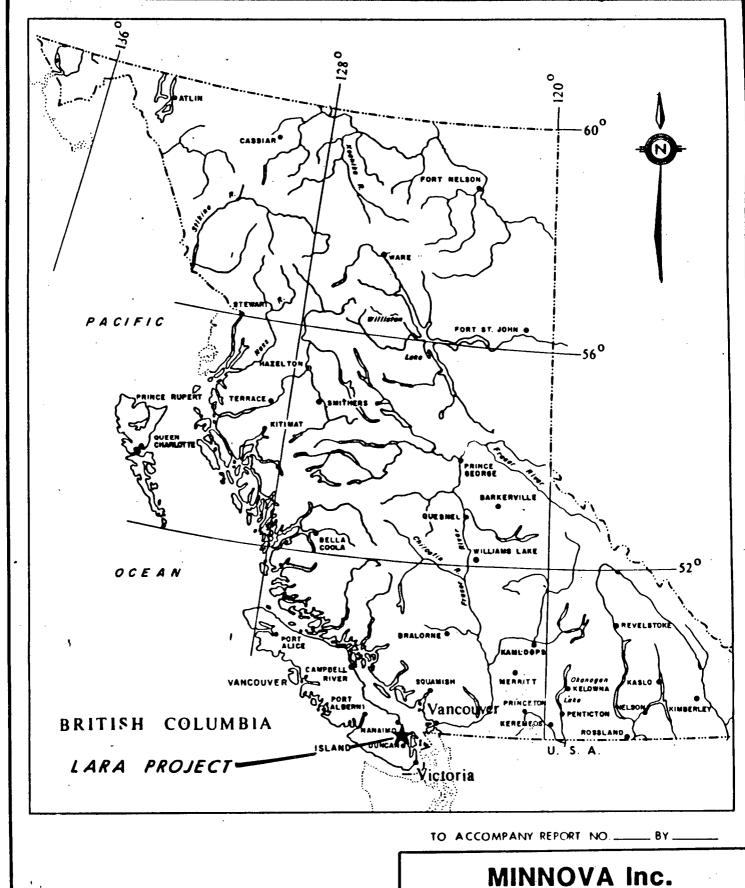
48° 52' 30" N

123° 52' W

The Lara Property is located on southern Vancouver Island in the Victoria Mining Division (Figure 1). It lies about 75 kilometres north of Victoria and 15 kilometres northwest of Duncan. Access to the property is along the Chemainus River Logging Trunk Road (MacMillan Bloedel) for a distance of about 12 kilometres from Highway No. 1 at Chemainus. From the Chemainus River road, the property is accessed by a network of secondary logging and forestry roads. In addition, a major B.C. Hydro power Right of Way cuts across the west side of the property.

#### 1.2 Property Status

The Lara Property is owned 100% by Laramide Resources Ltd. of 904 - 675 W. Hastings St., Vancouver, B.C. In addition Laramide has granted to Abermin Corporation of Vancouver, a convertible royalty equal to a 10% Net Profit Interest,



MINNOVA Inc.

LARA PROJECT

GENERAL LOCATION MAP

FIGURE 1

DATE SCALE NTS DRWG NO.

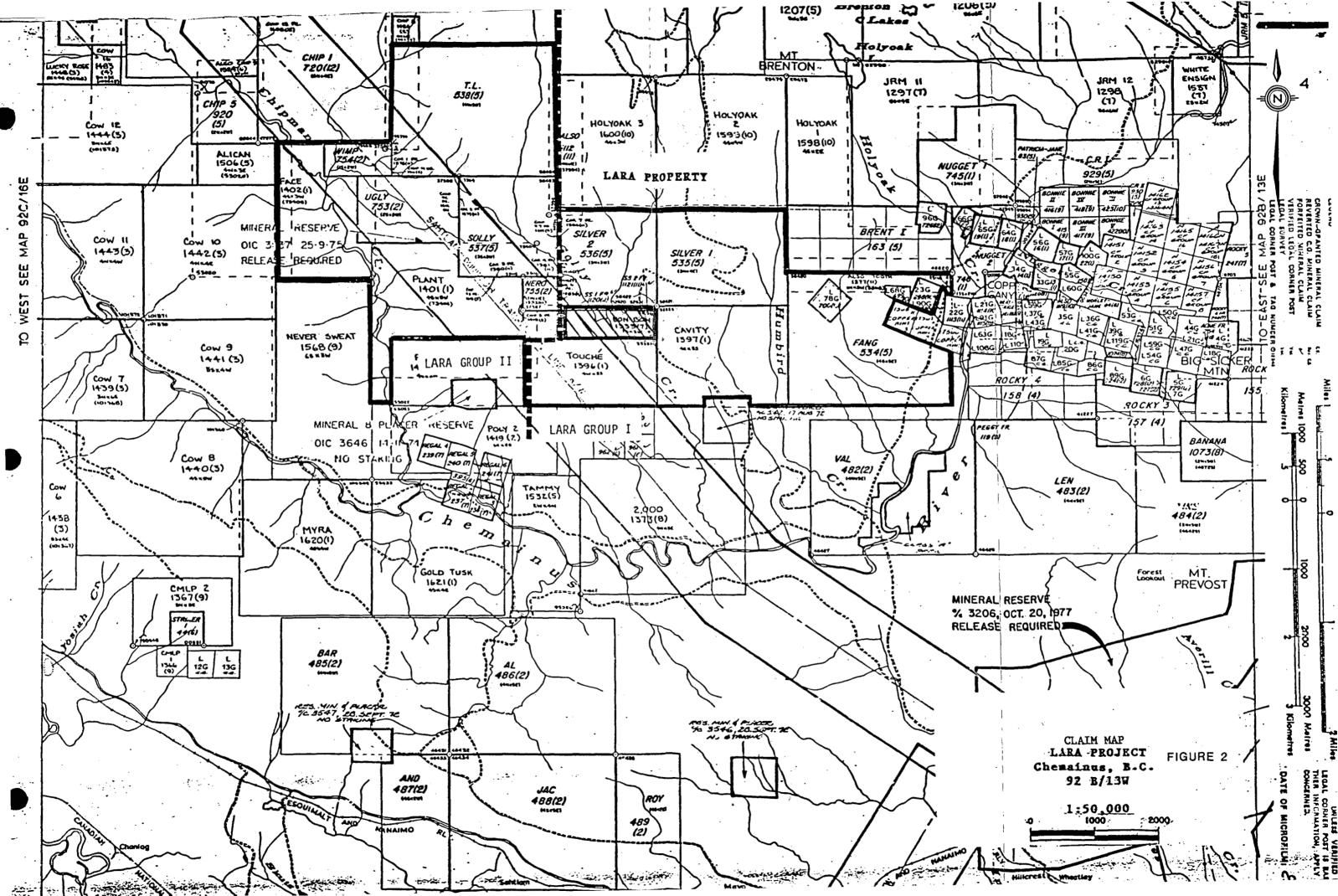
convertible, at the option of Abermin at any time prior to October 31, 1990 into 5% of the issued common shares of Laramide.

Minnova Inc. has entered into an agreement with Laramide by which it has obtained exclusive exploration rights to the Lara Property, on an expenditure basis, between November 1, 1988 and June 30, 1991.

## 1.3 Mineral Claims

The Lara Property consists of 14 claims, seven fractional claims and three reverted crown grants. For assessment purposes these have been divided into Lara Group I and Lara Group II (Figure 2) as follows:

| Claim Name           | Record No. | <u>Units</u> | Expiry Date  |
|----------------------|------------|--------------|--------------|
|                      | <u>Gro</u> | up I         |              |
| Silver I             | 535        | 12           | May 8, 1996  |
| Silver II            | 536        | 9            | May 8, 1996  |
| Fang                 | 534        | 20           | May 8, 1996  |
| Tooth                | 1377       | 5            | Nov 7, 1996  |
| Touche               | 1396       | 12           | Jan 21, 1997 |
| Cavity               | 1397       | 12           | Jan 21, 1997 |
| Susan (Lot 23G)      | 698        | 1            | Oct 26, 1996 |
| Klondyke (Lot 68G)   | 699        | 1            | Oct 26, 1996 |
| Tinto View (Lot 78G) | 700        | 1            | Oct 26, 1996 |
|                      | Gro        | up II        |              |
| Solly                | 537        | 9            | May 8, 1998  |
| T.L.                 | 538        | 20           | May 8, 1998  |
| Jennie               | 1112       | 4            | Nov 18, 1999 |
| Ugly                 | 753        | 6            | Feb 8, 1998  |
| Wimp                 | 754        | 2            | Feb 8, 1998  |
| Nero                 | 755        | 1            | Feb 8, 1999  |
| Face                 | 1402       | 12           | Jan 23, 1999 |
| Plant                | 1401       | 20           | Jan 23, 1998 |
| COR 1-7 Fr.          | 1378-84    | 7            | Nov 7, 1998  |



#### 1.4 <u>History</u> (to the end of 1988)

The Lara Property was staked by Laramide Resources in 1981 and optioned to Abermin Corporation in 1982. During 1981-83, exploration consisted of the establishment of a cut line grid, geological mapping, geophysical and soil geochemical surveys, and backhoe trenching to test anomalous areas. In 1984, 12 diamond drill holes totalling 1346 metres were drilled to test targets defined by the backhoe trenching, the last drill hole of this DDH intersected economically program, 84-12, significant mineralization beneath Trench 83-35. This intersection graded 0.68% Cu, 0.45% Pb, 3.01% Zn, 67.54 g/T Ag and 3.463 g/T Au, over a true thickness of 7.95 metres. This horizon was named the Coronation Zone, after its occurrence on the south slope of Coronation Mountain.

In 1985 the exploration program was designed to test the extent of mineralization intersected in drill hole 84-12; 61 diamond drill holes totalling 7437 metres were completed. The Coronation Zone was tested over a distance of 990 metres along strike and to 160 metres downdip.

The 1986 exploration program tested both the Coronation Zone and reconnaissance targets throughout the property, 75 diamond drill holes totalling 11,339 metres were completed. In addition to the diamond drilling, one backhoe trench (86-43) over the Coronation Zone was excavated. This trench exposed high grade massive sulphides grading 3.04% Cu, 43.01% Zn, 8.30% Pb, 513.60 g/T Ag and 24.58 g/T Au over a true thickness of 3.51 metres. The Coronation Zone was tested over a strike distance of 2100 metres.

The reconnaissance drilling tested geophysical, humus geochemical and geologic targets in the East, Far East, and North Grid areas. The most significant results from the Far East Grid drilling were from hole 86-110 that intersected up to 23% barite over 1.56 metres. In the North grid area a total of ten holes were drilled in an area referred to as the Randy Zone, that was discovered during surface mapping in 1986.

The 1987 exploration program tested the Coronation Zone, Randy Zone and reconnaissance targets throughout the property, 83 diamond drill holes totalling 15,038 metres were completed, one backhoe trench (87-44) over the Coronation Zone was also excavated.

In the Randy Zone 10 diamond drill holes were completed, this drilling has now traced the Randy Zone trend over a distance of 2000 metres and down-dip from surface to a depth of 180 metres.

The Reconnaissance drilling tested geophysical, humus geochemical and geologic targets on the West and North grid areas. The most significant results from the North Grid drilling were from drill holes 87-214 and 87-216. Drill hole 87-214 intersected a weak polymetallic zone between 20.25 m and 24.36 m, this interval graded 1.02% zinc. Drill hole 87-216 also intersected a weak polymetallic zone between 217.40 m and 220.16 m, this interval graded 0.67% Zn, 0.25% Pb, 0.13% Cu and minor Au and Ag.

In 1988 an underground exploration program was undertaken in the Coronation Zone. The goals of this program were: 1) to test the continuity of the Coronation Zone; 2) check rock conditions for mining cost estimate; and 3) take a bulk sample for metallurgical To best accomplish these goals all work was conducted on the 600 bench level. The program consisted of 130.00 m of down ramping to the 600 metre level (at a -15% grade), and a 55.00 m crosscut to access the Coronation Zone. Once the zone was intersected 212 metres of drifting was carried out in a westerly direction, nine crosscuts through the zone totalling 79 m were driven from this drift. To the east of the access cross cut 91.00 metres of drifting was carried out in the footwall to the zone and from this drift three crosscuts totalling 38 metres were driven through the zone. In addition to the drifting and crosscutting in and through the Coronation Zone a total of five raises totalling 105 m were driven up into the zone, two from crosscuts on the east side and three from crosscuts on the west side. A limited amount of diamond drilling and jackleg driven test holes were also carried out.

#### 2. Work Done

This report summarizes the results of four diamond drill holes, (89-265, 89-266, 89-267 and 89-270) totalling 1099.20 m that were drilled on the Lara Group I, between November 7, 1989 and November 23, 1989 (Table 1). These holes were drilled to test VLF and IP geophysical anomalies. The drill contractor who carried out this work was Frontier Drilling Ltd. of Langley, B.C.

#### 3. <u>Geology</u>

#### 3.1 Regional Geology

The Lara Property is underlain primarily by the Paleozoic age Sicker Group which comprises well differentiated volcanic rocks with interbedded tuffaceous, carbonaceous and volcaniclastic sedimentary rocks. These rocks are strongly deformed (commonly schistose) and are regionally metamorphosed to lower to upper greenschist facies.

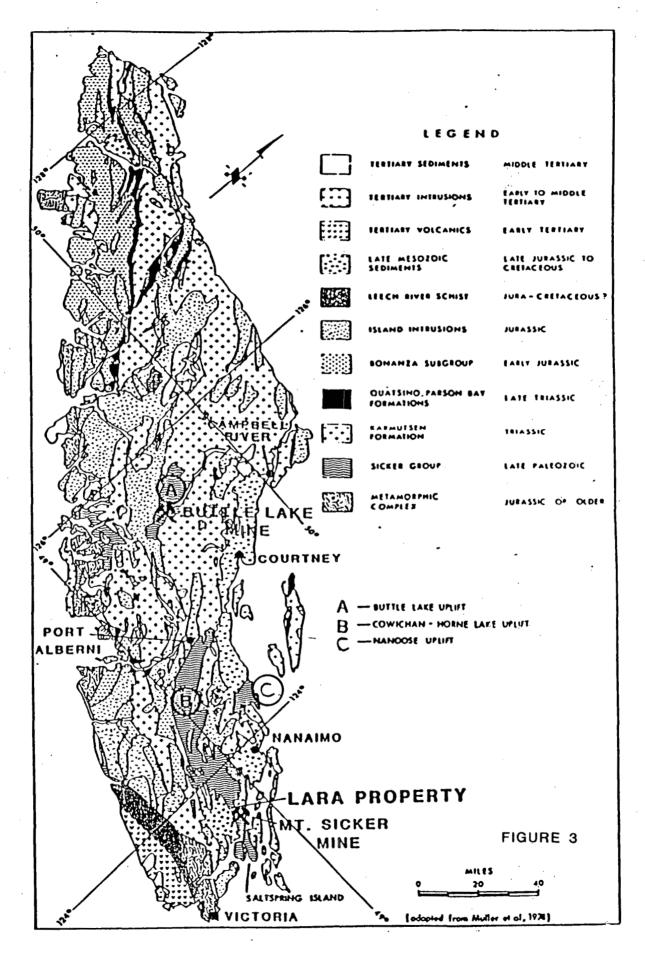
The Sicker Group is exposed in three major geanticlinal uplifts on Vancouver Island (Figure 3). The Lara property occurs toward the southwestern end (Figure 4) of the Horne Lake - Cowichan uplift which extends in an arc from Saltspring Island to Port Alberni, a distance of about 140 kilometres.

The stratigraphic divisions that are presently being used in the Horne Lake - Cowichan Uplift, and on the Lara property are those proposed by Nick Massey (Massey and Friday 1987, 1988) of the British Columbia Ministry of Energy, Mines and Petroleum Resources.

The Nitinat Formation, which is the lowermost unit in the Sicker Group, consists of mafic pyroclastics with subordinate volcanic flows (Brandon et al, 1986). The unit is commonly agglomeritic and is characterized by the presence of black augite phenocrysts which have been variably altered to uralite. These phenocrysts are up to 3 centimetres in diameter and comprise from

Table 1: Lara Project - Drill Summary

| Hole  | Loca       | tion       | Elev.    | Di       | ate      | Total     | Colla | r   | Tests   |      | Azimu | th     | Core | Target                    | Results                                |
|-------|------------|------------|----------|----------|----------|-----------|-------|-----|---------|------|-------|--------|------|---------------------------|----------------------------------------|
| 1     |            | Northing   | (m)      | Start    |          | Depth (m) |       |     |         |      |       |        | Size |                           |                                        |
|       |            |            | <u> </u> |          |          |           |       |     |         |      |       | $\neg$ |      |                           |                                        |
| 89-26 | 5 53+00W   | 115+20N    | 818      | 11/07/89 | 11/11/89 | 316.1     | 208   | -55 | 20.42   | -56  | 213   |        | NQ   | Test VLF and IP Anomalies | Wo significant results                 |
| 03 20 |            |            | -        |          | ,,       |           |       |     | 54.86   | -54  |       |        |      |                           | -                                      |
|       |            |            |          |          |          |           |       |     | 160     | -57  |       |        |      |                           |                                        |
| 1     |            |            |          |          |          |           |       |     | 209.4   | -57  |       |        |      |                           |                                        |
|       |            |            |          |          |          |           |       |     | 268     | -56  |       |        |      |                           |                                        |
|       |            |            |          |          |          |           |       |     | 148.44* | -57  | 209   | 30′    |      |                           |                                        |
|       |            |            |          |          |          |           |       |     | 316.08* | -56  | 212   | 00'    |      |                           | ·                                      |
|       |            |            |          |          |          |           |       |     |         |      |       |        |      |                           |                                        |
| }     |            |            |          |          |          |           |       |     |         |      |       |        |      |                           |                                        |
| 1     |            |            |          |          |          |           |       |     | 1       |      |       |        |      |                           | ·                                      |
| 89-26 | 6 55+37W   | 111+75N    | 737      | 11/11/89 | 11/13/89 | 226.2     | 208   | -50 | 100     | -48  |       |        | NQ   | Test VLF and IP Anomalies | No significant results                 |
|       |            |            |          |          |          |           |       |     | 157     | -46  |       |        |      |                           | ·                                      |
| 1     |            |            |          |          |          |           |       |     | 226.12  | -46  |       | İ      |      |                           |                                        |
| .  -  |            |            |          |          |          |           |       |     |         |      |       |        |      |                           | *                                      |
|       |            |            |          |          |          |           |       |     |         |      |       |        |      |                           |                                        |
| 89-26 | 7 57+00W   | 111+88N    | 730      | 11/13/89 | 11/15/89 | 252.1     | 208   | -50 | 13.11   | -50  |       | j      | NQ   | Test VLF and IP Anomalies | 225.21-226.53: 250 ppm Cu, 223 ppm Pb, |
|       |            |            |          |          |          |           |       |     | 84.12   | -50  |       | İ      |      |                           | 1320 ppm Zn                            |
|       |            |            |          |          |          | 1         |       |     | 166.73  | ~50  |       | ľ      |      |                           |                                        |
|       |            |            |          |          |          |           |       |     | 212.45  | -51  |       |        |      |                           | 237.53-248.32: 84 ppm Cu, 29 ppm Pb,   |
|       | 1          |            |          |          |          |           |       |     | 247.00* | -51  | 216   |        |      |                           | 227 ppm Zn                             |
|       |            |            |          |          |          |           |       |     |         |      |       |        |      |                           |                                        |
|       |            |            |          |          |          |           |       |     |         |      |       | l      |      |                           |                                        |
| 89-27 | 0 69+16W   | 113+38N    | 744      | 11/20/89 | 11/23/89 | 304.8     | 208   | -70 | 17.37   | -69  |       |        | NQ   | Downdip test of VLF and   |                                        |
|       |            |            | :        |          |          |           |       |     | 66.14   | -66  | İ     |        |      | IP anomalies tested in    | ·                                      |
|       |            |            |          |          |          |           |       |     | 124     | -66  |       | 1      |      | drill holes 86-105 and    |                                        |
|       |            |            |          |          |          |           |       |     | 165.8   | -65  |       | -      |      | 86-106                    | ·                                      |
|       |            |            |          |          |          |           |       |     | 270     | -63  |       | l      |      |                           |                                        |
|       | 1          |            |          |          |          |           |       |     | 216.00* | -65. | 210   |        |      |                           |                                        |
|       |            |            |          |          |          | ,         |       |     | 297.00* | -64  | 212   |        |      |                           |                                        |
|       |            |            |          |          |          |           |       |     |         |      |       |        |      |                           |                                        |
| • Spe | rry Sun Si | ingle Shot |          |          |          |           |       |     |         |      |       | İ      |      |                           |                                        |
|       |            |            |          |          |          |           |       |     |         |      |       |        |      |                           |                                        |



GEOLOGICAL SKETCH MAP OF VANCOUVER ISLAND

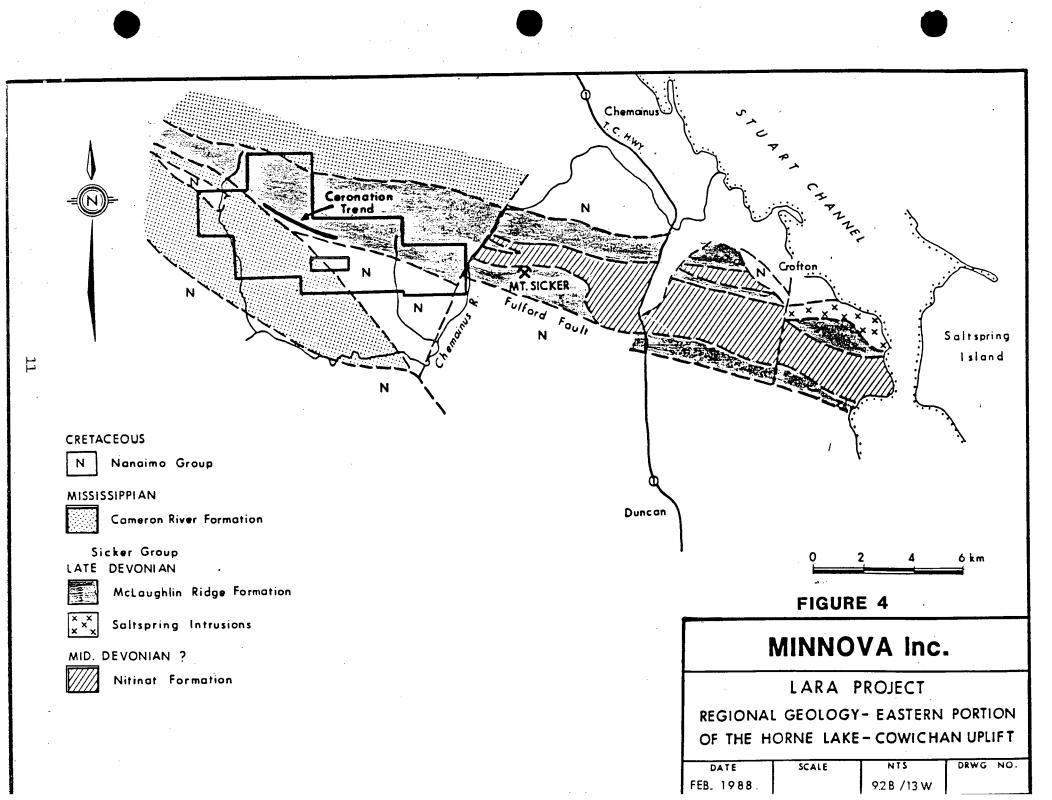
5 to 20% of the rock. Plagioclase phenocrysts are also abundant but are generally smaller. The Nitinat Formation contains a chlorite-epidote-actinolite-plagioclase metamorphic assemblage which is consistent with upper greenschist facies.

