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| LOG NO: <i>March 1/91</i> RD. |
| ACTION: |
| FILE NO: |

ASSESSMENT REPORT ON
DIAMOND DRILLING AT THE
GRANISLE MINE

MAGPIE 1 GROUP

OMINECA MINING DIVISION
NTS: 93L/16

Latitude: 54 57' North
Longitude: 126 10' East

OWNER: MACLAREN FOREST PRODUCTS INC.
2800 PARK PLACE
666 BURRARD STREET
VANCOUVER B.C.

WORK BY: NORANDA MINERALS INC. - BELL MINE
BOX 2000
GRANISLE B.C.

REPORT BY: A.J. PARDOE

FEBRUARY, 1991

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

RECEIVED

21,012

FEB 26 1991

GOVERNMENT AGENT
SMITHERS, B.C.

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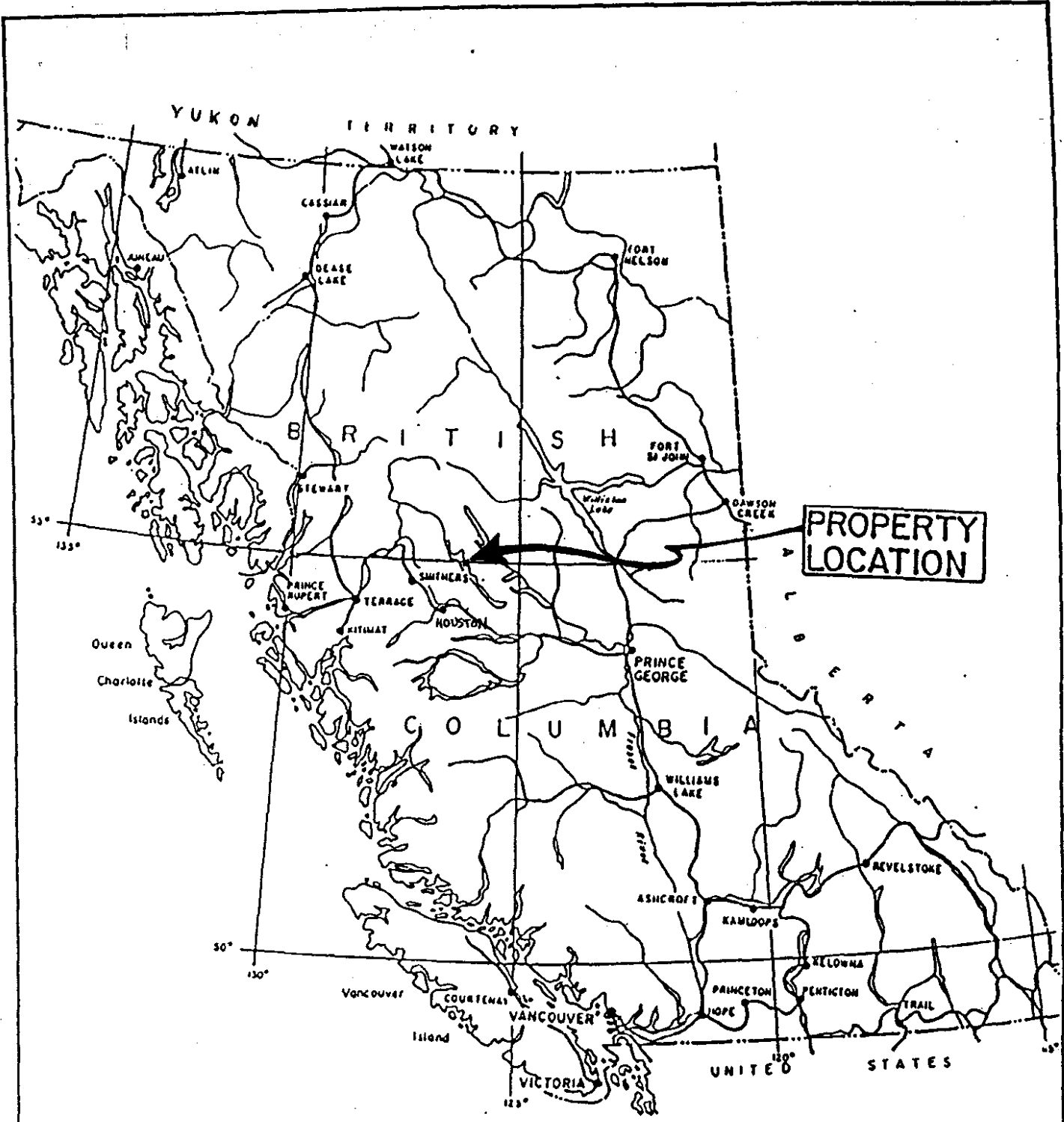
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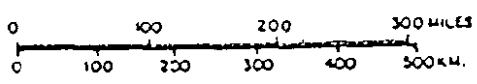
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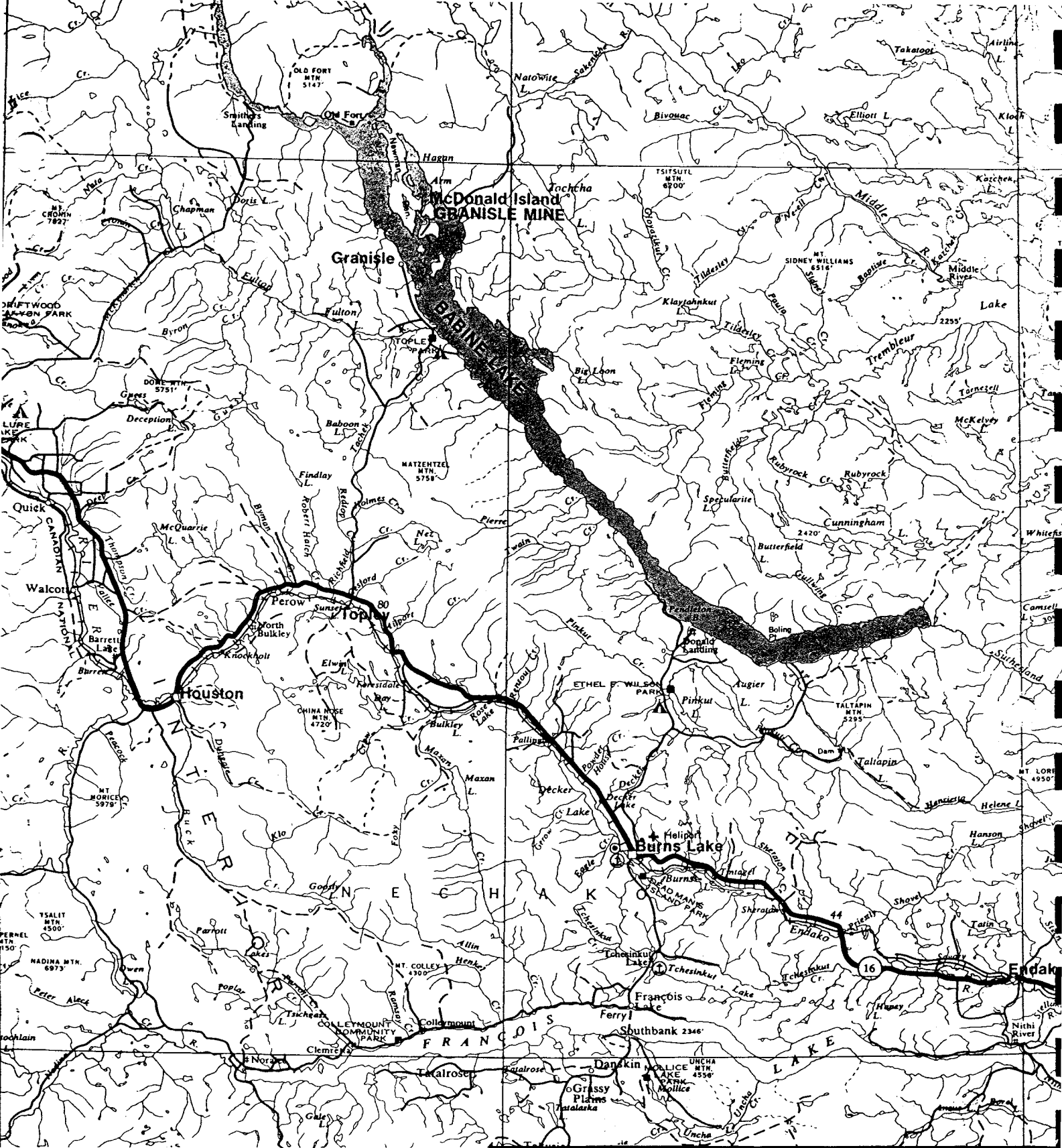


**PROPERTY
LOCATION**

**LOCATION MAP
GRANISLE MINE**

| | |
|----------------|-------------------|
| SCALE AS SHOWN | DATE: Feb 14 / 91 |
| | FIGURE NO. 1 |

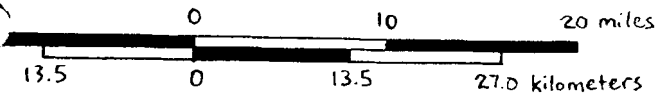




NORANDA MINES LIMITED

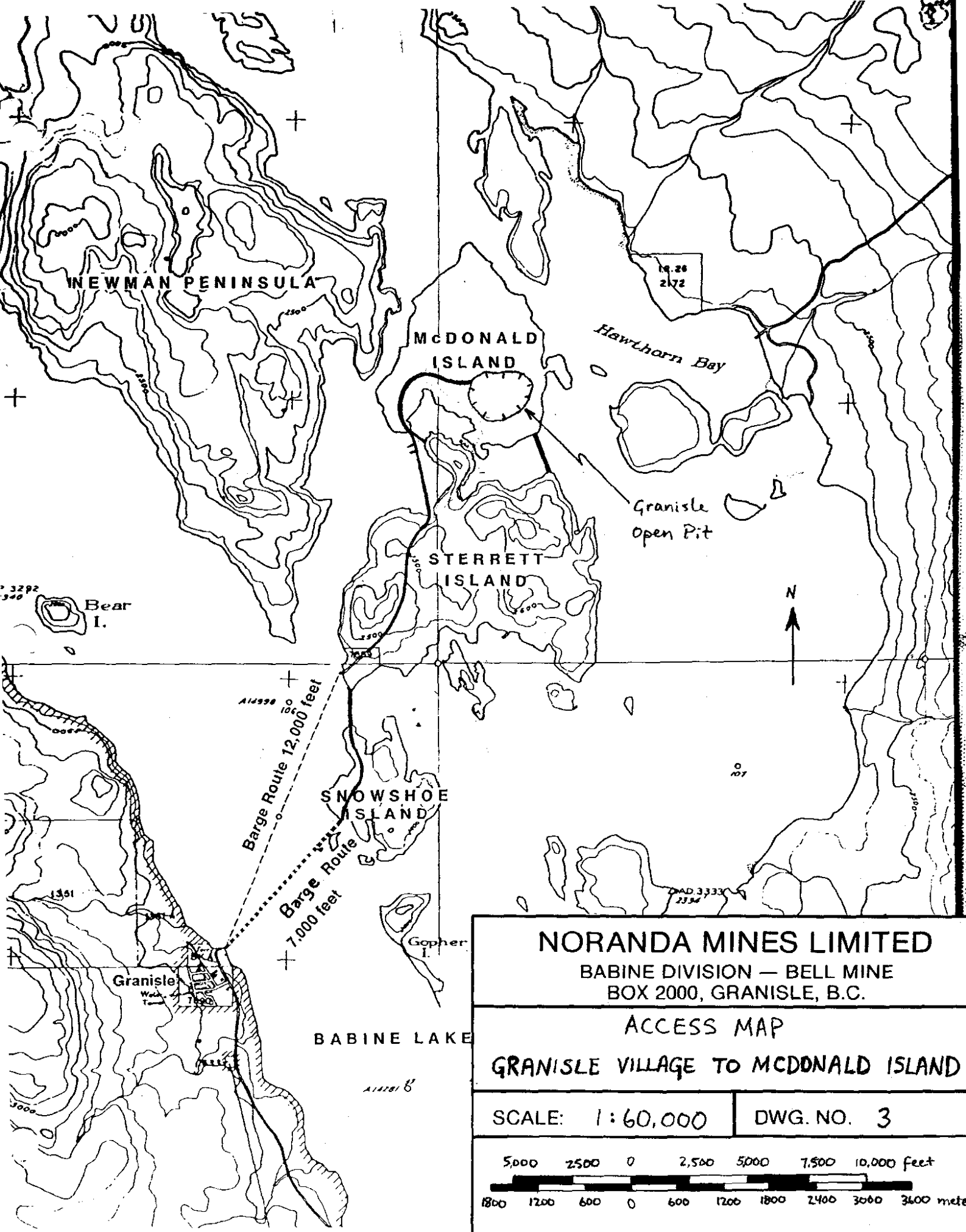
BABINE DIVISION — BELL MINE
 BOX 200, GRANISLE, B.C.

GRANISLE MINE
 PROPERTY LOCATION



SCALE: 1" = 1 mile

DWG. NO. 2



NEWMAN PENINSULA

MCDONALD ISLAND

STERRETT ISLAND

SNOWSHOE ISLAND

Bear I.

Hawthorn Bay

Granisle Open Pit



Barge Route 12,000 feet

Barge Route 7,000 feet

Granisle

BABINE LAKE

Gopher I.

NORANDA MINES LIMITED

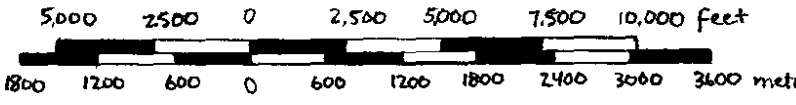
BABINE DIVISION — BELL MINE
BOX 2000, GRANISLE, B.C.

ACCESS MAP

GRANISLE VILLAGE TO MCDONALD ISLAND

SCALE: 1:60,000

DWG. NO. 3



1.0) SUMMARY

Between October 23 and November 26, 1990, 31,593 feet (9,632 meters) of diamond drilling was conducted at the Granisle open pit on McDonald Island, Babine Lake, B.C.. The footage is divided among 38 inclined holes, drilled from ramps and benches within the pit. The intent of the program is to verify tonnage and grade calculated from previous drilling and determine the size and location of waste blocks within the ore body. In addition, a few exploration holes were drilled to test the potential for ore in the north wall of the pit.

2.0) LOCATION, PHYSIOGRAPHY AND ACCESS

2.1) Location

The Granisle open pit is located approximately 68 kilometers east-northeast of the town of Smithers, B.C. and 38 km. north of Houston, B.C. (see figure 1 and 2) on McDonald Island in Babine Lake. The island lies near the north end of the lake in an indentation of its east shore, named Hagon Arm. A narrow channel separates the island from Newman Peninsula, where the Noranda Bell Mine is located. The nearest settlement is the village of Granisle, which lies on the west shore of Babine Lake, roughly 7 km. southwest of the Granisle pit.

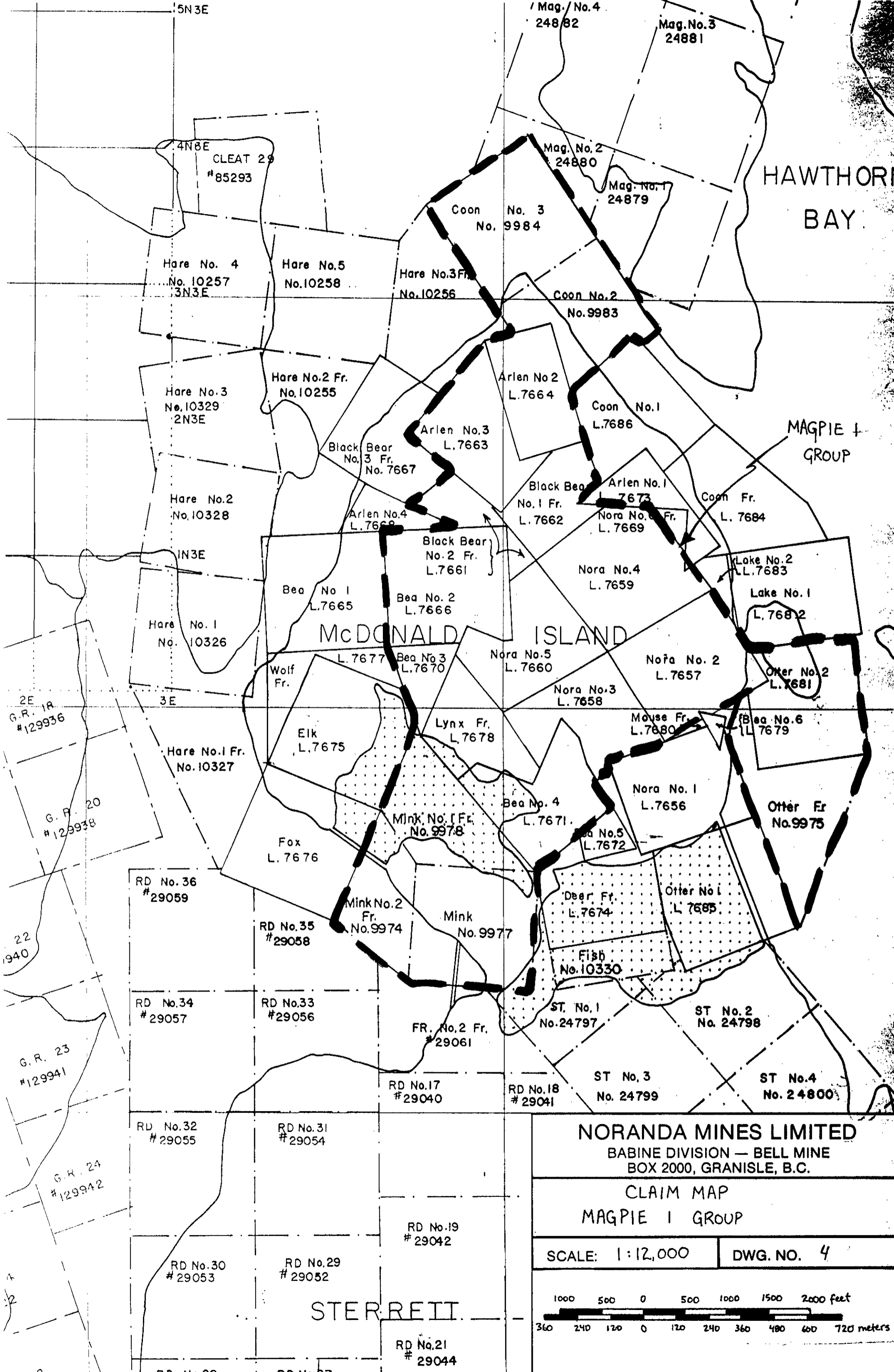
2.2) Physiography

Babine Lake lies in the gentle to occasionally steep hills of the Nechako Plateau, at an elevation of 2335 feet (712 meters). The shores of Babine Lake are well forested with mature stands of balsam fir and spruce, though much of the slopes on the east shore of the lake have been clearcut logged. The area has been glaciated and the topography of McDonald Island is generally rounded with fairly low relief.

Annual precipitation averages about 20 inches (54 cm.) and normal snow depth is about 3 feet (93 cm.). The lake freezes over in late December or January and remains frozen until around mid-May, however currents in the lake can create thin ice at any time during the winter.

2.3) Access

Currently there is no land access to the Granisle pit, though Noranda Bell Mine is proposing construction of a causeway between the south end of Newman Peninsula and McDonald Island. The village of Granisle is accessible from Smithers, B.C. by 150 kilometers of paved road. From Granisle, the property can be accessed by boat from docking facilities at the village to old barge landing facilities on either Snowshoe or Sterrett Islands (see Figure 3) and then by gravel road to the pit. Alternatively, there is a dry dock landing along the causeway between Sterrett and McDonald Islands and a small boat dock further up the channel, near the old mill site on McDonald Island.



HAWTHORNI
BAY

MAGPIE I
GROUP

MCDONALD ISLAND

STERRETT

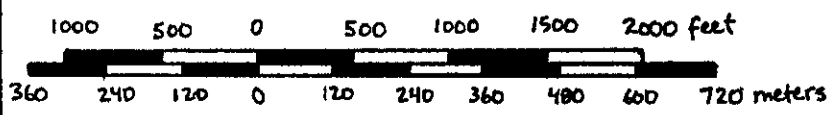
NORANDA MINES LIMITED

BABINE DIVISION — BELL MINE
BOX 2000, GRANISLE, B.C.