The McLaughlin Ridge Formation conformably overlies the Nitinat Formation. It consists of aphyric andesite pillow flows and breccias, rhyolite, volcanic sandstone, siltstone, argillite and chert. In the central part of the belt, the rocks are predominately volcaniclastic sediments with minor volcanic rocks. Felsic volcanic rocks are relatively uncommon, but are well developed at the southeastern end of the belt from just west of the Lara Property to Saltspring Island.

Sicker Group rocks are in fault contact or are unconformably overlain by the Cameron River Formation which consists of epiclastic sedimentary rocks including turbiditic sandstone, siltstone are argillite. The base of the unit is marked by a thick sequence of chert and cherty tuff.

The geology of the eastern portion of the Horne Lake-Cowichan uplift is shown in Figure 4. Sicker Group rocks outcrop in a folded, structurally complex west-northwest trending uplift which appears to plunge shallowly to the west. Progressively younger rocks are exposed from east to west along this trend. The belt is cut by several major cross faults along which differential uplift has taken place.

The Fulford Fault is a regionally extensive reverse fault which brings Mclaughlin ridge volcanics into contact with younger rocks of the Cameron River Formation and the Nanaimo Group. This faulting is associated with a Late Cretaceous to Early Tertiary deformational event.



#### 3.2 Geology of the Lara Property

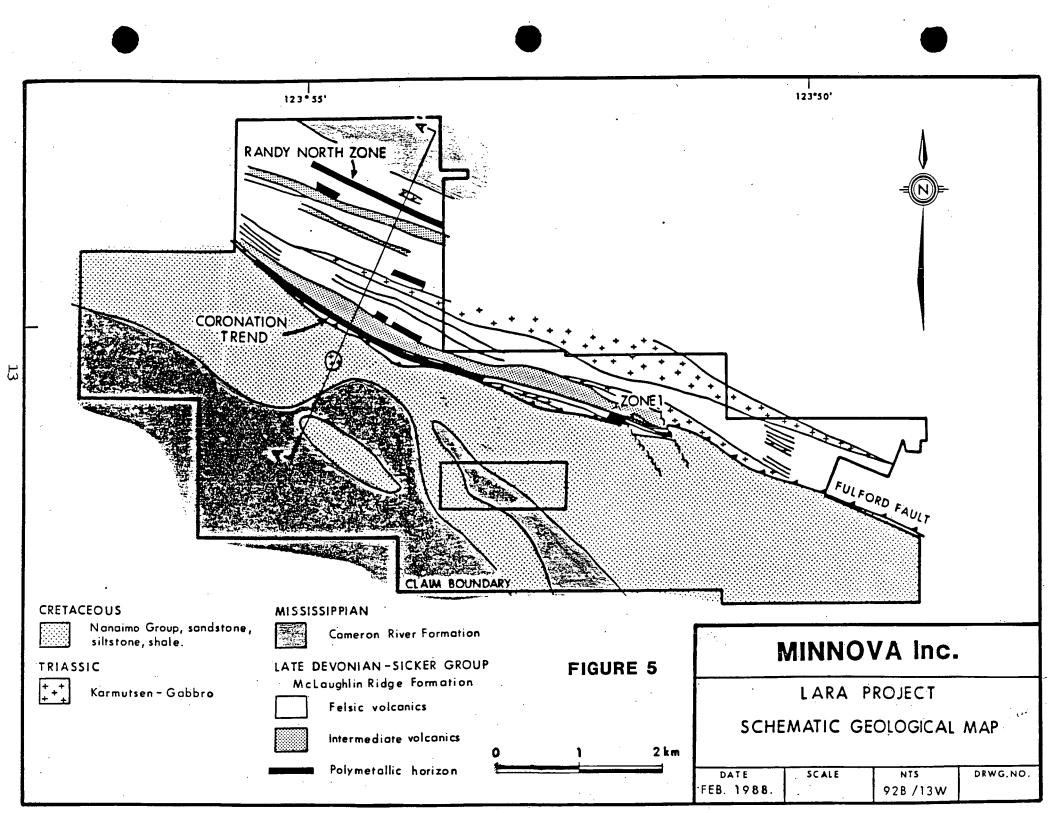
The property is underlain by the Mclaughlin Ridge Formation which has been thrust over younger rocks of the Cameron River Formation and the Nanaimo Group on the Fulford Fault (Figures 5 & 6). The Mclaughlin Ridge Formation consists of northerly dipping, west-northwest striking rhyolitic to andesitic rocks. Bedding in these rocks generally dips steeply at 60° to 75° N, although dips of 30° to 45° are common in the eastern half of the property between Humbird Creek and Silver Creek. The volcanics are dominated by felsic rocks; quartz phyric units are common particularly in the west half of the property. The most widespread lithologies are light green to white, feldspar and quartz feldspar crystal tuff. Lapilli tuffs occur locally.

Thick sequences of intermediate volcanic rocks occur at intervals in this felsic package. Intermediate rocks include fine grained andesite tuff and coarse grained lapilli tuff and breccia containing large epidotized fragments up to several centimetres in diameter.

Sedimentary rocks in the volcanic sequence include dark grey to black argillite, buff-coloured volcanic mudstone and tuffaceous quartz sandstones of both felsic and intermediate composition.

The Fulford Fault juxtaposes volcanic rocks of the Mclaughlin Ridge Formation and sedimentary rocks of the Cameron River Formation and the Nanaimo Group. The fault dips at about 47° in the west half of the property and cross-cuts bedding in the volcanic rocks at a shallow angle.

The Cameron River Formation south of the Fulford Fault consists of basal pebble conglomerate and volcaniclastic units grading upward into sandstone-argillite series and then to an upper argillite sequence with siltstone and chert interbeds. The Nanaimo



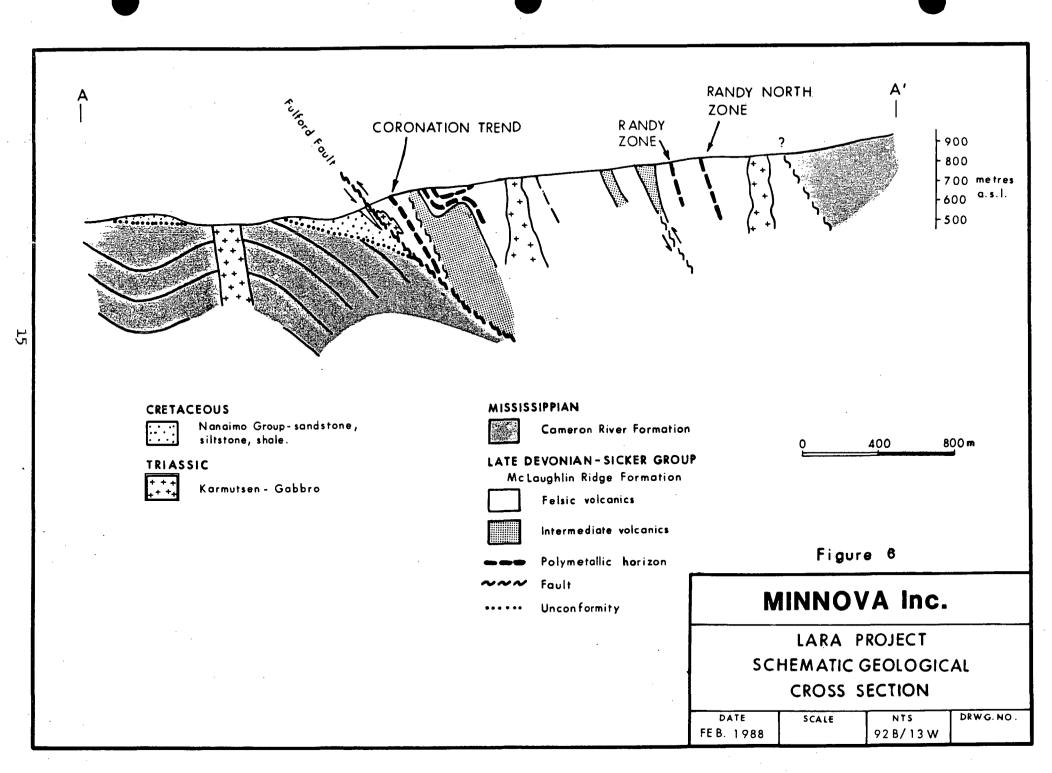
Group, which unconformably overlies the Cameron River Formation includes basal conglomerates, sandstone and fossil-bearing mudstone.

In the northwest part of the property, the volcanic rocks are again in contact with the Cameron River Formation which consists of greenish grey mudstone with argillite interbeds. A distinctive maroon schist package which is locally hematitic occurs immediately south of these sedimentary rocks and may represent the uppermost units in the McLaughlin Ridge Formation.

#### Intrusive Rocks

On the Lara Property the Sicker Group is cut by a number of mafic intrusions (Figure 5 and 6) which are probably feeders to the Triassic Karmutsen Formation. Compositionally the mafic intrusions are medium to coarse-grained diabase, gabbro leucogabbro with minor diorite. They are commonly porphyritic with feldspar phenocrysts often being glomero-porphyritic clusters up to three centimetres in diameter, mafic phenocrysts are generally Equigranular gabbros are also common. The intrusive bodies vary in size and form. Sill-like bodies are generally subconcordant with bedding, though they usually follow foliation where this is strongly developed. As a result of this they can show a variety of attitudes form shallow dipping to vertical. may range in thickness from only few metres to 200 metres, discordant dykes are also common varying from 10 centimetres to 20 metres wide.

Also on the property are a number of quartz-feldspar porphyry dykes. These dykes are known as the Saltspring Intrusions and are coeval with the felsic volcanics in the McLaughlin Ridge Formation and were probably feeders for felsic crystal tuffs found within the formation (Massey and Friday, 1987). The porphyries are usually well foliated and difficult to distinguish from crystal tuffs when contact relationships with host volcanics are not clear.



Quartz phenocrysts are up to 1 centimetre in diameter, round to oval in shape and may be stretched in the foliation. They comprise up to 20% of the rock. Plagioclase phenocrysts are smaller and vary in shape from euhedral laths to rounded and are sporadically altered to epidote.

It is believed there also exists a number of mafic intrusives, possibly dioritic in composition that are coeval with the andesite packages found in the McLaughlin Ridge Formation.

Elsewhere on the property it is believed that Tertiary age hornblende porphyry dykes occur. These late dykes are distinctly porphyritic with phenocrysts of dark green hornblende and feldspar up to several millimetres in size set in a fine grained, light green epidote-rich matrix. Border phases of these dykes may be brecciated and contain rounded fragments of dyke rock in a fine grained chloritic matrix. This brecciation may be the result of fluidization during emplacement of the dyke, suggesting a high volatile content. A petrographic sample from one of these dykes suggests that they are strongly altered mafic igneous rocks.

#### 4.0 <u>Diamond Drilling Results</u>

Drill hole 89-265 was drilled to test both VLF and I.P. geophysical anomalies. No significant sulphides were intersected in the drill hole to explain the anomalies.

Drill hole 89-266 was drilled to test both VLF and IP geophysical anomalies. The IP anomaly can best be explained by the sulphide content in the drill hole between 22.11 m and 28.35 m where 2 to 5% fine to coarse grained pyrite (disseminated, laminated and in stringers) was intersected in an intermediate to andesitic ash to lithic tuff, and between 28.35 m to 96.80 m, where a quartz porphyry felsic tuff unit contains 1% medium to coarse grained pyrite with rare trace chalcopyrite, local narrow intervals contain up to 10% coarse grained pyrite and 1% chalcopyrite. Geochemical samples from the above intervals returned no

significant base or precious metal results. Of interest though are two lithogeochemical samples obtained from the quartz porphyry felsic tuff (28.35 to 96.80 m) which have a pronounced sodium depletion, having values of 0.46% and 0.93% sodium. The VLF anomaly may represent a lithologic break, or possibly an intrusive diorite (between 131.20 to 159.70 m).

Drill hole 89-267 was drilled to test both VLF and IP geophysical anomalies. The anomalies can best be explained by local pyritic concentrations of 1-2%, locally to 5% (disseminated and in stringers), in a predominantly felsic section between 9.14 m to 99.36 m in the drill hole. Of particular interest is the felsic section located between 220.33 m and 252.06 m. An interval between 225.21 m and 229.78 m contains 2-3% pyritic stringers with minor sphalerite, chalcopyrite and galena. A geochemical sample taken between 225.21 m and 226.53 m returned values of 1320 ppm Zn, 250 ppm Cu and 223 ppm Pb. A possible exhalitive interval was intersected between 236.52-248.80 m, this is represented by a thinly interbedded sequence of very fine grained felsic to intermediate ash and chert. Geochemical sample staked between 237.53 and 248.32 m returned an average value of 84 ppm Cu, 29 ppm Pb and 227 ppm Zn. This horizon was not intersected in Drill Hole 89-266, the hole may have been stopped short.

Drill hole 89-270 was drilled as a down dip test of VLF and IP anomalies tested in Drill Hole 86-105 and 86-106. No significant sulphides were intersected in the drill hole.

## 5. Conclusions

Although none of the drill holes (89-265, 89-266, 89-267 and 89-270) intersected economic mineralization the results from hole 89-267 should be considered significant. The intersection of the finely bedded cherts and ashes that are geochemically anomalous in base metals shows us that there is a favourable environment for hosting volcanogenic massive sulphides on the east side of the Lara property. Further testing of this horizon is warranted to evaluate its potential for hosting a volcanogenic massive sulphide deposit.

# 6. Cost Statement

| A. | Drill Costs           | \$55,757.17 |
|----|-----------------------|-------------|
| В. | Personnel             | 4,725.00    |
| c. | Truck Rental          | 800.00      |
| D. | Food and Accomodation | 640.00      |
| Ε. | Report Preparation    | 975.00      |
|    |                       | ========    |
|    | Total                 | \$62,897.17 |

## 7. Core Storage

Drill cores are stored in a warehouse facility at 9398 Trans Canada Highway, Chemainus, B.C.

#### 8. References

- Brandon, M.T., Orchard, M.J., Parrish, R.R., Sutherland Brown, A., and Yorath, C.J. (1986): Fossil Ages and Isotopic Dates from the Paleozoic Sicker Group and Associated Intrusive Rocks, Vancouver Island, British Columbia, in Current Research, Part A, Geological Survey of Canada, Paper 86-1A, pages 683-696.
- Kapusta, J.D., Blackadar, D.W., McLaughlin, A.D. (1987): 1987 Report for Drilling Conducted on the Lara Group I and Lara Group II, Abermin Corporation.
- Massey, N.W.D. and Friday, S.J. (1987): Geology of the Cowichan Lake Area, Vancouver Island (92C/16), British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Field Work, 1986, Paper 1987-1, pages 223-229.
- Massey, N.W.D. and Friday, S.J., Tercier P.E. and Rublee V.J. (1987b): Geology of the Cowichan Lake Area, NTS 92C/16, British Columbia Ministry of Energy, Mines and Petroleum Resources, Open File 1987-2.
- Massey, N.W.D. and Friday, S.J., Tercier P.E. and Rublee V.J. (1988a): Geology of the Chemainus River Duncan Area, Vancouver Island (92C/16; 92B/13), B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1987, Paper 1988-1, pages 81-91.
- Massey, N.W.D., Friday, S.J., Tercier, P.E., and Potter, T.E. (1988b): Geology of the Duncan and Chemainus River Area, NTS 92B/13 and 92C/16E, B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1988-8.
- Muller, J.E. (1980): The Paleozoic Sicker Group of Vancouver Island, British Columbia, Geological Survey of Canada Paper 79-30, 24 pages.

# 9. Statement of Qualifications

- I, John D. Kapusta of Vancouver, British Columbia, do hereby certify that:
- I am a geologist residing at 6170 Arlington Street, Vancouver,
   B.C. and currently employed by Minnova Inc. of 311 Water
   Street, Vancouver, B.C.
- 2. I graduated from the University of Manitoba in 1981 with a BSc. degree in Geology.
- 3. I have been employed on a full time basis in my profession since April 1981.

Date: Much 12, 1990

Signature:

Appendix I Drill Logs: 89-265, 89-266, 89-267, 89-270

PROJECT NAME: LARA PROJECT

PLOTTING COORDS GRID: MINE

ALTERNATE COORDS GRID: Mine

COLLAR DIP: -55\* 0\* 0\*

IOJECT NUMBER: 242

NORTH: 11520.00N

NORTH: 115+20N

LENGTH OF THE HOLE: 316.08m

CLAIM NUMBER: FANG

.E NUMBER: 89-265

EAST: 5300.00W

EAST: 53+ OW ELEV: 818.00 START DEPTH: 0.00m

LOCATION: NTS 92B/13W

ELEV: 818.00 COLLAR GRID AZIMUTH: 180° 0° 0°

COLLAR ASTRONOMIC AZIMUTH: 208° 0° 0"

FINAL DEPTH: 316.08m

METRIC UNITS: X

COLLAR SURVEY: NO

PULSE EM SURVEY: NO

CONTRACTOR: Frontier Drilling Ltd.