CLAIM MAP
MAGPIE I GROUP

SCALE: 1:12,000

DWG. NO. 4



RD No.21
29044

G.R. 18
#129936

G.R. 20
#129938

G.R. 23
#129941

G.R. 24
#129942

22
940

12

3.0) CLAIM STATUS

The Magpie 1 group consists of 19 contiguous claims, 13 of which are crown grant claims. There is a total of 19 units in the group, covering an area of approximately 2.8 hectares. The claims are owned by Maclaren Forest Products Inc. The various claims are shown in drawing#4 and their details are below.

| Name of Claim | Record # | Expiry Date |
|---------------------|----------|-------------|
| Coon 2 | 9983 | Dec 6/2000 |
| Coon 3 | 9984 | Dec 6/2000 |
| Mink | 9977 | Dec 6/2000 |
| Mink 1 Fr. | 9978 | Dec 6/2000 |
| Mink 2 Fr. | 9974 | Dec 6/2000 |
| Otter Fr. | 9975 | Dec 6/2000 |
| Crown Grant Claims: | | |
| Otter 2 | 7681 | July 2/1991 |
| Bea 2 | 7666 | July 2/1991 |
| Bea 3 | 7670 | July 2/1991 |
| Bea 4 | 7671 | July 2/1991 |
| Black Bear 1 Fr. | 7662 | July 2/1991 |
| Black Bear 2 Fr. | 7661 | July 2/1991 |
| Nora 2 | 7657 | July 2/1991 |
| Nora 3 | 7658 | July 2/1991 |
| Nora 4 | 7659 | July 2/1991 |
| Nora 5 | 7660 | July 2/1991 |
| Lynx Fr | 7678 | July 2/1991 |
| Arlen 2 | 7665 | July 2/1991 |
| Arlen 3 | 7663 | July 2/1991 |

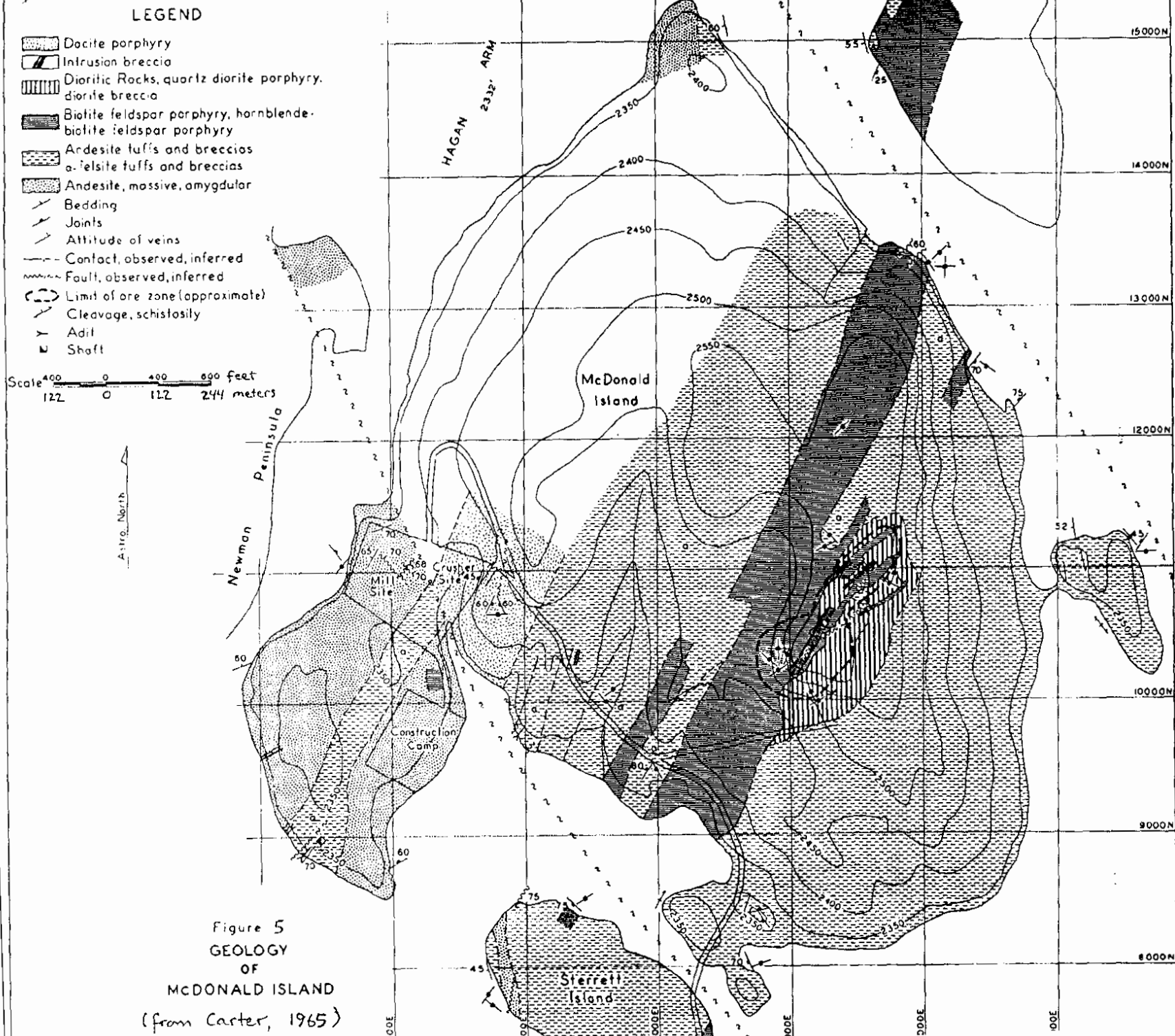
4.0) Property History

The earliest record of work on McDonald Island is reported in the 1913 B.C. Ministry of Mines Report. Chas. Newman and H.J. McDonald are credited with the property's discovery and by the time of the report, two short tunnels, several open cuts and a shaft had been put in. Little information is available until 1927, when Douglas Lay visited the property and described the showings in his Report to the Minister. On his recommendation the property was bonded by the Canadian Mining and Smelter Co. (Cominco) the following year.

In 1928 and 1929, Cominco's work on the property included 18 open cuts, totalling 300 feet (93 meters), and 5 diamond drill holes, totalling 4014 feet (1224 meters). Reserves of 8 million tons (6 million tonnes) grading 0.8% copper with low gold and silver values were indicated, however the option was allowed to lapse.

The property was examined by Dr. Victor Dolmage in 1943. Work had been done at that time by E.E. Campbell and the prospect was referred to as the Newman property. Dolmage recommended work on the property, based on favorable geology and mineralogy. Soon after Dolmage's report, in 1945, American Metals drilled four holes totalling 2214 feet (675 meters), but the results were poor and the property was dropped.

In 1955 the principal claims were purchased by Granby Mining Co., and their subsidiary, Granisle Copper Co. Ltd. was organized soon after. In 1955 and 1956, forty-eight vertical drill holes, totalling 13,383 feet (4080 meters), were drilled on a 200 foot (61 meter)



square grid pattern. In 1959, a further 30 drill holes which totalled 11,262 feet (3436 meters) were drilled on a closer spacing and with some inclined drill holes. Three holes, totalling 1648 feet (502 meters), were drilled in 1962 to provide material for milling tests. In addition, 32 drill holes, totalling 3809 feet (1161 meters), were drilled outside the ore zone between 1956 and 1962.

In 1963 planning had advanced to the stage of mill testing and surveys for suitable mill sites. A feasibility study was completed in April, 1964, arrangements were made for financing and a production decision was made in February, 1965. Construction was carried out during 1965 and 1966, and in mid-November, 1966, production began at 6000 tons (4500 tonnes) per day. Ore reserves were 20 million tonnes of 0.53% copper.

In 1969, a diamond drill program of 32,871.5 feet (10006.5 meters) in 50 holes increased reserves to 81 million tonnes proven of 0.43% copper. The mill facilities were expanded and by the end of 1972, 12,000 tonnes per day was being processed.

Further drilling was conducted in the years 1970 to 1973. During this period, 124,804.6 feet (38,050.2 meters) were drilled. A total of 242 holes were drilled, including 7 percussion drill holes totalling 670 feet (204.3 meters).

In April of 1980, Noranda Minerals Inc. bought the assets of the Zapata Granby Mining Co., which included the Granisle Mine. Noranda operated the mine until June 30, 1982, when low metal prices forced the mine to close.

5.0) REGIONAL GEOLOGY

McDonald Island lies in the Intermontaine Belt of the Canadian Cordillera in a portion of the Nechako plateau that is broken by a series of normal faults into a basin and range topography. The area is underlain by Mesozoic volcanic and sedimentary rocks. These include three main sequences: Upper Triassic Takla Group siltstones, limestones and andesites, Jurassic Hazelton Group fragmental andesites and dacites; and Cretaceous Skeena Group siltstones, sandstones and volcanic rocks. These sequences are intruded by Mesozoic plutons, some of which are part of the Early Jurassic Topley Intrusions. Continental sedimentary rocks, believed to be of Late Cretaceous and Early Tertiary age occur as small outliers, commonly adjacent to major steep faults.

Copper deposits of the area are related to small porphyry intrusions of Tertiary age which intrude the Mesozoic sequences. These intrusions are dykes and plugs of biotite-feldspar porphyry of quartz diorite composition. Potassium-argon dating of biotite, indicates the intrusions are of Eocene age. Extrusive equivalents of these rocks have been noted near the south end of Newman Peninsula and west of Babine Lake.

The major trend of the area is northwesterly as indicated by the strike of bedded rocks and major high-angle block faults. The mineralizing porphyries show a strong spatial relationship to these regional faults. Northeasterly faults are also common, though not of the same regional extent as the northwest faults, and may also have been important in the localization of Tertiary intrusions.

6.0) PROPERTY GEOLOGY

6.1) Lithology

McDonald Island is largely underlain by volcanic and sedimentary rocks of the Hazelton Group. Andesite tuffs and breccias with minor intercalated chert pebble conglomerates underlie the central and eastern part of the island and strike northerly with moderate west dips. These rocks are apparently overlain in the western part of the island by massive and amygdoloidal andesitic flow rocks and thinly bedded shales.

The ore body is associated with Biotite-Feldspar Porphyry (BFP) intrusions in the central part of the island. The oldest of these is a northeasterly trending, elliptical plug of microporphyry. In much of the older literature it is called a quartz diorite or diorite and in the 1990 drill logs it has been referred to as a subvolcanic intrusive or volcanic. The microporphyry consists of 1 mm. phenocrysts of feldspar and very local 1 mm. phenocrysts of biotite in a fine grained to aphanitic groundmass of quartz, plagioclase and biotite.

The microporphyry is cut on its western edge by a medium to coarse grained BFP dyke. The BFP dyke is composed of 2 to 4 mm., crowded, euhedral plagioclase phenocrysts and 1 to 2 mm. biotite phenocrysts in a groundmass much the same as that of the microporphyry. The contact between the microporphyry and the main BFP dyke is considered to be near vertical, however in drill core the contact is generally indistinct and gradational.

Small dykes of porphyry radiate from the main dyke into the microporphyry and other host rocks. Differences in grain size and cross cutting relationships indicate there are several phases of the coarser grained BFP, but no attempt has been made to differentiate these phases in the current work.

Ash and lapilli andesite tuffs occur largely on the east and southern edges of the pit. Some tuffs are also found on the north and western walls, but are more limited in extent. Local blocks of tuff occur within the microporphyry.

Very locally, Quartz-Feldspar Porphyry (QFP) is seen in drill holes on the east side of the pit. The QFP is similar in appearance to the coarse grained BFP, but lacks biotite phenocrysts and the groundmass is generally light grey to pale green. Though rarely visible to the naked eye, quartz eyes are seen in thin sections of these rocks from the Noranda Bell Mine. The classification of rocks as QFP at the Granisle pit is tentative and based upon the author's experience with similar rocks in the Bell Mine area.

6.2) Alteration

The dominant alteration in the Granisle pit is biotite-(potassic) alteration. No rocks were stained for potassium in the most recent program, but previous work has indicated a roughly oval zone of potassic alteration encompassing the ore zone. The groundmass of much of the porphyrys and some of the tuffs is colored a dark (brown)-grey to black, by variable amounts of finely disseminated and patchy hydrothermal biotite. Concurrently the rocks are frequently silicified and locally have a faint salmon-pink tone. Gypsum veinlets, where present, generally occur in biotite altered rock.

The biotite/potassic alteration zone is gradational outwards to a phyllic or quartz-sericite-carbonate-pyrite zone in which sericite, carbonate and minor quartz form an inner, partial ring around the

deposit (Carson and Jambor, 1974). In the phyllic zone, intrusive and volcanic rocks weather to buff color, mafic minerals are altered to sericite and plagioclase phenocrysts are variably sericitized. Pyrite occurs as both disseminations and stringers. Phyllic altered rocks are generally waste material, though locally, phyllic altered, coarse grained BFP bears ore grade mineralization.

Minor propylitic alteration is noted on the periphery of the pit, and locally within waste blocks in the main ore body. In the 1990 drill program only weak propylitic alteration, indicated by a green tinge to the groundmass and/or feldspar phenocrysts accompanied by variable carbonate, is seen.

6.3) Mineralization

Pyrite, chalcopyrite and bornite are the dominant sulfide minerals in the deposit. In the ore zone chalcopyrite occurs as disseminations both in quartz veinlets and in the host rock, though it is slightly more common in the quartz. Bornite is less abundant than the chalcopyrite and based on old reports, seems to be decreasing with depth. Pyrite is more abundant than bornite in the ore zone, but still occurs in only minor amounts. Molybdenite occurs locally, dominantly within quartz veinlets. Overall there is 3% or less visible sulfide in the ore zone.

Magnetite and specularite are fairly common in biotite altered rocks, both within and outside the ore zone. Minor earthy red hematite occurs, largely outside the ore body.

Pyrite is most abundant outside the ore body, occurring as disseminations, stringers and blebs.

7.0) WORK PERFORMED

Between October 23 and November 26, 1990, 31,593 feet (9632 meters) of NQ diamond drilling was conducted in the Granisle open pit. A total of 38 holes were drilled, at angles varying from 40 to 60 degrees, from ramps and benches within the pit. The bottom of the pit is flooded to a depth of approximately 110 feet (33.5 meters), making the bottom and lower two benches of the pit inaccessible for drill platforms.

Drill core was logged on site, then strapped to pallets and barged to the Noranda Bell Mine. A barge from the mine was utilized two or three times per week for this purpose. At the mine site, two alternating crews of three people measured RQD's and sampled the core on 10 foot (30.5 cm) vertical intervals. The sample was crushed to 1/4 inch (6 mm) sized fragments, riffled and divided into samples. Roughly 1 lb (250 gm) was collected for analysis and the remainder of the crushed material was divided into two samples and stored on the Noranda Bell Mine site. Except for representative samples of the core, collected by the core loggers for a core library, the entire length of the drill holes are crushed.

Samples of crushed rock were analyzed by the laboratory at Noranda Bell Mine for copper, gold and molybdenum. Analysis for copper and molybdenum was performed by standard acid digestion followed by atomic absorption spectrophotometry. Gold analysis included a MIBK extraction after acid digestion, followed by an atomic absorption finish.

In addition to the analysis performed at Bell Mine, every tenth sample was sent to Chemex Laboratories of Vancouver, B.C., for a check analysis. At Chemex, copper was analysed by atomic absorption and fire assays were done for gold.

8.0) DISCUSSION

Two waste blocks in the main ore body are indicated by blasthole data. These blocks are essentially vertical structures with axes roughly orientated at 075 and at 340 to 360. The recent drilling indicates these blocks continue and possibly flare somewhat with increasing depth.

The grades indicated by the 1990 drill program are comparable to the grade calculated in feasibility studies. From the drilling, it is evident that grades within the ore zone can be quite variable, with no obvious controls to explain a decrease in grade. The overall grade of the ore zone is >0.4% copper, but within this zone and excluding the waste blocks described above, values can be erratic and include small areas of waste.

The Granisle open pit is physically constrained on its east side by proximity to Babine Lake and to the south by a tailings area. An assay wall cut-off is indicated on the west side of the pit, but previous drilling indicated a zone of ore grade material in the north wall. Unfortunately, the recent drilling has shown this is a small ore plug with too great a waste to ore ratio to be mined by open pit methods. Other exploration holes along the north wall gave no encouragement for a push back of the wall.

9.0) RERERENCES

Carter, N.C., (1965). Report to the Minister of Miner and Petroleum Resources of B.C., pp. 99-99.

Fahrni, K.C., (1967). Geology of the Granisle Copper Deposit. In house report - Granby Mining Co. Ltd.

Fahrni, K.C., (1963). Geological Report - Copper Island Claims, Babine Lake, B.C.. Assessment Report 529. Granby Mining Co. Ltd.

Fahrni, K.C., Kim, H., Klein, G.H., Carter, N.C. (1976). Granisle in Porphyry Deposits of the Canadian Cordillera. Canadian Institute of Mining and Metallurgy Special Volume 15, pp. 239-244.

Lay, Douglas, (1927). Report to the Minister of Mines of B.C. "Richmond Group", pp. 149.

10.0) STATEMENT OF COSTS

| SERVICE | DESCRIPTION | EXPENDITURES | TOTAL (\$) |
|--------------------|---------------------------------|--------------|--------------|
| J.T. THOMAS | DIAMOND DRILLING (31592 FT) | \$431,756.20 | |
| | TRACTOR | \$13,500.00 | |
| | MATERIALS | \$1,994.60 | |
| | MACHINE/MAN HOURS | \$105.00 | |
| | SPERRY SUN | \$5,026.70 | \$452,382.50 |
| GALLANT TRUCKING | WATER TRUCK/STORAGE TANK/TRAVEL | \$12,528.00 | \$12,528.00 |
| BELL ASSAY LAB | WAGES - 5 EMPLOYEES (OCT-DEC) | \$14,906.30 | \$14,906.30 |
| BELL CORESHACK | WAGES - 6 EMPLOYEES (OCT-DEC) | \$21,237.06 | \$21,237.06 |
| CONSULTANTS (GEOL) | WAGES - DIRDM (OCT-NOV) | | |
| | KRAFT (OCT-NOV) | | |
| | PARDQE (OCT-DEC) | | |
| | VERZOSA (OCT-NOV) | \$22,875.74 | \$22,875.74 |
| TOTAL EXPENDITURES | | \$523,929.60 | |

J.T. Thomas Diamond Drilling
Cost Summary - Granisle 1990

January 7, 1991

| INVOICE NUMBER | INVOICE DATE | DDH FOOTAGE | DDH (\$) | TRACTOR (\$) | MATERIALS (\$) | MACHINE/MAN HRS (\$) | SPERRY SUN (\$) | TOTAL INVOICE |
|----------------|--------------|-------------|--------------|--------------|----------------|----------------------|-----------------|---------------|
| 90-21 | 02/11/90 | 3574 | \$48,484.80 | \$2,325.00 | | \$105.00 | | \$50,914.80 |
| 90-22 | 02/11/90 | 2656 | \$35,941.20 | \$1,650.00 | | | | \$37,591.20 |
| 90-24 | 20/11/90 | 7786 | \$106,018.40 | \$2,850.00 | | | | \$108,868.40 |
| 90-25 | 20/11/90 | 7433 | \$102,297.80 | \$3,075.00 | \$1,007.30 | | | \$106,380.10 |
| 90-26 | 30/11/90 | 4872 | \$67,725.60 | \$2,100.00 | \$987.30 | | | \$70,812.90 |
| 90-27 | 30/11/90 | 5271 | \$71,288.40 | \$1,500.00 | | | | \$72,788.40 |
| 90-29 | 04/12/90 | | | | | | \$3,665.78 | \$3,665.78 |
| 90-30 | 31/12/90 | | | | | | \$1,360.92 | \$1,360.92 |
| Category Total | | 31592 | \$431,756.20 | \$13,500.00 | \$1,994.60 | \$105.00 | \$5,026.70 | \$452,382.50 |

Gallant Trucking
Cost Summary - Granisle 1990

| INVOICE # | INVOICE DATES | DESCRIPTION | INVOICE |
|-----------|---------------|-------------------------------|-------------|
| 091 | Nov 8-22 /90 | Travel - Kaaloops to Granisle | \$864.00 |
| | | Water truck and storage tank | \$10,800.00 |
| | | Travel - Granisle to Kaaloops | \$864.00 |
| Total | | | \$12,528.00 |

Bell Assay Lab
Wage Summary - Granisle 1990

January 4, 1991

| EMPLOYEE | EMPLOYEE # | EMPLOYMENT DATES | GROSS PAY |
|---------------------|------------|-------------------|--------------|
| BACH, Sue | 276 | Oct 29-Dec 7 /90 | \$3,228.00 * |
| BOUWKNECHT, Darcine | 950 | Oct 29-Nov 13 /90 | \$1,549.01 |
| JENKINSON, Sally | 934 | Sept 4-Oct 31 /90 | \$1,384.99 * |
| | 958 | Nov 8-Dec 7 /90 | \$2,345.05 |
| MCCLUSKY, Wendy | 952 | Oct 30-Dec 3 /90 | \$3,658.41 |
| PAYNE, Vivian | 959 | Nov 5-Dec 3 /90 | \$2,740.84 |
| TOTAL PAY | | | \$14,906.30 |

* Estimated value due to estimated hours

Coreshack
Wage Summary - Granisle 1990

January 3, 1991

| EMPLOYEE | EMPLOYEE # | EMPLOYMENT DATES | GROSS PAY |
|------------------|------------|-------------------|-------------|
| ALLEN, Cindy | 954 | Oct 30-Dec 3 /90 | \$3,392.75 |
| GIBBARD, Louise | 947 | Oct 23-Dec 12 /90 | \$4,037.63 |
| JOHST, Phillip | 953 | Oct 30-Dec 3 /90 | \$3,378.74 |
| TOBIN, Betty Lee | 955 | Nov 1-29 /90 | \$3,182.60 |
| WILLIAMS, Pearl | 956 | Nov 1-Dec 12 /90 | \$3,395.93 |
| YOUNG, Don | 948 | Oct 23-Dec 4 /90 | \$3,849.41 |
| TOTAL PAY | | | \$21,237.06 |

Consultants (Geological)
Wage Summary - Granisle 1990

January 4, 1991

| Consultant | Contract Dates | Description | Total Invoice | Totals |
|---------------|----------------------|-------------------------------|-----------------|-------------|
| DIRON, Gavin | Oct 90 | Approx. 40% of Oct 90 invoice | \$3,584.16 | |
| | Nov 90 | Approx. 19% of Nov 90 invoice | \$1,554.08 | |
| | Dec 90 | Not Available | | \$5,138.24 |
| KRAFT, Tom | Oct 23-Nov 4 /90 | Core logging (13 days) | \$2,600.00 | \$2,600.00 |
| PARDOE, Jill | Oct 17-31 /90 | Drill prep and supervision | \$3,185.00 | |
| | Nov 1-15 /90 | Core logging (15 days) | \$3,675.00 | |
| | Nov 16-22, 24-28 /90 | Core logging (12 days) | \$2,940.00 | \$9,800.00 |
| VERZOSA, Raul | Oct 29-Nov28 | Core logging (30.5 days) | \$5,337.50 | \$5,337.50 |
| | | | TOTAL FEES PAID | \$22,875.74 |

11.0) Statement of Qualifications

I, Allison Jill Pardoe, certify that:

1. I am a geologist residing at R.R.#1, Quick West Road, Telkwa, B.C.
2. I completed the requirements of my degree in December of 1987 and am a 1988 graduate of the University of Saskatchewan, Saskatoon, Saskatchewan, with an Honours Bachelor of Science degree in Earth Sciences
3. As a student, I spent twenty months employed in the mineral exploration field with several mining companies in British Columbia.
4. I was employed as an exploration geologist with Total Energold Corporation, Vancouver, B.C. from January to April of 1988.
5. Since May of 1988, I have worked as a geological consultant for several mining companies, including Noranda Bell Mine in Granisle, B.C.
6. I personally supervised the work program described in this report.

A.J. Pardoe

A.J.Pardoe
Consulting Geologist

February 26, 1991.

APPENDIX I: DIAMOND DRILL LOGS

| PROPERTY: GRANISLE PERM DDH#: G90-01 TEMP DDH#: G90-AS | FIELD COORDINATES (Metric) ===== NORTHING: 3352.8 AZIMUTH: 90 EASTING: 3465.6 DIP: -45 ELEVATION: 615.1 LENGTH: 228.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------|-------|---------|-----|--|-------|-------|-----|----|------|----|-----|----|-------|----|-----|----|-------|----|-------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| ===== GEOLOGIST: T. Kraft COL. DATE: 90/10/24 EOH DATE: 90/10/25 DRILL#: 44-5 CORE SIZE: NQ | ===== SURVEY COORDINATES (Metric) ===== NORTHING: 3353.2 AZIMUTH: 90 EASTING: 3466.4 DIP: -45 ELEVATION: 616.0 LENGTH: 227.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ===== COMMENTS ===== | ===== DOWNHOLE SURVEY METHOD: SPERRY SUN ===== <table border="1"> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>-----</th> <th>-----</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>93.3</td> <td>86</td> <td>-44</td> </tr> <tr> <td>2:</td> <td>187.8</td> <td>91</td> <td>-44</td> </tr> <tr> <td>3:</td> <td>227.4</td> <td>91</td> <td>-44.5</td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ----- | ----- | --- | 1: | 93.3 | 86 | -44 | 2: | 187.8 | 91 | -44 | 3: | 227.4 | 91 | -44.5 | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ----- | ----- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 93.3 | 86 | -44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 187.8 | 91 | -44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 227.4 | 91 | -44.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-01 | Final date: 91/01/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|--------|----------|------|--------|---|---|-----|------|------|-------------|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 32.3 | 100 | | | | | | | erally weakly magnetic with locally strongly magnetic areas; strong biotite altered. | | | | | | 30.6 | 34.9 | 10757 | 0.40 | 0.00 | 0.0047 |
| 35.4 | 100 | | | | | | | | | | | | | 34.9 | 39.2 | 10758 | 0.42 | 0.00 | 0.0055 |
| 38.4 | 94 | 38.4 | 63.0 | BBFPV? | 38.4 | 63.0 | C7Zmk | 15% plag phenos up to 0.1", white in colour; 10% bio phenos up to 0.1" dark grey to black matrix of lath shaped horn-blende and bio; strong grey/white qz stkwk (erratic veins and veinlets) weak to mod magnetic; occasional strong patchy hem assoc with 0.3' X 0.3' wide qz rich/bleached patches (rare) hard; silicified; unknown upper contact (a little vague); calcite and minor sulphides along unhealed fractures; at 118' 2" wide late stage vuggy/qz/gypsum vein at 40 deg to core axis. | 4% sulphides; cpy >> py > moly > bornite; diss = fracture fillings. | 4 | 36.9 | | | 39.2 | 43.6 | 10759 | 0.67 | 0.02 | 0.0079 |
| 41.5 | 100 | | | | | | | (130.1-130.5) Frail; gouge; at about 50 deg to C/A; fault. | | | | | | | | | | | |
| 44.5 | 100 | | | | | | | (149.5-150.2) BBFP dyke; same as above dykes, only a little darker ground-mass; at 26 deg to C/A; includes angular grey/white qz frags; minor locally crushed, frail core. | | | 43.0 | | | 43.6 | 47.9 | 10760 | 0.51 | 0.04 | 0.0053 |
| 47.5 | 100 | | | | | | | (151.5-152.5) Frail, broken core; possible 15% pale greenish gypsum? | | | | | | 47.9 | 52.2 | 10761 | 0.46 | 0.00 | 0.0055 |
| 50.6 | 100 | | | | | | | (179-185) 10% buff coloured angular tuff xenoliths 0.2"-4". | | | 51.2 | | | 52.2 | 56.5 | 10762 | 0.39 | 0.00 | 0.0038 |
| 56.7 | 100 | | | | | | | (193-197.6) BBFP dyke; sharp contacts; much larger crystals and very crowded phenos; 20% bio phenos up to 0.15"; and plag phenos (70%) up to 0.15"; very fine grained grey matrix; no grey/white qz stkwk as noted in host. | | | | | | 56.5 | 60.8 | 10763 | 0.23 | 0.00 | 0.0038 |
| 59.7 | 100 | | | | | | | | | | | | | | | | | | |
| 62.8 | 100 | 63.0 | 134.5 | BBFP | 63.0 | 86.8 | C7Zmks | Appears to have sharp upper contact, but | 3 % sulphides; cpy >> py > | 3 | | | | 60.8 | 65.1 | 10764 | 0.30 | 0.00 | 0.0035 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: 690-01 | Final date: 91/01/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|---|---|-----|------|-------|-------------|-------|-------|---------|--------|--------|----------|--------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | |
| 96.3 | 100 | | | | | | | at 59 deg ot C/A, no carbonate. (317.2-324.7)Bleached; 318.5-320.5 is blocky/crushed, frail core. | Cpy < py << mo diss > frac- ture fillings. | 4 | 96.3 | | | 95.3 | 99.6 | 10772 | 0.31 | 0.00 | 0.0032 | |
| 99.4 | 100 | | | | | | | (330.2-340)Blocky core; pieces vary from 1" TO 5"; minor local gouge. | | | | | | 99.6 | 103.9 | 10773 | 0.28 | 0.00 | 0.0023 | |
| 102.4 | 100 | | | | | | | (345.6-352.2) Variably bleached; bio -> ser; very local contact. | Strong py along recent unhealed fractures, py >> cpy >> fracture filing > diss. | 4 | | 104.9 | | | 103.9 | 108.2 | 10774 | 0.34 | 0.00 | 0.0020 |
| 108.5 | 100 | | | | | | | | | | | | | 108.2 | 112.5 | 10775 | 0.28 | 0.00 | 0.0020 | |
| 111.6 | 100 | | | | | | | (361.2-373.8) 90% bleached; most of bio -> ser; plag laths still visible and white; 5% crushed. | 4% sulphides; diss > frac- ture fillings; py > cpy. | 4 | | | | 112.5 | 116.8 | 10776 | 0.36 | 0.00 | 0.0026 | |
| 117.7 | 100 | | | | | | | (391.2-391.7) Blocky core. | (394) Visible Mo with cpy. | | | 117.0 | | 116.8 | 121.1 | 10777 | 0.22 | 0.00 | 0.0020 | |
| 120.7 | 100 | | | | | | | | | | | | | 121.1 | 125.5 | 10778 | 0.41 | 0.00 | 0.0032 | |
| 123.7 | 100 | | | | | | | (415.3-420) Very, very strong grey/white qz stkwk; hem blebs with cpy along frac- tures and within qz str. | 5% sulphides; cpy >>>> Mo. | 5 | | 124.4 | | | 125.5 | 129.8 | 10779 | 0.31 | 0.00 | 0.0041 |
| 126.8 | 100 | | | | | | | (424.2-425) Bleached; all bio -> ser. | Py = cpy. | | | | | | | | | | | |
| 129.8 | 100 | | | | 129.3 | 131.8 | C7ZmYs | (424.2-432.5) Blocky core; pieces vary from 1/2" to 3". | | | | | | 129.8 | 134.1 | 10780 | 0.31 | 0.00 | 0.0041 | |
| 132.9 | 100 | | | | 131.8 | 134.5 | C7ZmKs | (430-431.8) Very bleached; frail. | Strs 0.05" of py with py alt'd envelope. | | | 132.6 | | | | | | | | |
| 135.9 | 100 | 134.5 | 179.9 | VOLC | 134.5 | 151.9 | VBzmBs | (441.2-446) Breccia; complex unit; appears to be clast supported; frags vary from 0.25" to 2"; frags are angular to subrounded; include BFP, ser (buff coloured)alt'd tuff and mafic volcanics; grey/white qz stkwk continues thru breccia; totally healed; fine grained dark coloured matrix; generally 50-60% of frags are BBFP1; sharp contacts at 48 deg to C/A; 30% of frags are buff coloured, aphanitic (ash tuff?); occa- | Cpy >>> py; fracture fillings >> dissem; sul- phides still within frac- tures, not in intersti- tially between frags. | 2 | | | 135.0 | | 134.1 | 138.4 | 10781 | 0.30 | 0.00 | 0.0023 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-01 | Final date: 91/01/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|---|---|-----|-------|------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 139.0 | 100 | | | | | | | sional K-spar veinlet. No lineation of frags. (446-457.6) BBFP1 dyke. | At 446: 2% Mo along recent unhealed fracture. | | | | | 138.4 | 142.7 | 10782 | 0.27 | 0.00 | 0.0026 |
| 142.0 | 100 | | | | | | | 457.6-498.3: Breccia: part of same Bx | See above bx unit. | | 142.0 | | | 142.7 | 147.0 | 10783 | 0.37 | 0.00 | 0.0023 |
| 145.1 | 100 | | | | | | | unit above; see above for general descriptions. | | | | | | | | | | | |
| 148.1 | 100 | | | | | | | | | | 149.4 | | | 147.0 | 151.3 | 10784 | 0.59 | 0.00 | 0.0041 |
| 151.2 | 100 | | | | 151.9 | 179.9 | VBzMK> | Volcanics. Upper contact has a 4" gradational zone; dark grey to black in colour; very, very fine grained to aphanitic; appears to be comprised of bio and plag? (too small to be sure; approx 25% of qz stwk is hairline sized fractures; mod to strongly magnetic; hard silicified; weak to mod qz stkwk generally carbonate along fractures. An odd unit; often bx'd near dykes. | 2% sulphides; cpy >> py; fracture fillings > diss; higher concentrations of cpy near distinct BBFP1 dykes and main intrusive body; Note: in BBFP1 dykes, the diss >>> fracture fillings and cpy > py. | 2 | | | | 151.3 | 155.6 | 10785 | 0.25 | 0.00 | 0.0020 |
| 154.2 | 100 | | | | | | | | | | | | | | | | | | |
| 157.3 | 100 | | | | | | | | | | | | 157.6 | | | | | | |
| 160.3 | 100 | | | | | | | (526.1-526.3) Very narrow BBFP1 dyke at 45 deg to C/A; very distinct crowded porphyry with bio/plag phenos. | | | | | | 159.9 | 164.2 | 10787 | 0.29 | 0.00 | 0.0026 |
| 163.4 | 100 | | | | | | | (535.3-537.3) BBFP1 dyke; crowded porphyry with distinct phenos and sharp contacts. | | | | | | 162.2 | | | | | |
| 166.4 | 100 | | | | | | | (538.1-538.4) BBFP1 dyke as above. | | | | | | | | | | | |
| 169.5 | 100 | | | | | | | (538.7-539) BBFP1 dyke as above. | | | | | | | | | | | |
| 172.5 | 100 | | | | | | | (549-553.2) BBFP1 dyke as above. | | | | | | 168.6 | 172.9 | 10789 | 0.41 | 0.00 | 0.0044 |
| 175.6 | 100 | | | | | | | (562.6-566) BBFP1 dyke as above. | | | | | | 172.9 | 177.2 | 10790 | 0.48 | 0.00 | 0.0029 |
| 178.6 | 100 | | | | | | | (573.8-582.6) BBFP1 dyke as above; 5% chloritic clots 0.1". | | | | | | 175.6 | | | | | |
| 181.7 | 100 | 179.9 | 199.8 | BBFP | 179.9 | 199.8 | C5zmk= | Cont'd crowded fine to med grained porphyry as observed from 206.6-498.3. | 2% sulphides; cpy >> py > Mo fracture fillings = | 2 | | | | 177.2 | 181.5 | 10791 | 0.41 | 0.00 | 0.0034 |
| 184.7 | 100 | | | | | | | above; has a salt/pepper speckled appearance; plag/bio crystals easily visible, but are only up to 0.05" in size; weak | diss/blebs. | | | | | 181.5 | 185.8 | 10792 | 0.59 | 0.00 | 0.0041 |
| 187.8 | 100 | | | | | | | | | | 184.7 | | 185.3 | | | | | | |
| | | | | | | | | | | | | | | 185.8 | 190.1 | 10793 | 0.40 | 0.00 | 0.0039 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-01 | Final date: 91/01/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|---|---|-----|------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 190.8 | 100 | | | | | | | grey/white qz stkwk; poss weak gypsum? with calcite along open fractures more equigranular than porphyritic; weakly to moderately magnetic; hard rock. | | | | | | 190.1 | 194.4 | 10794 | 0.51 | 0.00 | 0.0058 |
| 193.9 | 100 | | | | | | | (525.2-526.3) Slightly bleached, qz-rich zone with 3% cpy. | | | | | | 194.4 | 198.7 | 10795 | 0.40 | 0.00 | 0.0044 |
| 196.9 | 100 | | | | | | | | | | | 196.9 | | | | | | | |
| 199.9 | 100 | 199.8 | 227.4 | VOLC | 199.8 | 209.3 | VbzMks | Volcanics identical to rocks in 498.3- 590.3; fine grained to aphanitic; dark grey to black in colour; locally bx'd? grey/white qz str continuous thru zone; weak grey/white qz stkwk with cross-cut- ting carbonate filled fractures; sharp upper contact, but a gradational lower contact; qz stwk is continuous thru both contacts. | Note: Here, we have a much higher incidence of cpy filled fractures than in BBFP1; cpy >>> py; fracture-filling >>> diss. | 4 | | | 198.7 | 203.0 | 10796 | 0.63 | 0.00 | 0.0064 | |
| 203.0 | 100 | | | | | | | | | | | | | 203.0 | 207.4 | 10797 | 0.37 | 0.00 | 0.0044 |
| 206.0 | 100 | | | | | | | | | | | 203.6 | | | | | | | |
| 209.1 | 100 | 0.0 | 0.0 | | 209.3 | 214.7 | C5zmks | BBFP1; same unit as above; crowded; equi- granular to slightly porphyritic; bio/ plag up to 0.05"; weak grey/white qz str stkwk; weak to mod magnetic; gradational upper contact with volcanics; chilled margin with lower mafic volcanic lapilli tuff unit; mod to strong 2nd bio in groundmass. | 2% sulphides; cpy >> py; fracture fillings >> diss. | 2 | | | | 207.4 | 211.7 | 10798 | 0.33 | 0.00 | 0.0031 |
| 212.1 | 100 | | | | | | | | | | | 211.5 | | | | | | | |
| 215.2 | 100 | 0.0 | 0.0 | | 214.7 | 227.4 | VBzMks | Volcanics; same as above volcanics; could be mafic volcanic lapilli tuff with minor interbeds of med grained tuff generally 80% mafic volc lapilli/tuffa- ceous frags with 5-15% buff coloured frags; lapilli up to 3" dark grey to black in colour; difficult to see frags due to dark colour of tuff and lapilli; very weak grey/white qz stkwk; mod to strong hairline fractures infilled with sulphides (dom cpy), qz and carb; mod | 3-4% sulphides; cpy >>> py >> Mo; fracture filling >> diss. | 3-4 | | | 216.0 | 220.3 | 10800 | 0.29 | 0.00 | 0.0038 | |
| 218.2 | 100 | | | | | | | | | | | 216.4 | | | | | | | |
| 221.3 | 100 | | | | | | | | | | | | | 220.3 | 224.6 | 10801 | 0.30 | 0.00 | 0.0035 |
| 224.3 | 100 | | | | | | | | | | | | 222.8 | 224.6 | 227.4 | 10802 | 0.43 | 0.00 | 0.0047 |

PROPERTY: GRANISLE
 PERM DDH#: G90-02
 TEMP DDH#: G90-AH

GEOLOGIST: A.J.Pardoe

COL. DATE: 90/10/24
 EOH DATE: 90/10/25

DRILL#: 44-5
 CORE SIZE: NQ

COMMENTS
 =====

FIELD COORDINATES (Metric)
 =====

NORTHING: 3230.9 AZIMUTH: 90
 EASTING: 3124.2 DIP: -50
 ELEVATION: 669.3 LENGTH: 304.8

SURVEY COORDINATES (Metric)
 =====

NORTHING: 3230.9 AZIMUTH: 090
 EASTING: 3124.1 DIP: -50
 ELEVATION: 669.5 LENGTH: 0.0

DOWNHOLE SURVEY METHOD: SPERRY SUN
 =====

| | DEPTH | AZIMUTH | DIP |
|-----|-------|---------|-------|
| 1: | 61.0 | 082 | -46.5 |
| 2: | 121.9 | 022 | -45 |
| 3: | | | |
| 4: | | | |
| 5: | | | |
| 6: | | | |
| 7: | | | |
| 8: | | | |
| 9: | | | |
| 10: | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-02 | Final Date: 17 91/01/11/18 | | | | | | SAMPLE DATA | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|---|--|------|-------|-------|-----|------|-------------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 93.6 | 100 | | | | 93.0 | 100.9 | B2ZMDd | Int dalmationite. Groundmass is light grey with indistinct FSP crystals. | Py > cpy. Loc diss. Patchy mod taint mag (generally in dalm. spots). | <1% | | | | | | | | | |
| 96.6 | 100 | | | | | | | Massive, very local gyp vnlt. | | | 99.4 | | | | | | | | |
| 99.7 | 100 | | | | 100.9 | 110.9 | BZbmd< | Med to med dark grey groundmass with distinct FSP phenos. Weak to loc dalmationite. Mod to int si (siliceous groundmass). Massive with extremely rare qz and gyp vnlt. | Py +/- cpy, diss and loc on frac planes. Mod mag in dalm areas decrease to weak in zns w/o dalm. | <1% | | | | | | | | | |
| 102.7 | 100 | | | | | | | Loc weak 2nd BT. 1st BT looks fresh and loc HBL visible. | | | 107.9 | 108.5 | | | | | | | |
| 105.8 | 100 | | | | | | | | | | | | | | | | | | |
| 108.8 | 100 | 110.9 | 145.4 | BBFP | 110.9 | 134.9 | C5--m= | 364-396: Med dark to dark grey groundmass with white to grey crowded FSP and black BT phenos. Variable weak to mod sugary, sometimes pale brown/yellow 2nd BT. Mod si. Massive with loc to weak qz str. | 364-405.7: Py >> cpy, diss >= str. | <1% | | | | | | | | | |
| 111.9 | 100 | | | | | | | | | | | | | | | | | | |
| 114.9 | 100 | | | | | | | | | | | | | | | | | | |
| 118.0 | 100 | | | | 120.7 | 123.7 | --K-f | 396-405.7: Weak fault zone. Several crushed and loc gouged sections (~4" wide) in upper 5'. Weak to mod carb vnlt at mod to high angles to C/A. | | | 119.5 | | | | | | | | |
| 121.0 | 100 | | | | | | | | | | | | | | | | | | |
| 124.1 | 100 | | | | | | | 405.7-442.5: As at 364 but FSP phenos loc are white and weak ser'd. Loc dalm. Mod 2nd BT. Loc very weak dark grey sections. | Cpy >= py diss > str. Very loc mag in lowert part of section. | <1-2 | | | | | | | | | |
| 127.1 | 100 | | | | | | | | | | 129.5 | | | | | | | | |
| 130.1 | 100 | | | | | | | | | | | | | | | | | | |
| 133.2 | 100 | | | | 134.9 | 145.4 | C7ZMKD | Dark grey groundmass with indistinct grey FSP and dark brown BT phenos. Int 2nd BT. Int si obscures porphyry texture weak to very fine qz vnlt. | Cpy >> py, diss >>> str. Mod to int mag. | 4-5 | | 135.0 | | | | | | | |
| 136.2 | 100 | | | | | | | | | | | | | | | | | | |
| 139.3 | 100 | | | | | | | (460.5-470) Weak broken, slight bleach in lower 3'. | | | 140.8 | | | | | | | | |
| 142.3 | 100 | | | | | | | | | | | | | | | | | | |
| 145.4 | 45 | | | | 143.3 | 145.4 | ----F | Very badly broken, loc ground core, poor recovery. Hole stopped at 477' as drillers broke through pit wall? EOM (477 ft) | | | | | | 6.7 | 10.8 | 10805 | 0.1 | 0 | 0.0014 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-02 | Final Date: 17 91/01/11/18 | | | | | SAMPLE DATA | | | | | |
|--------|------|-----------|----|------|----------|----|-----|------------------------|----------------------------|-----|------|------|-----|-------------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | | | | | | | | | | | | | 10.8 | 14.9 | 10806 | 0.16 | 0 | 0.002 |
| | | | | | | | | | | | | | | 14.9 | 19.0 | 10807 | 0.06 | 0 | 0.0026 |
| | | | | | | | | | | | | | | 19.0 | 23.1 | 10808 | 0.13 | 0 | 0.0011 |
| | | | | | | | | | | | | | | 23.1 | 27.2 | 10809 | 0.06 | 0 | 0.0008 |
| | | | | | | | | | | | | | | 27.2 | 31.3 | 10810 | 0.14 | 0 | 0.0017 |
| | | | | | | | | | | | | | | 31.3 | 35.4 | 10811 | 0.15 | 0 | 0.0017 |
| | | | | | | | | | | | | | | 35.4 | 39.5 | 10812 | 0.08 | 0 | 0.0014 |
| | | | | | | | | | | | | | | 39.5 | 43.6 | 10813 | 0.13 | 0 | 0.0023 |
| | | | | | | | | | | | | | | 43.6 | 47.7 | 10814 | 0.19 | 0 | 0.0023 |
| | | | | | | | | | | | | | | 47.7 | 51.8 | 10815 | 0.16 | 0 | 0.0038 |
| | | | | | | | | | | | | | | 51.8 | 55.9 | 10816 | 0.2 | 0 | 0.002 |
| | | | | | | | | | | | | | | 55.9 | 60.0 | 10817 | 0.15 | 0 | 0.0015 |
| | | | | | | | | | | | | | | 60.0 | 64.1 | 10818 | 0.15 | 0 | 0.0012 |
| | | | | | | | | | | | | | | 64.1 | 68.2 | 10819 | 0.14 | 0 | 0.0018 |
| | | | | | | | | | | | | | | 68.2 | 72.3 | 10820 | 0.18 | 0 | 0.0012 |
| | | | | | | | | | | | | | | 72.3 | 76.4 | 10821 | 0.08 | 0 | 0.0012 |
| | | | | | | | | | | | | | | 76.4 | 80.5 | 10822 | 0.07 | 0 | 0.0012 |
| | | | | | | | | | | | | | | 80.5 | 84.6 | 10823 | 0.15 | 0 | 0.0018 |
| | | | | | | | | | | | | | | 84.6 | 88.8 | 10824 | 0.34 | 0 | 0.0024 |
| | | | | | | | | | | | | | | 88.8 | 92.8 | 10825 | 0.3 | 0 | 0.0029 |
| | | | | | | | | | | | | | | 92.8 | 97.0 | 10826 | 0.15 | 0 | 0.0041 |
| | | | | | | | | | | | | | | 97.0 | 101.0 | 10827 | 0.09 | 0 | 0.0009 |
| | | | | | | | | | | | | | | 101.0 | 105.2 | 10828 | 0.16 | 0 | 0.0018 |
| | | | | | | | | | | | | | | 105.2 | 109.2 | 10829 | 0.1 | 0 | 0.0009 |
| | | | | | | | | | | | | | | 109.2 | 113.4 | 10830 | 0.15 | 0 | 0.0026 |
| | | | | | | | | | | | | | | 113.4 | 117.4 | 10831 | 0.2 | 0 | 0.0018 |
| | | | | | | | | | | | | | | 117.4 | 121.6 | 10832 | 0.21 | 0 | 0.0021 |
| | | | | | | | | | | | | | | 121.6 | 125.7 | 10833 | 0.17 | 0.04 | 0.0015 |
| | | | | | | | | | | | | | | 125.7 | 129.8 | 10834 | 0.18 | 0.04 | 0.0021 |
| | | | | | | | | | | | | | | 129.8 | 133.9 | 10835 | 0.21 | 0 | 0.0021 |
| | | | | | | | | | | | | | | 133.9 | 138.0 | 10836 | 0.2 | 0 | 0.0021 |
| | | | | | | | | | | | | | | 138.0 | 142.1 | 10837 | 0.29 | 0 | 0.0021 |
| | | | | | | | | | | | | | | 142.1 | 145.4 | 10838 | 0.52 | 0.02 | 0.0047 |