IMPERIAL UNITS:

ATE COMPLETED: November 11, 1989 DATE LOGGED:

DATE STARTED: November 7, 1989

and the second second repair and a

MULTISHOT SURVEY: YES

CASING: 15.2 m

٥,

ROO LOG: NO

PLUGGED: YES HOLE SIZE: NO

CORE STORAGE: Chembinus

RPOSE: Test VLF and IP anomalies at a OFP Felsic Tuff Contact

RECTIONAL DATA:

| Depth<br>(m) | Astronomic<br>Azimuth | Dip<br>degrees | Type of<br>Test | FLAG | Comments    | Depth<br>(m) | Astronomic<br>Azimuth | Dip<br>degrees | Type of<br>Test | FLAG | Comments |
|--------------|-----------------------|----------------|-----------------|------|-------------|--------------|-----------------------|----------------|-----------------|------|----------|
| 20.42        | •                     | -56* 01        | ACID            | OK   | <del></del> | •            | •                     | •              | •               |      |          |
| 54.86        | •                     | -54* 01        | ACID            | OK   |             | •            | •                     | •              | •               | •    |          |
| 160.00       | •                     | -57" 0"        | ACID            | OK   |             | •            | •                     | •              | •               | •    |          |
| 209.40       | •                     | -57* 0'        | ACID            | OK   |             | •            | •                     | •              | •               | •    |          |
| 268.00       | •                     | -56" 0"        | ACID            | OK   | I           | •            | •                     | •              | • •             | •    |          |
| 148.44       | 209:30:               | -57" 0"        | SING.SHOT       |      |             | •            | -                     | •              | •               | •    |          |
| 316.08       | 212. 01               | -56" 0"        | SING.SHOT       |      |             | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |             | •            | -                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |             | •            | •                     | •              | •               | •    |          |
| •            | •                     |                | •               | •    |             | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |             | •            | •                     | •              | •               | •    |          |
| •            | •                     | -              | •               | •    |             | •            | •                     | •              | •               | •    |          |
| •            | •                     | -              | -               | -    |             |              | •                     | •              | •               | •    |          |
| •            | -                     | •              | -               | •    |             |              | •                     | •              | •               | •    |          |
| -            | •                     | •              | •               | •    |             | •            | •                     | •              | -               | •    |          |
| •            | -                     | -              | •               | -    |             |              | •                     | •              | •               | -    |          |
| • .          | -                     | -              | •               | -    |             | •            | -                     | -              | •               | -    |          |
| -            | •                     | •              |                 | •    |             |              | -                     | -              | •               | •    |          |
| •            | •                     | •              | •               | •    |             |              | •                     | •              | -               | •    |          |
| -            | -                     | -              | -               | -    |             |              | •                     | •              | •               | •    |          |
|              | •                     | •              | •               | -    |             |              | •                     | •              | •               | -    |          |
| •            | •                     | •              | -               | -    |             | •            | -                     | -              | •               | •    |          |
| -            |                       |                | •               | -    |             | -            | •                     | -              | -               | •    |          |
| -            | -                     | -              | -               | -    | İ           | -            | -                     | •              | -               | •    |          |
| -            | •                     | -              |                 | •    |             | •            | -                     | -              | -               | •    |          |
| •            | •                     | •              | •               | -    |             |              | -                     | -              |                 | •    |          |
| -            |                       | •              | •               | -    |             |              | •                     | -              | -               | -    |          |
| •            | -                     | -              | -               | •    |             |              | •                     | •              | •               | •    |          |

.E NUMBER: 89-265

| FROM                   | ROCK<br>TYPE                                 | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ANGLE |                                                                                       | MINERALIZATION                                 | REMARKS                                                                                                  |
|------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 0.00<br>TO<br>15.24    | «OB»                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                                       |                                                | Drill hole was tri-coned down to this depth in order to get through clay seam, hit by hole 265A          |
| 15.24<br>TO<br>28.67   | «DIORITE»                                    | Colour: Dark green Grain Size: Medium to commer grained  Thick, massive, weakly foliated Minor calcite veining Feldspar porphyritic Consistently boring  15.24 - 26.70m Very rubbly core "no gouge seams" Strongly oxidized on fracture surfaces  34.14 - 36.00m Minor rubble and gouge seams 47.55 - 47.85m Rubbly 48.52 - 49.20m Rubbly 51.00 - 54.20m Minor rubble and gouge zones 57.25 - 57.91m Rubbly 60.10 - 60.40m Rubbly 66.00 - 66.60m Rubbly 82.86 - 84.00m Rubbly 114.40 - 128.67m Fine to medium grained phase 118.80 - 118.85m Shear | 10    |                                                                                       |                                                | Fracture surfaces are strongly oxidized throughout interval Well developed chill margin on lower contact |
| 128.67<br>10<br>130.04 | Quartz<br>Porphyry<br>«GP TUFF»              | Colour: White to light grey Grain Size: Medium grained  Thick bedded, massive, weak to moderately foliated 5% cuartz eyes to 3mm 5-7% light to dark grey felsic fragments to 5mm  CAB at 130.04m                                                                                                                                                                                                                                                                                                                                                   | 62    | Well developed sericite on foliation<br>planes<br>Felsic fragments are very siliceous | <1% disseminated pyrite, trace<br>chalcopyrite | Blitzed                                                                                                  |
| 130.04<br>10<br>157.58 | Intermed,<br>Lithic Tuff<br>at LITH<br>TUFF# | Colour: Light to medium grey green Grain Size: Medium grained  Thick bedded, moderately foliated 5-7% light grey to claear siliceous fragments to 5mm  May contain 3-5% clay altered feldspar crystals to 0.5mm                                                                                                                                                                                                                                                                                                                                    |       | Weakly developed sericite and chlorite on foliation planes                            |                                                |                                                                                                          |

E NUMBER: 89-265

LE NUMBER: 89-265

ROCK ANGLE MINERALIZATION REMARKS TO CA ALTERATION TYPE TEXTURE AND STRUCTURE Has a very consistent granular appearance 3-4% disseminated and minor stringers 130.04 - 137.43a of pyrite, also minor chalcopyrite, disseminated and patchy at 134.55m, trace gatena in a quartz vein 131.46m CAF 37 136.51m CAF 63 30 137.43 - 137.53m Fault, gouge 1% to locally 2% disseminated and minor 137.53 - 157.58m stringers of fine to medium grained pyrite, trace chalcopyrite 137.53m CAF 140.92m CAF 61 141.10 - 143.40m Foliation highly contorted, range 005 to 060 degrees 143.40 - 145.38m fault, very poor recovery, local gouge 145.78m CAF 60 148.70 - 151.25m foliation highly contorted, generally 010 degrees 151.00 - 151.18s Fault, intensely encared 151.98 - 152.00m Fault, intensely sneared 152.60 - 152.75m Fault, intensely sheared 153.75 - 153.31m Fault, gouge 47 155.30 - 155.40m Sheared 155.70 - 155.75m Sheared 156.35 - 156.08m Fault, gouge 80 156.66 - 156.93m Foliation highly contorted 156.93 - 157.58m Fault, abundant gouge seams 0.5-1% disseminated and stringer pyrite Colour: Light grey 57.58 Quartz Moderate well developed sericite on local trace disseminated chalcopyrite TO POPPHYRY Grain Size: Medium grained obliation planes 92.32 Tuff «QP TUFF» Thick beaded, moderately foliated 5% quartz eyes <1mm to 4mm Possibly 2-3% felospar crystals <1mm, clay altered

E MAMBER: 89-265

| TOUTHER DESTRUCTIVE AND STRUCTURE NO. ALTERATION ALTERATION BEHAVES  160.00 - 161.04m Aussy chloritic section 161.04m CAB 161.70 - 162.74m Fault, intersely sheared, 163.00 - 163.74m Fault, intersely sheared, 163.00 - 163.74m Fault, intersely sheared, 163.00 - 163.74m Fault, intersely sheared, 163.00 - 163.75m Fault, googe 163.00 - 170.25m Fault, googe 163.00 - 170.25m Fault, googe 163.00 - 170.25m Fault, googe 177.20 - 177.27m Fault, googe 177.20 - 177.27m Fault, googe 177.20 - 177.20m Fault, googe 177.20 - 177.20m Fault, googe 177.20 - 177.20m Fault, googe 177.20 - 177.20m Fault, googe 177.20 - 177.20m Fault, googe 177.20 - 177.20m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170.00m Fault, googe 177.20 - 170 |       |             |                                                                                                                                                                                                                                                                                                                                                                             | <del></del>                     | <del></del> | <del></del>                     |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------|---------------------------------|--------------------|
| 161.0e CAS  161.70 - 162.76s fault, interestly sheared  163.40 - 163.67s fault, interestly sheared  163.40 - 163.67s fault, interestly sheared  163.90 - 162.20s Fault, interestly sheared  163.91 - 162.20s Fault, interestly sheared  163.91 - 163.20s Fault, interestly sheared  163.91 - 163.20s Fault, interestly sheared  163.91 - 163.20s Fault, interestly sheared  177.30s CAF  163.91 - 163.20s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fault, goode  177.30s Fa |       |             | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                                                                       |                                 |             | MINERALIZATION                  | REMARKS            |
| 161.70 - 162.76m Fault, interestly sheared 163.40 - 163.67m Fault, interestly sheared, abundant gouse 143.90 - 164.20m Fault, interestly sheared 164.73 - 165.20m Fault, gouse 164.73 - 165.20m Fault, gouse 167.70m CAF 166.30 - 166.12m Shear 177.80 - 177.20m Fault, gouse 177.80 - 177.20m Fault, gouse 177.80 - 177.20m Fault, gouse 177.80 - 177.90m Fault, gouse 177.80 - 177.90m Fault, gouse 182.37 - 182.40m Jointe 185.13 - 186.20m Jointe 185.13 - 186.20m Jointe 185.15 - 186.20m Jointe 185.15 - 186.20m Jointe 185.15 - 186.20m Jointe 186.00 - 186.00 Jointe 187.10 Jointe 186.00 - 186.00 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Jointe 187.10 Joi |       |             | ·                                                                                                                                                                                                                                                                                                                                                                           |                                 |             | 3-5% pyrite, trace chalcopyrite |                    |
| 163.40 - 163.67m Fault, internally sheared, abundant gouge 163.90 - 164.73 - 165.20m Fault, internally sheared 164.73 - 165.20m Fault, gouge 167.00 CdF 168.30 - 166.32m Shear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |             |                                                                                                                                                                                                                                                                                                                                                                             | 51:                             |             |                                 |                    |
| Annester gouge  143.90 - 164.20n fault, interacty sheared 164.73 - 165.20n fault, gouge 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 165.73n CAF 16 |       |             | 161.70 - 162.76m Fault, intensely sheared                                                                                                                                                                                                                                                                                                                                   |                                 |             |                                 | Very poor recovery |
| 164.73 - 165.20m Fault, gouge 167.30m CAF 166.30 - 166.12m Shear 177.81 - 177.22m Fault, gouge 177.82 - 177.22m Fault, gouge 177.80 - 178.73m Fault, gouge 177.80 - 178.73m Fault, gouge 177.80 - 178.73m Fault, gouge 179.80 - 178.73m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240m Fault, gouge 179.80 - 178.240 - 178.240 Fault, gouge 179.80 - 178.240 - 178.240 Fault, gouge 179.80 - 178.240 Fault, gouge 179.80 - 178.240 Fault, gouge 179.80 - 178.240 Fault, gouge 179.80 - 178.240 Fault, gouge 179.80 - 178.240 Fau |       |             |                                                                                                                                                                                                                                                                                                                                                                             | 40                              |             |                                 |                    |
| Grain Size: Medius to coarse grained  Thick, messive, weakly foliated Minor quertz calcite verining Very equigranular Feldspar porphyritic  192.32 - 192.36m Shear, gouge  DB.85 TO Lithic Tuff WAND LITH TUFF  Thick bedded, moderately foliated 3-5% felsic granuales, clear to light grey from 1-5mm Intervat has a very granular appearance  208.85 - 208.98m Minor shearing  Grain Size: Medius to coarse grained  Moderate to well developed chlorite on foliation planes  1-2% disseminated fine to medius grained pyrite <1% quartz pyrite stringers with local trace chalcopyrite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             | 164.73 - 165.20m Fault, gouge<br>167.30m CAF<br>168.30 - 168.32m Shear<br>174.15 - 174.34m Fault, gouge<br>177.87 - 177.92m Fault, gouge<br>178.00 - 178.75m Fault, gouge<br>179.80 - 179.96m Fault, gouge<br>182.37 - 182.40m Fault<br>183.51 - 184.21m Diorite<br>185.15 - 186.00m 70% quartz vein with patchy<br>massive pyrite, 30% diorite<br>186.00 - 186.60m Diorite | 61<br>45:<br>45:<br>85:<br>60 0 |             |                                 |                    |
| Thick, messive, weakly foliated Minor quertz calcite veining Very equigramular Feldspar porphyritic  192.32 - 192.36m Shear, gouge  DB.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | -OIORITE»   |                                                                                                                                                                                                                                                                                                                                                                             |                                 |             |                                 |                    |
| DB.85 Andesite Lithic Tuff 26.30 Andesite Lithic Tuff TUFF*  Colour: Medium to dark green Grain Size: Medium grained  Moderate to well developed chlorite on foliation planes  Foliation planes  Foliation planes  Foliation planes  Foliation planes  1-2% disseminated fine to medium grained pyrite  Included the stringers with local trace chalcopyrite  Trace chalcopyrite  208.85 - 208.98m Minor shearing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28_85 |             | Minor quartz calcite veining<br>Very equigranular<br>feldspar porphyritic                                                                                                                                                                                                                                                                                                   |                                 |             |                                 |                    |
| TO Lithic Tuff 26_30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |             |                                                                                                                                                                                                                                                                                                                                                                             |                                 |             | 1.77 disconinged fine to madism |                    |
| TUFF»  Thick bedded, moderately foliated 3-5% felsic granuales, clear to light grey from 1-5mm Interval has a very granular appearance  208.85 - 208.98m Minor shearing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10    | Lithic Tuff |                                                                                                                                                                                                                                                                                                                                                                             |                                 |             | grained pyrite                  |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ١٠٠٠٠ |             | 3-5% felsic granuales, clear to light grey from 1-5mm                                                                                                                                                                                                                                                                                                                       |                                 |             |                                 |                    |
| 1 211:22m CAF 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |             | 208.85 - 208.98m Minor shearing                                                                                                                                                                                                                                                                                                                                             |                                 |             |                                 | •                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | 1           | 211:22m CAF                                                                                                                                                                                                                                                                                                                                                                 | 48                              |             |                                 |                    |

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| ton<br>To          | ROCK<br>TYPE                                     | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                                          | ANGLE<br>TO CA                   |                                                              | MINERALIZATION                                                                                                                             | REMARKS |
|--------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                    |                                                  | 212.60 - 212.75m                                                                                                                                                                                                                                                                                                                               | 50<br>50<br>33<br>50<br>60<br>85 |                                                              |                                                                                                                                            |         |
| 6.30<br>TO<br>9.64 | Quartz<br>Porphyry<br>Felsic Tuff<br>«QP TUFF»   | Colour: Light grey Grain Size: Medium grained  Thick bedded, moderately foliated 3% quartz eyes <1mm to 3mm Possible 1-2% ghosty to clay matered feldspars, <0.5mm Groundmass very fine grain to aphanitic  229.40 - 229.64m foliation highly contorted, may possibly contain minor argillite Laminations                                      |                                  | Minor sericite development                                   | 1% fine grained disseminated pyrite,<br>rare trace chalcopyrite<br>Minor quartz veining locally containing<br>abundant patchy chalcopyrite | ·       |
| 9.64<br>TO<br>5.84 | Andesite<br>Lithic Tuff<br>«ANO LITH<br>TUFF»    | Colour: Medium green Grain Size: Medium grained  Thick bedded, moderately foliated 3-5% quartz granuales to 2mm Interval has a very granular appearance  232.24m CAF 235.84m Contact                                                                                                                                                           | 50<br>32                         | Weakly developed chlorite on foliation planes                | 1% disseminated fine to medium grained pyrite, minor quartz pyrite stringers                                                               | ·       |
| 5.84<br>TO<br>8.67 | Andesite<br>Crystal<br>Lithic Tuff<br>«AND TUFF» | Colour: Medium to dark green Grain Size: Medium to coarse grained  Thick bedded, weak to moderately foliated 5% gnosty to white to predominately epidote altered feldspar crystals to 1.5mm 1-2% quartz grains to 1mm, locally to 5mm 2-3% green mafic crystals to 1mm  235.84 - 236.70m Interval contains 5% epidized Lithic fragments to 2cm |                                  | Weak to moderately developed chlorite<br>on foliation planes | <1% disseminated pyrite, rare pyrite stringers                                                                                             |         |

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HOLE RECORD

| ROM<br>TO              | ROCK<br>TYPE                                  | TEXTURE AND STRUCTURE                                                                                                                                                                                                                    | ANGLE<br>TO CA |                                                                                                | MINERALIZATION                                                                                                           | REMARKS            |
|------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------|
| 8.67<br>TO<br>i2.45    | intermed.<br>Ash<br>«I ASH»                   | Colour: Light greyish green Grain Size: Fine grained  Very thin to thinly bedded, moderately foliated  249.31m CAB 250.04 - 251.00m Local intensely sheared, abundant gouge                                                              | 63             | Weak sericite, chlorite development on<br>foliation surfaces                                   | 2-3% very fine grained disseminated pyrite, minor fine to medium grained stringers, local trace chalcopyrite             |                    |
| ;2.45<br>10<br>37.17   | Andesite<br>Lithic Tuff<br>«AND LITH<br>TUFF» | 251.36 - 251.44m Gouge  Colour: Medius green Grain Size: Medius grained  Thick bedded, moderately foliated 5-7% quartz granuals, <1-2mm Very granular appearance Locally 2-3% epidote altered feldspar crystals to 1.5mm                 |                | Weak to moderately developed chlorite<br>on foliation planes                                   | 1% disseminated fine to medium grained<br>pyrite, minor quartz pyritic stringers<br>rare trace chalcopyrite in stringers |                    |
|                        |                                               | Rare epidote attered lapilli between 252.45-253.45  259.10 - 259.57m  259.74 - 260.29m  265.97 - 266.10m  266.83 - 266.94m  267.60 - 267.67m  270.13 - 270.20m  273.80 - 274.20m  Very minor argillite wisps  Very minor argillite wisps | 70             |                                                                                                | Quartz pyrite stringers, 25% sulphides                                                                                   |                    |
|                        |                                               | 277.60-281.43 =INT ASM=<br>50% of this interval is very thin to thinly<br>bedded int. Ash<br>279.60m CAB<br>282.85 - 287.17m interval contains 3% lapilli                                                                                | 61             | Fragments are epidote altered                                                                  | 2-3% disseminated to laminated fine grained pyrite                                                                       |                    |
|                        |                                               | fragments from 3mm - 4cm, subrounded to rounded                                                                                                                                                                                          |                | Pragments are epidote attered                                                                  |                                                                                                                          |                    |
| 187.17<br>TO<br>194.50 | Andesite<br>Tuff<br>«AND TUFF»                | Colour: Medium to dark green Grain Size: Medium to coarse grained  Thick bedded, moderately foliated, very equigramular  237.17 - 287.64m Very thin to thinly bedded Andesite ash                                                        |                | Moderate developed chlorite on<br>foliation surfaces<br>Minor carbonate microveins and patches | 1-2% disseminated fine grained pyrite                                                                                    | Possible anhydrite |

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| ĭ0                 | ROCK<br>TYPE                                                       | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                           | ANGLE<br>TO CA | ALTERATION                                                                                                                   | MINERALIZATION                                              | REMARKS |
|--------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------|
|                    |                                                                    | 287.14 CAB   291.60-293.08 =INT ASH=  Very thin to thinly bedded  291.65m CAB                                                                                                                                                                                   | 80<br>90       |                                                                                                                              | 3 to locally 5% disseminated, laminated fine grained pyrite |         |
| 4.50<br>TO<br>1.96 | Andesite<br>Lithic to<br>Crystal<br>Tuff<br>MAND LITH,<br>XL TUFF= | Colour: Medium to dark green Grain Size: Medium to coarse grained Thick bedded, wisk to moderately foliated 2-3% grey felsic granuales to 2mm 3-5% 7 epidote altered feldspar crystals to 0.5mm 298.00 - 300.00m Rare Lapilli fragments, epidote altered to 3cm |                | Weak pervasive epidote alteration, rare<br>hematite staining on fractures<br>Weak, developed chlorite on foliation<br>planes |                                                             |         |
| 1.96<br>TO<br>7.77 | Andesite<br>Lithic Tuff<br>MAND LITH<br>TUFF=                      | Colour: Medium green Grain Size: Fine to medium grained Thick bedded, moderately foliated Very equigranular 302.58 - 302.67m Fault, gouge 304.20 - 306.60m Diorite?                                                                                             | 34             | Weak to moderately developed chlorite<br>on foliation planes<br>Weakly calcareous<br>Strongly calcareous                     | 1-2% very fine grained disseminated pyrite                  |         |
| 7.77<br>10<br>6.07 | Quartz Porphyry Felsic Tuff wGP TUFF* E.O.H.                       | Colour: Light grey, weak green cast Grain Size: Medium grained  Thick bedded, weak to moderate foliated 3 to locally 5% quartz eyes to 2mm Possible 2-3% ghosty feldspars to 0.5mm Groundmass very fine grained to aphanitic                                    |                | Silicified                                                                                                                   | 1% disseminated, patchy fine to<br>medium grained pyrite    |         |