| PROPERTY: GRANISLE PERM DDH#: G90-03 TEMP DDH#: G90-AM | FIELD COORDINATES (Metric) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------|-------|---------|-----|--|-------|-------|-----|----|-------|----|-----|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| ===== GEOLOGIST: T.Kraft COL. DATE: 90/10/25 EOH DATE: 90/10/29 DRILL#: 44-5 CORE SIZE: NQ | ===== NORTHING: 3291.8 AZIMUTH: 90 EASTING: 3200.4 DIP: -45 ELEVATION: 661.4 LENGTH: 304.8 ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ===== COMMENTS ===== | SURVEY COORDINATES (Metric) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ===== NORTHING: 3291.7 AZIMUTH: 90.57 EASTING: 3202.3 DIP: -45 ELEVATION: 660.3 LENGTH: 300.2 ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>-----</th> <th>-----</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>118.0</td> <td>81</td> <td>-46</td> </tr> <tr> <td>2:</td> <td>172.8</td> <td>88</td> <td>-45.5</td> </tr> <tr> <td>3:</td> <td>261.2</td> <td>91</td> <td>-45.5</td> </tr> <tr> <td>4:</td> <td>290.5</td> <td>86</td> <td>-45.5</td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ----- | ----- | --- | 1: | 118.0 | 81 | -46 | 2: | 172.8 | 88 | -45.5 | 3: | 261.2 | 91 | -45.5 | 4: | 290.5 | 86 | -45.5 | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ----- | ----- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 118.0 | 81 | -46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 172.8 | 88 | -45.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 261.2 | 91 | -45.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | 290.5 | 86 | -45.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-03 | Final Date: 17 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|------|------|----------|------|--------|--|---|-----|------|------|-------------|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 4.0 | | 0.0 | 4.0 | CASE | 0.0 | 4.0 | | Casing, includes 1' of boulders. | | | | | | | | | | | |
| 5.2 | 100 | 4.0 | 23.1 | BBFP | 4.0 | 14.0 | C5-mDd | Salt/pepper colour; very crowded porphyry generally med grained; 70% plag crystals up to 0.15"; 10% bio crystals up to 0.1" 3% lath shaped horn up to 0.05"; ~ 20% light grey, very, very fine grained matrix; poss weak section BT alt'n; locally med greenish spots generally 0.3" in size making up 20% of rock; 2% white/grey qz veinlets (very, very, very weak); very, very weak to nil magnetic; hard; very, very rare fractures, but generally open or occasionally filled with qz; some of finer grained BT alt'd to ser; generally homo unit; trace bleb of hem. (13-46) Dalmationite; up to 20% of rock (circular greenish spots scattered throughout rock). (13-16) Intensely bleached, clay alt'd plag; all BT -> ser; strongly fractured; occasional limonite along fractured surfaces. | 1-2% sulphides; diss >>> fracture fillings; trace occasional Mo. | 1-2 | | | | 3.4 | 7.1 | 10852 | 0.14 | 0.00 | 0.0024 |
| 8.2 | 100 | | | | | | | | | | 7.9 | | | 7.1 | 11.4 | 10853 | 0.14 | 0.00 | 0.0018 |
| 11.3 | 100 | | | | | | | | | | | | | 11.4 | 15.7 | 10854 | 0.17 | 0.00 | 0.0018 |
| 14.3 | 100 | | | | 14.0 | 23.1 | C5-mkd | (43-47) Locally mod to intensely frac- tured; plag becomes clay; local gouge/ crushed core. | | 65 | | | | 15.7 | 20.0 | 10855 | 0.15 | 0.00 | 0.0012 |
| 17.4 | 100 | | | | | | | | | | 20.4 | | | 20.0 | 24.3 | 10856 | 0.18 | 0.02 | 0.0021 |
| 20.4 | 100 | | | | | | | | | | | | | 20.0 | 24.3 | 10856 | 0.18 | 0.02 | 0.0021 |
| 23.5 | 100 | 23.1 | 41.8 | RHYD | 23.1 | 41.8 | R2-Hmd | Felsic lappili tuff; variably 60-80% felsic angular to subrounded fragments varying from 0.1"-4"; 5% BFP frags; felsic frags vary from almost white to buff coloured; commonly difficult to distinguish individual frags; strong discontinuous wavy veinlets and blebs of hem (5%); occasional K-spar flooding | 2-3% sulphides; py >> cpy >> Mo; fine grained diss >> Mo along salvages of grey qz veinlets. | 2-3 | | | | 24.3 | 28.6 | 10857 | 0.18 | 0.00 | 0.0020 |
| 26.5 | | | | | | | | | | | | | | | | | | | |
| 29.6 | | | | | | | | | | | | | | 28.6 | 32.9 | 10858 | 0.18 | 0.00 | 0.0012 |
| 32.6 | | | | | | | | | | | 32.6 | | | 32.9 | 37.2 | 10859 | 0.15 | 0.00 | 0.0023 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-03 | Final Date: 17 91/01/18 | | | | SAMPLE DATA | | | | | | | | |
|--------|------|-----------|------|------|----------|------|--------|---|--|-----|------|------|-------------|------|------|---------|--------|--------|----------|--------|--|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | | |
| 35.7 | | | | | | | | (3%); non-magnetic; patchy, fibrous BT (5%) throughout (in frags and in matrix) clast supported?; <1% grey/white quartz stkwk. (121-129.9) 25-40% speckled BT through- out (0.5%); gradational contacts. (129.9-135.6) Intensely silicified (qz flooded); mottled buff/grey tones; prob- ably sericitized as well; 90% of BT alt'd to ser; felsic lapilli still visible; very hard. | 3-4 sulphides py >> cpy >> 3-4 Mo; fracture fillings >> diss. | | | | | | | | | | | | |
| 38.7 | 100 | | | | | | | (135.6-137) Bt spotted (40%); 5-6% irregular shaped flooded with K-spar; mod to strong hem. | 3% sulphides; visible diss cpy with Mo throughout K-spar; fracture filling = diss; py > cpy >>> Mo. | 3 | | | | 38.7 | 37.2 | 41.6 | 10860 | 0.18 | 0.00 | 0.0018 | |
| 40.8 | 100 | | | | | | | (150-151) Blended; mottled; mod grey/ white qz veining to ser alt'd envelopes. | 3% py along fractures. | 3 | | | | | | | | | | | |
| 41.8 | 100 | 41.8 | 80.1 | BBFP | 41.8 | 45.7 | C--mid | BBFP dyke. 40% BT up to 0.2"; 30% BT up to 0.2"; 30% grey, very, very fine grain size and more lath shaped; patchy mag- netite, but genrally weakly magnetic, quite different from the BBFP unit below | 3% py, cpy; py = cpy; diss >>> fracture fillings. | 3 | | | | 41.6 | 45.9 | 10861 | 0.27 | 0.00 | 0.0023 | | |
| 44.8 | 100 | 0.0 | 0.0 | | 45.7 | 69.3 | Bb-mmd | 150-262.8: BBFP(1) Crowded porphyry; salt/pepper coloured; both plag/BT crystals up to 0.1" 60-70% plag; 15-20% BT; 10-20% grey matrix; 3-4% laths of horn up to 0.05" long; plag crystals generally larger than BT and horn; <1% grey/white qz stkwk; weak ser BT alt'n; nil to very weakly magnetic. | 1-2% sulphides; diss >>> fracture filings; py = cpy. | 1-2 | | | | | | | | | | | |
| 47.9 | 100 | | | | | | | (227.5-260.5) Blocky, broken core; pieces average 1/2" to 3"; no change. | 3% sulphides; cpy >> py >> Mo; most od sulphides along fractured surfaces with 0.5% fine diss Mo. | 3 | | | | | | | | | | | |
| 50.9 | 100 | | | | | | | | | | | | | 52.4 | 50.2 | 54.5 | 10862 | 0.28 | 0.00 | 0.0023 | |
| 53.9 | 100 | | | | | | | | | | | | | 54.5 | 58.8 | 10863 | 0.12 | 0.00 | 0.0018 | | |
| 57.0 | 100 | | | | | | | | | | | | | 54.5 | 58.8 | 10864 | 0.12 | 0.02 | 0.0015 | | |
| 60.0 | 100 | | | | | | | | | | | | | 62.8 | 58.8 | 63.1 | 10865 | 0.22 | 0.00 | 0.0020 | |
| 63.1 | 100 | | | | | | | | | | | | | 63.1 | 67.4 | 10866 | 0.23 | 0.00 | 0.0026 | | |
| 66.1 | 100 | | | | | | | | | | | | | | | | | | | | |
| 69.2 | 100 | | | | 69.3 | 80.1 | Bb-mYd | | | | | | | | | | | | | | |
| 72.2 | 100 | | | | | | | | | | | | | | | | | | | | |
| 75.3 | 100 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 67.4 | 71.7 | 10867 | 0.13 | 0.00 | 0.0015 | | |
| | | | | | | | | | | | | | | 71.7 | 76.0 | 10868 | 0.12 | 0.00 | 0.0012 | | |
| | | | | | | | | | | | | | | 76.0 | 80.4 | 10869 | 0.29 | 0.00 | 0.0020 | | |

| Metric | | MAIN UNIT | | SUB UNIT | | | DDH: G90-03 | Final Date: 17 91/01/18 | | | | SAMPLE DATA | | | | | | | | |
|--------|------|-----------|-------|----------|------|-------|-------------|--|--|-----|------|-------------|-----|-------|-------|---------|--------|--------|----------|--|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | |
| 78.3 | 100 | 80.1 | 119.0 | VOLC | 80.1 | 81.1 | T6--Bb | Breccia Zone; totally healed; mixed BBFP, felsic/mafic volc frags; rounded to very angular; quasi clast-supported; frags set in very, very, fine grained salt/pepper coloured tuffaceous matrix; 80% of frags BBFP/BFP frags; sharp contacts upper and lower; at 43 deg to C/A, probably mafic lapilli tuff. | 262.8-390.5: 3-4% sulphides cpy >> py; diss >>> fracture fillings. | 3-4 | | | | | | | | | | |
| 81.4 | 100 | | | | 81.1 | 119.0 | VGBmmd | Volcanics; dark grey coloured; fine to very fine grained; BT and horn visible up to 0.05" (20%); dark grey matrix; weak to mod magnetic; nil to very, very rare grey/white qz veinlets; gypsum appears infilling fractures 2" to 6" spacings mod to strong gypsum (fractures at 35 deg and 70 deg; this could be a mafic tuff from 266-348.8, then into a mafic lapilli tuff from 348-374, then mafic tuff from 374-390.5. | | | | | | | | | | | | |
| | | | | | | | | (318.4-327.1) BBFP dyke. | | | | | | 80.4 | 84.7 | 10870 | 0.32 | 0.00 | 0.0029 | |
| 84.4 | 100 | | | | | | | (329-332.5) BBFP dyke. | | | | | | 84.7 | 89.0 | 10871 | 0.29 | 0.00 | 0.0020 | |
| 87.5 | 100 | | | | | | | (367-371) Blocky core; pieces average 1/2" - 5"; minor local gouge. | | | | | | | | | | | | |
| 90.5 | 100 | | | | | | | (379.8-381.2) Broken, blocky core, pieces average 1/4" to 2". | | | | 93.0 | | 89.0 | 93.3 | 10872 | 0.23 | 0.00 | 0.0026 | |
| 93.6 | 100 | | | | | | | (384-387) Broken, blocky core; includes 3" wide bleached qz/ser alt'n zone at 16 deg to C/A. | | | | | | 93.3 | 97.6 | 10873 | 0.35 | 0.00 | 0.0032 | |
| 96.6 | 100 | | | | | | | (388.5-390.5) 60% blue/grey qz vein approximately 1" wide. | 3% cpy and 1% Mo; abundant fine diss Mo in qz giving it a bluish colour; the cpy infills fine hairline | | | | | | | | | | | |
| 99.7 | 100 | | | | | | | (379.6-397) BBFP dyke; same as BBFP unit below; a crowded porphyry. | erratic fractures within the qz vein. | | | | | 97.6 | 101.9 | 10874 | 0.17 | 0.00 | 0.0020 | |
| 102.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 105.8 | 100 | | | | | | | | | | | | | 101.9 | 106.2 | 10875 | 0.24 | 0.02 | 0.0020 | |
| 108.8 | 100 | | | | | | | | | | | | | 106.2 | 110.5 | 10876 | 0.30 | 0.00 | 0.0020 | |
| 111.9 | 100 | | | | | | | | | | | | | | | | | | | |
| 114.9 | 100 | | | | | | | | | | | | | 110.5 | 114.8 | 10877 | 0.37 | 0.00 | 0.0049 | |
| 118.0 | 100 | | | | | | | | | | | | | 114.8 | 119.1 | 10878 | 0.77 | 0.00 | 0.0049 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-03 | Final Date: 17 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|---|---|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|--------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | XSX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | |
| | | 119.0 | 164.6 | BBFP | 119.0 | 141.6 | C4d-Ms | (390.5-397) crowded porphyry; 60-70% plag crystals up to 0.15"; very fine grained greyish matrix; 10% mafic vol. xenoliths derived from above unit; 2% very fine grained laths of horn? strong 2nd BT. | | | | | | | | | | | | |
| 121.0 | 100 | | | | | | | 397-464.5: Same unit as above, but plag is slightly to strongly clay/ser/carb alt'd giving this subunit a slightly white appearance; BT is stable and matrix is slightly lighter, but generally stable and light grey coloured; approx every 12" is a carb filled fracture (approx 0.1 to 0.2" wide), the carb replacing the plag prob derived from thru fractures; 1-2% grey coloured qz veinlets; open fractures at ~ 48 deg to C/A; local minor crushed zones approx 3" wide; carbonate post-dates grey qz veinlets. | 1% sulphides; cpy = py; fracture filling >>> diss. | 1 | | | | | 119.1 | 123.5 | 10879 | 0.15 | 0.00 | 0.0026 |
| 124.1 | 100 | | | | | | | | | | 124.1 | | | 123.5 | 127.8 | 10880 | 0.11 | 0.00 | 0.0019 | |
| 127.1 | 100 | | | | | | | | | | | 129.2 | | 127.8 | 132.1 | 10881 | 0.17 | 0.00 | 0.0020 | |
| 130.1 | 100 | | | | | | | | | | | | | | | | | | | |
| 133.2 | 100 | | | | | | | | | | | | | 132.1 | 136.4 | 10882 | 0.14 | 0.00 | 0.0020 | |
| 136.2 | 100 | | | | | | | | | | 135.6 | | | 136.4 | 140.7 | 10883 | 0.05 | 0.00 | 0.0032 | |
| | | | | | | | | (407.3-407.5) Very broken core; pieces average 1/2" wide. | | | | | | | | | | | | |
| | | | | | | | | (427) 2" ground, broken core. | | | | | | | | | | | | |
| 139.3 | 100 | | | | | | | (456-457.3) Crushed, broken core. | | | | | | | | | | | | |
| | | | | | 141.6 | 164.6 | CG6mMs | Same unit as above, but much darker appearance due to near complete absence of carb/ser/clay overprinting; much more competent than above; but this subunit contains abundant gypsum much like the volcanics; approx 2-4" is a gypsum filled fracture 0.05 to 0.1" wide at all angles to core axis (gypsum is almost totally lacking in above subunit; occasional isolated massive flooding fo K-spar (rare); very weak grey qz veinlets; | 1% sulphides; cpy >> py; most of sulphides strongly assoc in grey qz veinlets as very fine grained diss. Qz vnlt >> diss. | 1 | | | | 140.7 | 145.0 | 10884 | 0.25 | 0.00 | 0.0029 | |
| 142.3 | 100 | | | | | | | | | | | | | 145.0 | 149.3 | 10885 | 0.15 | 0.00 | 0.0035 | |
| 145.4 | 100 | | | | | | | | | | 147.5 | | | 149.3 | 153.6 | 10886 | 0.13 | 0.00 | 0.0038 | |
| 148.4 | 100 | | | | | | | | | | | | | | | | | | | |
| 151.5 | 100 | | | | | | | | | | | | | | | | | | | |
| 154.5 | 100 | | | | | | | | | | 153.3 | | | 153.6 | 157.9 | 10887 | 0.16 | 0.00 | 0.0035 | |

| Metric | | MAIN UNIT | | SUB UNIT | | | DDH: G90-03 | Final Date: 17 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|-------|----------|-------|-------|-------------|---|---|-----|-------|-------------|-----|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 157.6 | 100 | | | | | | | weaker 2nd BT; lighter grey coloured matrix than at beginning of unit close to volcanic. Plag/BT are large in size (up to 0.2"), still very crowded porphyry; mod to strongly magnetic, very weak grey qz vnlt's (approx 1' to 5' apart) open (unhealed) fractures at 30 deg to core axis. The gypsum filled fracture ends at about 540'. | | | | | | 157.9 | 162.3 | 10888 | 0.22 | 0.00 | 0.0032 |
| 160.6 | 100 | | | | | | | | | | 158.2 | | | | | | | | |
| 163.7 | 100 | | | | | | | | | | | | | 162.3 | 166.6 | 10889 | 0.15 | 0.00 | 0.0032 |
| 166.7 | 100 | 164.6 | 189.0 | BFP | 164.6 | 189.0 | B3g-mv | Same as 464.5-540, but very, very little gypsum; 1% carb along healed fractures; weak 2nd BT alt'n; lighter coloured groundmass; appears to be fresh. | See 464.5-540; occasional fracture filled with sulphides. | 1 | | | | 166.6 | 170.9 | 10890 | 0.13 | 0.00 | 0.0026 |
| 169.8 | 100 | | | | | | | | | | 169.8 | | | 170.9 | 175.2 | 10891 | 0.14 | 0.00 | 0.0029 |
| 172.8 | 100 | | | | | | | | | | | | | 175.2 | 179.5 | 10892 | 0.21 | 0.00 | 0.0041 |
| 175.9 | 100 | | | | | | | | | | | | | 179.5 | 183.8 | 10893 | 0.14 | 0.00 | 0.0029 |
| 178.9 | 100 | | | | | | | | | | | | | | | | | | |
| 182.0 | 100 | | | | | | | | | | | | | 183.8 | 188.1 | 10894 | 0.16 | 0.00 | 0.0035 |
| 185.0 | 100 | | | | | | | | | | | | | 188.1 | 192.4 | 10895 | 0.17 | 0.00 | 0.0035 |
| 188.1 | 100 | 189.0 | 300.2 | BBFP | 189.0 | 197.8 | C6-Mm< | Same as 540-620, but slightly darker grey coloured groundmass; mod ser BT?, trace grey qz veinlets (1-15' separations); competent rock; still a crowded porphyry; mod to strongly magnetic. | 620-985: Diss > fracture fillings; cpy >> py. | 1 | | 178.3 | | 188.1 | 192.4 | 10895 | 0.17 | 0.00 | 0.0035 |
| 191.1 | 100 | | | | | | | | | | | | | 192.4 | 196.7 | 10896 | 0.07 | 0.00 | 0.0020 |
| 194.2 | 100 | | | | | | | | | | 182.0 | | | 196.7 | 201.0 | 10897 | 0.08 | 0.00 | 0.0032 |
| 197.2 | 100 | | | | | | | | | | | | | 201.0 | 205.4 | 10898 | 0.15 | 0.00 | 0.0029 |
| 200.3 | 100 | | | | 197.8 | 218.5 | CG-Mm< | filled fractures; mod to strong gypsum. At 666.3 - 3" wide crushed section (pulverized core). | | | | | | 205.4 | 209.7 | 10899 | 0.11 | 0.00 | 0.0023 |
| 203.3 | 100 | | | | | | | | | | 200.6 | | | 209.7 | 214.0 | 10900 | 0.14 | 0.00 | 0.0026 |
| 206.3 | 100 | | | | | | | | | | | | | | | | | | |
| 209.4 | 100 | | | | | | | | | | | | | | | | | | |
| 212.4 | 100 | | | | | | | | | | 0.0 | | | | | | | | |
| 215.5 | 100 | | | | | | | (757-757.6): Very broken core. | | | 215.2 | | | 214.0 | 218.3 | 10901 | 0.10 | 0.00 | 0.0032 |
| 218.5 | 100 | | | | 218.5 | 239.3 | C6-Mm< | | | | | | | 218.3 | 222.6 | 10902 | 0.13 | 0.00 | 0.0035 |
| 221.6 | 100 | | | | | | | | | | | 221.6 | | | | | | | |
| 224.6 | 100 | | | | | | | | | | | | | 222.6 | 226.9 | 10903 | 0.07 | 0.00 | 0.0023 |
| 227.7 | 100 | | | | | | | | | | | | | 226.9 | 231.2 | 10904 | 0.12 | 0.00 | 0.0052 |
| 230.7 | 100 | | | | | | | | | | | | | 231.2 | 235.5 | 10905 | 0.16 | 0.00 | 0.0023 |
| 233.8 | 100 | | | | | | | | | | | | | | | | | | |
| 236.8 | 100 | | | | | | | | | | | | | 235.5 | 239.8 | 10906 | 0.09 | 0.00 | 0.0020 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-03 | Final Date: 17 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------------|------|-----------|----|------|----------|-------|--------|---|-----------------------------|-----|------|------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 239.9 | 100 | | | | 239.3 | 246.9 | C6-MY< | Blocky core; pieces vary from 1/2"-5". | | | | | | 239.8 | 244.2 | 10907 | 0.06 | 0.00 | 0.0006 |
| 242.9 | 100 | | | | | | | (807-824) 5-15% pitted core poss due to | | | | | | 244.2 | 248.5 | 10908 | 0.14 | 0.00 | 0.0015 |
| 246.0 | 100 | | | | | | | very weak increase in carbonate; pits | | | | | | 248.5 | 252.8 | 10909 | 0.16 | 0.00 | 0.0015 |
| 249.0 | 100 | | | | 246.9 | 264.3 | C6-Mm< | are 0.05" wide. | | | | | | 252.8 | 257.1 | 10910 | 0.09 | 0.00 | 0.0009 |
| 252.1 | 100 | | | | | | | (845-846) Broken core. | | | | | | | | | | | |
| 255.1 | 100 | | | | | | | (858-865) 10-15% pitted core as above; | | | | | | 257.1 | 261.4 | 10911 | 0.13 | 0.00 | 0.0035 |
| 258.2 | 100 | | | | | | | probably due to carbonate. | | | | | | 261.4 | 265.7 | 10912 | 0.10 | 0.00 | 0.0009 |
| 261.2 | 100 | | | | | | | (867-902) Very distinct carb filled frac- | | | | | | | | | | | |
| 264.0 | 100 | | | | 264.3 | 274.9 | CL-mk< | tures 1"-8" apart; weak to mod carb | | | | | | 265.7 | 270.0 | 10913 | 0.11 | 0.00 | 0.0006 |
| 267.3 | 100 | | | | | | | filled fractures vary from hairline | | | | | | 270.0 | 274.3 | 10914 | 0.08 | 0.00 | 0.0009 |
| 270.4 | 100 | | | | | | | width to 0.1" wide; 5% of plag crystals | | | | | | | | | | | |
| 273.4 | 100 | | | | | | | are clay/ser/carb alt'd. | | | | | | | | | | | |
| | | | | | | | | (890.5-891.5) Semi-crushed core. | | | | | | | | | | | |
| 276.5 | 100 | | | | 274.9 | 278.6 | Cb-mm< | (904-912) Broken core; pieces average | | | | | | 274.3 | 278.6 | 10915 | 0.17 | 0.00 | 0.0006 |
| | | | | | | | | 1" to 4". | | | | | | | | | | | |
| 279.5 | 100 | | | | 278.6 | 287.5 | Cl-Mmd | (914-943.4) 5-10% pitted core as noted | 3% sulphides; cpy >> py >> | 3 | | | | 278.6 | 282.9 | 10916 | 0.30 | 0.00 | 0.0020 |
| 282.5 | 100 | | | | | | | above; very strong magnetite, both as | bornite; very minor blebs | | | | | 282.9 | 287.3 | 10917 | 0.16 | 0.00 | 0.0035 |
| | | | | | | | | very fine grained diss and as narrow | of bornite with chalcopy; | | | | | | | | | | |
| | | | | | | | | veins/patches; unhealed fractures at | diss >>> fracture fillings. | | | | | | | | | | |
| 285.6 | 100 | | | | | | | 37 deg to core axis. | | | | | | | | | | | |
| | | | | | | | | (921.4-922.4) Crushed, pulverized core. | | | | | | | | | | | |
| 288.6 | 100 | | | | 287.5 | 300.2 | Co-Mmd | (944.2-947) Mod pervassive K-spar | | | | | | 287.3 | 291.6 | 10918 | 0.22 | 0.00 | 0.0026 |
| 291.7 | 100 | | | | | | | flooding; mod salmon colouration com- | | | | | | 291.6 | 295.9 | 10919 | 0.17 | 0.00 | 0.0026 |
| 294.7 | 100 | | | | | | | monly rimming the plag crystals. | | | | | | | | | | | |
| 297.8 | 100 | | | | | | | (914-985) Patchy magnetite up to 2" wide | | | | | | 295.9 | 300.2 | 10920 | 0.14 | 0.00 | 0.0009 |
| 300.2 | 100 | | | | | | | | | | | | | | | | | | |
| EOH (985 ft) | | | | | | | | | | | | | | | | | | | |