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ASSAY SHEET

| Sample                                    | From<br>(m)                | To<br>(m)                                      | Length<br>(m)                        | ESTIMA<br>GCu<br>ppm            | GPb<br>ppm                  | GZn<br>ppm                   | GAg<br>ppm                      | GAu<br>ppb                 | ASSAYS<br>GBa<br>ppm                        | Cu<br>% | Pb<br>X | Zn<br>X | lAg<br>oz/t | Ag<br>g/t | IAu<br>oz/t | GEOCH<br>Au<br>g/t | EMICAL<br>SG<br>SG | NSR  <br>NŜR | SUL | · | COMMENTS  |
|-------------------------------------------|----------------------------|------------------------------------------------|--------------------------------------|---------------------------------|-----------------------------|------------------------------|---------------------------------|----------------------------|---------------------------------------------|---------|---------|---------|-------------|-----------|-------------|--------------------|--------------------|--------------|-----|---|-----------|
| 13392<br>13393<br>13394<br>13396          | 132.08                     |                                                | 0.94<br>1.10<br>1.16                 | 525<br>214<br>270<br>255<br>19  | 781<br>88<br>23<br>21<br>20 | 87<br>99<br>86<br>85<br>32   | 1.1<br>1.6<br>0.9<br>1          | 10<br>5<br>7<br>5<br>10    | 310                                         |         |         |         |             |           | ,           |                    |                    |              | •   |   | : : : : : |
| 13397<br>13398<br>13399<br>13400<br>13426 | 136.51<br>160.80<br>178.91 | 136.51<br>137.43<br>161.04<br>180.40<br>227.02 | 1.49                                 | 275<br>190<br>345<br>117<br>515 | 26<br>22<br>144<br>13<br>21 | 103<br>84<br>126<br>24<br>30 | 0.8<br>0.8<br>1.2<br>0.4<br>1.5 | 16<br>10<br>16<br>3<br>56  | 1960                                        |         |         |         |             |           |             |                    |                    |              |     |   |           |
| 13427<br>13428<br>13429<br>13430<br>13431 | 228.27<br>248.67<br>250.04 | 228.27<br>229.47<br>250.04<br>251.00<br>252.45 | 1.25<br>1.20<br>1.37<br>0.96<br>1.45 | 21<br>26<br>102<br>215<br>99    | 12<br>13<br>24<br>26<br>127 | 21<br>31<br>59<br>60<br>55   | 0.4<br>0.4<br>0.9<br>1          | 17<br>14<br>19<br>16<br>11 | 1830  <br>1740  <br>1200  <br>1770  <br>790 |         |         |         |             |           |             |                    |                    |              |     |   |           |
| 13432<br>13433<br>13434<br>13435<br>13436 | 287.17<br>290.32<br>291.60 | 291.60                                         | 1.83<br>0.47<br>1.28<br>1.48<br>1.42 | 168<br>87<br>18<br>16<br>295    | 21<br>17<br>19<br>14<br>22  | 67<br>40<br>49<br>37<br>96   | 0.9<br>0.6<br>0.6<br>0.9        | 13<br>14<br>8<br>16<br>11  | 400<br>340<br>790                           |         |         |         |             |           |             |                    |                    |              |     |   |           |

| HOLE NUM                                  | BER: 89-2                  | 265                                            |                      |                                           |              |                                      |                                      |                                      |                                      |                                      | GEO                                  | CHEM.                              | HEET           |         | _                            |         |                      | •                                        |                          |                  |                             |                            |                            | DATE: 1               | 5-Dece                      | ber-1989          |   |
|-------------------------------------------|----------------------------|------------------------------------------------|----------------------|-------------------------------------------|--------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|----------------|---------|------------------------------|---------|----------------------|------------------------------------------|--------------------------|------------------|-----------------------------|----------------------------|----------------------------|-----------------------|-----------------------------|-------------------|---|
| Sample                                    | From<br>(m)                | To<br>(m)                                      | Length<br>(m)        | ALZQI<br>Z                                | 80           | CaO<br>X                             | Fe203                                | K20                                  | MgO<br>%                             | MnO2                                 | Na20                                 | P205                               | \$102<br>X     | 72<br>X | T102                         | 2r<br>* | s<br>x               | Tot<br>X                                 | Ag<br>ppm                | As E             | a-ppm                       | . Crr                      | Pb<br>ppm                  | Sb                    | Žn<br>pom                   | Au<br>ppb         | · |
| 13393<br>17358<br>17359<br>17360<br>17361 | 165.50<br>218.57<br>242.80 | 130.98<br>168.50<br>221.54<br>245.80<br>277.27 | 3.00<br>2.97<br>3.00 | 17.25<br>13.75<br>15.98<br>16.36<br>16.12 | 0.75<br>0.38 | 0.78<br>0.31<br>0.95<br>3.18<br>1.31 | 6.02<br>2.81<br>9.95<br>8.94<br>8.04 | 1.79<br>2.01<br>0.01<br>0.01<br>0.01 | 9.15<br>2.95<br>8.64<br>6.91<br>6.21 | 0.09<br>0.04<br>0.22<br>0.25<br>0.22 | 4.64<br>1.85<br>3.15<br>3.42<br>4.24 | 0.21<br>0.1<br>0.2<br>0.23<br>0.18 | 71.26<br>53.63 |         | 0.74<br>0.25<br>0.64<br>0.64 |         | 0.38<br>0.52<br>0.14 | 94:53<br>96:47<br>94:28<br>94:2<br>96:13 | 1.6<br>0.4<br>0.9<br>1.1 | 1<br>1<br>1<br>1 | 22<br>153<br>32<br>25<br>33 | 214<br>3<br>65<br>16<br>92 | 88<br>28<br>70<br>58<br>55 | 6<br>1<br>5<br>4<br>5 | 99<br>33<br>106<br>92<br>86 | .5<br>5<br>5<br>5 |   |
| 17362<br>17363                            |                            | 300.78<br>316.08                               |                      | 14.59<br>14.16                            | 0.49<br>0.38 | 8.07<br>0.93                         | 12.04<br>3.28                        | 0.01<br>0.83                         | 5.15<br>2.99                         | 0.26                                 | 3.91<br>4.31                         | 0.35<br>0.11                       | 48.47<br>68.8  |         | 1.78                         |         | 0.53<br>0.71         | 95.63<br>96.99                           | 4.2<br>0.2               | í<br>1           | 1 <del>9</del><br>102       | 127<br>33                  | 53<br>35                   | 4                     | 78<br>47                    | 5<br>5            |   |

HOLE HUMBER: 89-265

Sohn Kapida

GEOCHEM. SHEET

app, so hus M

PAGE:

- (

PROJECT NAME: LARA PROJECT

PLOTTING COORDS GRID: MINE

ALTERNATE COORDS GRID:

METRIC UNITS: X

PROJECT NUMBER: 242

NORTH: 11175.00N

NORTH: 0+ 0

COLLAR DIP: -50" 0" 0" LENGTH OF THE HOLE: 226.16m

CLAIM NUMBER: FANG

DLE NUMBER: 89-266

EAST: 5537.00W

EAST: 0+ 0

START DEPTH: 0.00m

LOCATION: NTS 92B/13W

ELEV: 737.00

ELEV: 737.00

FINAL DEPTH: 226.16m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 208° 0' 0"

DATE STARTED: November 11, 1989

COLLAR SURVEY: NO MULTISHOT SURVEY: NO PULSE EM SURVEY: NO PLUGGED: YES CONTRACTOR: FRONTIER DRILLING LTD CASING: 22.1 ■

IMPERIAL UNITS:

DATE COMPLETED: November 13, 1989 DATE LOGGED:

0, 0

ROO LOG: NO

HOLE SIZE: NO

CORE STORAGE: CHEMAINUS

URPOSE: To test barite, chert horizons and VLF, IP,

anomalies.

IRECTIONAL DATA:

| Depth<br>(m) | Astronomic<br>Azimuth | Dip<br>degrees | Type of<br>Test | FLAG | Comments | Depth<br>(m) | Astronomic<br>Azimuth | Dip<br>degrees | Type of<br>Test | FLAG | Comments |
|--------------|-----------------------|----------------|-----------------|------|----------|--------------|-----------------------|----------------|-----------------|------|----------|
| 100.00       | •                     | -48* 01        | ACID            | OK   |          |              |                       | •              | •               | •    | _        |
| 157.00       | •                     | -46. 0.        |                 | OK   |          |              | •                     | •              | •               | •    |          |
| 226.16       | •                     | -46" 0"        |                 | OK   |          |              | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | <b>}</b> •   | •                     | •              | •               | •    |          |
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| •            | •                     | •              | •               | •    |          |              | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          |              | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          |              | •                     | •              | •               | •    |          |
| •            | •                     | -              | •               | -    |          | -            | •                     | •              | •               | -    |          |
| •            | •                     | -              | •               | -    | •        | •            | •                     | -              | •               | •    |          |
| • ,          | •                     | •              | •               | -    |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | -            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | -            | •                     | -              | •               | •    |          |
| •            | •                     | •              | •               | -    |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | -               | •    |          | •            | •                     | -              | -               | •    |          |
| •            | • .                   | -              | -               | •    |          | •            | •                     | •              | •               | -    |          |
| •            | •                     | •              | •               | -    |          | -            | •                     | •              | •               | •    |          |
| •            | •                     | -              | •               | -    |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | •              | •               | -    |          |
| •            | •                     | -              | •               | •    |          | •            | •                     | •              | -               | -    |          |
| •            | •                     | -              | -               | •    |          | -            | •                     | •              | -               | -    |          |
| •            | •                     | •              | -               | •    |          | •            | •                     | •              | •               | -    |          |
| •            | •                     | •              | -               | -    |          |              | •                     | •              | -               | -    |          |

HOLE NUMBER: 89-266

ANGLE ROCK FROM MINERALIZATION TYPE TEXTURE AND STRUCTURE TO CA ALTERATION REMARKS TO «ΩB» 0.00 10 22.11 5% disseminated, laminated and stringer Moderate developed chlorite on 22.11 **Andesite** Colour: Light to medium green Ash to Grain Size: Fine grained foliation planes fine to medium grained pyrite TO 26.00 Lithic Tuff MAND ASH Moderate bedded, moderately foliated LITH TUFF= 3-5% felsic granules to 2mm Interval is very equigranular 23.95 - 23.98m Fault, gouge 72 25.70 - 25.77m Fault 40 25.77 · 25.87m Quartz Vein 2-3% stringer medium to coarse grained Locally strongly bleached, moderate 26.00 Intermed. Colour: Light grey green pyrite Grain Size: Fine grained developed sericite and chlorite on to Ash 28.35 al ASH» foliation planes Moderately bedded, moderate to strongly foliated Rare quartz eyes or felsic granules to 2mm Very Equigranular 25 26.42m CAF 26.42 - 27.23m Intensely bleached 27.87 - 28.35m 20% coarse grained pyrite stringers 1% medium to coarse grained stringer 28.35 | Quartz Colour: Light grey Moderately to locally well developed pyrite, rare trace chalcopyrite TO I PORMARY Grain Size: fine to medium grained sericite on foliation planes 96.80 | Felsic Tuff WOP TUFF» Thick bedded, moderate to well foliated 3% quartz eyes, <1mm to 4mm Locally 1% clay altered feldspar crystals to 0.5mm 41.28 - 41.42m Diorite Dyke 51.83 - 53.94m Fault, abundant gouge seams 75.00 - 55.16m Fault, abundant gouge 58.00m CAF 20 59.80 - 60.00m 10% pyrite, 1% chalcopyrite, medium to coarse grained

HOLE NUMBER: 89-266 DR

:OLE NUMBER: 89-266

| FROM                  | ROCK                    | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                        | ANGLE    |                                                                                                      | MINERALIZATION                                                   | REMARKS                                           |
|-----------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------|
|                       | TYPE                    | 61.00 - 61.87m Locally strongly sheared                                                                                                                                                                                                                                                      |          | ·                                                                                                    | stringer                                                         |                                                   |
|                       |                         | 63.80 - 64.31m Locally strongly sheared                                                                                                                                                                                                                                                      |          |                                                                                                      |                                                                  | ·                                                 |
|                       |                         | 65.10 - 66.70m Abundant quartz veining                                                                                                                                                                                                                                                       |          | 65.10 - 66.70m Local weak epidote                                                                    | 65.10 - 66.70m 3-5% medium to coarse                             |                                                   |
|                       |                         | 70.46m CAF                                                                                                                                                                                                                                                                                   | 20       | alteration, patchy                                                                                   | grained pyrite stringers                                         |                                                   |
|                       |                         | 77,90 - 78,90m Felsic ash to fine grained tuff                                                                                                                                                                                                                                               |          |                                                                                                      | 77.90 - 78.90m <1% fine grained pyrite                           |                                                   |
|                       |                         | 78.90 - 79.99m Andesite ash                                                                                                                                                                                                                                                                  | ļ        |                                                                                                      | 78.90 - 79.99m 3-5% fine grained pyrite                          |                                                   |
|                       |                         | 80.48 - 80.50m Fault                                                                                                                                                                                                                                                                         | 20       |                                                                                                      |                                                                  |                                                   |
|                       |                         |                                                                                                                                                                                                                                                                                              |          | 87,80 - 96,80m Locally strongly calcareous                                                           |                                                                  |                                                   |
| 96.80<br>TO<br>102.10 | Fetsic Tuff<br>«F TUFF» | Colour: Light to medium grey with a weak green cast<br>Grain Size: Medium grained                                                                                                                                                                                                            |          | Patchy silica alteration                                                                             | Trace disseminated pyrite                                        |                                                   |
|                       |                         | Thick bedded, moderate foliated<br>May contain 1-2% clay altered feldspars to 0.5mm                                                                                                                                                                                                          |          |                                                                                                      | ·                                                                |                                                   |
|                       |                         | 97.53 - 97.80m Fault, abundant gouge                                                                                                                                                                                                                                                         | 10       |                                                                                                      | ł                                                                |                                                   |
|                       |                         | 98.40 - 98.75m Fault, abundant gouge                                                                                                                                                                                                                                                         |          |                                                                                                      |                                                                  |                                                   |
| 102.10                | Felsic Tuff<br>of TUFF  | Colour: Medium grey<br>Grain Size: Medium grained                                                                                                                                                                                                                                            |          | Weak sericite development on foliation<br>surfaces; felsic fragments bleached<br>white and siliceous | 2-3% disseminated, patchy and stringers of medium grained pyrite | Local minor dioritic inclusions<br>generally <5cm |
| 131.20                |                         | Thick bedded; moderately foliated 1% fetsic granules to 2mm Rare fetsic fragments to 1cm, may contain 2-3% clay altered fedtspar crystals to 0.5mm                                                                                                                                           |          |                                                                                                      |                                                                  |                                                   |
|                       |                         | 108.20' - 104.60m Fault, strongly sheared<br>105.04 - 105.70m Fault, strongly sheared<br>105.76 - 105.80m Possible ash interval<br>105.90 - 107.16m Fault, strongly sheared,<br>abundant gouge<br>107.44 - 107.54m Fault, abundant gouge<br>109.23 - 110.00m Fault, abundant gouge, strongly | 20<br>40 |                                                                                                      |                                                                  | ·                                                 |

DATE: 15-December-1989

sneared

DLE NUMBER: 89-266

HOLE NUMBER: 89-266

ANGLE FROM ROCK TO CA **ALTERATION MINERALIZATION** REMARKS TO TYPE TEXTURE AND STRUCTURE 112,25 - 112,34m Fault, abundant gouge 114.60-119.70 -DIORITE> 114.60 - 119.70m Strongly calcareous Fine to medium grained, numberous quartz carbonate veins; contains screens of felsic material 117.13 - 118.56m Fault, abundant gouge and strongly sheared rock 119.50 - 119.70m Strongly sheared 120.25 - 120.40m Strongly sheared 121.35 - 121.50m Fault 07 122.02 - 122.90m 90% Diorite 122.90 - 123.65m fault, abundant gouge, very poor recovery 124.65 - 124.70m Sheared 125.03 - 125.30m Fault, abundant gouge 125.30 - 125.60m Andesite Lithic Tuff 125.60 - 126.30m Disseminated, patchy 125.60 - 126.30m Contains a strong mafic component, may have contained 15-20% dark green stringery pyrite andesitic fragments that are now flattened parallel to foliation 125.95m CAF 35 126.10 - 126.20m Fault, gouge 18 126.53 - 126.70m Fault, gouge 71 75 130.73 - 130.97m Fault, abundant gouge 130.20 - 130.43m Diorite 130.50 - 131.20m 2-3% disseminated, 130.50 - 131.20m Weakly calcareous, 130.50 - 131.20m Possible andesite ash to lithic patchy medium grained pyrite well developed chlorite on foliation tuff planes 131.20 «DIORITE» Colour: Medium to dark green Strongly calcareous, well developed TO Grain Size: Fine to medium grained chlorite on foliation planes 159.70 Thick, weak to moderately foliated Feldspar porphyritic Minor quartz veining 138.10 - 138.30m Trace coarse grained 138.10 - 138.30m Quartz vein

LOGGED BY: John Kapusta

DATE: 15-December-1989

chalcopyrite

:OLE NUMBER: 89-266

HOLE NUMBER: 89-266

| FROM<br>TO             | ROCK<br>TYPE                                                                   | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ANGLE<br>TO CA | ALTERATION                                        | MINERALIZATION                                                                                                                              | REMARKS |
|------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 159.70<br>TO<br>179.22 | Andesite<br>Crystal<br>Lithic to<br>Labit(i<br>Tuff<br>«AMD LITH-<br>LAP TUFF» | Colour: Medium to dark green Grain Size: Medium to coarse grained  Thick bedded, weak to moderately foliated 5-7% white to ghosty to epidote altered feldspar crystals to 1mm 2-3% quartz granuales to 2mm 10% medium to dark green lithic fragments? or crystals to 2mm 5% epidote altered fragments 2mm to 5cm, generally subangular to subrounded Minor quartz carbonate microveins                                                                                    |                | Moderately developed chlorite on foliation planes | Trace disseminated pyrite                                                                                                                   |         |
| 179.22<br>TO<br>200.64 | Andesite<br>Crystal<br>Lithic Tuff<br>«AND TUFF»                               | Colour: Hedium to dark green Grain Size: Medium grained  Thick bedded, moderately foliated 5-7% ghosty to epidote altered feldspar crystals to Imm 5% medium to dark green lithic fragment and or crystals to 2mm 3-5% quartz grains to 3mm  193.80 - 193.85m Fault, gouge 194.10 - 194.20m Fault, gouge and intensely sheared 198.20 - 198.30m Felsic Tuff, fragment7 197.55 - 197.60m Fault, gouge 197.90 - 197.93m Fault, gouge 200.40 - 200.64m Fault, abundant gouge | 80<br>30       | Weakly developed chlorite on foliation surfaces   | 0.5 - 1% disseminated pyrite, rare trace disseminated chalcopyrite  198.20 - 198.30m 2-5% very fine grained pyrite                          |         |
| 200.64<br>10<br>211.03 | Andesite<br>Lithic Tuff<br>«AND LITH<br>TUFF»                                  | Colour: Medium to dark green Grain Size: Medium grained  Thick bedded, moderately foliated 3-5% ghosty to white to weakly epidote altered feldspar crystals to 1mm 3-5% quartz grains to 2mm  203.58 - 203.66m Fault, gouge 210.61 - 210.69m Fault, gouge                                                                                                                                                                                                                 | 48<br>40<br>65 | Weakly developed chlorite on foliation planes     | 1% disseminated fine grained pyrite, trace disseminated chalcopyrite  211.01 - 211.03m Abundant pyrite, 10%, smeared parallel to foliations |         |

PAGE: 5

DATE: 15-December-1989

LOGGED BY: John Kepusta

OLE NUMBER: 89-266

ANGLE FROM ROCK ALTERATION **MINERALIZATION** REMARKS TYPE TEXTURE AND STRUCTURE ITO CA TO Colour: White Bleached white, well developed sericite | 1-2% disseminated, patchy and stringer 211.03 Quartz Grain Size: Fine grained on foliation planes medium grained pyrite Porphyry 214.40 Tuff «QP TUFF» Thick bedded, moderate to strongly foliated May contain 2-3% quartz eyes to 0.5mm 1-2% desseminated patchy to stringers 214.40 Andesite Colour: Medium green Moderately developed chlorite on of medium grained pyrite foliation surfaces Grain Size: Fine grained «AND ASH» 216.35 Thinly bedded, moderately foliated A sequence of predominately andesite ash with interpeds of andesitic lithic tuff 214.76 - 214.30m Gault, gouge 60 216.30 - 216.35m Fault, gouge 70 216.35 Feldspar Colour: Light grey, weak green cast Moderately developed sericite on 1% disseminated, patches and stringers foliation surfaces, minor chlorite Porphyry Grain Size: fine to medium grained Felsic Tuff 220.00 developed afP TUFF= Moderately bedded, moderately foliated 3-5% white to ghosty to epidote altered feldsper crystals to 0.5mm 219.46 - 220.00m Much more intermediate in nature possible mixing from lower Andesite Andesite 1-2% disseminated to patchy fine to 220.00 Colour: Light to medium green Moderately developed chlorite on medium grained pyrite, rare trace Crystal Grain Size: fine to medium grained foliation surfaces chalcopyrite in unit and quartz veins Lithic Tuff 226.16 «AND TUFF» Moderately bedded, moderate to well foliated 3% white to ghosty to weakly epidote altered feldsper crystals to 1mm 3-5% quartz granuales to 0.5mm <1% epidote attered lithic fragments to 2mm Minor quartz veins 220,00 - 220,41m Abundant smeared 220.00 - 220.41m Sheared sulphides, trace chalcopyrite 223.00 - 223.40m 1-2% pyrite 223.00 - 223.40m Felsic to intermediate OP