| PROPERTY: GRANISLE PERM DDH#: G90-04 TEMP DDH#: G90-AU | FIELD COORDINATES (Metric) ===== NORTHING: 3413.8 AZIMUTH: 270 EASTING: 3511.3 DIP: -45 ELEVATION: 630.3 LENGTH: 213.4 ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------|-------|---------|-----|--|-------|-------|-----|----|-------|-----|-----|----|-------|-----|-----|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| GEOLOGIST: A.J.Pardoe COL. DATE: 90/10/26 EOH DATE: 90/10/27 DRILL#: 44-5 CORE SIZE: NQ | SURVEY COORDINATES (Metric) ===== NORTHING: 3414.2 AZIMUTH: 270.65 EASTING: 3510.7 DIP: -45 ELEVATION: 628.0 LENGTH: 214.0 ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 30%; text-align: center;">DEPTH</th> <th style="width: 30%; text-align: center;">AZIMUTH</th> <th style="width: 30%; text-align: center;">DIP</th> </tr> <tr> <th></th> <th style="text-align: center;">-----</th> <th style="text-align: center;">-----</th> <th style="text-align: center;">---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td style="text-align: center;">139.0</td> <td style="text-align: center;">278</td> <td style="text-align: center;">-44</td> </tr> <tr> <td>2:</td> <td style="text-align: center;">214.0</td> <td style="text-align: center;">279</td> <td style="text-align: center;">-44</td> </tr> <tr> <td>3:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ----- | ----- | --- | 1: | 139.0 | 278 | -44 | 2: | 214.0 | 279 | -44 | 3: | | | | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ----- | ----- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 139.0 | 278 | -44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 214.0 | 279 | -44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROPERTY: GRANISLE PERM DDH#: G90-05 TEMP DDH#: G90-ND | FIELD COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------|-------|---------|-----|--|------|------|------|----|-------|-----|-----|----|-------|-----|-----|----|-------|-----|-----|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| | NORTHING: 3413.8 AZIMUTH: 180 EASTING: 3474.7 DIP: -45 ELEVATION: 636.4 LENGTH: 274.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEOLOGIST: R.Verzosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COL. DATE: 90/10/27 EOH DATE: 90/10/29 | SURVEY COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILL#: 44-5 CORE SIZE: NQ | NORTHING: 3410.4 AZIMUTH: 180 EASTING: 3475.3 DIP: -45 ELEVATION: 631.4 LENGTH: 269.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>----</th> <th>----</th> <th>----</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>114.6</td> <td>177</td> <td>-45</td> </tr> <tr> <td>2:</td> <td>181.7</td> <td>178</td> <td>-45</td> </tr> <tr> <td>3:</td> <td>227.4</td> <td>179</td> <td>-45</td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ---- | ---- | ---- | 1: | 114.6 | 177 | -45 | 2: | 181.7 | 178 | -45 | 3: | 227.4 | 179 | -45 | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ---- | ---- | ---- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 114.6 | 177 | -45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 181.7 | 178 | -45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 227.4 | 179 | -45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | SUB UNIT | | DDH: 690-05 | | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|-------|----------|------|-------------|--------|---|--|-----|------|-------------|-----|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | | | | | | | | | | | | | | | | | | |
| 4.6 | 0 | 0.0 | 4.6 | CASE | 0.0 | 4.6 | | Casing. | | | | | | 4.9 | 9.2 | 10971 | 0.29 | 0.00 | 0.0026 |
| 7.9 | 90 | 4.6 | 110.1 | BBFP | 4.6 | 12.2 | C---k | 15-173.2: Very dark grey to loc dark grey groundmass with crowded pale grey FSP and black BT and minor light HBL phenos. Int diss 2nd BT. | 15-31.5: ~ 1% cpy, diss > fracs > blebs. Py = cpy, tr Mo, tr spec in fracs. | 2 | | | | | | | | | |
| 11.0 | 100 | | | | | | | | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | 9.2 | 13.5 | 10972 | 0.55 | 0.00 | 0.0085 |
| 14.0 | 100 | | | | 12.2 | 16.5 | C---y | Irregular fractures at about 3-6" intervals mostly qz/carb healed with less than 1/8" bleached margins. Unhealed fractures lightly weathered with carb on frac surface. | | | 13.7 | | | 13.5 | 17.8 | 10973 | 0.15 | 0.00 | 0.0026 |
| 17.1 | 95 | | | | 16.5 | 42.5 | C-f-K | (31.5-36.8) /weak to loc int si and qz veining. Core very hard to scratch. Core not bleached except on margins of veinlets at 36.8 3" qz vein at 40 deg to C/A | >1% cp frac > diss blebs and ribbons in larger (>1/8") 9 veinlets. | | | | | 17.8 | 22.2 | 10974 | 0.22 | 0.00 | 0.0035 |
| | | | | | | | | | 36.8: Blebs of py-cpy up to 1/4" dia, 1-2% overall sulphides in vein, tr Mo. | | | | | | | | | | |
| | | | | | | | | (40.1-54) Broken core 30% RQD 90% recovery, no gouge present, broken areas lightly or not weathered. | 40.1-72.5: >1% cpy diss >= fractures, py + cpy, tr Mo. | | | | | | | | | | |
| 20.1 | 100 | | | | | | | (64.3-67.9) Weak qz veining/silic'n, patchy sili'n-bleaching. | | | | | | | | | | | |
| 23.2 | 100 | | | | | | | (72.5-81) Intense sil'n with later qz/carb veining, med grey mottled colour. @ 80': FAULT 1" of gouge, fairly clean, hw/fw rock fresh. | 1-2% cpy diss > fracs > blebs, blebs up to 2mm dia. | | | | | 22.2 | 26.5 | 10975 | 0.71 | 0.00 | 0.0067 |
| | | | | | | | | @ 90.2': 2" qz vein, blebs of cpy 2mm x 10mm, geotech specimen @ 11'. | 80-101: 1-2% cpy diss = frac. Py <= cpy, tr Mo. | | | | | | | | | | |
| 26.2 | 100 | | | | | | | 100-102.5: Patchy, mottled sil'n, becoming int qz flooding @ 101. | | | | | | | | | | | |
| 29.3 | 100 | | | | | | | K-spar flooding at 101.5-102.5'. | 101-102.5: >2% cpy > 2% spec, Py < cpy, blebs of Mg 2cm x 1cm. | | | | | | | | | | |
| 32.3 | 100 | | | | | | | | | | 31.1 | | | 30.8 | 35.1 | 10977 | 0.64 | 0.00 | 0.0061 |
| 35.4 | 100 | | | | | | | | | | | | | | | | | | |
| 38.4 | 100 | | | | | | | | | | 33.8 | | | 35.1 | 39.4 | 10978 | 0.27 | 0.00 | 0.0035 |
| 41.5 | 100 | | | | 42.5 | 50.0 | C-Z-fs | Local int sil'n (flooding) zones 3"-8". | 102.5-139.5: 1-2% cpy diss | | | | | 39.4 | 43.7 | 10979 | 0.40 | 0.04 | 0.0029 |

| Metric | | MAIN UNIT | | SUB UNIT | | DDH: G90-05 | | Final Date: 91/01/18 | | SAMPLE DATA | | | | | | | | | |
|--------|------|-----------|----|----------|------|-------------|--------|---|--|-------------|------|------|-----|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | | | | | | | Fault zone, faults occurring at 141,143, 145, 149, 151, 153'. Varying from 1-8" of crushed rock and gouge oxidation occurs only about 1-2" into wall rock at 169 8" volc xeno. | = frac, py < cpy, tr Mo. | | | | | 43.7 | 48.0 | 10980 | 0.51 | 0.08 | 0.0055 |
| 44.5 | 100 | | | | | | | | | | | | | | | | | | |
| 47.5 | 100 | | | | | | | | | 47.5 | | | | 48.0 | 52.3 | 10981 | 0.37 | 0.00 | 0.0035 |
| 50.6 | 100 | | | | 50.0 | 110.1 | C-q-k= | 173.2-361.3: Moderately to intensely bleached BBFP. Groundmass light to med grey. Crowded FSP plag. Overall weak to moderate phyllic alt'n, FSP > ser, but qz alt'n limited to veining and sil'n adjacent to veins and weak overall sil'n | Overall <1% cpy diss = frac py = cpy, tr Mo only in fractures. | 1 | | 56.7 | | 52.3 | 56.6 | 10982 | 0.25 | 0.02 | 0.0032 |
| 53.6 | 100 | | | | | | | | | | | | | 56.6 | 61.0 | 10983 | 0.49 | 0.02 | 0.0058 |
| 56.7 | 100 | | | | | | | | | | | | | | | | | | |
| 59.7 | 100 | | | | | | | | | | | | | | | | | | |
| 62.8 | 100 | | | | | | | | | 62.8 | | | | 61.0 | 65.3 | 10984 | 0.36 | 0.00 | 0.0058 |
| 0.0 | | | | | | | | As above unit, fracturing occurs at random angles and intervals of 1"-6" and are healed with qz/carb vnlts. Veinlets containing sulphides also darken salvages in bleached rock. | | | | | | | | | | | |
| | | | | | | | | (195-204.2) Section of unbleached rock. FSP generally unaltered, weak, irregular silicification, rock still fractured and veined as rest of unit, sulphide content also consistent. | | | | | | | | | | | |
| 65.8 | 100 | | | | | | | (216-235.5) As above. | | | | | | 65.3 | 69.6 | 10985 | 0.33 | 0.04 | 0.0032 |
| 68.9 | 100 | | | | | | | (259.5-262) As above. | | | | | | 69.6 | 73.9 | 10986 | 0.26 | 0.02 | 0.0032 |
| 71.9 | 100 | | | | | | | (284-291.5) As above. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 75.0 | 90 | | | | | | | (315-354) As above units, except grading | | | | | | 75.0 | 78.2 | 10987 | 0.49 | 0.00 | 0.0041 |
| 78.0 | 95 | | | | | | | 50/50 between, weak to mod bleached to unbleached in 2'-8' sections. Sericite | | | | | | 78.2 | 82.5 | 10988 | 0.39 | 0.02 | 0.0049 |
| 81.1 | 100 | | | | | | | pervasive in bleached rock, rare to non-existent in dark rock. Overall weak silicification. Rare local int qz flooding 1"-3" with up to 50% py/spec/cpy/Mo. | | | | | | | | | | | |
| 84.1 | 92 | | | | | | | | | | | | | 84.1 | 86.8 | 10989 | 0.36 | 0.02 | 0.0044 |
| 87.2 | 95 | | | | | | | | | | | | | 86.8 | 91.1 | 10990 | 0.44 | 0.02 | 0.0049 |
| 90.2 | 90 | | | | | | | | | | | | | | | | | | |
| 93.3 | 100 | | | | | | | | | 93.9 | | | | 91.1 | 95.4 | 10991 | 0.36 | 0.02 | 0.0049 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-05 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|---|---------------------------------------|-------|-------|------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 96.3 | 100 | | | | | | | (354-361.3) Unbleached BBFP, weak to mod | | | | | | 95.4 | 99.7 | 10992 | 0.47 | 0.00 | 0.0049 |
| 99.4 | 100 | | | | | | | sil'n, no sericite. Med grey groundmass, | | | | | | 99.7 | 104.1 | 10993 | 0.42 | 0.00 | 0.0044 |
| 102.4 | 100 | | | | | | | % FSP phenos goes from ~70 % to 10-15% | | | | | | | | | | | |
| 105.5 | 100 | | | | | | | to end of interval. Sharp contact with | | 105.5 | | | | 104.1 | 108.4 | 10994 | 0.40 | 0.00 | 0.0055 |
| 108.5 | 95 | | | | | | | unit below. | | | | | | 108.4 | 112.7 | 10995 | 0.21 | 0.00 | 0.0041 |
| 111.6 | 88 | 110.1 | 134.6 | VOLC | 110.1 | 134.6 | VBzmb> | Andesite lapilli tuff. Light brown-grey | 361-441.5: <1% cpy frac > | | | | | | | | | | |
| | | | | | | | | clasts, aphanitic crackling and silic- | diss >> rare blebs py = cpy | | | | | | | | | | |
| | | | | | | | | ification (weak to mod). Fractures | Minor spec, mag in frags. | | | | | | | | | | |
| | | | | | | | | healed with qz/carb. Matrix mottled and | Moly occurring almost ex- | | | | | | | | | | |
| 114.6 | 100 | | | | | | | varied from pale grey to dark grey. | clusively in fractures. | 113.1 | | | | 112.7 | 117.0 | 10996 | 0.39 | 0.00 | 0.0055 |
| | | | | | | | | Swirled texture. | | | | | | | | | | | |
| | | | | | | | | (366.5-370) BBFP med to dark grey ground | | | | | | | | | | | |
| | | | | | | | | mass. Crowded phenos, fairly sharp con- | | | | | | | | | | | |
| 117.7 | 100 | | | | | | | tacts top and bottom. Pale grey at top | | | | | | 117.0 | 121.3 | 10997 | 0.38 | 0.00 | 0.0067 |
| | | | | | | | | of interval rapidly (1ft) changing to | | | | | | | | | | | |
| | | | | | | 0.0 | 0.0 | dark grey dalmationite at last 8". | | | | | | | | | | | |
| | | | | | | | | (370-394.5)VOLC. Mottled grey to dark | | | | | | | | | | | |
| | | | | | | | | grey. As above, but increasing silicif- | | | | | | | | | | | |
| | | | | | | | | ication and qz veining. Very local spot- | | | | | | | | | | | |
| | | | | | | | | ty K-spar? flooding. Entire unit is mas- | | | | | | | | | | | |
| | | | | | | | | sive and very hard. | | | | | | | | | | | |
| | | | | | | | | (394.5-396.2)BFP dyke. Light grey ground | 1% cpy, 1% py, diss = frac. | | | | | | | | | | |
| | | | | | | | | mass, crowded porphyry. Sharp contacts | | | | | | | | | | | |
| | | | | | | | | top and bottom. | | | | | | | | | | | |
| 120.7 | 100 | | | | | | | 396.2-408: VOLC. As above 370-394.5 | Increasing spec-Mg content | | | | | 121.3 | 125.6 | 10998 | 0.61 | 0.00 | 0.0073 |
| | | | | | | | | | 2%. | | | | | | | | | | |
| 123.7 | 95 | | | | | 124.4 | 125.9 | ----F | Fault zone, crushed and broken core, | 0.0 | 123.7 | | | | | | | | |
| | | | | | | | | intense clay alteration. Rock is soft and | | | | | | | | | | | |
| | | | | | | | | friable, carb in gouge. | | | | | | | | | | | |
| | | | | | | | | 413-429.8:VOLC And lapilli tuff as above | | | | | | | | | | | |
| | | | | | | | | (370-394.5) with occasional dark 4"-5" | | | | | | | | | | | |
| | | | | | | | | BFP clasts. | | | | | | | | | | | |
| 126.8 | 100 | | | | | 125.9 | 134.6 | --K-F | VOLC as above but less silicification | | | | | 125.6 | 129.9 | 10999 | 0.61 | 0.02 | 0.0049 |
| 129.8 | 100 | | | | | | | and softer and more broken. Faults at | | | | | | 129.9 | 134.2 | 11000 | 0.47 | 0.02 | 0.0041 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-05 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|-------|----------|-------|--------|---|---|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 132.9 | 100 | | | | | | | 431, 434, 435, 437.5, 440, 441.5. | | | | | | | | | | | |
| 135.9 | 100 | 134.6 | 158.8 | BBFP | 134.6 | 158.8 | C6omK= | BBFP. Med to dark grey fine grained groundmass. FSP phenos 2-3mm dis but only make up to 5-10% of rock overall local weak to mod silicification and rare K-spar. As above units, fractured moderately (1"-4") at random orientations. 95% healed with qz/carb, minor sericite-clay FSP altered to sericite adjacent to silicification. | 1% cpy, frac = diss = blebs ribbons, blebs in frac, diss up to 1/8", tr spec and mag in frac (ribbons) and minor diss. Blebs of spec/mag up to 1/2" in areas of local qz flooding (up to 15% in these areas). | | | | 134.2 | 138.5 | 11001 | 0.34 | 0.00 | 0.0053 | |
| 139.0 | 100 | | | | | | | | | | | | | 138.5 | 142.9 | 11002 | 0.56 | 0.00 | 0.0050 |
| 142.0 | 95 | | | | | | | | | | | | | 142.9 | 147.2 | 11003 | 0.55 | 0.00 | 0.0032 |
| 145.1 | 100 | | | | 144.2 | 145.4 | --K-F | (475-476) Fault, gouge, crushed core, clay. | | | | | | | | | | | |
| 148.1 | 90 | | | | 149.0 | 149.7 | --K-F | (476-477) Fault, gouge, crushed core, clay. | | | | | | | | | | | |
| 151.2 | 100 | | | | | | | (489-491) Fault, gouge, crushed core, clay. | | | | | | 147.2 | 151.5 | 11004 | 0.52 | 0.00 | 0.0041 |
| 154.2 | 100 | | | | | | | (494.7-497.5) Completely qz flooded and hydrothermally brecciated. | 10-20% mg-hem, 2% cpy, 2% py | | 151.2 | | | 151.5 | 155.8 | 11005 | 0.46 | 0.00 | 0.0035 |
| 157.3 | 95 | | | | | | | (508.7-512.5) BFP dyke, light to med grey groundmass, crowded porphyry. | | | | | | 155.8 | 160.1 | 11006 | 0.48 | 0.00 | 0.0029 |
| 160.3 | 90 | 158.8 | 208.9 | VOLCT | 158.8 | 208.9 | VN-MK> | 521-685.5: Volc andesite lapilli tuff/ flow. Dark grey groundmass, med to dark grey fine grained clasts. Original volc texture difficult to see with the int silicification, fracturing and veining. Heavily fractured and healed with qz >> carb veins (up to 4 separate fracture infilling seen in core). Where textures visible, tuff is clast supported with average clasts 1/8"-1" dia, angular to subrounded. | 2% cpy-bo (3:1) locally (5-10% cpy-bo) frac > diss Entire interval highly magnetic though very little visible magnetite-hematite. | 3 | | | 160.1 | 164.4 | 11007 | 0.42 | 0.00 | 0.0020 | |
| 163.4 | 95 | | | | | | | | | | | | | | | | | | |
| 166.4 | 90 | | | | | | | | | | | 166.7 | | 164.4 | 168.7 | 11008 | 0.27 | 0.00 | 0.0009 |
| 169.5 | 90 | | | | | | | | | | | | | 168.7 | 173.0 | 11009 | 0.26 | 0.00 | 0.0026 |
| 172.5 | 95 | | | | | | | | | | 172.5 | | | 173.0 | 177.3 | 11010 | 0.42 | 0.00 | 0.0029 |
| 175.6 | 70 | | | | | | | | | | | | | | | | | | |
| 178.6 | 92 | | | | | | | | | | | | | 177.3 | 181.6 | 11011 | 0.35 | 0.00 | 0.0020 |
| 181.7 | 90 | | | | | | | | | | | | | 181.6 | 186.0 | 11012 | 0.34 | 0.00 | 0.0038 |
| 184.7 | 95 | | | | 0.0 | 0.0 | | Fault, crushed rock, minor gouge. | | | | | | | | | | | |
| 187.8 | 100 | | | | 0.0 | 0.0 | | | | | | | | 186.0 | 190.3 | 11013 | 0.31 | 0.00 | 0.0029 |
| 190.8 | 93 | | | | | | | (581-591) BFP dyke, med grey, crowded porphyry. | | | | | | 190.3 | 194.6 | 11014 | 0.46 | 0.00 | 0.0032 |
| 193.9 | 100 | | | | | | | | | | 192.3 | | | 194.6 | 198.9 | 11015 | 0.41 | 0.00 | 0.0038 |
| 196.9 | 95 | | | | 0.0 | 0.0 | | Mineralized fault. 2" of fault gouge, qz flooding on downhole side, up to 30% | (654-655) 15% | | | | | | | | | | |
| 199.9 | 100 | | | | | | | | | | | | | 198.9 | 203.2 | 11016 | 0.89 | 0.00 | 0.0015 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-05 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|-------|--------|----------|-------|--------|--|--|-----|------|-------|-------------|-------|-------|---------|--------|--------|----------|--------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | |
| 203.0 | 100 | | | | | | | cpy/bo/py in 3" section. | | | | | | 203.2 | 207.5 | 11017 | 0.29 | 0.00 | 0.0070 | |
| 206.0 | 93 | | | | 0.0 | 0.0 | | | | | | | | | | | | | | |
| 209.1 | 93 | 208.9 | 269.1 | BBFPD? | 208.9 | 217.9 | C7-mk< | 685.5-883: Swirled, sub-volcanic flow texture. BBFP dark charcoal grey ground- | 2-3% cpy-bo diss > fracs (cpy-bo 4:1) hem on fracs, | | | | | 207.5 | 211.8 | 11018 | 0.21 | 0.00 | 0.0012 | |
| 212.1 | 100 | | | | | | | mass <10% poorly formed FSP phenos. Unit is weakly magnetic. Abundant lenticular mafic crystals mostly attached to BT. | 2% diss mag, blebs of mg up (1/2" x 2"), some open frac coated 90% with cpy. | | | 212.8 | | 211.8 | 216.1 | 11019 | 0.21 | 0.00 | 0.0015 | |
| 214.0 | 100 | | | | | | | Unit is not as heavily fract'd/infilled as upper units, fractures are 3"-8" apart, majority are healed, hairlines to 2 inches. | | | | | | | | | | | | |
| | | | | | | | | 711.3-713.5 BFP xenolith. Med grey groundmass, crowded, well formed FSP porphyries. Even texture throughout and sharp, unaltered contacts, no chill margins or wall rock alteration. | | | | | | | 216.1 | 220.4 | 11020 | 0.28 | 0.00 | 0.0018 |
| 217.0 | 100 | | | | 217.9 | 222.5 | C7-mY< | Broken core, fractures lightly oxidized with minor gouge. RQD ~ 10%. | | | | | | | | | | | | |
| 220.4 | 80 | | | | | | | 736.7-740.2: BFP xenolith, as above | | | | | | | 220.4 | 224.8 | 11021 | 0.21 | 0.00 | 0.0009 |
| 221.3 | 90 | | | | | | | 711.8-713.5. | | | | | | | | | | | | |
| 224.3 | 100 | | | | 222.5 | 245.7 | C7-mk< | (774-775) BFP xenolith as above 711.3-713.5'. | | | | | | | 224.8 | 229.1 | 11022 | 0.40 | 0.00 | 0.0023 |
| 227.4 | 90 | | | | | | | | | | | | | | | | | | | |
| 230.4 | 95 | | | | | | | | | | | | | | | | | | | |
| 233.5 | 100 | | | | | | | | | | | | | 229.1 | 233.4 | 11023 | 0.47 | 0.00 | 0.0038 | |
| 236.5 | 95 | | | | | | | | | | | | | 233.4 | 237.7 | 11024 | 0.32 | 0.00 | 0.0023 | |
| 239.6 | 95 | | | | | | | | | | | | | | | | | | | |
| 242.6 | 100 | | | | | | | | | | | | | 237.7 | 242.0 | 11025 | 0.38 | 0.00 | 0.0032 | |
| 245.7 | 100 | | | | 245.7 | 256.0 | C7zMK< | (806-840) BBFP same as main unit except more heavily fractured and veined as well as more silicified and larger stringers (1/8" x 1/2"). | Magnetite up to 3-5%. | 3 | | | | 242.0 | 246.3 | 11026 | 0.50 | 0.00 | 0.0105 | |
| 248.7 | 100 | | | | | | | | | | | | | 246.3 | 250.6 | 11027 | 0.56 | 0.00 | 0.0044 | |
| 251.8 | 100 | | | | | | | | | | | | | | | | | | | |
| 254.8 | 100 | | | | | | | | | | | | | 250.6 | 254.9 | 11028 | 0.57 | 0.00 | 0.0023 | |
| 257.9 | 100 | | | | 256.0 | 269.1 | C7cMk< | (840-883) Local faint chlorite alt'n and pink FSP locally around veins and frac- | Mg 5-10%, cpy-bo 2% (5:1) 1% py. | 3 | | | | 254.9 | 259.2 | 11029 | 0.32 | 0.00 | 0.0023 | |
| 260.9 | 100 | | | | | | | | | | | | | 259.2 | 263.6 | 11030 | 0.37 | 0.00 | 0.0018 | |