LOGGED BY: John Kapusta

PAGE:

DATE: 15-December-1989

E.O.H.

interbed

HOLE NUMBER: 89-266

ASSAY SHEET

| Sample       | From<br>(m)     | To<br>(m)      | Length<br>(m) | ESTIMA<br>GCU<br>ppm | GPb<br>ppm | GZn<br>ppm | GAg<br>ppm | GAu<br>ppb | ASSAYS<br>GBa<br>ppm | Cu<br>%     | Pb<br>% | 2n<br>% | lAg<br>oz/t | Ag<br>g/t | IAU<br>oz/t | GEOCHI<br>Au<br>g/t | SG<br>SG | NSR  <br>NSR | SUL X |     | COMMENTS |
|--------------|-----------------|----------------|---------------|----------------------|------------|------------|------------|------------|----------------------|-------------|---------|---------|-------------|-----------|-------------|---------------------|----------|--------------|-------|-----|----------|
| 3437         | 22.11           | 23.95          | 1.84          | 75                   | 17         | 72         | 0.9        | 1          | 800                  |             |         |         |             |           |             |                     |          |              |       |     |          |
| 3438<br>3439 | 23.95<br>26.00  | 26.00<br>27.23 | 2.05<br>1.23  | 50<br>12             | 15<br>8    | 80<br>18   | 0.9<br>0.7 | 20<br>15   | 1270  <br>2500       |             |         |         |             |           |             |                     |          | 1            |       |     |          |
| 3440         | 27.23           | 28.35          | 1.12          | 31                   | 28         | 56         | 1.1        | 40         | 1120                 |             |         |         |             |           |             |                     |          | -            |       |     |          |
| 3441         | 28.35           | 29.91          | 1.56          | 11                   | 7          | 39         | 0.5        | 13         | 2340                 |             |         |         |             |           |             |                     |          | ı            |       |     |          |
| 3442         | 32.15           | 34.65          | 2.50          | 102                  | 9          | 38         | <b>Q.6</b> | 21         | 2230                 |             |         |         |             |           |             |                     |          | 1            |       | ļi. |          |
| 3443         | 65.10           | 66.70          | 1.60          | 20                   | 9          | 16         | 0.4        | 18         | 2800                 | ا . ا . ا   | ١_      |         |             |           |             |                     |          | - 1          |       |     |          |
| 3444         | 78.90<br>211.03 | 79.99          | 1.09          | 17<br>43             | 15         | 74         | 0.8<br>0.3 | 13         | 2130                 | Andeside Os | אי      |         |             |           |             |                     |          |              |       |     |          |
| 3445<br>3446 | 212.89          |                | 1.86          | 33                   | 7          | ý          | 0.4        | 7          | 2500                 | ,           |         |         |             |           |             |                     |          |              |       |     |          |
| 3447         | 214.40          | 216.35         | 1.95          | 150                  | 17         | 53         | 1          | 22         | 1610                 |             |         |         |             |           |             |                     |          | 1            | ļ     |     |          |
| 3448         | 216.35          |                | 2.04          | 36                   | 9          | 18         | 0.4        | 14         | 2020                 |             |         |         |             |           |             |                     |          | 1            |       |     |          |
| 3,449        | 218.39          | 220.00         | 1.61          | 22                   | 17         | 54         | 0.8        | 4          | 760                  |             |         |         |             |           |             |                     |          | ı            |       |     |          |

| LE NUME | NUMBER: 89-266 GEOCHEM. SHEET |           |               |       |         |          |       |      |          |      |      |       |            |         | DATE: 15-December-1989 |        |      |          |       |      |              |      |                      |    |           |            |
|---------|-------------------------------|-----------|---------------|-------|---------|----------|-------|------|----------|------|------|-------|------------|---------|------------------------|--------|------|----------|-------|------|--------------|------|----------------------|----|-----------|------------|
| ample   | From<br>(m)                   | To<br>(m) | Length<br>(m) | A1203 | 8a<br>% | CaO<br>X | Fe203 | K20  | HgO<br>X | HnO2 | Na20 | P 205 | \$102<br>% | Sr<br>X | T i 02                 | 2r<br> | S    | Tot<br>X | Ag    | As i | a-ppm<br>ppm | Cu   | Pb<br><del>ppm</del> | Sb | Zn<br>ppm | Au<br>ppb. |
| å37     | 22,11                         | 23.95     | 1.84          | 15.63 | 0.055   | 1.08     | 11.26 | 1.73 | 7.01     | 0.21 | 2.52 | 0.22  | 52.48.     |         | 0.58                   | •      | 4.5  | 97,29    | 1.1   | 1    | 71           | · 76 | 71                   | 1  | 101       | 10         |
| 364     | 45.11                         | 48.11     | 3.00          | 13.53 | 0.14    | 0.9      | 3.79  | 2.58 | 2.97     | 0.11 | 0.46 | 0.11  | 70.67      |         | 0.3                    |        | 1.42 | 96.98    | . 0.3 | f    | 136          | .8   | 34                   | 1  | 71        | 5          |
| 65      | 72,80                         | 73.80     | 1.00          | 12.38 | 0.18    | 1.02     | 3.16  | 1.83 | 2.86     | 0.08 | 0.93 | å.11  | 73.05      |         | 0.23                   |        | 1.3  | 97.13    | 0.5   | -1   | 173          | 3    | 23                   | 1  | 44        | 5          |
| 56      | 102.10                        | 104.00    | 1.90          | 13.18 | 0.165   | 0.4      | 4.28  | 2.05 | 2.06     | 0.05 | 202  | 0.1   | 71.18      |         | 0.31                   |        | 1.64 | 97.43    | 0.1   | 3    | . 145        | . 8  | 22                   | .1 | 31        | 5          |
| 67      | 127.40                        | 130.40    | 3.00          | 13.76 | 0.15    | 0.6      | 4.01  | 1.84 | 2.64     | 0.06 | 2.01 | 0.11  | 70.47      |         | 0.33                   | •      | 1.32 | 97.31    | 0.3   | 1    | 128          | 3    | 24                   | 1  | 32        | 5          |
| 8       | 154.22                        | 157.22    | 3.00          | 12.79 | 0.01    | 10.01    | 11.03 | 0.01 | 5.91     | 0.21 | 2.06 | 0.42  | 42.49      | •       | 1.59                   |        | 0.02 | 86.54    | 0.7   | 1    | 14           | 126  | 47                   | 2  | 124       | 5          |
| ۵9      | 185.92                        | 188.92    | 3.00          | 16.73 | 0.045   | 2.03     | 9.4   | 0.24 | 6.11     | 0.22 | 3.58 | 0.24  | 54.81      |         | 0.61                   |        | 0.78 | 94.79    | 0.4   | 1    | 41           | 16   | 54                   | 2  | 92 -      | 5          |
| 45      | 211.03                        | 212.89    | 1.86          | 13.79 | 0.19    | 0.31     | 2.5   | 4.12 | 0.75     | 0.01 | 0.26 | 0.09  | 74.39      |         | 0.16                   |        | 1.16 | 97.73    | 0.2   | 5    | 185          | 40   | 6                    | 1  | 6         | 5          |
| 70      | 22/ 77                        | 224 14    |               |       |         |          |       |      |          |      |      |       |            |         |                        |        |      |          |       |      |              |      |                      |    |           |            |

GEOCHEM. SHEET

OLE NUMBER: 80-266

Som Hapster

api, sirkuoll

PAGE:

PROJECT NAME: LARA PROJECT

PLOTTING COORDS GRID: MINE

ALTERNATE COORDS GRID:

METRIC UNITS: X

PROJECT NUMBER: 242

NORTH: 11188.00N

0+ 0 NORTH:

COLLAR DIP: -50° 0' 0" LENGTH OF THE HOLE: 252.06m

CLAIM NUMBER: FANG

HOLE NUMBER: 89-267

EAST: 5700.00W

EAST: 0+ 0 START DEPTH: 0.00m

LOCATION: NTS 928/13W

ELEV: 730.00

ELEV: 730.00 FINAL DEPTH: 252.06m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 208° 0' 0"

DATE STARTED: November 13, 1989

COLLAR SURVEY: NO

PULSE EM SURVEY: NO PLUGGED: YES CONTRACTOR: FRONTIER DRILLING LTD

IMPERIAL UNITS:

DATE COMPLETED: November 15, 1989 DATE LOGGED:

MULTISHOT SURVEY: YES ROD LOG: NO

HOLE SIZE: NO

CASING: 9.1 m

CORE STORAGE: CHEMAINUS

PURPOSE: To test barite chert horizons and VLF, IP

anomalies.

#### DIRECTIONAL DATA:

| Depth<br>(m) | Astronomic<br>Azimuth | 0ip<br>degrees |           | FLAG | Comments | Depth<br>(m) | Astronomic<br>Azimuth | Dip<br>degr <del>ees</del> | Type of<br>Test | FLAG | Connents |
|--------------|-----------------------|----------------|-----------|------|----------|--------------|-----------------------|----------------------------|-----------------|------|----------|
| 13.11        | •                     | -50° 0'        | ACID      | OK   |          | •            | •                     | •                          | •               | •    |          |
| 84.12        | •                     | -50* 01        | ACID      | OK   |          | •            | •                     | -                          | •               | •    |          |
| 166.73       | •                     | -50° 0'        | ACID      | OK   |          | •            | •                     | •                          | •               | •    |          |
| 212.45       | •                     | -51" 0'        | ACID      | OK   |          | •            | •                     | •                          | •               | •    |          |
| 247.00       | 216. 0.               | יס 51°         | SING.SHOT | ÓΚ   |          | •            | •                     | •                          | •               | •    |          |
| •            | •                     | •              | •         | •    |          | •            | •                     | •                          | •               | •    |          |
| •            | •                     | •              | •         | •    |          | -            | •                     | •                          | •               | •    |          |
| •            | •                     | •              | •         | •    |          | •            | •                     | •                          | -               | •    |          |
| •            | •                     | •              | •         | •    |          | •            | •                     | -                          | •               | •    |          |
| •.           | •                     | •              | •         | •    |          | •            | •                     | -                          | •               | •    |          |
|              | •                     | •              | •         | •    |          | -            | •                     | •                          | •               | •    |          |
| •            | •                     | •              | •         | •    |          | •            | •                     | •                          | •               | •    |          |
| •            | •                     | •              | •         | •    |          | •            | •                     | •                          | •               | •    |          |
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HOLE NUMBER: 89-267

# MINNOVA INC. DRILL HOLE RECORD

| FROM<br>TO           | ROCK<br>TYPE                                     | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                 | ANGLE<br>TO CA |                                                                                                         | MINERALIZATION                                                                    | REMARKS                                                             |
|----------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 0.00<br>TO<br>9.14   | «OB»                                             |                                                                                                                                                                                                                                                                                                       |                |                                                                                                         |                                                                                   | ·                                                                   |
| 9.14<br>TO<br>19.22  | Feldspar<br>Porphyry<br>Felsic Tuff<br>«FP TUFF» | Colour: Light grey, weak green cast Grain Size: Medium grained  Thick bedded, moderately foliated 3-5% white to ghosty to predominantly epidote altered feldspar crystals to 1.5mm Core is locally strongly sheared and rubbly  15.00 - 19.22m fault, locally intensely sheared, numerous gouge seams |                | Weak to iocally moderately well<br>developed sericite on foliation planes                               | 1% disseminated to patchy medium grained pyrite                                   | Not a well defined contact with lower unit                          |
| 19.22<br>TO<br>27.00 | Felsic Tuff<br>«F TUFF»                          | Colour: Light grey Grain Size: Fine to medium grained Thick bedded, moderately foliated Possibly 1-2% obscure looking feldspar crystals to 0.5mm  19.22 - 22.25m Very strongly sheared, abundant rubble 24.50 - 24.80m Intensely sheared 26.51 - 27.00m Core very rubbly with abundant gouge seams    |                | Bleached and weakly silicified<br>Heakly developed sericite and minor<br>chlorite on foliation surfaces | 1% disseminated, patchy and stringers of fine to medium pyrite, rare trace pyrite | May be the same interval as those above and below only more altered |
| 27.00<br>TO<br>32.00 | Feldsper<br>Porphyry<br>Felsic Tuff<br>«FP TUFF» | Colour: Light to medium grey, weak green cast Grain Size: Medium grained  Thick bedded, moderately foliated 3-5% white to ghosty to epidote altered feldspar crystals to 1.5mm  Core is extremely broken and rubbly                                                                                   |                | Weakly developed sericite and minor chlorite on foliation surfaces                                      | <1% disseminated, patchy fine grained pyrite                                      |                                                                     |

IOLE NUMBER: 89-267

DATE: 15-December-1989

| FROM<br>TO           | ROCK<br>TYPE                                     | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                                                                      | ANGLE<br>TO CA | ALTERATION                                                              | MINERALIZATION                                             | REMARKS |
|----------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------|------------------------------------------------------------|---------|
| 32.00<br>TO<br>54.55 | Felsic Tuff<br>≪F TUFF⇒                          | Colour: Medium to dark grey, weak green cast<br>Grain Size: Medium grained<br>Thick bedded, weak to moderately foliated<br>2% indistinct, clay attered feldspar crystals? to<br>0.5mm<br>Rare quartz eyes to 1mm                                                                                                                                                           |                | Very weakly developed sericite and minor chlorite on foliation surfaces | <1% disseminated, patchy fine grained pyrite               |         |
|                      |                                                  | 37.85 - 38.45m Diorite<br>42.60 - 42.80m Strongly sheared                                                                                                                                                                                                                                                                                                                  |                | 37.85 - 38.45m Strongly calcareous                                      |                                                            |         |
|                      |                                                  | 46.00-51.20 =010RITE> Fine to medium grained, feldspar porphyritic, well developed upper and lower chill margin  52.93 - 53.66m Fault, clay seam                                                                                                                                                                                                                           |                | 46.00 - 51.20m Locally strongly calcareous                              | 46.00 - 51.20m Minor magnetite                             |         |
| 54.55<br>TO<br>59.60 | Feldspar<br>Porphyry<br>Felsic Tuff<br>«FP TUFF» | Colour: Medium grey, weak green cast Grain Size: Medium grained  Thick bedded, weak to moderately foliated 1=2% felsic granuales to 1mm 5% white to ghosty to predominately epidote altered feldspar crystals to 1.5mm  51.20 - 59.10m Core broken and extremely rubbly, minor gouge seams  59.50 - 59.60m Fault, sheared with minor gouge                                 | 15             | Very weak sericite development on<br>foliation surfaces                 | Hinor disseminated to patchy fine to medium grained pyrite |         |
| 59.60<br>T0<br>72.60 | Felsic Tuff<br>«F TUFF»                          | Colour: Light grey Grain Size: Fine to medium grained  Thick bedded, moderately foliated Possibly 1% indistinct feldspar crystals to 0.5mm Possibly 1-2% quartz eyes or quartz granuales to 1mm Minor <1% medium green lithic fragments to 1mm, these are generally flattened parallel to foliation  69.70 - 72.60m Core very broken and rubbly 72.50 - 72.60m Quartz vein |                | Weakly developed sericite and minor<br>chlorite on foliation planes     | Hinor Pyrite                                               |         |

DRILL HOLE RECORD

HOLE NUMBER: 89-267

FROM ROCK ANGLE TO CA **ALTERATION MINERALIZATION** REMARKS TO TYPE TEXTURE AND STRUCTURE Weakly developed sericite on foliation <1% disseminated patchy fine to medium 72.60 Andesite Colour: Medium green Lithic to grained pyrite Grain Size: Medium to coarse grained 76.10 Weak pervasive epidote alteration Lapilli Tuff Thick bedded, moderately foliated WAND LITH, 2-3% light green epidote altered lithic fragments LAP TUFF» 1mm to ómma 1-2% 6mm to 4cm, <1% light to dark grey felsic fragments to 2cm 72.60 - 72.90m Strongly sheared, minor gouge 76.10 Feidspar Local intense patchy silicification Trace disseminated pyrite Core proken and generally rubbly Colour: Medium grey Porphyry Weakly developed sericite and minor 70 Grain Size: Medium grained throughout ٤5.70 Felsic Tuff chlorite on foliation surfaces «FP TUFF» Thick bedded, weakly foliated 3-5% light green epidote altered feldspar crystals <1% light green epidote altered lithic fragments 2mm - 1.5cm Andesi te Trace disseminated to patchy fine to Core locally broken and rubbly Colour: Light to medium green Weak pervasive silica alteration TO Lithic to Moderately developed chlorite on medium grained pyrite Grain Size: Medium to coarse grained 87.91 Lapilli foliation surfaces Tuff Thick bedded, weakly foliated MAND LITH, 1-2% epidote altered feldspar crystals to 0.5mm 2-3% epidote altered lithic fragments 2-6mm, <1% LAP TUFF» όππ to 3cm 87.70m CAF 28 87.20 - 87.91m Possible diorite or fine grained andesite lithic tuff intermed. Trace disseminated to patchy fine to Colour: Medium grey green Weak pervasive silica alteration Lithic Tuff Grain Size: Medium to coarse grained medium grained pyrite 92.57 «I LITH **TUFF»** Thick bedded, weak to moderately foliated 2% epidote altered feldspar crystals to 0.5mm 3-5% siliceous granuales to 1mm 1% light green epidote altered lithic fragments 90.70 - 92.57m 1-2% disseminated 2mm to 1cm patchy, fine to medium grained pyrite, also in stringers with rare trace chalcopyrite

DRILL HOLE RECORD

HOLE NUMBER: 89-267

HOLE NUMBER: 89-267

| FROM<br>TO             | ROCK<br>TYPE                                                                   | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                                                                                    | ANGLE<br>TO CA             | ALTERATION                                                                                                                     | MINERALIZATION                                                                                                                                                                                                                 | REMARKS |
|------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 92.57<br>10<br>99.36   | Felsic Tuff<br>af TUFF»                                                        | Colour: Light to medium grey Grain Size: Fine to medium grained  Thick bedded, weak to moderately foliated May contain 1% indistinct feldsper crystals to 0.5mm  93.10 - 93.20m Sheared, minor gouge  93.50m CAF  96.62 - 97.18m Minor mixing of andesitic lithic tuff  97.18m CAB7  98.23 - 98.30m Fault 98.46 - 98.50m Fault 99.20 - 99.36m Strongly sheared quartz veins, minor gouge | 40<br>35<br>85<br>90<br>60 | Weakly developed sericite on foliation planes, locally bleached                                                                | 92.57 - 93.10m 5% medium to coarse grained pyrite, in stringers, rare trace chalcopyrite  93.10 - 96.62m <1% disseminated patchy and rare stringers of fine to medium grained pyrite  97.18 - 99.36m Trace disseminated pyrite |         |
| 99.36<br>TO<br>105.45  | Andesite<br>Crystal<br>Lithic to<br>Lapilli<br>Tuff<br>«AND LITH,<br>LAP TUFF» | Colour: Medium to dark green Grain Size: Medium to coarse grained  Thick bedded, locally massive, weak to moderately foliated 5-7% epidote altered feldspar crystals to 1.5mm 5% light green epidote altered lithic fragments 2-6mm, 2-3% 6mm to 3cm Local felsic granuales to 4mm  105.27m CAF                                                                                          | 40                         | Weakly developed chlorite on foliation surfaces                                                                                | Trace disseminated pyrite                                                                                                                                                                                                      | ·       |
| 105.45<br>10<br>210.35 | Andesite<br>Lithic Tuff<br>≪AND LITH<br>TUFF⇒                                  | Colour: Light to medium green Grain Size: Fine to medium grained  Thick bedded, massive, weak to moderately foliated 2-3% epidote altered feldspar crystal to 1mm, also white to ghosty 1-2% felsic granuales to 2mm                                                                                                                                                                     |                            | Weak to moderately well developed<br>chlorite on foliation surfaces<br>Between 105.45 - 108.40m interval is<br>weakly bleached | Trace to 0.5% disseminated pyrite, rare<br>stringers                                                                                                                                                                           |         |

DRILL HOLE RECORD

HOLE NUMBER: 89-267

# MINNOVA INC. DRILL HOLE RECORD

DATE: 15-December-1989

| 1065 4010  | CK: 07-201   |                                                                                                                                                                                    |                | DRIEL BULL RECORD                                         | 4                                                                                                            | DATE: 13 DECEMBET 1707                                                         |
|------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| FROM<br>TO | ROCK<br>TYPE | TEXTURE AND STRUCTURE                                                                                                                                                              | ANGLE<br>TO CA |                                                           | MINERALIZATION                                                                                               | REMARKS                                                                        |
|            |              | 3-5% altered lithic fragments to 3mm<br>3-5% medium to dark green lithic fragments to 2mm<br>Locally fine grained lithic to ashy sections                                          |                |                                                           |                                                                                                              |                                                                                |
|            |              | 106.40 - 106.45m Fault                                                                                                                                                             | 80             |                                                           |                                                                                                              |                                                                                |
|            |              | 111.75 - 136.55m 1% light green epidote altered lithic fragments to 3cm                                                                                                            |                |                                                           | 117.77 - 117.78m Chalcopyrite stringer                                                                       |                                                                                |
|            |              | 120.95 - 121.00m Fault, gouge                                                                                                                                                      |                |                                                           | 111.11 - 111.10m chatcopyrice stringer                                                                       |                                                                                |
|            |              | 126.00 - 127.95m 90% quartz veins, locally sheared with minor gouge                                                                                                                | <u> </u>       |                                                           |                                                                                                              |                                                                                |
|            |              | 128.40 - 128.65m Fault<br>134.00 - 136.20m Abundant gouge seams, locally<br>sheared, 30 - 90 degrees                                                                               | 15             |                                                           |                                                                                                              |                                                                                |
|            |              | 137.50m CAF                                                                                                                                                                        | 50             |                                                           |                                                                                                              |                                                                                |
|            |              | 141.52 - 143.05m Andesite Ash                                                                                                                                                      |                |                                                           | 141.52 - 143.05m Locally 1-2% fine grained disseminated pyrite                                               |                                                                                |
|            |              | 146.20 - 146.35m Fault, abundant gouge<br>149.10m CAF                                                                                                                              | 37             |                                                           | granico diascaniotes pyrite                                                                                  |                                                                                |
|            |              | 150.94 - 158.20m 1-2% light green epidote altered lithic fragments to 4cm                                                                                                          |                |                                                           |                                                                                                              |                                                                                |
| 1          |              | 162.70m CAF                                                                                                                                                                        | 40             |                                                           |                                                                                                              |                                                                                |
|            |              | 164.78 - 169.74m Felsic Tuff? Medium grey green,<br>massive, weakly foliated, 1% ghosty to epidote<br>altered feldspars to 1mm, minor epidote altered<br>lithic fragments to 1.5cm |                | 164.78 - 169.74m Locally intensely silicified             | 164.78 - 169.74m Locally 1-2% fine to<br>medium grained pyrite, stringers in<br>upper 1m, trace pyrite below | 164.78 - 169.74m Possible a silicifie<br>andesite, contacts are not very sharp |
|            |              | 165.63 - 165.67m Fault, gouge                                                                                                                                                      | 60             |                                                           |                                                                                                              |                                                                                |
|            |              | 169.74 - 174.30m 1% light green epidote altered lithic fragments to 4cm                                                                                                            |                |                                                           |                                                                                                              |                                                                                |
|            |              | 169.81m CAF                                                                                                                                                                        | 35             | 404 OF 402 30- 1-2                                        |                                                                                                              |                                                                                |
|            |              | 182.20 - 183.61m 75% quartz vein                                                                                                                                                   |                | 181.25 - 182.20m Intesely bleached,<br>locally silicified | 182.20 - 183.61m 5-10% magnetite,<br>trace chalcopyrite                                                      |                                                                                |
|            |              | 183.61 - 184.10m 5% quartz veins                                                                                                                                                   |                | ,                                                         | 183.61 - 184.10m 5% magnetite, 3-5% pyrite, minor chalcopyrite                                               | •                                                                              |

DRILL HOLE RECORD

NOLE NUMBER: 89-267

MOLE NUMBER: 89-267

| FROM<br>TO             | ROCK<br>TYPE            | TEXTURE AND STRUCTURE                                                                                                                                                                                                  | ANGLE<br>TO CA |                                                                                                                | MINERALIZATION                                                                                                                                                    | REMARKS                                                                       |
|------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                        |                         | 185.90 - 188.00m 3-5% light green epidote altered lithic fragments to 7cm  189.90 - 192.10m 85% quartz veins  194.75 - 199.50m 1-2% light green epidote altered lithic fragments to 5cm  210.25 - 210.35m Fault, gouge | 30             | 184.10 - 185.90m Locally bleached and silicified, patchy  188.00 - 189.90m Patchy bleaching and silicification | 189.90 - 192.10m Minor pyrite 192.10 - 193.65m 3% coarse grained pyrite stringers 193.65 - 194.75m 30% coarse grained pyrite, stringers to 18cm of massive pyrite | 188.00 - 189.90m Alteration gives the interval a coarse fragmental appearance |
| 210.35<br>TO<br>220.23 | «OIORITE»               | Colour: Dark green Grain Size: Fine to medium grained Thick, massive, weak to moderately foliated 1-2% quartz carbonate veins to microveins 219.67 - 220.23m Fault, healed Interval has been brecciated and healed     |                | Hematite staining on fracture surfaces                                                                         | Trace chalcopyrite in quartz carbonate veins                                                                                                                      |                                                                               |
| 220.23<br>10<br>221.74 | Felsic Tuff<br>«F TUFF» | Colour: Medium grey green Grain Size: Medium grained Interval is a brecciated fault structure that has been healed, very fragmental in appearance                                                                      |                |                                                                                                                | Minor pyrite                                                                                                                                                      |                                                                               |
| 221.74<br>10<br>223.35 | «FAULT»                 | Colour: Medium green<br>Grain Size: Coarse grained<br>Interval is a brecciated zone containing fragments<br>of diorite and felsic tuff, that has been healed                                                           |                |                                                                                                                | Minor pyrite, trace chalcopyrite                                                                                                                                  |                                                                               |
| 223.35<br>TO<br>225.21 | Felsic Tuff<br>«F TUFF» | Colour: Medium grey, weak green cast<br>Grain Size: Medium grained<br>Interval is a healed fault structure<br>Intensely sheared, abundant milled sections<br>containing smeared sulphides<br>Local gougy sections      | 23             |                                                                                                                |                                                                                                                                                                   |                                                                               |

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| HOLL HOT               | BER: 07-201                                    |                                                                                                                                                                                                                                                                                                                                  |                      | DRIEL HOLL RECORD                                 |                                                                                                         | DATE: 13-DECEMBET 1707                                             |
|------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| FROM<br>TO             | ROCK<br>TYPE                                   | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                            | ANGLE<br>TO CA       |                                                   | MINERALIZATION                                                                                          | REMARKS                                                            |
| 225.21<br>TO<br>229.78 | Felsic Tuff<br>«F TUFF»                        | Colour: Light grey Grain Size: Fine grained  Thick bedded, moderately foliated Minor quartz eyes <1mm Minor feldspars, clay altered to 0.5mm  226.90m CAF 228.40m CAF 229.78m CAB                                                                                                                                                | 15<br>00<br>10       | Moderately developed sericite on foliation planes | 2-3% pyrite stringers with minor sphalerite, chalcopyrite, and galena                                   |                                                                    |
| 229.78<br>10<br>233.73 | Quartz<br>Porphyry<br>Felsic Tuff<br>«QP TUFF» | Colour: Light to medium grey, weak green cast Grain Size: Medium grained  Thick bedded, moderate to strongly foliated 3-5% quartz eyes to 8mm Possibly 1-2% clay altered feldsper crystals to 0.5mm  229.94m Thrust fault, C-S Fabric 230.85m CAF  231.86 - 231.87m Fault, gouge  233.72 - 233.73m Fault, black gouge, mylonitic | 50<br>02<br>25<br>15 | Weak sericite development of foliation planes     | 1% pyrite, disseminated and as<br>stringers. These contain minor<br>sphalerite, chalcopyrite and galena |                                                                    |
| 233.73<br>10<br>236.52 | «DIORITE»                                      | Colour: Medium green Grain Size: Fine grained  Thick, weakly foliated Very equigranular Minor quartz carbonate veins Contains fragments of felsic material                                                                                                                                                                       |                      | Locally strongly calcareous                       |                                                                                                         |                                                                    |
| 236.52<br>TO<br>248.80 | Felsic Ash,<br>Chert<br>«F ASH,CHT»            | Colour: Light to medium grey Grain Size: Very fine grained  Very thin to thinly bedded, weakly foliated Interbedded sequence of very fine grained felsic to intermediate ash and chert  236.44 - 237.53m Shear, intensely sheared, minor                                                                                         |                      |                                                   | 1% to locally 5% very finely interbedded pyrite, locally with sphalerite, minor chalcopyrite and galena | Exhalited<br>Interval contains numerous minor shears<br>and faults |

HOLE NUMBER: 89-267

DATE: 15-December-1989

| FROM<br>TO | ROCK<br>TYPE | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                          | ANGLE<br>TO CA                                                                                                                                                                               | ALTERATION                                                  | MINERALIZATION | REMARKS  |
|------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------|----------|
|            | TTPE         | gouge zones  CAB at 237.08m 238.18 238.65 238.87 238.99 239.47 239.65 240.00 240.31 240.75 241.05 241.48 241.72 242.06 242.90 243.20 243.45 243.97 244.05 244.13 244.68 244.67 244.85 245.65 245.67 246.00 246.19                                                                                              | 70<br>43<br>54<br>30<br>45<br>46<br>40<br>20<br>40<br>28<br>14<br>25<br>15<br>20<br>26<br>25<br>30<br>40<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 | ALTERATION                                                  | PINERALIZATION | REPLANTS |
| -          |              | 246.98  247.04 - 248.32m Abundant minor shearing Bedding generally 000 to 010 degrees  248.31 - 248.32m Very tight fault, bedding is truncated by fault  248.32 - 248.80m Andesite Ash? Possible fine grained diorite, moderate to well foliated, minor quartz carbonate veining  248.79 - 248.80m Tight fault | 60                                                                                                                                                                                           | 258.32 - 248.80m Moderate to locally<br>strongly calcareous | ·              |          |

HOLE NUMBER: 89-267

LOGGED BY: John Kapusta

IOLE NUMBER: 89-267

| FROM<br>TO             | ROCK<br>TYPE                            | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                                             | ANGLE<br>TO CA |                                               | MINERALIZATION                                 | REMARKS                                                                           |
|------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------|
| 248.80<br>10<br>252.06 | Quartz Porphyry Felsic Tuff    GP TUFF» | Colour: Medium grey, weak green cast Grain Size: Medium to coarse grained  Thick bedded, moderate to strongly foliated Interval is moderately to strongly sheared 5-10% quartz eyes to 8mm 3% medium green lithic fragments to 2mm Interval is very granular in appearance Lithic Tuff  249.80 - 249.81m Tight fault 249.90 - 249.91m Tight fault | 52<br>35       | Poorly developed sericite on foliation planes | 0.5 - 1% disseminated pyrite, trace sphalerite |                                                                                   |
|                        | E.O.H.                                  | 249.92 - 250.10m Quartz vein  250.58 - 250.75m Dyke, brownish grey, looks like a tuff  251.60 - 252.06m Diorite? with felsic ash fragments                                                                                                                                                                                                        |                |                                               |                                                | 250.58 - 250.75m Very similar to<br>dykes found in the Coronation Zone<br>Horizon |

DRILL HOLE RECORD

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ASSAY SHEET

| Sample                                    | From<br>(m)                                    | To<br>(m)                  | Length<br>(m)                        | ESTIMA<br>GCu<br>ppm           | GPb<br>ppm                     | GZn<br>ppm                      | GAg<br>ppm                      | GAu<br>ppb | ASSAYS<br>GBa<br>ppm                 | Cu<br>X | Pb<br>% | Zn<br>X | iAg<br>oz/t | Ag<br>g/t | IAu<br>oz/t | GEOCHE<br>Au<br>g/t | MICAL<br>SG<br>SG | NSR<br>NSR | SUL X | COMMENTS |
|-------------------------------------------|------------------------------------------------|----------------------------|--------------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|------------|--------------------------------------|---------|---------|---------|-------------|-----------|-------------|---------------------|-------------------|------------|-------|----------|
| 13450<br>13501<br>13502<br>13503<br>13504 | 141.52<br>182.20<br>182.81<br>183.61<br>189.90 | 182.81<br>183.61           |                                      | 78<br>176<br>150<br>726<br>62  | 10<br>12<br>18<br>10<br>8      | 26<br>140<br>98<br>24<br>22     | 0.4<br>0.8<br>1<br>1.2<br>0.5   | 11         | 2610<br>530<br>400<br>1440<br>2570   |         |         |         |             | 1         |             |                     |                   |            |       |          |
| 13505<br>13506<br>13507<br>13508<br>13509 | 193.65<br>221.74<br>223.35                     | 223.35                     | 1.55<br>1.10<br>1.61<br>1.86<br>1.32 | 93<br>432<br>244<br>403<br>250 | 22<br>23<br>19<br>20<br>223    | 85<br>40<br>256<br>380<br>1320  | 1.4<br>1.6<br>1.2<br>1          |            | 4290<br>2600<br>1030<br>1450<br>1270 |         |         |         |             |           |             |                     |                   |            |       |          |
| 13510<br>13511<br>13512<br>13513<br>13514 | 227.90<br>228.92<br>229.78                     | 229.78<br>230.61           | 1.37<br>1.02<br>0.86<br>0.83<br>1.39 | 32<br>25<br>51<br>46<br>30     | 151<br>140<br>295<br>120<br>15 | 171<br>146<br>325<br>158<br>65  | 0.9<br>1<br>3.4<br>0.8<br>0.4   |            | 2210<br>1880<br>2320<br>970          |         |         |         |             |           |             |                     |                   |            |       |          |
| 13515<br>13516<br>13517<br>13518<br>13519 |                                                | 239.14                     | 1.73<br>1.61<br>1.52<br>1.31<br>1.81 | 72<br>80<br>87<br>91<br>80     | 110<br>21<br>23<br>39<br>25    | 465<br>185<br>220<br>218<br>223 | 1.1<br>0.8<br>1<br>1.2          |            | 1360<br>1300<br>1200<br>1070         |         |         |         |             |           |             |                     |                   |            |       |          |
| 13520<br>13521<br>13522<br>13523<br>13524 | 245.96<br>247.04                               | 245.96<br>247.04<br>248.32 | 0.95<br>1.23<br>1.08<br>1.28<br>0.93 | 69<br>87<br>85<br>87<br>61     | 28<br>28<br>32<br>37<br>17     | 330<br>243<br>285<br>182<br>96  | 0.9<br>0.7<br>0.6<br>0.8<br>0.6 |            | 1190<br>1000<br>1130<br>1570         |         |         |         |             |           |             |                     |                   |            |       |          |
| 13525<br>13551                            | 249. <i>7</i> 3<br>250. <i>7</i> 5             |                            | 1.02<br>0.85                         | 20<br>41                       | 15<br>16                       | 51<br>48                        | 0.8<br>0.6                      |            | 1                                    |         |         |         |             |           |             |                     |                   |            |       |          |

HOLE NUMBER: 89-267

GEOCHEM. SHEET

GEOCHEM. SHEET

DATE: 15-December-1989

| Sample                                    | From<br>(m)                                    | To<br>(m)                  | Length<br>(m)                        | A1203                                    | Ba<br>- X                            | CaO<br>%                            | Fe203 | K20                                 | MgO<br>%                          | MnO2<br>X                         | Na20<br>%                            | P205                | si02<br>%                                 | Sr<br>X | T 102                                | Zr<br>X | s<br>X      | Tot<br>%                                 | Ag<br>ppm                       | As 8<br>ppm       | a-ppm<br>ppm                  | ppm<br>Cu                   | Pb<br>ppm                  | Sib              | Zn<br>ppm                  | Au<br>ppb              |
|-------------------------------------------|------------------------------------------------|----------------------------|--------------------------------------|------------------------------------------|--------------------------------------|-------------------------------------|-------|-------------------------------------|-----------------------------------|-----------------------------------|--------------------------------------|---------------------|-------------------------------------------|---------|--------------------------------------|---------|-------------|------------------------------------------|---------------------------------|-------------------|-------------------------------|-----------------------------|----------------------------|------------------|----------------------------|------------------------|
| 17371<br>17372<br>17373<br>17374<br>17375 | 10.66<br>39.00<br>69.50<br>88.00<br>121.00     | 41.70<br>72.50<br>91.00    | 3.00<br>2.70<br>3.00<br>3.00<br>3.00 | 14.24<br>14.6<br>14.99<br>16.25<br>17.05 | 0.11<br>0.07<br>0.06<br>0.08<br>0.04 | 0.89<br>1.22<br>1.55<br>2.72<br>5.1 | 3.95  | 2.18<br>1.69<br>1.7<br>1.09<br>1.02 | 2.93<br>2.59<br>3.05<br>4.52<br>6 | 0.08<br>0.1<br>0.11<br>0.1<br>0.2 | 2.41<br>3.87<br>3.78<br>4.17<br>2.51 | 0.1<br>0.13<br>0.18 | 68.56<br>68.19<br>66.85<br>59.91<br>52.28 |         | 0.35<br>0.35<br>0.38<br>0.51<br>0.63 |         | 0.6<br>0.52 | 97.55<br>97.07<br>97.06<br>95.66<br>94.5 | 0.8<br>0.4<br>0.8<br>1.6<br>1.8 | 11<br>9<br>6<br>1 | 169<br>85<br>116<br>153<br>67 | 16<br>44<br>8<br>121<br>290 | 29<br>24<br>31<br>41<br>48 | 1<br>1<br>1<br>2 | 46<br>47<br>49<br>54<br>69 | 5<br>5<br>5<br>10<br>5 |
| 17376<br>17377<br>17378<br>13510<br>13511 | 154.00<br>179.50<br>205.30<br>226.53<br>250.75 | 181.50<br>208.30<br>227.90 | 3.00<br>2.00<br>3.00<br>1.37<br>0.85 | 14.23                                    | 0.125                                | 0.86                                | 2.73  | 4.02                                | 1.66                              | 0.08                              | 1.04                                 | 0.11                | 70.86                                     |         | 0.35                                 |         | 0.69        | 96.76                                    | 0.7                             | 11                | 128                           | 32                          | 142                        | 1                | 160                        | 50                     |

HOLE NUMBER: 89-26

Dann Kapata

oppi, serbus N

PAGE: 12

HCLE NUMBER: 89-270

ALTERNATE COORDS GRID:

COLLAR DIP: -70° 0' 0" LENGTH OF THE HOLE: 304.80m

PROJECT NUMBER: 242 CLAIM NUMBER: SILVER 1 NORTH: 11338.00N EAST: 6916.00W

NORTH: O+ O EAST: 0+ 0

START DEPTH: 0.00m

LOCATION: NTS 928/W

PROJECT NAME: LARA PROJECT

ELEV: 744.00

ELEV: 0.00 FINAL DEPTH: 304.80m

METRIC UNITS: X

COLLAR GRID AZIMUTH: 180° 0° 0"

PLOTTING COORDS GRID: MINE

COLLAR ASTRONOMIC AZIMUTH: 208° 0' 0"

CONTRACTOR: FRONTIER DRILLING LTD

IMPERIAL UNITS:

DATE COMPLETED: November 23, 1989

DATE STARTED: November 20, 1989

COLLAR SURVEY: NO MULTISHOT SURVEY: YES PULSE EM SURVEY: NO PLUGGED: YES

CASING: 12.20m

DATE LOGGED: November 23, 1989

ROO LOG: NO

HOLE SIZE: NO

CORE STORAGE: CHEMAINUS

PURPOSE: To test an IP anomaly in an area of anomalous

geochem (Ba,Cu,Zn,Na20)

#### DIRECTIONAL DATA:

| Depth<br>(m) | Astronomic<br>Azimuth | Dip<br>degrees | Type of<br>Test | FLAG | Comments | Depth<br>(m) | Astronomic<br>Azimuth | Dip<br>degrees | Type of<br>Test | FLAG | Connents |
|--------------|-----------------------|----------------|-----------------|------|----------|--------------|-----------------------|----------------|-----------------|------|----------|
| 17.37        | •                     | -69. 01        | ACID            | οκ   |          | •            | •                     | •              | •               | •    |          |
| 66.14        | •                     | -66. 01        | ACID            | OK   |          |              | •                     | •              | -               | •    |          |
| 124.00       | •                     | -66, 0,        | ACID            | OK   |          | •            | •                     | •              | •               | •    |          |
| 165.80       | •                     | -65. 0.        | ACID            | OK   |          |              | •                     | •              | •               | •    |          |
| 270.00       | •                     | -63. 0.        | ACID            | OK   |          | •            | •                     | •              | •               | •    |          |
| 216.00       | 210* 0*               | -65*30         | SING.SHOT       | OK   |          | •            | •                     | •              | •               | •    |          |
| 297.00       | 212. 0.               | -64. 01        | SING.SHOT       | OK   |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | •              | . •             | -    |          |
| •            | •                     | •              | •               | •    |          | • -          | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | -              | -               | •    |          |
| • .          | •                     | •              | -               | •    |          | -            | •                     | •              | •               | •    |          |
| • •          | •                     | •              | •               | •    |          | •            | •                     | -              | •               | •    |          |
| •            | •                     | •              | •               | -    |          | •            | •                     | -              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | -              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | -              | •               | -    |          |
| •            | •                     | -              | •               | -    |          | •            | -                     | -              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | • 4          | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | -    |          | •            | •                     | -              | •               | •    | - •      |
| •            | •                     | •              | .•              | •    |          | •            | •                     | -              | •               | •    | •        |
| . •          | •                     | -              | •               | •    |          | •            | •                     | -              | -               | •    | •        |
| •            | •                     | •              | -               | •    |          | •            | •                     | •              | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | ₹.             | •               | •    |          |
| •            | •                     | •              | •               | •    |          | •            | •                     | -              | -               | -    |          |
| •            | •                     | •              | •               | •    |          | -            | •                     | -              | •               | •    |          |
| •            | •                     | -              | •               | •    |          | •            | •                     | -              | •               | •    |          |
| •            | •                     | -              | •               | •    |          | •            | •                     | -              | •               | •    |          |