| | |
|-----------------------|------------------------------------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) |
| PERM DDH#: G90-06 | ===== |
| TEMP DDH#: G90-AR | |
| ===== | |
| GEOLOGIST: A.J.Pardoe | NORTHING: 3352.8 AZIMUTH: 90 |
| COL. DATE: 90/10/29 | EASTING: 3352.8 DIP: -45 |
| EOH DATE: 90/10/31 | ELEVATION: 643.1 LENGTH: 274.3 |
| ===== | ===== |
| DRILL#: 38-14 | SURVEY COORDINATES (Metric) |
| CORE SIZE: NQ | ===== |
| ===== | |
| COMMENTS | NORTHING: 3353.5 AZIMUTH: 89.84 |
| ===== | EASTING: 3351.4 DIP: -45 |
| | ELEVATION: 644.0 LENGTH: 273.4 |
| | ===== |
| | DOWNHOLE SURVEY METHOD: SPERRY SUN |
| | ===== |
| | DEPTH AZIMUTH DIP |
| | ---- |
| | 1: 53.9 78 -44 |
| | 2: 136.2 81 -44.5 |
| | 3: 218.5 84 -45 |
| | 4: 273.4 n/g n/g |
| | 5: |
| | 6: |
| | 7: |
| | 8: |
| | 9: |
| | 10: |
| | ===== |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-06 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|------|--------|---|--|-----|------|------|-------------|------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | 0.0 | 8.2 | CASE | 0.0 | 8.2 | | Casing. | | | | | | | | | | | |
| 8.2 | | 8.2 | 48.2 | BBFP | | | | Very dark grey groundmass with crowded grey FSP and black BT phenos. FSP phenos tend to be indistinct and often blend into groundmass. Int 2nd BT, generally dark brown. Generally massive unit with scattered qz vnltls at mod to high angles to C/A. Rock is hard but can be scratched. | | | | | | 8.2 | 9.8 | 11034 | 0.11 | 0.00 | 0.0003 |
| 11.3 | 90 | | | | | | | | | | 11.0 | | | 9.8 | 14.1 | 11035 | 0.10 | 0.00 | 0.0003 |
| 14.3 | 90 | | | | 8.2 | 15.7 | C7-myo | Weak to mod broken, no gouge. | Cpy > py, loc frac coats | TR | | | | 14.1 | 18.4 | 11036 | 0.11 | 0.00 | 0.0000 |
| 17.4 | 90 | | | | 15.7 | 29.4 | C7--mo | (59.2-60.7) Weak fault? some core loss, mod broken, weak gouge on frac. Loc int si and bleach in upper 4". | and short vnltls. Patchy mag, weak overall. | | | | | | | | | | |
| 20.4 | 100 | | | | | | | | (51.5-96.5): Cpy +/- loc py | TR | 20.4 | | | 18.4 | 22.7 | 11037 | 0.17 | 0.00 | 0.0000 |
| 23.5 | 100 | | | | | | | (66-69) Groundmass slightly lighter, FSP crystals larger, more prominent, white and mod ser'd. Poss dyke. | (66-69): Loc cpy and mo in qz stringer. | | | | | 22.7 | 27.0 | 11038 | 0.09 | 0.00 | 0.0000 |
| 26.5 | 100 | | | | | | | (80-85.5) As above. | | | | 26.8 | | 27.0 | 31.4 | 11039 | 0.06 | 0.00 | 0.0005 |
| 29.6 | 100 | | | | | | | | | | | | | | | | | | |
| 32.6 | 100 | | | | 29.4 | 35.2 | C7-mYO | Mod to badly broken, no gouge. | (96.5-158.3): Cpy +/- loc py, very loc on frac and stringers. Weak to mod mag. | TR- | 32.9 | | | 31.4 | 35.7 | 11040 | 0.07 | 0.00 | 0.0005 |
| 35.7 | 100 | | | | | | | | | | | | | 35.7 | 40.0 | 11041 | 0.09 | 0.00 | 0.0005 |
| 38.7 | 100 | | | | | | | | | | | | | | | | | | |
| 41.8 | 100 | | | | 35.2 | 48.2 | C7gmyO | Weak broken in 3" to 6" lengths. Weak gypsum veinlets. | | | | | | 40.0 | 44.3 | 11042 | 0.11 | 0.00 | 0.0008 |
| 44.8 | 100 | | | | | | | | | | | | | 44.3 | 48.6 | 11043 | 0.04 | 0.00 | 0.0002 |
| 47.9 | 100 | 48.2 | 102.7 | BFP | 48.2 | 86.0 | B-c-MO | 158.3-273: Med grey to med dark grey groundmass with crowded white FSP and black BT phenos. Phenos are generally fresh, very loc BT is weak ser'd(?) 2nd BT generally not present. Very loc pale green ser. (Patchy with propilitization) Massive, uniform texture with very loc qz vnltls. | Cpy > py, very loc on frac surfaces and str. | TR- | 47.5 | | 48.6 | 52.9 | 11044 | 0.06 | 0.00 | 0.0005 | |
| 50.9 | 100 | | | | | | | | | | | | | 52.9 | 57.2 | 11045 | 0.11 | 0.00 | 0.0008 |
| 53.9 | 100 | | | | | | | | | | | | | 57.2 | 61.5 | 11046 | 0.05 | 0.00 | 0.0008 |
| 57.0 | 100 | | | | | | | | | | 57.6 | | | 61.5 | 65.8 | 11047 | 0.11 | 0.00 | 0.0002 |
| 60.0 | 100 | | | | | | | | | | | | | 65.8 | 70.1 | 11048 | 0.07 | 0.00 | 0.0002 |
| 63.1 | 100 | | | | | | | | | | | | | | | | | | |
| 66.1 | 100 | | | | | | | | | | | | | | | | | | |
| 69.2 | 100 | | | | | | | | | | | | | | | | | | |
| 72.2 | 100 | | | | | | | (249.5-250) Weak fault, weak broken, with very minor gouge on fracs, bleached. | | | 73.3 | | | 70.1 | 74.5 | 11049 | 0.09 | 0.00 | 0.0002 |
| 75.3 | 100 | | | | | | | | | | 75.3 | | | 74.5 | 78.8 | 11050 | 0.07 | 0.00 | 0.0002 |
| 78.3 | 100 | | | | | | | 273-282: Slightly darker groundmass, Trace sulphide in str, | | | | | | 78.8 | 83.1 | 11051 | 0.10 | 0.00 | 0.0002 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-06 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|---|-------|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 81.4 | 100 | | | | | | | weak 2nd BT. Weak broken in upper ~2ft. | weak mag diss. | | | | | | | | | | |
| 84.4 | 100 | | | | | | | (275-278.5) Slightly blurred porphyry texture. Very dark grey groundmass. 2nd BT and weak gyp vnlts. Weak to mod si. | Mod to int diss mag, loc cpy diss and in vnlts. | | 84.4 | | | 83.1 | 87.4 | 11052 | 0.06 | 0.00 | 0.0000 |
| 87.5 | 100 | | | | 86.0 | 102.7 | Blc-Ms | Essentially the same as at 158.3', but BT phenos tend to be slightly ser'd and rock is weak carb alt'd with loc carb vnlts. Generally massive with very weak propylite alt'n. | Cp> py, very loc strs and occasional diss. Very loc patches of hem. | | | | | 87.4 | 91.7 | 11053 | 0.11 | 0.00 | 0.0000 |
| 90.5 | 100 | | | | | | | | | | | | | 91.7 | 96.0 | 11054 | 0.08 | 0.00 | 0.0002 |
| 93.6 | 100 | | | | | | | | | | | | | 96.0 | 100.3 | 11055 | 0.12 | 0.00 | 0.0000 |
| 96.6 | 100 | | | | | | | (327-337) Probably weak 2nd BT. | | | | | | 99.7 | 100.3 | 11056 | 0.04 | 0.00 | 0.0000 |
| 99.7 | 100 | | | | | | | | | | | | | | | | | | |
| 102.7 | 100 | 102.7 | 273.4 | BBFP | 102.7 | 132.9 | C7cmMd | 337-436: Very dark grey groundmass with mod diss, sugary brown 2nd BT (?). Crowded light grey FSP and black BT phenos. Massive with very loc qz vnlts at mod angles to C/A. Loc short sections of unaltered BFP. | 337-347: Minor cpy, diss >>> strs. Weak to mod diss | TR | | | | | | | | | |
| 105.8 | 100 | | | | | | | | | | | | | 104.6 | 108.9 | 11057 | 0.12 | 0.00 | 0.0005 |
| 108.8 | 100 | | | | | | | | | | 109.7 | | | 108.9 | 113.3 | 11058 | 0.13 | 0.00 | 0.0005 |
| 111.9 | 100 | | | | | | | (346.5-347.5) Fault? Weak broken, minor gouge and drusy qz strs. Breakage may be result of end of run. | 347-364: Cpy >> py. Diss specks >>> frac coats, weak to mod diss mag, loc int | 1-2 | | | | | | | | | |
| 114.9 | 100 | | | | | | | | | | | | | 113.3 | 117.6 | 11059 | 0.11 | 0.00 | 0.0008 |
| 118.0 | 100 | | | | | | | | | | | | | 117.6 | 121.9 | 11060 | 0.10 | 0.00 | 0.0002 |
| 121.0 | 100 | | | | | | | (373.5-375) Int carb/ser stwk. Weak broken on some strs. | mag. | | | | | 121.9 | 126.2 | 11061 | 0.13 | 0.00 | 0.0008 |
| 124.1 | 100 | | | | | | | | | | | | | | | | | | |
| 127.1 | 100 | | | | | | | (385-391) Loc patchy bleaching/ser. | 364-436: Cpy >> py in qz strs and vnlts > diss. Very loc weak diss mag. | TR | | | | | | | | | |
| 130.1 | 100 | | | | | | | (405-408.5) Very weak bleach. | | 127.7 | | | | 126.2 | 130.5 | 11062 | 0.11 | 0.00 | 0.0002 |
| 133.2 | 100 | | | | 132.9 | 146.3 | Bbc-M> | Sections of unaltered to very weak propylitic alt'n are more abundant. Variable BT alteration. | 436: Cpy > py, strs > diss, nil mag. | TR-> | | | | 130.5 | 134.8 | 11063 | 0.10 | 0.00 | 0.0005 |
| 136.2 | 100 | | | | | | | | | 2% | 0.0 | 136.2 | | 134.8 | 139.1 | 11064 | 0.08 | 0.00 | 0.0002 |
| 139.3 | 100 | | | | | | | | | | | | | 139.1 | 143.4 | 11065 | 0.14 | 0.00 | 0.0012 |
| 142.3 | 100 | | | | | | | | | | 141.4 | | | | | | | | |
| 145.4 | 100 | | | | | | | | | | | | | 143.4 | 147.7 | 11066 | 0.09 | 0.00 | 0.0005 |
| 148.4 | 100 | | | | 146.3 | 152.9 | C7-mI< | BBFP2. Very dark grey groundmass with scattered FSP and small black BT phenos contains abundant rounded xenos of BBFP1 (<=2.5cm dia). Unit occurs as dykes cutting BBFP1. Approx 35 to 40% of section is BBFP1 with abundant HBL. Bottom | Cpy >> py, blebs and diss >>> strs. Weak to mod diss patchy mag in BBFP2 dykes. | 1 | | | | 147.7 | 152.0 | 11067 | 0.13 | 0.00 | 0.0005 |
| 151.5 | 100 | | | | | | | | | | 150.0 | | | 152.0 | 156.4 | 11068 | 0.49 | 0.00 | 0.0029 |