HOLE NUMBER: 89-270

FROM ROCK ANGLE TYPE **ALTERATION** REMARKS TO TEXTURE AND STRUCTURE TO CA MINERALIZATION 0.00 «80» 10 12.20 12.20 <010RITE> From 12.20 - 61.30m core was dropped Colour: Dark green Rare patchy epidote alteration and pieces out of order Grain Size: Medium to coarse grained 124.30 Thick, massive, weakly foliated Feldspar porphyritic Equigranular Local rubbly sections 83.50 - 85.00m Locally rubbly 87.00 - 89.00m Locally rubbly 96.50 - 99.37m Rubbly 102.80 - 107.55m Locally rubbly 113.01 - 124.30m Fine to medium grained phases "Blitzed" ---124.30 Quartz Colour: White Well developed sericitie on foliation Trace disseminated pyrite, local Porphyry Grain Size: Medium grained patches planes 137.34 Tuff -OP TUFF= Thick bedded, moderately foliated 5-7% quartz eyes to 8mm There may have been a small percentage of feldspers that are now very poorty defined 124.30 - 124.31m Fault, gouge contact 50 127.27 - 127.61m Trace sphalerite Between 132.89 and: 138.10m only 30% 134.90m CAF 80 recovery 137.34 Intermed. Trace disseminated pyrite Possibly a weaken altered version of Colour: Light grey, weak green cast Patchy bleaching and weak the above unit Guartz Grain Size: Medium grained silicification 155.30 Porphyry Well developed sericite and chlorite on Possible fragmental? Tuff Thick bedded, moderately foliated foliation planes Core moderate to strongly fractured «I QP TUFF» 3-5% quartz eyes to 6mm A small percentage of very obscure feldspar crystals <1% light to medium green lithic fragments to 1mm 143.71 - 144.65m Andesite Lithic Tuff 151.15 - 151.30m Andesite Lithic Tuff

HOLE NUMBER: 89-270

HOLE NUMBER: 89-270

HOLE NUMBER: 89-270

| FROM<br>TO             | ROCK<br>TYPE                                                             | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ANGLE<br>TO CA | ALTERATION                                                                                                                                     | MINERALIZATION                                                                | REMARKS                                                     |
|------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------|
|                        |                                                                          | 153.90 - 154.30m Andesite Lithic Tuff                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                                                                                                                                                | 153.90 - 154.30m 3-5% disseminated pyrite                                     |                                                             |
| 155.30<br>TO<br>166.12 | Andesite<br>Lithic to<br>Lapilli<br>Tuff<br>«AND LITH,<br>LAP TUFF»      | Colour: Medium to dark green Grain Size: Medium to coarse grained  Thick bedded, moderately foliated 1% white felsic fragments from 2mm to 3cm 2-3% medium to dark green lithic fragments to 3mm  155.30 - 155.32m Fault 158.00 - 158.04m Fault 158.04 - 158.30m OP Int tuff 165.20 - 166.12m Core ground away                                                                                                                                                                                                                                                                                                                                                          | 60 70          | Local well developed chlorite on<br>foliation planes<br>Weakly calcareous<br>Local pervasive epidote alteration<br>Local patchy silicification | 3-5% disseminated patchy medium grained pyrite                                | Locally interval appears more intermediuate Locally sheared |
| 166.12<br>10<br>177.95 | Felsic<br>Lapilii<br>Tuff to<br>Tuff<br>Breccia<br>of LAP TUFF<br>,T BX> | Colour: Light grey, weak green cast Grain Size: Coarse grained  Thick bedded, massive, weakly foliated Fragments are bleached white and intensely silicified Internal textures are obscured Minor feldspars are still visable Fragments compose 60-70% of the interval, locally up to 8cm Groundmass is light to medium green and contains 3-5% ghosty to clay altered to weakly epidote altered feldspar crystals to 1mm Minor quartz eyes to 2mm 1-2% Light to medium green lithic fragments to 2mm 166.12 - 167.43m Predominately felsic ash fragments  169.47 - 170.87m Diorite?  177.60 - 177.95m Fault, intensely sheared sericite schist, locally abundant gouge | 60             | Silicified                                                                                                                                     | Trace disseminated pyrite  5% patchy and stringer pyrite with 1% chalcopyrite |                                                             |

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HOLE NUMBER: 89-270

DATE: 15-December-1989

| FROM<br>TO   | ROCK<br>TYPE                                  | TEXTURE AND STRUCTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ANGLE<br>TO CA                         | ALTERATION                                                                                                                        | MINERALIZATION                                                                             | REMARKS |
|--------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------|
| 70<br>209.13 | Intermed.<br>Lithic Tuff<br>at LITH TUF<br>F» | Colour: Medium grey, weak green cast Grain Size: Medium grained  Thick bedded, weakly foliated 3-5% granular felsic fragments to 2mm Unit is very granular in appearance  196.00 - 196.10m Fault, strongly sheared, minor gouge  198.70 - 198.76m Fault, gouge  199.52m CAF 207.50m CAF  208.89 - 208.90m Fault, gouge                                                                                                                                                                                                                                                                                                                                                                                                | 85<br>40<br>50<br>50                   | Weakly developed sericite and chlorite<br>on foliation surfaces<br>Local patchy epidote alteration<br>Local patchy silicification | Trace disseminated pyrite  186.78 - 209.13m 1-2% pyrite stringers medium to coarse grained |         |
| 233.88       | Felsic<br>Lapilli<br>Tuff<br>«F LAP TUFF<br>» | Colour: Light grey, weak green cast Grain Size: Coarse grained  Thick bedded, massive, weakly foliated Fragments are bleached white and silicified, internal textures are obscured, 15-20% up to ócm, locally boundaries to fragments are diffuse Groundmass is a fine to medium grained felsic tuff light greenish grey in colour Minor feldspars to 0.5mm Rare quantz eyes to 0.5mm Very equigranular in appearance  209.12 - 209.20m Sheared  211.35 - 211.40m Fault  215.88 - 218.10m Andesite XLT, "Diorite"  215.88 - 215.98m Sheared  218.09 - 218.10m Fault 222.88 - 223.00m Fault, gouge 223.27 - 223.78m Fault, gouge 224.70 - 225.10m Fault, abundant gouge  219.00 - 233.88m Possibly only 3-5% fragments | 62<br>43<br>60<br>55<br>70<br>75<br>85 | Minor sericite on foliation surface<br>Siticified                                                                                 | 1% pyritic stringers, these contain minor amounts of chalcopyrite                          |         |

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HOLE NUMBER: 89-270

HOLE NUMBER: 89-270

DATE: 15-December-1989 ANGLE FROM ROCK REMARKS MINERALIZATION 10 TYPE TEXTURE AND STRUCTURE TO CA ALTERATION 229.98 - 230.21m fault, abundant gouge 77. 231.07 - 231.10m fault, gouge 50 231.38 - 232.87m 3-5% pyritic stringers 232.93 - 233.00m Fault 233.22 - 233.38m Fault 66 88 and 1% disseminated fine grained pyrite 233.88 Felsic Tuff Colour: Medium grey Moderate sericite development on TO of TUFF= Grain Size: Fine to medium grained foliation surfaces 237.16 Also minor chiorite Thick bedded, moderately foliated Very equigranular in appearance Local digritic inclusions 233.88 - 233.95m fault, healed, black 2% pyrite stringers with minor 234.46 - 236.14m Abundant black healed fault structures chalcopyrite 237.16 -DIORITE» 1% disseminated, patchy, fine to medium Sicker diorite Colour: Medium green Weak to moderately calcareous grained pyrite TO Grain Size: Fine to medium grained Well developed chlorite on foliation 240.52 surfaces Thick, moderately foliated Very equigranular in appearance Lower contact has a minor chill margin Contact 240.52m 55 240.52 1-2% pyrite stringers, locally contain Felsic Tuff Colour: Very light to medium grey Well developed sericite on foliation TO «F TUFF» minor chalcopyrite Grain Size: Fine grained surfaces 248.28 Thick bedded, moderately foliated Very equigranular in appearance Generally blitzed 243.13 - 244.09m Brecciated and healed, minor dioritic intrusions 244.09 - 245.98m "Blitzed" 245.98 - 248.28m Felsic Tuff, medium to dark grey 2-3% pyrite, patches and stringers Brecciated, healed, abundant dioritic intrusions

LOGGED BY: John Kapusta

HOLE NUMBER: 89-270

HOLE NUMBER: 89-270

FROM ROCK ANGLE MINERALIZATION REMARKS TYPE TEXTURE AND STRUCTURE TO CA ALTERATION TO 248.28 «DIORITE» Colour: Medium to dark green ťΩ Grain Size: Medium to coarse grained 258.46 Thick, massive Felaspar porphyritic Equigranular 248.28 - 254.00m Local trace 248.28 - 254.00m 30% quartz veins pyrrhotite in quartz veins 258.46 Andesite Cotour: Medium green Moderate to well developed chlorite on 1-2% pyrite, disseminated, patchy and Lithic Tuff Grain Size: Medium grained foliation surfaces minor stringers 263.00 MAND LITH Weakly bleached TUFF Thick bedded, weakly foliated Very equigranular in appearance 2-3% felsic granuales to 1mm 1% epidized feldsper crystals to 1mm 263.00 Colour: Light to medium gray 3% disseminated, patchy fine to medium felsic Moderatley developed sericite on grained pyrite, also minor stringers TO Quertz Grain Size: Medium grained foliation surfaces Porphyry 268.56 Tuff Thick bedded, moderately foliated -OP TUFF» <5% quartz eyes to 3mm, rare to 6mm Very granular in appearance 1-23 light to medium green lithic fregments to 2mm 267.31 - 268.56m Rare medium green lithic fragments to 1cm 268.56 Andes ite Colour: Light to dark preen Moderately developed chiorite on 1-2% disseminated, patchy fine to TO Crystal medium grained pyrite, minor stringers Grain Size: Medium grained foliation surfaces 304.80 Lithic Tuff rare trace chalcopyrite Locally bleached «AND TUFF» Locally weakly calcareous Thick bedded, moderately foliated 3-5% light green epidote altered feldsper crystals to lam 2-3% light green epidote altered lithic fragments to 5em, rare to 1cm 271.94 - 271.95m Fault, gouge 266.47 - 267.36m Fault, healed 291.20 - 293.04m 10% fragments to 20cm 297.20 - 299.00m Rubbly section, minor gouge and shearing

PAGE:

INTER NUMBER: 89-270

| FROM<br>TO | ROCK<br>TYPE | TEXTURE AND STRUCTURE         | ANGLE<br>TO CA | ALTERATION                                 | MINERALIZATION | REMARKS |
|------------|--------------|-------------------------------|----------------|--------------------------------------------|----------------|---------|
|            |              |                               |                | 300.55 - 301.04m Silicified and epidotized |                |         |
| ,          | E.O.H.       | 304.20 - 304.21m Fault, gouge |                | 310.65 - 301.80m Silicified and epidotized |                | •       |

MOLE NUMBER: 89-270

DRILL HOLE RECORD

LOGGED BY: John Kapusta

PAGE:

DATE: 15-December-1989

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HOLE NUMBER: 89-270

ASSAY SHEET

DATE: 25-January-1990

| Sample                                    | From<br>(m)                                    | To<br>(m)                  | Length<br>(m)        | ESTIMA<br>GCU<br>ppm          | GPb<br>ppm                 | GZn<br>ppm                    | GAg<br>ppm                      | GAu<br>ppb              | ASSAYS<br>GBa<br>ppm | Cu<br>% | Pb<br>% | Zn<br>% | IAg<br>oz/t | · Ag<br>g/t | I Au<br>oz/t | GEOCHI<br>Au<br>g/t | EMICAL<br>SG<br>SG | NSR<br>NSR | SUL % |   | COMMENTS |
|-------------------------------------------|------------------------------------------------|----------------------------|----------------------|-------------------------------|----------------------------|-------------------------------|---------------------------------|-------------------------|----------------------|---------|---------|---------|-------------|-------------|--------------|---------------------|--------------------|------------|-------|---|----------|
| 13580<br>13581<br>13582<br>13583<br>13584 | 166.12<br>186.78<br>188.16<br>195.50<br>231.38 | 188.16<br>189.64<br>197.34 | 1.48                 | 4150<br>93<br>24<br>128<br>49 | 9<br>12<br>5<br>3<br>28    | 56<br>51<br>56<br>65<br>69    | 1.4<br>0.8<br>0.7<br>0.6<br>0.9 | 40<br>1<br>13<br>1<br>1 |                      |         |         |         |             | •           |              |                     |                    |            |       |   | ·<br>·   |
| 13585<br>13586<br>13587<br>13588<br>13589 | 234.46<br>242.21<br>244.09<br>245.94<br>247.20 | 244.09<br>245.94<br>247.20 | 1.88<br>1.85<br>1.26 | 580<br>298<br>36<br>91<br>76  | 20<br>24<br>14<br>12<br>33 | 134<br>83<br>38<br>183<br>191 | 1.4<br>110<br>0.8<br>1.2<br>1.3 | 20<br>2<br>1<br>1<br>18 |                      |         |         |         |             |             |              |                     |                    |            |       |   |          |
| 13590<br>13591<br>13592<br>13593          |                                                | 266.11<br>267.31           | 1.43<br>1.20         | 23<br>75<br>12<br>18          | 14<br>27<br>12<br>22       | 53<br>70<br>51<br>55          | 0.6<br>1.2<br>0.6<br>0.8        | 1<br>10<br>1<br>2       |                      |         |         |         |             |             |              |                     |                    |            |       | } |          |

DATE: 15-December-1989 HOLE NUMBER: 89-270 GEOCHEM. SHEET

| Sample         | From<br>(m)      | To<br>(m)        | Length<br>(B) | A1203           | 8a<br>7       | CaO X        | Fe203        | K20          | MgO<br>X     | Mn02         | Na20         | P205         | SiO2                     | Sr<br>% | T102                 | Zr<br>% | \$<br>% | Tot<br>X                | Ag                | As 8<br>ppm | a-ppm          | Cu<br>ppm     | Pb<br>ppm <sub>j</sub> | Sb<br>ppm | Zn<br>ppm       | Au<br>ppb    |
|----------------|------------------|------------------|---------------|-----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------------|---------|----------------------|---------|---------|-------------------------|-------------------|-------------|----------------|---------------|------------------------|-----------|-----------------|--------------|
| 17189<br>17190 |                  | 135.89<br>174.00 |               |                 | 0.22          |              |              | 2.85         | 1.86         | 0.07         | 3.55<br>4.45 |              | 67.67<br>69.46           |         | 0.44                 |         |         | 95.77<br>98.03          | 0.9               | 7 2         | 159<br>74      | 20<br>186     | 21<br>20               | 1 1       | 57<br>24        | 5<br>10      |
| 17191<br>17192 | 202.54<br>225.31 | 205.54<br>228.31 | 3.00<br>3.00  | 13.33<br>-14.57 | 0.105<br>0.08 | 0.32<br>0.48 | 5.68<br>3.72 | 2.83<br>2.88 | 3.51<br>3.83 | 0.08<br>0.11 | 1.86         | 0.13<br>0.13 | 67.01<br>67.21-<br>45.39 |         | 0.28<br>0.34<br>1.71 |         | 1.18    | 97.99<br>96.85<br>91.55 | 0.5<br>0.8<br>4.2 | 11<br>14    | 88<br>71<br>16 | 17<br>7<br>29 | 40<br>40<br>69         | 1 -       | 75<br>65<br>168 | 10<br>5<br>5 |
| 17193<br>17194 | 237.50<br>259.00 |                  |               |                 | 0.03          |              | 8.75         | 1.72         | 7.55         | 0.27         | 2.21<br>3.83 |              | 52.82                    |         | 0.63                 |         |         | 95.31                   | 1.5               | 1           | 38             | 147           | 69                     | 4         | 187-            | 5            |
| 13591<br>17195 | 264.68<br>302.00 | 266.11<br>304.80 |               | 15.65           | 0.01          | 2.74         | 8.73         | 1.69         | 7.39         | 0.19         | 3.1          | 0.24         | 53.88                    |         | 0.54                 |         | 0.66    | 94.83                   | 1.7               | 1           | 21             | 114           | 65                     | 5         | 81              | 5            |

HOLE NUMBER: 89-270

GEOCHEM. SHEET

PAGE:

# Appendix II Itemized Cost Statement

#### Itemized Cost Statement

#### A. Drill Costs

Drill Hole 265A, November 7-11, 1989:

| Drive Casing:  | $50^{\circ}$ , $50 \div 3.28 = 15.24 \text{ m x } \$47.88/\text{m}$ | \$729.69    |
|----------------|---------------------------------------------------------------------|-------------|
| Coring:        | 934', 934÷3.28 = $284.76 \text{ m} \times \$45.83/\text{m}$         | 13,050.55   |
|                | $53'$ , $53+3.28 = 16.20 \text{ m } \times \$55.76/\text{m}$        | 903.31      |
| Man Hours:     | 16 x \$26/hour                                                      | 416.00      |
| Drill Hours:   | 1 x \$38/hour                                                       | 38.00       |
| Tractor Hours: | 2 x \$60/hour                                                       | 120.00      |
| Casing:        | 5 NW 10' casing @ \$162 each                                        | 810.00      |
| (left in hole) | 1 NW 2' casing @ \$56 each                                          | 56.00       |
|                | 1 NW Casing Shoe @ \$126 each                                       | 126.00      |
| Casing Cap     | 1 NW Cap @ \$29.50 each                                             | 29.50       |
|                | subtotal                                                            | \$16,279.05 |
| Drill Hole 266 | , November 11-13, 1989                                              |             |
| Drive Casing:  | 70', 70÷3.28 = 21.34 m x \$47.88/m                                  | \$1021.76   |
| Coring:        | $672^{1}$ , $672 \div 3.28 = 204.88 \text{ m x } \$45.83/\text{m}$  | 9389.65     |
| Man Hours:     | 2 x \$26/hour                                                       | 52.00       |
| Drill Hours:   | 1 x \$38/hour                                                       | 38.00       |
| Tractor Hours: | 3 x \$60/hour                                                       | 180.00      |
| Casing:        | 7 NW 10' casing @ \$162 each                                        | 1134.00     |
|                | 1 NW casing shoe @ \$126 each                                       | 126.00      |
| Casing Cap:    | 1 NW cap @ \$29.50 each                                             | 29.50       |
|                | subtotal                                                            | \$11,970.91 |
| Drill Hole 267 | , November 13-15, 1989                                              |             |
| Drive Casing:  | 30', 30÷3.28 = 9.15 m x \$47.88 m                                   | \$438.10    |
| Coring:        | 787', 787÷3.28 = 239.94 x \$45.83 m                                 | 10996.45    |
| Tractor Hours: |                                                                     | 180.00      |
| Casing:        | 3 NW 10' casing @ \$162 each                                        | 486.00      |
|                | 1 NW casing shoe @ \$126 each                                       | 126.00      |
| Casing Cap:    | 1 NW Cap @ \$29.50 each                                             | 29.50       |
|                |                                                                     |             |

subtotal

\$12,256.05

## Drill Hole 270, November 20-23, 1989

| Drive Casing: Coring: Man Hours: Drill Hours: Tractor Hours: Casing Casing Cap | 960' 960÷3.28 = 292.68 x \$45.83/m<br>2 x \$26/hour<br>1 x \$38/hour | \$584.14<br>13413.52<br>52.00<br>38.00<br>360.00<br>648.00<br>126.00<br>29.50 |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                | subtotal                                                             | \$15,251.16                                                                   |
|                                                                                | Total Drill Costs (November 7-15, 1990)                              | <u>\$55,757.17</u>                                                            |
| B. <u>Personnel</u>                                                            | Costs                                                                |                                                                               |
| John Kapusta, 1<br>(November 12-24                                             | Project Geologist; 13 days @ \$325/day<br>4)                         | \$4,225.00                                                                    |
|                                                                                | eld Assistant; 5 days @ \$100/day                                    | 500.00                                                                        |
| (November 7, 1                                                                 | subtotal                                                             | \$4725.00                                                                     |
| C. <u>Truck Rent</u>                                                           | <u>tal</u>                                                           |                                                                               |
| 16 days @ \$50/c                                                               | day                                                                  | \$800.00                                                                      |
| D. Food and A                                                                  | <u>Accommodation</u>                                                 |                                                                               |
| John Kapusta,                                                                  | 16 days @ \$40/day                                                   | \$640.00                                                                      |
| E. Report Pro                                                                  | <u>eparation</u>                                                     |                                                                               |
| John Kapusta,                                                                  | 3 days (January 10-12) @ \$325/day                                   | \$975.00                                                                      |
|                                                                                | TOTAL<br>(A+B+C+D+E)                                                 | \$62,897.17                                                                   |

# Appendix III <u>Diamond Drilling Invoices</u>

#### FRONTIER DRILLING LTD.

## 19644 33A AVENUE

## LANGLEY, B.C. V3A 7X1

PHONE: 530-4100

## INVOICE

| INVOICE DATE: November | 20, 1989      | _PERIOD:_                             | Noveml  | ber 1 - 15/89                           | <u>.</u> |
|------------------------|---------------|---------------------------------------|---------|-----------------------------------------|----------|
| INVOICE NUMBER: 8911-3 | }             | JOB:                                  | Lara    | 8911                                    |          |
| LOCATION: Chemainus, B | .c.           | ···                                   |         |                                         |          |
| IN ACCOUNT WITH:       | MINNOVA INC.  |                                       |         |                                         |          |
|                        | 4TH FLOOR     | · · · · · · · · · · · · · · · · · · · |         | and the delice was also assume the same |          |
|                        | 311 WATER ST  | REET                                  |         |                                         |          |
| -                      | VANCOUVER, B  | .c. 6                                 | 81-377  | 1                                       |          |
| •                      |               |                                       |         |                                         |          |
| PAGE ONE: DRILL        | FOOTAGE CHAR  | GES _                                 | \$51,43 | 7.62                                    |          |
| PAGE TWO: FIELD        | COST CHARGES  | _                                     | \$ 4,22 | <b>2</b> .00                            |          |
| PAGE THREE: . SUPPL    | IES AND SERVI | CES _                                 | \$ 5,60 | 7.50                                    |          |
| TOTA                   | L INVOICE     | _                                     | \$61,26 | 7.12                                    |          |

#### PAGE ONE

#### DRILL FOOTAGE CHARGES

|             |          | CASING      |            | ·*        | CORING     |       |
|-------------|----------|-------------|------------|-----------|------------|-------|
| HOLE NUMBI  | R FROM   | то          | TOTAL      | FROM      | TO         | TOTAL |
| 264         | 0        | 10          | 10         | 10        | 885        | 875   |
| 265         | 0        | 10          | 10         | 10        | 70         | 60    |
| 265 A       | 0        | 50          | 50         | 50        | 984        | 934   |
|             | _        |             |            |           | 1037       | 53*   |
| 266         | 0        | 70          | 70         | 70        | 742        | 672   |
| 267         | 0        | 30          | 30         | 30        | 817        | 787   |
| 268         | 0        | 90          | 90         | 90        | 107        | 17    |
|             |          |             | 260        |           |            | 3345  |
|             |          |             |            |           |            | 53    |
| <del></del> |          |             |            |           |            |       |
|             |          |             |            |           |            |       |
|             |          |             |            |           |            |       |
|             |          |             |            |           |            |       |
|             |          |             |            |           |            |       |
| CASING      | 260' ÷ 3 | .28 = 79.   | 3 metres X | \$47.88 = | \$3,796.88 |       |
| CORING _    |          | .28 = 1019. |            |           |            |       |
| _           | 53' ÷ 3  | .28 = 16.   | 2 metres X | \$55.76 = | \$ 903.31  |       |

# PAGE TWO

## FIELD COST CHARGES

| 1 D 16 3 6                                                                                                                                                                                                                                                                                      |   | NOV/89                              | SHIFT | MAN<br>HOURS<br>RATE: 26.00 | DRILL HOURS RATE: 38.00 | DRILL HOURS<br>NONOPERATING<br>RATE:28.00 | TRACTOR HOURS RATE: 60.00               | TRAVEL<br>TIME<br>RATE: | MISC.          | Ori'<br>Hol |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------|-------|-----------------------------|-------------------------|-------------------------------------------|-----------------------------------------|-------------------------|----------------|-------------|
| 3 D 8 4 4 D 2 1 6 D 18 8 7 D 14 2 9 D 2 1 11 D 2 1 13 D 3 15 D 2 1 5 S 84 11 27 84 11 27 84 11 27 84 11 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9 7 D 2 D 2 D 3 8 9 D 2 D 1 D 3 8 0 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D |   | 1                                   | D     | <del></del>                 | † <del></del>           |                                           | <del></del>                             |                         |                |             |
| 4                                                                                                                                                                                                                                                                                               |   | 2                                   | D     | 20                          |                         | ·                                         |                                         |                         | :              |             |
| 6 D 18 8 8 9 9 14 9 14 9 2 1 9 11 9 9 10 14 9 9 10 15 15 15 15 15 15 15 15 15 15 15 15 15                                                                                                                                                                                                       |   | 3                                   | D     | 8                           | 4                       |                                           |                                         |                         |                | ] .         |
| 7 D 14 2 1 3 11 D 2 1 1 3 15 D 2 1 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                          |   | 4                                   | D     | 2                           | 11                      |                                           |                                         |                         |                |             |
| 9 D 2 1 3 3 13 15 D 2 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5                                                                                                                                                                                                                                     |   | 6                                   | D     | 18                          |                         |                                           | 8                                       |                         |                |             |
| 11                                                                                                                                                                                                                                                                                              |   | 7                                   | D     | 14                          |                         |                                           | 2                                       |                         |                | 26          |
| 13 D 3 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7                                                                                                                                                                                                                                                    |   | 9 :                                 | D     | 2                           | 11                      |                                           |                                         |                         |                | 21          |
| 13 D 2 1 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                                                                                                                                                                                                                                                  |   | 11                                  | D     |                             | 11                      |                                           | 3                                       |                         | _              | 26          |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   | 13                                  | D     |                             |                         |                                           | 3                                       | <br>                    |                | 26          |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   | 15                                  | D     | 2                           | 1                       |                                           | 55                                      |                         |                | 26          |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       | 84                          | 11                      |                                           | 27                                      |                         |                |             |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               | • |                                     |       |                             |                         |                                           |                                         |                         |                | ]           |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     | <br>  |                             |                         |                                           |                                         |                         |                | ] -         |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         |                                           |                                         |                         |                |             |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         |                                           |                                         |                         |                |             |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               | • |                                     |       |                             |                         |                                           |                                         |                         |                | ].          |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         |                                           |                                         |                         | 1.             |             |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     | ,     |                             |                         |                                           |                                         |                         |                | 1           |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         |                                           |                                         |                         |                |             |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         |                                           |                                         |                         | _              | 1           |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         | 1                                         |                                         |                         |                |             |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         |                                           |                                         |                         |                | 1           |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         |                                           |                                         |                         |                |             |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       | ·                           |                         |                                           |                                         |                         |                | 1           |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         |                                           |                                         |                         |                | 1           |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   | 1.                                  |       |                             |                         |                                           |                                         | <del></del>             | <del>-  </del> | 1           |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       | ,                           |                         |                                           |                                         | <del></del>             |                | -           |
| N HRS. 84 hrs. X \$26.00 = \$2,184.00 TRACTOR HRS. 27 hrs. X \$60.00 = \$1,620.00                                                                                                                                                                                                               |   |                                     |       |                             |                         |                                           |                                         |                         |                | -           |
|                                                                                                                                                                                                                                                                                                 |   |                                     |       |                             |                         |                                           |                                         |                         |                | -           |
|                                                                                                                                                                                                                                                                                                 |   |                                     |       |                             |                         |                                           |                                         |                         | _              | -           |
|                                                                                                                                                                                                                                                                                                 |   | · · · · · · · · · · · · · · · · · · |       |                             |                         |                                           |                                         |                         | <del>-  </del> | 1           |
|                                                                                                                                                                                                                                                                                                 |   |                                     | 0′ 1  | W 004 00                    | 00 10/ 00 /             | TRACTOR USC                               | • • • • • • • • • • • • • • • • • • • • |                         | 1              | -1          |
| UKILL HKS. 11 hrs. X S1X.00±S 418.00 UKILL HKS.N/O 0                                                                                                                                                                                                                                            | • | _                                   |       | -                           |                         |                                           |                                         | .00 = \$1,62            | 0.00           |             |
| TRAVEL TIME Ø MISC. Ø                                                                                                                                                                                                                                                                           |   |                                     |       |                             |                         |                                           |                                         |                         |                |             |

TOTAL

\$4,220.00

#### PAGE THREE

#### SUPPLIES AND SERVICES

| M AND ADDITIVES:                        |                          |            |
|-----------------------------------------|--------------------------|------------|
| 8 Pails Pac-Vis Polymer @ \$96.00       |                          | \$768.00   |
|                                         |                          |            |
|                                         |                          |            |
|                                         |                          |            |
|                                         | TOTAL                    | \$768.00   |
|                                         | •                        |            |
| DRILL BITS CHARGED:                     |                          |            |
| 1 NQ core bit lost in fault (\$548.00)  |                          | \$548.00   |
| 1 NQ COLE DIE 103E IN 12die (45 vol.00) |                          |            |
|                                         |                          |            |
|                                         |                          |            |
|                                         | 7.5                      | <u> </u>   |
|                                         | TOTAL                    | \$548.00   |
|                                         |                          |            |
| OTHER DIAMOND PRODUCTS:                 |                          |            |
| 5 NW shoes left in holes (\$126.00)     |                          | \$630.00   |
|                                         |                          |            |
|                                         |                          | ***        |
| :                                       | TOTAL                    | \$630.00   |
|                                         |                          |            |
|                                         |                          |            |
| DRILLING TOOLS LOST OR DAMAGED:         |                          |            |
| 21 NW 10' casing @ \$162.00             |                          | \$3,402.00 |
| 2 NW 2' casing @ \$ 56.00               |                          | 112.00     |
| 5 NW casing caps @ \$29.50              | •                        | 147.50     |
|                                         | TOTAL                    | \$3,661.50 |
|                                         |                          |            |
| 1ISC.:                                  |                          |            |
| COREBÒXES:                              |                          | ·          |
| FUEL                                    |                          |            |
| RENTALS                                 |                          |            |
| HOLE TESTING                            |                          |            |
| ilsc.                                   |                          |            |
|                                         | ጥ ስጥ ል፤                  | 4          |
|                                         | TOTAL                    | <u> </u>   |
|                                         |                          |            |
| TOTA                                    | AL SUPPLIES AND SERVICES | \$5,607.50 |

FRONTIER DRILLING LTD.
19644 33A AVE.
LANGLEY, B.C. V3A 7X1
PHONE: 604-530-4100

RECEIVED

OEC 11 1989

#### INVOICE

| DATE December 6, 1989 | PERIOD Nov. 16 - 25, 1989    | INV. # 8911-5 Lara |
|-----------------------|------------------------------|--------------------|
| JOB # 8911            | LOCATION Chemainus, B.C.     |                    |
|                       |                              |                    |
| IN ACCOUNT WITH:      | Minnova Inc.                 |                    |
|                       | 4th Floor                    |                    |
|                       | 311 Water Street             | ·                  |
|                       | Vancouver, B.C. V6B 1B8      | <del></del>        |
|                       |                              |                    |
| PAGE ONE:             | DRILL FOOTAGE CHARGES \$27,9 | 958.71             |
| PAGE TWO:             | FIELD COST CHARGES \$ -2,6   | 578.00 2574.00     |
| PAGE THREE:           | SUPPLIES AND SERVICES \$ 3.8 | 346.50 🗸           |
|                       | TOTAL INVOICE \$34-          | <del>183721</del>  |
|                       | # 2V                         | 379.21             |

#### DRILL FOOTAGE CHARGES

|             | , ´C,       | ASING   | •          | C          | ORING    |                                        |
|-------------|-------------|---------|------------|------------|----------|----------------------------------------|
| HOLE NUMBER | FROM        | TO      | TOTAL      | FROM       | то       | TOTAL                                  |
| 268         |             |         |            | 107        | 283      | 176                                    |
| 269         | 0           | 30      | 30         | 30         | 822      | 792                                    |
| 270         | 0           | 40      | 40         | 40         | 1000     | 960                                    |
|             |             |         | 70'        |            |          | 1928                                   |
|             |             |         |            |            |          |                                        |
|             |             |         |            |            |          |                                        |
|             |             |         |            |            |          |                                        |
| -           |             |         |            |            |          | ······································ |
|             |             | •       |            |            | ·        |                                        |
| <del></del> |             |         |            |            | , ;      |                                        |
|             |             |         |            |            |          |                                        |
|             |             |         |            |            |          |                                        |
|             |             |         |            |            |          |                                        |
|             |             |         |            |            |          |                                        |
|             |             |         |            |            |          |                                        |
| CASING 70   | )' ÷ 3.28 = | = 21.3  | m. X \$47. | 88 = \$ 1, | 019.84   |                                        |
| CORING 1928 | 3' ÷ 3.28   | = 587.8 | m X \$45.  | 83 = \$26, | 938.87   |                                        |
| <del></del> |             |         |            | GES \$2    | 7 050 31 |                                        |

#### PAGE TWO

#### FIELD COST CHARGES

| LE                             | SHIFT                       | MAN                                   | DRILL                | DRILL HOURS              | TRACTOR              | TRAVEL        | MISC.        | ]  |
|--------------------------------|-----------------------------|---------------------------------------|----------------------|--------------------------|----------------------|---------------|--------------|----|
| November                       |                             | HOURS<br>RATE: 26.00                  | HOURS<br>RATE: 38.00 | NONOPERATING RATE: 28.00 | HOURS<br>RATE: 60.00 | TIME<br>RATE: |              | ١  |
| 16                             | D                           | 2                                     | 1                    |                          |                      |               | <del></del>  |    |
| 17                             | D                           | 27 23                                 |                      |                          | 11                   | 1             |              | 1  |
| 18                             | D                           | 1                                     |                      |                          | 1                    |               |              | ]6 |
| 19                             | D                           | 2                                     | 1                    |                          |                      |               |              | 6  |
| 19                             | N                           |                                       |                      |                          | 1 .                  |               |              | 6  |
| 20                             | D                           |                                       |                      |                          | 4                    |               |              | ]  |
| 21                             | D                           |                                       |                      |                          | l                    |               |              | 1  |
| 22 .                           | D                           | 2                                     | 1                    |                          |                      |               |              | 1  |
| 22                             | N                           |                                       |                      |                          | 1                    |               |              | 7  |
| 24                             | บ                           |                                       |                      |                          | 9                    |               |              | ]  |
| Totals                         |                             | 34 30                                 | 3                    | ,                        | 28                   |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | ]  |
|                                | •                           |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
|                                |                             |                                       |                      |                          |                      |               |              | 1  |
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| ) DDC                          | 2000                        | - V 624 00                            | 780.00               | TRACTOR HRS.             | 28 brs V \$40        | 00 = \$1 690  |              | 4  |
| ים מנו זום אות.<br>בינות הוומר | <i>&gt;</i> 0 <i>8</i> 4 hr | s X \$26.00 =                         | \$884.00 I           | DRILL HRS.N/O            |                      | Ø             |              |    |
| TRAVEL TI                      |                             | s X \$38.00                           |                      | MISC                     | <del> </del>         | Ø             |              |    |

\$2,678.00 2574.60

#### PAGE THREE

#### SUPPLIES AND SERVICES

| MUI ND ADDITIVES:                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
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| 3 pails Pac-Vis Polymer @ \$96.00                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$288.00    |
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| RILL BITS CHARGED:                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
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| THER DIAMOND PRODUCTS:                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
| 3 NV casing shoes @ \$126.00                                                                                                                                                                                                        | <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | \$378.00    |
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| <del></del>                                                                                                                                                                                                                         | <del> </del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| •                                                                                                                                                                                                                                   | TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | \$378.00    |
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| ORILLING TOOLS LOST OR DAMAGED:                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
| 3 casing caps @ \$29.50                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$ 88.50    |
| 16 NW 10' casing @ \$162.00                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$2,592.00  |
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|                                                                                                                                                                                                                                     | TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | \$2,680.50  |
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| iisc.;                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
| COPEBOXES:                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
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| LENTALS                                                                                                                                                                                                                             | <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |
| OLE TESTING                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
| De-Mobilization - Flat Rate                                                                                                                                                                                                         | · · · · · · · · · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · _ · | \$500.00    |
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| •                                                                                                                                                                                                                                   | IUIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>    |
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| TOTAL SUPPLIES                                                                                                                                                                                                                      | S AND SERVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$3,846.50  |

| me to the management of the second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to estanço                            | ٠            |            |                                                  |             |              |                                                  |             |
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| FRONTIER DRILLING SHIFT REPOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       | . 4          | र क्टून    | /                                                | /           | /            | / /                                              | / / /       |
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| NIGHT NIGHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |              |            | 4 3                                              | 3/23        | 1/0° / 29    |                                                  | <i>y.</i> / |
| NO ANGLE: -65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |              | 1 2 A      | N. N. N. N. N. N. N. N. N. N. N. N. N. N         | ZZ ZZ       | 4 / X        | 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7          |             |
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| ILE NO: 1787 1787 1788 1788 1788 1788 1788 178                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | THE OPERATION !                       |              | Hours      | Hours                                            | Hours       | Hours        | Hours                                            |             |
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| والمتحدث والمتحدث والمتحدث والمتحدث والمتحدد والمتحدد والمتحدد والمتحدد والمتحدد والمتحدد والمتحدد والمتحدد والمتحدد                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CEMENTING ENGLAND                     | 56157        |            | 1 2                                              |             |              | -                                                |             |
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| NES DISTANCE FT. LIFT FT. LATERAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       | 134135       | 100        | 2                                                | 2           | 2            |                                                  |             |
| INDER EQUIPMENT SHOW TRACTOR & TRUCK HOURS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MOVING, SET UP,<br>TEAR DOWN          | Y. 15,418    | T. (       | 9                                                | 9           | 9            | 1)                                               | TEST DEPTH  |
| ज्ञान कुर्वा स्थान कुर्वित कर देश कर विकास स्थान किसी है है कि किसी किसी है कि साम किसी है कि साम किसी है कि स                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TESTING THE TOTAL                     | 14:20        | 781.       | -                                                |             |              | hrs                                              | - O free    |
| 等于表現的學術學的。在中華教育的 <b>的人</b> 工工程學學                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SUPERVISION 1                         | 15 45        | 14:11      |                                                  |             | 1            | 2                                                | 3 hrs 7.    |
| TION: FROM BASE TO TRUCK UNLOAD POINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>建设设置的</b>                          | (40.00)      | : ;        |                                                  |             |              | -                                                |             |
| TION: FROM TRUCK UNLOAD POINT TO 1st HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1975年 中国 大学                           | 1.11         |            |                                                  |             |              |                                                  |             |
| IZATION: FROM LAST HOLE TO TRUCK LOAD POINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | THE PROPERTY.                         |              |            |                                                  |             |              |                                                  |             |
| FROM TRUCK LOAD POINT TO BASE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>持以你学的模型的</b>                       |              |            | · · ·                                            | 2 1 1       | -            |                                                  |             |
| EQUIPMENT HOURS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (OTHER) TO AND AND                    | • •          |            |                                                  |             |              |                                                  |             |
| HOURS REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HOLESTABILIZING                       | 33           |            | <u> </u>                                         |             | <u> </u>     | <u> </u>                                         |             |
| 2 HRS LUAD - UNLOAD DRILL - SEE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TRACTOR OPERATION                     |              | 11         | ļ                                                | ļ           | ·}           |                                                  |             |
| 3 HRS WALK CAT FROM FAR EAST TO C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CAMP                                  | · .          | ļ          | <u> </u>                                         | -           | <u> </u>     | <u> </u>                                         |             |
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| TAMP AND TO Non Ser-up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | <del> </del> | <u> </u>   | <del> </del>                                     | <u> </u>    | ļ.<br>—      |                                                  |             |
| 3 HRS MARING ROAD & SET-UP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TRAVEL                                |              | '          | 1                                                | /           | !!           |                                                  |             |
| N AHRS EACH HAVENO DEM SE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TOTAL HOURS                           | <u></u>      | 12         | 12                                               | 12          | 12           | <u> </u>                                         |             |
| COMMENTS: MOUE Daine & SLOPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       | ٠ ٨ ٢        | X          | MANE                                             | <u> </u>    |              | D.4 D                                            |             |
| CKJ. HAUL TO EAST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | GRID, WALK                            |              | CA-        |                                                  | 7 (         | o£           | nsī                                              | CRID        |
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| -DAKL & SLOP TO 269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AND SET                               | 12.          | <u> </u>   | T                                                | ج ر         | ۾ رقم        | <u> </u>                                         | STRWG       |
| ES USED OR LOST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | ,            |            |                                                  |             |              |                                                  |             |
| Y TEMS & REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |              |            |                                                  |             |              |                                                  |             |
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