PROPERTY: GRANISLE
 PERM DDH#: G90-07
 TEMP DDH#: G90-RF

GEOLOGIST: T. Kraft

COL. DATE: 90/10/29
 EOH DATE: 90/10/31

DRILL#: 44-5
 CORE SIZE: NQ

COMMENTS
 =====

FIELD COORDINATES (Metric)
 =====

NORTHING: 3544.8 AZIMUTH: 90
 EASTING: 3419.9 DIP: -45
 ELEVATION: 754.1 LENGTH: 304.8

SURVEY COORDINATES (Metric)
 =====

NORTHING: 3546.5 AZIMUTH: 90
 EASTING: 3421.2 DIP: -40
 ELEVATION: 754.0 LENGTH: 297.5

DOWNHOLE SURVEY METHOD: SPERRY SUN
 =====

| | DEPTH | AZIMUTH | DIP |
|-----|-------|---------|-------|
| | ----- | ----- | --- |
| 1: | 91.4 | 82 | -40.5 |
| 2: | 192.0 | 84 | -41 |
| 3: | 245.4 | 82 | -41 |
| 4: | 297.5 | 85 | -41 |
| 5: | | | |
| 6: | | | |
| 7: | | | |
| 8: | | | |
| 9: | | | |
| 10: | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-07 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|------|--------|---|-----------------------------|------|------|------|-------------|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | 0.0 | 4.6 | CASE | 0.0 | 4.6 | | Casing. | | | | | | | | | | | |
| 4.6 | | 4.6 | 238.9 | BFP | 4.6 | 39.5 | Btp-M< | (15-17.1) Broken, blocky core. | | | | | | | | | | | |
| 7.9 | 70 | | | | | | | (15-276) BFP - buff coloured; still a | 4-5% sulphides; only py | 4-5 | | | | 4.6 | 6.6 | 11101 | 0.03 | 0.00 | 0.0015 |
| 11.0 | 100 | | | | | | | fine grained crowded porphyry; 60% plag | visible; diss > fracture | | | | | 6.6 | 11.4 | 11102 | 0.04 | 0.00 | 0.0020 |
| 14.0 | 100 | | | | | | | crystals up to 0.075", 15% BT up to 0.05" | fillings. | | | | | 11.4 | 16.1 | 11103 | 0.09 | 0.00 | 0.0023 |
| 17.1 | 100 | | | | | | | set in an aphanitic buff silicic ground- | | | | | | | | | | | |
| 20.1 | 100 | | | | | | | mass; 25 to 100% of BT alt'd to ser, but | | | | | | | | | | | |
| 23.2 | 100 | | | | | | | generally can still see 50-75% of black | | | | | | | | | | | |
| 26.2 | 100 | | | | | | | BT; in areas of 100% BT to ser, most of | | 17.1 | | | | 16.1 | 20.9 | 11104 | 0.06 | 0.00 | 0.0026 |
| 29.3 | 100 | | | | | | | plag alt'd to fine ser, but still about | | | | | | | | | | | |
| 32.3 | 100 | | | | | | | 50% of them are hard; all of the rock is | | | | | | | | | | | |
| 35.4 | 100 | | | | | | | hard, very competent; occasional intense | | | | | | | | | | | |
| 0.0 | | | | | | | | narrow bleached/silicified zone as noted | | | | | | | | | | | |
| 0.0 | | | | | | | | below (much stronger py content here); | | | | | | 20.9 | 25.6 | 11105 | 0.02 | 0.00 | 0.0018 |
| 38.4 | 100 | | | | | | | non-carbonitized; non-magnetic; practic- | | | | | | 25.6 | 30.4 | 11106 | 0.03 | 0.00 | 0.0018 |
| 41.5 | 100 | | | | | | | ally no grey qz veinlets; no gypsum; | | | | | | | | | | | |
| 0.0 | | | | | | | | this represents a weak, pervasive phyl- | | | | | | | | | | | |
| 0.0 | | | | | | | | lic zone (weak ser with very, very weak | | 29.9 | | | | | | | | | |
| 38.4 | 100 | | | | | | | qz overprinting with strong py through- | | | | | | | | | | | |
| 41.5 | 100 | | | | | | | out); open (unhealed) fractures at 72 | | | | | | | | | | | |
| 0.0 | | | | | | | | deg to core axis; py infilling fractures | | | | | | | | | | | |
| 0.0 | | | | | | | | spaced at 2" to 12" apart. | | | | | | | | | | | |
| 44.5 | 100 | | | | | | | (50.6-54) Mod to strong pervasive to | | 35.4 | | | | | | | | | |
| | | | | | | | | patchy ser/silica alt'd; bleached; all | | | | | | | | | | | |
| | | | | | | | | crystals alt'd to ser/qz; still hard. | | | | | | | | | | | |
| | | | | | | | | (95.7-109.3) Strong, pervasive ser alt'd | 7-8% py; diss >> frac fills | | | | | 35.1 | 39.8 | 11108 | 0.02 | 0.00 | 0.0023 |
| | | | | | | | | nearly totally bleached. | | | | | | | | | | | |
| | | | | | 39.5 | 84.1 | Btp-zd | (129.6-161.2) 10-25% xenoliths; mottled | | | | | | | | | | | |
| | | | | | | | | (50%) bleached due to influx of hydro- | | | | | | | | | | | |
| | | | | | | | | thermal fluids; 25-50% of frags are | | | | | | | | | | | |
| | | | | | | | | buff coloured and soft (ser alt'd felsic | | 42.4 | | | | | | | | | |
| | | | | | | | | tuff?) are angular to slightly | | | | | | | | | | | |
| | | | | | | | | feathered', scattered; frags set in a | | | | | | 39.8 | 44.6 | 11109 | 0.01 | 0.00 | 0.0015 |
| | | | | | | | | | | | | | | 44.6 | 49.3 | 11110 | 0.02 | 0.00 | 0.0015 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-07 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | | | | | | | (641-645.7) Weakly bleached/ser alt'd | | | 195.1 | | | | | | | | |
| 0.0 | | | | | | | | due to dyke mentioned below; 5% mafic | | | | | | | | | | | |
| 0.0 | | | | | | | | xenoliths approx 1/2" to 1" wide and | | | | | | | | | | | |
| 0.0 | | | | | | | | angular. | | | | | | 191.6 | 196.3 | 11141 | 0.17 | 0.00 | 0.0020 |
| 196.9 | 100 | | | | | | | (645.7-653.8) BFP dyke; not a crowded | | | | | | 196.3 | 201.0 | 11142 | 0.10 | 0.00 | 0.0015 |
| | | | | | | | | porphyry; 40-60% plag laths up to 0.1" | | | | | | | | | | | |
| | | | | | | | | long; 15-20% BT up to 0.075" long in | | | | | | | | | | | |
| 199.9 | 100 | | | | | | | 20-30% buff coloured very fine grained | | | 199.0 | | | | | | | | |
| | | | | | | | | to aphanitic matrix; sharp contacts at | | | | | | | | | | | |
| | | | | | | | | 41 deg to C/A filled fractures cut | | | | | | | | | | | |
| | | | | | | | | through dyke at about 25 deg to C/A | | | | | | | | | | | |
| 203.0 | 100 | | | | | | | along a similar foliation. | | | | 202.7 | | | | | | | |
| 0.0 | | | | | | | | (653.8-656) Weakly bleached due to dyke; | | | | | | 201.0 | 205.8 | 11143 | 0.13 | 0.00 | 0.0015 |
| | | | | | | | | 10% angular breccia (same as above). | | | | | | | | | | | |
| 206.0 | 100 | | | | | | | (675.2-676.5) Broken core; pieces | | | 223.4 | | | 205.8 | 210.5 | 11144 | 0.14 | 0.00 | 0.0009 |
| | | | | | | | | average 1/2" to 1". | | | | | | | | | | | |
| 209.1 | 100 | | | | | | | | | | | | | | | | | | |
| 212.1 | 100 | | | | 211.8 | 212.7 | -K--f- | Pulverized, crushed core; very frail; | | | | | | 210.5 | 215.3 | 11145 | 0.18 | 0.00 | 0.0015 |
| | | | | | | | | bleached. | | | | | | 215.3 | 220.0 | 11146 | 0.10 | 0.00 | 0.0009 |
| 218.2 | 100 | | | | | | | (699-700.5) Bleached white. | | | | | | | | | | | |
| 221.3 | 100 | | | | | | | (700.5-701) Very fine grained dark BFP? | | | | | | 220.0 | 224.8 | 11147 | 0.08 | 0.00 | 0.0006 |
| 224.3 | 100 | | | | | | | dyke?, grading downhole into BFP unit as | | | | | | 224.8 | 229.5 | 11148 | 0.26 | 0.00 | 0.0020 |
| | | | | | | | | above. | | | | | | | | | | | |
| 227.4 | 100 | | | | | | | | | | | | | | | | | | |
| 230.4 | 100 | | | | | | | (713.5-718.2) Broken core; pieces | | | | | | 229.5 | 234.2 | 11149 | 0.35 | 0.00 | 0.0020 |
| | | | | | | | | average 3" in length. | | | 233.5 | | | | | | | | |
| 233.5 | 100 | | | | | | | | | | | | | | | | | | |
| 236.5 | 100 | | | | | | | (728.6-729.4) BFP dyke?; not crowded; | | | | | | 234.2 | 239.0 | 11150 | 0.30 | 0.00 | 0.0035 |
| | | | | | | | | dark grey groundmass (30%); 60-70% plag/ | | | | | | | | | | | |
| | | | | | | | | BT phenos? up to 0.075" long; sharp cont | | | | | | | | | | | |
| | | | | | | | | (734) 0.3" wide k-spar rich (10%) qz/py | | | | | | | | | | | |
| | | | | | | | | rich zone. | | | | | | | | | | | |
| 239.6 | 100 | 238.9 | 274.1 | VOLC | 238.9 | 258.5 | V7oMBS | Lapilli Tuff? Mixed mafic volcanic with | 3-4% | 3-4 | | | | 239.0 | 243.7 | 11151 | 0.25 | 0.00 | 0.0029 |
| | | | | | | | | BFP(same as above);20-80% (commonly 25%) | fillings >>> diss; py >> | | | | | | | | | | |
| 242.6 | 100 | | | | | | | angular mafic xenoliths 1/2" to 3" +/- | cpy; cpy visible in frac- | | | | | | | | | | |
| | | | | | | | | felsic (buff coloured) bounded by BFP; | tures (1st time in hole); | | | | | | | | | | |
| 245.4 | 100 | | | | | | | some places look almost brecciated | py as very fine grained to | | | | | 243.7 | 248.5 | 11152 | 0.19 | 0.00 | 0.0035 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-07 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------------|------|-----------|-------|------|----------|-------|--------|--|---|-----|-------|------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | ROD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 279.2 | 100 | | | | | | | grained and not as crystalline due to contact with mafic volcanic unit; | | | 280.4 | | | 276.9 | 281.7 | 11159 | 0.24 | 0.00 | 0.0018 |
| 282.2 | 100 | | | | | | | variably mod to strongly magnetic (patchy); 5% of fractures filled with carbonate; occasional chlor alt'n along fractures; nil to very, very weak qz stwk. | | | | | | 281.7 | 286.4 | 11160 | 0.11 | 0.00 | 0.0015 |
| 285.3 | 100 | | | | | | | (924-927) Broken core. | | | | | | 286.4 | 291.1 | 11161 | 0.13 | 0.00 | 0.0012 |
| 288.3 | 100 | 289.3 | 297.5 | VOLC | 289.3 | 297.5 | V5-MB> | Intense Mafic Volcanics. Sharp contact with upper BFP unit; consists of a lapilli tuff, clast supported; 60% of lapilli are angular to subrounded and mafic; very, very fine grained tuffaceous matrix; patchy mod to strongly magnetic; lapilli vary from 1/4" to 10", but generally 1/4" to 1"; 10 to 20% of frags are felsic to int, subangular to subrounded and often 1/8" to 1/2" (less sign than mafic ones). | 3-4% sulphides; sulphides filled fractures carry on through volc unit as above; | 3-4 | | | | 291.1 | 295.9 | 11162 | 0.11 | 0.00 | 0.0015 |
| 291.4 | 100 | | | | | | | py >>> cpy; occasional cpy observed. Frac filling > | | | | | | 295.9 | 297.5 | 11163 | 0.15 | 0.00 | 0.0021 |
| 294.4 | 100 | | | | | | | diss. | | | 294.1 | | | | | | | | |
| 297.5 | 100 | | | | | | | (966-976) Blocky, broken core; pieces average 1" to 2". | | | | | | | | | | | |
| EOH (976 ft) | | | | | | | | | | | | | | | | | | | |

PROPERTY: GRANISLE
 PERM DDH#: G90-08
 TEMP DDH#: G90-NC

GEOLOGIST: R.Verzosa

COL. DATE: 90/10/31
 EOH DATE: 90/11/03

DRILL#: 38-14
 CORE SIZE: NQ

COMMENTS
 =====

FIELD COORDINATES (Metric)
 =====

NORTHING: 3392.4 AZIMUTH: 180
 EASTING: 3413.8 DIP: -45
 ELEVATION: 637.9 LENGTH: 304.8

SURVEY COORDINATES (Metric)
 =====

NORTHING: 3392.0 AZIMUTH: 181.84
 EASTING: 3413.7 DIP: -45
 ELEVATION: 637.7 LENGTH: 303.6

DOWNHOLE SURVEY METHOD: SPERRY SUN
 =====

| | DEPTH | AZIMUTH | DIP |
|-----|-------|---------|-------|
| | ----- | ----- | ---- |
| 1: | 66.1 | 289 | -44 |
| 2: | 90.5 | 299 | -46 |
| 3: | 172.8 | 183 | -46.5 |
| 4: | 184.1 | 323 | -46 |
| 5: | 246.0 | 304 | -45 |
| 6: | 303.6 | ? | -45 |
| 7: | | | |
| 8: | | | |
| 9: | | | |
| 10: | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DOH: G90-08 | FINAL DATE: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|------|--------|---|---|-----|------|------|-------------|------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | 0.0 | 3.0 | CASE | 0.0 | 3.0 | | Casing. | | | | | | 0.0 | 5.3 | 10251 | 0.14 | 0.00 | 0.0067 |
| 5.2 | 50 | 5.2 | 139.7 | BBFP | 0.0 | 16.8 | C4t-m> | 17-458.3:BBFP Med-dark grey groundmass. Well formed FSP phenos, crowded porphyry. Moderately fractured, rare (1-2' fractures healed with qz carb. Open fractures lightly oxidized, some coated with qz-carb, occasionally mineralized with cpy-py. Weakly to locally intensely pitted, areas pf intense pitting show pitting of the groundmass. Some areas also show sericite alt'n of FSPs and subsequent pitting. | ~1% cpy-py frags > diss, rare blebs cpy = py. Trace moly. | | | | | 5.3 | 9.6 | 10252 | 0.14 | 0.00 | 0.0067 |
| 8.2 | 100 | | | | | | | | | | | | | | | | | | |
| 11.3 | 100 | | | | | | | | | | | | | 9.6 | 13.9 | 10253 | 0.19 | 0.00 | 0.0093 |
| 14.3 | 100 | | | | | | | | | | | 12.2 | | 13.9 | 18.2 | 10254 | 0.14 | 0.00 | 0.0067 |
| 17.4 | 100 | | | | 16.8 | 35.4 | C4tHY> | Broken, blocky core, fractures fresh, unoxidized or coated. Faults with gouge at 88 to 98'. | 107-116: Up to 2% cpy-py. Up to 3-4% spec. | | 15.8 | | | 18.2 | 22.6 | 10255 | 0.12 | 0.00 | 0.0061 |
| 20.4 | 100 | | | | | | | | | | | | | 22.6 | 26.9 | 10256 | 0.10 | 0.00 | 0.0058 |
| 23.5 | 100 | | | | | | | | | | | | | 26.9 | 31.2 | 10257 | 0.23 | 0.00 | 0.0061 |
| 26.5 | 100 | | | | | | | | | | | | | | | | | | |
| 29.6 | 100 | | | | | | | | | | | | | | | | | | |
| 32.6 | 100 | | | | | | | 99-104: Heavy pitting of groundmass. | | | 31.1 | | | 31.2 | 35.5 | 10258 | 0.21 | 0.00 | 0.0058 |
| 35.4 | 100 | | | | 35.4 | 90.5 | C-c-m> | Faint to weak propylitic alt'n, FSP crystals pale green-olive green. At around 107', several small (1/4-3/8") xenoliths of pink granite. | | | | | | 35.5 | 39.8 | 10259 | 0.11 | 0.00 | 0.0067 |
| 38.4 | 100 | | | | | | | | | | | | | | | | | | |
| 41.5 | 95 | | | | | | | (218-219) Bleached and silica flooded. | | | | | | 39.8 | 44.1 | 10260 | 0.07 | 0.00 | 0.0064 |
| 44.5 | 100 | | | | | | | (247-257) Rare xenoliths 1/2-1" of aphanitic very dark grey volcanics. | | | | | 44.1 | 48.4 | 10261 | 0.12 | 0.00 | 0.0061 | |
| 47.2 | 100 | | | | | | | | | | | 48.2 | | | | | | | |
| 50.3 | 100 | | | | | | | | | | 50.9 | | | 48.4 | 52.7 | 10262 | 0.08 | 0.00 | 0.0061 |
| 53.3 | 90 | | | | | | | | | | | | | | | | | | |
| 54.3 | 35 | | | | | | | | | | | | | 52.7 | 57.0 | 10263 | 0.10 | 0.00 | 0.0055 |
| 57.0 | 100 | | | | | | | | | | | | | 57.0 | 61.4 | 10264 | 0.07 | 0.00 | 0.0055 |
| 59.4 | 100 | | | | | | | | | | | | | | | | | | |
| 63.1 | 100 | | | | | | | | | | | | | 61.4 | 65.7 | 10265 | 0.07 | 0.00 | 0.0088 |
| 66.1 | 95 | | | | | | | | | | 64.9 | | | 65.7 | 70.0 | 10266 | 0.05 | 0.00 | 0.0100 |
| 69.2 | 100 | | | | | | | | | | | | | 70.0 | 74.3 | 10267 | 0.08 | 0.00 | 0.0050 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-08 | FINAL DATE: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 142.3 | 100 | | | | | | | crackled and infilled textures often | | | | | | | | | | | |
| 145.4 | 88 | | | | | | | obscured by alteration. | | | | | | 143.3 | 147.6 | 10284 | 0.39 | 0.00 | 0.0026 |
| 148.4 | 95 | | | | 147.1 | 154.7 | VB--p= | BBFP Charcoal grey, 10-15% FSP phenos | | | | | | 147.6 | 151.9 | 10285 | 0.27 | 0.00 | 0.0021 |
| | | | | | | | | poorly formed. Unit contains volc xeno- | | | | | | | | | | | |
| | | | | | | | | liths and locally shows flow and tuff | | | | | | | | | | | |
| | | | | | | | | textures (sub-volcanic).All of volcanics | | | | | | | | | | | |
| | | | | | | | | from 466-592.2 have local K-spar alter- | | | | | | | | | | | |
| | | | | | | | | ations ranging from a pinkish hue to | | | | | | | | | | | |
| | | | | | | | | qz flooding areas, to K-spar flooding | | | | | | | | | | | |
| | | | | | | | | associated with qz flooding. | | | | | | 151.9 | 156.2 | 10286 | 0.54 | 0.00 | 0.0018 |
| 151.5 | 97 | | | | | | | | | | | | | | | | | | |
| 154.5 | 100 | | | | 154.7 | 172.8 | VNoHb= | | | | | | | | | | | | |
| 157.6 | 100 | | | | | | | | | | 156.1 | | | 156.2 | 160.5 | 10287 | 0.48 | 0.00 | 0.0035 |
| 160.6 | 95 | | | | 160.2 | 160.5 | -Kc-F | fault with gouge and chlorite on poorly | | | | 159.1 | | 160.5 | 164.8 | 10288 | 0.69 | 0.00 | 0.0102 |
| | | | | | | | | slickensided surfaces. | | | | | | | | | | | |
| | | | | | | | | 539.5-546: BFP dyke.Med grey groundmass, | | | | | | | | | | | |
| 163.7 | 100 | | | | | | | well formed FSP phenos, uncrowded (50%) | | | | | | | | | | | |
| 166.7 | 100 | | | | | | | contacts on top and bottom have sub- | | | | | | 164.8 | 169.1 | 10289 | 0.37 | 0.00 | 0.0029 |
| 169.8 | 100 | | | | | | | stantial amounts of volc veins. | | | | | | 169.1 | 173.4 | 10290 | 0.45 | 0.00 | 0.0041 |
| 172.8 | 100 | | | | 172.8 | 180.7 | VNomY> | 567-600:Rock heavily fractured and | | | | | | | | | | | |
| 174.7 | 100 | | | | | | | broken at moderate to shallow angles, | | | | | | 173.4 | 177.7 | 10291 | 0.52 | 0.00 | 0.0032 |
| 178.0 | 80 | | | | | | | all fractures fresh. | | | | | | 177.7 | 182.1 | 10292 | 0.32 | 0.00 | 0.0012 |
| 180.4 | 100 | 180.7 | 226.2 | BBFP | 180.7 | 186.5 | Cz-Mz> | 592.7-742 BBFP: Med grey groundmass, | 2-3% py-cpy, frags > diss > | 2-3 | | | | | | | | | |
| 182.3 | 100 | | | | | | | FSP content varies from 20% well formed | blebs, 2-5% hem-mg locally | | | | | | | | | | |
| | | | | | | | | to crowded and poorly formed moderate | up to 20% mg. | | | | | | | | | | |
| | | | | | | | | fracturing, healed with qz, carb-mag. | | | | | | | | | | | |
| | | | | | | | | Locally crackled and silicified. Random | | | | | | | | | | | |
| | | | | | | | | xenos of subrounded felsic ash tuff to | | | | | | | | | | | |
| | | | | | | | | large angular breccia frags of aphanitic | | | | | | | | | | | |
| | | | | | | | | black volcanics (tuffs?) and qz frags. | | | | | | | | | | | |
| | | | | | | | | Locally groundmass is pitted. Open frac- | | | | | | | | | | | |
| 0.0 | | | | | | | | tures show carb with chlorite and hema- | | | | | | | | | | | |
| 183.5 | 100 | | | | | | | tite and some poor slickensides. | | | | | | 182.1 | 186.4 | 10293 | 0.64 | 0.00 | 0.0064 |
| 186.5 | 80 | | | | 186.5 | 203.3 | C-koy> | 612-617: Crushed, broken core, lightly | | | | | | | | | | | |
| 188.1 | 20 | | | | | | | oxidized with minor clay. | | | | | | 186.4 | 190.7 | 10294 | 0.44 | 0.00 | 0.0050 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-08 | FINAL DATE: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|---------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 191.1 | 100 | | | | | | | 622.9-632.7: Volcanics. Heterolithic | | | 191.1 | | | 190.7 | 195.0 | 10295 | 0.66 | 0.00 | 0.0140 |
| 194.2 | 100 | | | | | | | breccia. Clast supported breccia with | | | | | | 195.0 | 199.3 | 10296 | 0.45 | 0.00 | 0.0067 |
| 197.2 | 100 | | | | | | | BBFP, andesite lapilli tuff, qz, felsic | | | | | | 199.3 | 203.6 | 10297 | 0.19 | 0.00 | 0.0021 |
| 200.3 | 100 | | | | | | | tuff frags. <1/8 to 3", rounded to | | | | | | 199.3 | 203.6 | 10297 | 0.19 | 0.00 | 0.0021 |
| 203.3 | 100 | | | | 203.3 | 226.2 | Cz-Mz> | angular, aphanitic, magnetic black | | | | | | 203.6 | 207.9 | 10298 | 0.18 | 0.00 | 0.0021 |
| 206.3 | 100 | | | | | | | matrix, locally matrix is magnetic | | | | | | | | | | | |
| 209.4 | 100 | | | | | | | hematite. | | | 211.5 | | | 207.9 | 212.2 | 10299 | 0.27 | 0.00 | 0.0041 |
| 215.5 | 100 | | | | | | | 713: Fault. 4" of clay and gouge. Wall | | | | 215.5 | | 212.2 | 216.5 | 10300 | 0.23 | 0 | 0.0038 |
| 218.5 | 100 | | | | | | | rock clean and fresh. | | | | | | 216.5 | 220.8 | 10301 | 0.20 | 0.00 | 0.0024 |
| 221.6 | 100 | | | | | | | | | | | | | 220.8 | 225.2 | 10302 | 0.20 | 0.00 | 0.0006 |
| 224.6 | 100 | 226.2 | 265.8 | BBFP | 226.2 | 235.6 | CcoMM> | 742-872: BBFP. Light grey groundmass, | 2% py-cpy, Fracs > diss, | | | | | 225.2 | 229.5 | 10303 | 0.07 | 0.00 | 0.0012 |
| 227.7 | 100 | | | | | | | crowded, well formed FSP phenos. Faint | 2-10% nmag-hem. | | | | | | | | | | |
| 230.7 | 100 | | | | | | | to weak propylitic alteration of both | | | | | | 229.5 | 233.8 | 10304 | 0.06 | 0.00 | 0.0006 |
| | | | | | | | | groundmass and FSP phenos. Abundant mag- | | | | | | | | | | | |
| | | | | | | | | netite veins. Local K-spar flooding and | | | | | | | | | | | |
| | | | | | | | | alteration, associated with mod to int | | | | | | | | | | | |
| | | | | | | | | silic'n. Fractures sericitized and | | | | | | | | | | | |
| 233.8 | 100 | | | | | | | chloritized, some poor slickensides. | | | 233.2 | | | 233.8 | 238.1 | 10305 | 0.08 | 0.00 | 0.0009 |
| | | | | | | | | Abundant qz veining, with and without | | | | | | | | | | | |
| | | | | | | | | magnetite and sulphides. | | | | | | | | | | | |
| 236.8 | 85 | | | | 235.6 | 240.2 | CczMY> | Broken core, 10% RQD. Some fractures | | | | | | | | | | | |
| | | | | | | | | (50%) fresh, some oxidized and seric- | | | | | | | | | | | |
| | | | | | | | | itized. | | | | | | | | | | | |
| 239.9 | 90 | | | | 240.2 | 250.9 | CczMm> | 796-797: Fault - gouge and crushed, | | | | | | 238.1 | 242.4 | 10306 | 0.07 | 0.00 | 0.0012 |
| 242.9 | 85 | | | | | | | chloritized and sericitized core. | | | | | | 242.4 | 246.7 | 10307 | 0.06 | 0.00 | 0.0260 |
| 246.0 | 100 | | | | | | | | | | | | | | | | | | |
| 248.1 | 100 | | | | | | | | | | 248.1 | | | 246.7 | 251.0 | 10308 | 0.06 | 0.00 | 0.0006 |
| 249.0 | 100 | | | | 250.9 | 303.6 | CZcMK> | BBFP This section has a darker ground- | 2% py-cpy, frags > diss, | | | | | 251.0 | 255.3 | 10309 | 0.07 | 0.00 | 0.0009 |
| 252.1 | 100 | | | | | | | mass, with FSP obscured by silicifi- | locally up to 15% mg-hem. | | | | | 255.3 | 259.6 | 10310 | 0.06 | 0.00 | 0.0009 |
| 255.1 | 100 | | | | | | | cation and minor chloritization. Much | | | | | | | | | | | |
| 258.2 | 100 | | | | | | | heavier qz veining, (1/8-1/2") at 1-5" | | | | | | 259.6 | 264.0 | 10311 | 0.15 | 0.00 | 0.0021 |
| 261.2 | 90 | | | | | | | intervals. Magnetite veins larger and | | | | | | | | | | | |
| 264.3 | 92 | | | | | | | more abundant. Fractures usually chlor- | | | 264.3 | 262.7 | | 264.0 | 268.3 | 10312 | 0.09 | 0.00 | 0.0012 |

| | | | |
|----------------------|------------------------------------|---------------|-----|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) | | |
| PERM DDH#: G90-09 | ===== | | |
| TEMP DDH#: G90-RG | NORTHING: 3546.3 | AZIMUTH: 90 | |
| ===== | EASTING: 3505.2 | DIP: -45 | |
| | ELEVATION: 753.2 | LENGTH: 274.3 | |
| GEOLOGIST: T.R.Kraft | ===== | | |
| COL. DATE: 90/10/31 | SURVEY COORDINATES (Metric) | | |
| EOH DATE: 90/11/03 | ===== | | |
| DRILL#: 44-5 | NORTHING: 3547.6 | AZIMUTH: 90 | |
| CORE SIZE: NQ | EASTING: 3507.7 | DIP: -45 | |
| ===== | ELEVATION: 753.8 | LENGTH: 281.6 | |
| COMMENTS | ===== | | |
| ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN | | |
| | ===== | | |
| | DEPTH | AZIMUTH | DIP |
| | ---- | ----- | --- |
| | 1: 81.1 | 78 | -44 |
| | 2: 182.9 | 84 | -45 |
| | 3: 278.6 | 82 | -46 |
| | 4: | | |
| | 5: | | |
| | 6: | | |
| | 7: | | |
| | 8: | | |
| | 9: | | |
| | 10: | | |
| | ===== | | |

| Metric | MAIN UNIT | | | SUB UNIT | | | DDH: G90-09 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|-----------|------|----|----------|-------|-------|-------------|--|---|-----|------|-------------|-------|-------|-------|---------|--------|--------|-----------------------------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 93.3 | 100 | | | | 92.7 | 104.9 | B1P-KS | BFP; but a greater concentration of py filled fractures with 1" to 4" wide bleached ser/chlor envelopes; stronger chlor in envelopes than any other hole so far (say 3-4%); py-filled fractures generally 1-2" apart; same unit as above (a 'microporphyry') (crowded) consisting of visible salt/pepper plag/BT up to 0.05" to 0.075"; due to increase in fracturing, 20% of BT -> ser, and locally plag -> clay/ser and bleached white; non-magnetic; 60% broken core (pieces average 3" to 5"); unhealed fractures at 40 deg to C/A; 3 to 4% carb along fracs. (308.6) 0.1' wide carb/clay gouge at 31 deg to C/A (parallel to py str). | 6-7% py; str/frac fills >> diss; only py visible, no c | 6-7 | 94.2 | | | 91.9 | 96.2 | 10344 | 0.12 | 0.00 | 0.0003 |
| 96.3 | 100 | | | | 96.0 | 96.3 | -K-F | Very broken core; 30% carb/clay gouge; fault. | | | | | 96.2 | 100.5 | 10345 | 0.26 | 0.00 | 0.0012 | |
| 99.4 | 100 | | | | 100.2 | 101.4 | -LK-F | Very broken core; pieces average 1" to 3"; includes 2 zones of pulverized core with abundant carbonate. | | | | | | | | | | | |
| 102.4 | 97 | | | | 101.6 | 101.8 | -KL-F | Pulverized core with strong carbonate. | | | | | 100.5 | 104.8 | 10346 | 0.10 | 0.00 | 0.0006 | |
| 105.5 | 100 | | | | 104.9 | 141.7 | B1pmks | Same unit as above; 'microporphyry' with fine grained BT/plag with med grey mat-rix much less py, fractures than above subunit; in this subunit, the carb/py filled fractures are spaced 1-5" apart, more competent; no gypsum; with mod magnetic (patchy); py filled fractures and open spaced fractures at ~ 48 deg to C/A; locally minor clay alt'd plag; locally, trace plag turned light green (possible propylitic alt'n). | 3-4% py concentrated mainly along fractures; 1% cpy along a few fractures (open spaced); fracture-filling >> diss; cpy appears to pic | 3-4 | | 104.8 | 109.1 | 10347 | 0.06 | 0.00 | 0.0015 | | |
| | | | | | | | | | | | | | | | | | | | (At 419') 2 fractures about |

| PROPERTY: GRANISLE PERM DDH#: G90-10 TEMP DDH#: G90-RH ===== GEOLOGIST: A.J. Pardoe COL. DATE: 90/11/3 EOH DATE: 90/11/4 DRILL#: 44-5 CORE SIZE: NQ ===== COMMENTS ===== | FIELD COORDINATES (Metric) ===== NORTHING: 3546.3 AZIMUTH: 090 EASTING: 3602.7 DIP: -45 ELEVATION: 754.7 LENGTH: 213.4 ===== SURVEY COORDINATES (Metric) ===== NORTHING: 3546.3 AZIMUTH: 89.39 EASTING: 3603.7 DIP: -45 ELEVATION: 755.2 LENGTH: 196.6 ===== DOWNHOLE SURVEY METHOD: SPERRY SUN ===== <table> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>-----</th> <th>-----</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>96.3</td> <td>083</td> <td>45</td> </tr> <tr> <td>2:</td> <td>178.3</td> <td>081</td> <td>46.5</td> </tr> <tr> <td>3:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ----- | ----- | --- | 1: | 96.3 | 083 | 45 | 2: | 178.3 | 081 | 46.5 | 3: | | | | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
|---|---|---------|-------|---------|-----|--|-------|-------|-----|----|------|-----|----|----|-------|-----|------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ----- | ----- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 96.3 | 083 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 178.3 | 081 | 46.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-10 | Final Date: 91/01/18 | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|------|------|----------|------|--------|--|-----------------------------|-----|------|-------------|-----|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | 0.0 | 7.0 | CASE | 0.0 | 7.0 | | Casing (0-23) | | | | | | | | | | | |
| 7.0 | | 7.0 | 65.2 | BBFP | 7.0 | 16.0 | C3tOY< | BBFP (23-214) | | | | | | | | | | | |
| 0.0 | | | | | | | | 23-64: Med to lt gy grdmass with crowded | 23-64: Py>>>cp, fg diss>> | 4-5 | | | | | | | | | |
| 0.0 | | | | | | | | white, w to m-ser'd FSP and scattered dk | strs | | | | | | | | | | |
| 0.0 | | | | | | | | brwn BT phenos. M to i-diss 2nd BT, pale | | | | | | | | | | | |
| | | | | | | | | to med brwn colored. Loc qz vnltls and | | | | | | | | | | | |
| | | | | | | | | scattered xenos (<1cm dia, subangular to | | | | | | | | | | | |
| | | | | | | | | well rounded) | | | | | | 7.6 | 11.9 | 10503 | 0.19 | 0.00 | 0.0029 |
| 7.9 | 60 | | | | | | | (23-52.5) M to badly broken, i-limonite | | | 11.3 | | | | | | | | |
| 11.0 | 94 | | | | | | | on fractures. Loc gouge on some fracture | | | | | | 11.9 | 16.2 | 10504 | 0.18 | 0.00 | 0.0026 |
| 14.0 | 91 | | | | | | | (52.5-64) W-broken, v minor limonite. | | | | | | 16.2 | 20.5 | 10505 | 0.29 | 0.00 | 0.0041 |
| 17.1 | 93 | | | | 16.0 | 37.8 | C5tmk= | 64-124:Med dk gy to loc med brwn grdmass | 64-124: Py>>cp. V minor str | | | | | 20.5 | 24.8 | 10506 | 0.12 | 0.00 | 0.0023 |
| 20.1 | 96 | | | | | | | Fg, crowded white FSP and lesser dk brwn | in BBFP, sx increase in ser | | | | | | | | | | |
| | | | | | | | | BT phenos. FSP are w to loc m-ser'd and | sections, with diss=strs. | | | | | | | | | | |
| | | | | | | | | tend to be indistinct. I-diss dk brwn | Patchy m to i-mag in dark | | | | | | | | | | |
| | | | | | | | | 2nd BT. Loc bleached, w to mod ser'd | BBFP, probably alt'd to hem | | | | | | | | | | |
| | | | | | | | | sections. V loc w-propylitic alt'n. W-qz | in rest of unit. | | | | | | | | | | |
| | | | | | | | | and carb vnltls, mostly associated with | | | | | | | | | | | |
| | | | | | | | | ser'd sections and patches. | | | | | | | | | | | |
| 23.2 | 100 | | | | | | | (64-76) Dominantly dk BBFP | | | | | | | | | | | |
| 26.2 | 100 | | | | | | | (91-91.3) Small fault. W-broken and mino | | | 25.3 | | | 24.8 | 29.2 | 10507 | 0.30 | 0.00 | 0.0044 |
| 29.3 | 99 | | | | | | | gouge | | | | | | 29.2 | 33.5 | 10508 | 0.12 | 0.00 | 0.0023 |
| 32.3 | 100 | | | | | | | (103-114) Mod to badly broken, no gouge. | | | | 30.2 | | | | | | | |
| 35.4 | 87 | | | | | | | (114-124) Dk BBFP | | | | | | | | | | | |
| 38.4 | 100 | | | | 37.8 | 65.2 | C4t-M< | 124-214: BBFP(?) with patchy w to m-ser | 124-215: Py+-loc cp, diss>> | 3-4 | 35.8 | | | 37.8 | 42.1 | 10510 | 0.15 | 0.00 | 0.0018 |
| | | | | | | | | overprint. Grdmass med brwn/gy to loc lt | strs. Loc blebs. | | | | | | | | | | |
| | | | | | | | | gy and v loc dk brwn. Crowded white, w | | | | | | | | | | | |
| | | | | | | | | to m-ser'd FSP and dk to loc i-ser'd BT. | | | | | | | | | | | |
| | | | | | | | | Brwn color in grdmass is likely vfg 2nd | | | | | | | | | | | |
| | | | | | | | | BT. Patches and streaks of ser and loc | | | | | | | | | | | |
| | | | | | | | | i-K alt'n. Dominantly massive. | | | | | | | | | | | |
| | | | | | | | | (124-126.2)Mod buff to dk gy tuff xenos | | | | | | | | | | | |
| | | | | | | | | (<1cm dia). Chaotic texture. | | | | | | | | | | | |
| 41.5 | 100 | | | | | | | (132-138.3) M to strong buff tuff xenos, | | | | | | 42.1 | 46.4 | 10511 | 0.18 | 0.00 | 0.0023 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-10 | Final Date: 91/01/18 | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|-------|------|----------|------|--------|---|---|------|------|-------------|-----|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 44.5 | 100 | | | | | | | subrounded and 1-2cm dia. Bleached rock, m to i-ser'd | | | | | | | | | | | |
| 47.5 | 100 | | | | | | | (138.3-146) M to i-ser, loc m to i-K. W-qz vnlt's and loc foliation @45 deg to CA. | | 42.7 | | | | 46.4 | 50.7 | 10512 | 0.16 | 0.00 | 0.0023 |
| 50.6 | 98 | | | | | | | (161.3-162) i-broken, w-K and minor gouge on frac. Fault. | | 50.6 | | | | 50.7 | 55.0 | 10513 | 0.13 | 0.00 | 0.0023 |
| 53.6 | 99 | | | | | | | (171.5-177.5) Pale yellow-gy, m to i-ser. Scattered small tuff xenos and large w-broken tuff xeno(?) @172.5-174.5 ft. | (172.5-174.5) Py str's>diss | 2-3 | | | | | | | | | |
| 56.4 | 100 | | | | | | | (177.5-197.3) Chaotic texture. Rounded tuff xenos(?) visible, but unit may be mix of alt'd BBFP and tuff bx. BT alt'd patchy w to m-ser. | (177.5-197.3) Py>>cp, diss+ blebs>strs. | 2-3 | | | | 55.0 | 59.3 | 10514 | 0.26 | 0.00 | 0.0044 |
| 59.4 | 100 | | | | | | | | | 56.7 | | | | 59.3 | 63.6 | 10515 | 0.09 | 0.00 | 0.0032 |
| 62.5 | 100 | | | | | | | | | | | | | | | | | | |
| 65.5 | 100 | 65.2 | 74.1 | VOLC | 65.2 | 74.1 | VTb-Bb | VOLC BX (214-243) | | | | | | 63.6 | 67.9 | 10516 | 0.04 | 0.00 | 0.0029 |
| 68.6 | 100 | | | | | | | Sharp upper contact with BBFP @60 deg. | 214-224: Py in blebs and | 68.0 | | | | 67.9 | 72.3 | 10517 | 0.06 | 0.00 | 0.0018 |
| 71.6 | 100 | | | | | | | Bottom contact indistinct. Bx is pale yellow and minor multicolor, m to i-ser' frags with minor gy siliceous matrix. Largely clast supported. Frags are aphanitic, rounded and <2cm dia. Loc patchy BT alt'n and mod BT alt'n in upper 2.8 and lower 1ft. | infilling btwn frags. | | | 71.6 | | 72.3 | 76.6 | 10518 | 0.06 | 0.00 | 0.0018 |
| 74.7 | 100 | 74.1 | 108.8 | QFP? | 74.1 | 88.8 | Q3b-d< | QFP? (243-357) | | | | | | | | | | | |
| 77.7 | 100 | | | | | | | Similar to BBFP unit above bx, but no BT phenos are present and FSP phenos are mg. Scattered dk grn specks of chl? Lt gy, non-Si'd grdmass. Crowded porphyry. | | 77.1 | | | | 76.6 | 80.9 | 10519 | 0.05 | 0.00 | 0.0020 |
| 80.8 | 100 | | | | | | | Massive | | | | | | 80.9 | 85.2 | 10520 | 0.05 | 0.00 | 0.0012 |
| 83.8 | 100 | | | | | | | 243-291.5: Patchy med to dk brwn sections. Loc BT alt'n. | 243-357: Py, diss specks >>strs. | | | | | 85.2 | 89.5 | 10521 | 0.03 | 0.00 | 0.0020 |
| 86.9 | 100 | | | | | | | | | | | | | 89.5 | 93.8 | 10522 | 0.02 | 0.00 | 0.0020 |
| 89.9 | 100 | | | | 88.8 | 99.2 | Qcl-d< | 291.5-325.5: Grdmass is med green and w-carb alt'd. | | | | | | 93.8 | 98.1 | 10523 | 0.03 | 0.00 | 0.0018 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-10 | Final Date: 91/01/18 | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|----------------------------|-----|-------|-------------|-----|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 96.0 | 100 | | | | | | | (313-315) Pale gy grdmass and w-carb | | | | | | | | | | | |
| 99.1 | 100 | | | | | | | strs. Loc w-gouge on frac. | | | | | | 98.1 | 102.4 | 10524 | 0.02 | 0.00 | 0.0015 |
| 102.1 | 100 | | | | 99.2 | 108.8 | Q2--z< | 325.5-357: Grdmass dom. pale to lt gy, | | | | | | 102.4 | 106.7 | 10525 | 0.02 | 0.00 | 0.0018 |
| | | | | | | | | v loc med grn. Loc short sections (<=1ft | | | 103.3 | | | | | | | | |
| | | | | | | | | long of pale multicolor volc bx (xenos | | | | | | | | | | | |
| 105.2 | 100 | | | | | | | of lapilli tuff?) | | | | | | | | | | | |
| | | | | | | | | (353.5-357) Contact zone. Abundant volc | | | | | | | | | | | |
| 108.2 | 100 | | | | | | | bx (xenos?) in QFP | | | | 107.0 | | 106.7 | 111.1 | 10526 | 0.03 | 0.00 | 0.0015 |
| | | 108.8 | 115.5 | TUFF | | | | VOLC BX/TUFF (357-379) | 357-379: Py, str>>diss | <1 | | | | | | | | | |
| | | | | | 108.8 | 115.5 | T3--M> | 357-360: Lt yellow-grn, fg to mg tuff? | | | | | | | | | | | |
| | | | | | | | | 360-379: Lt yellow, massive ash tuff. | | | | | | | | | | | |
| 111.3 | 76 | | | | | | | Sharp contacts at 35 deg to CA. W-broken | | | 111.3 | | | 111.1 | 115.4 | 10527 | 0.04 | 0.00 | 0.0006 |
| | | | | | | | | (371-378.6) I- fault (crushed, gouged | | | | | | | | | | | |
| 114.3 | 91 | | | | | | | and broken) | | | | | | | | | | | |
| | | 115.5 | 138.2 | QFP? | | | | QFP (379-453.5) | | | | | | | | | | | |
| | | | | | | | | Pale to med yellow-gy grdmass with abun- | | | | | | | | | | | |
| | | | | | | | | dant white FSP phenos (Phenos less pro- | | | | | | | | | | | |
| 117.3 | 100 | | | | | | | minent than above tuff). Massive. | | | | | | 115.4 | 119.7 | 10528 | 0.01 | 0.00 | 0.0012 |
| 120.4 | 100 | | | | 115.5 | 123.4 | Q2k-M< | 379-405: W to loc i-K alt'n | 379-419.5: Py, diss>>strs | 3-4 | | | | 119.7 | 124.0 | 10529 | 0.01 | 0.00 | 0.0009 |
| 123.4 | 100 | | | | 123.4 | 127.9 | -k--F | 405-419.5: Faulted zone. W to loc m-K | | | 121.6 | | | 124.0 | 128.3 | 10530 | 0.04 | 0.00 | 0.0012 |
| 126.5 | 100 | | | | | | | alt'n and several, short broken + gouged | | | | | | | | | | | |
| 129.5 | 100 | | | | 127.9 | 138.2 | M2k-Ab | sections. | 419.5-453.5: Py, diss>strs | 1-2 | | | | 128.3 | 132.6 | 10531 | 0.06 | 0.00 | 0.0012 |
| 132.6 | 100 | | | | | | | 434-453.5: Contact zone. Mixed QFP + | 434-453.5: Py in blebs>> | | 129.8 | | | 132.6 | 136.9 | 10532 | 0.06 | 0.00 | 0.0015 |
| 135.6 | 100 | | | | | | | volc bx (lapilli tuff?). Loc m-K alt'n + | diss+strs. | | | | | | | | | | |
| | | | | | | | | loc crushed sections. Chaotic texture. | | | 136.2 | | | | | | | | |
| | | 138.2 | 195.2 | TUFF | | | | VOLC TUFF (453.5-640.5) | | | | | | | | | | | |
| | | | | | 138.2 | 146.9 | T3t-b> | 453.5-465.5: Volc bx. Rounded irregular | 453.5-465.5: Py in blebs+ | 3-4 | | | | | | | | | |
| 138.7 | 100 | | | | | | | yellow and salmon frags with minor med | patches>>strs+diss. | | | | | 136.9 | 141.2 | 10533 | 0.02 | 0.00 | 0.0006 |
| | | | | | | | | to lt gy matrix. | | | | | | | | | | | |
| 141.7 | 100 | | | | | | | 465.5-482: Yellow ash and fine lapilli | 465.5-482: Py, str>>diss | 1-2 | | | | 141.2 | 145.5 | 10534 | 0.05 | 0.00 | 0.0012 |
| 144.8 | 100 | | | | | | | tuff as at 357'. Lower 1' is m-broken. | | | | | | 145.5 | 149.8 | 10535 | 0.03 | 0.00 | 0.0006 |
| 147.8 | 96 | | | | 146.9 | 160.3 | T3t-B< | 482-526: Volc bx (lahar?). As @214. Frag | 482-526: Py, diss>>>strs. | 4 | 145.1 | | | | | | | | |
| 150.9 | 100 | | | | | | | more distinct than @453.5'. Very little | | | | | | 149.8 | 154.2 | 10536 | 0.05 | 0.00 | 0.0006 |
| 153.9 | 100 | | | | | | | matrix. Loc ash and fine lapilli tuff. | | | | | | 154.2 | 158.5 | 10537 | 0.04 | 0.00 | 0.0009 |

| | |
|----------------------|------------------------------------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) |
| PERM DDH#: G90-11 | ===== |
| TEMP DDH#: G90-AQ | |
| ===== | |
| GEOLOGIST: R Verzosa | NORTHING: 3352.8 AZIMUTH: 270 |
| | EASTING: 3352.8 DIP: -45 |
| | ELEVATION: 643.1 LENGTH: 152.4 |
| | ===== |
| COL. DATE: 90/11/03 | SURVEY COORDINATES (Metric) |
| EOH DATE: 90/11/04 | ===== |
| | |
| DRILL#: 38-14 | NORTHING: 3353.4 AZIMUTH: 268.20 |
| CORE SIZE: NQ | EASTING: 3348.7 DIP: -45 |
| | ELEVATION: 643.9 LENGTH: 151.5 |
| | ===== |
| COMMENTS | DOWNHOLE SURVEY METHOD: SPERRY SUN |
| ===== | ===== |
| | |
| | DEPTH AZIMUTH DIP |
| | ---- |
| | 1: 63.1 ? -45 |
| | 2: 135.3 281 -47 |
| | 3: |
| | 4: |
| | 5: |
| | 6: |
| | 7: |
| | 8: |
| | 9: |
| | 10: |
| | ===== |

| 7 ===== | | | | | | | | | | | | | | | | | | | |
|-----------|------|------|------|------|----------|------|--------|---|---------------------------|----------------------|------|------|-------------|------|-------|---------|--------|--------|----------|
| Metric | | | | | | | | | | Final Date: 91/01/18 | | | SAMPLE DATA | | | | | | |
| MAIN UNIT | | | | | SUB UNIT | | | DDH: G90-11 | | | | | | | | | | | |
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 6.1 | 0 | 0.0 | 6.1 | CASE | 0.0 | 6.1 | | Casing 0-20 | | | | | | | | | | | |
| | | 6.1 | 58.6 | BBFP | | | | BBFP 20.0-192.1 | 20-192.1 | | | | | | | | | | |
| | | | | | | | | Med-dk grey grdmass with feldspar phenos ranging from well formed and crowded to poorly formed and 10% content. | 1-2% py>cp diss>frxrs | | | | | | | | | | |
| | | | | | | | | Lightly fractured, mostly healed with qtz-carb+gyp. Locally ser-chl-hem on fractures. Groundmass lightly pitted. Rare xenos, variable composition | | 14.6 | | 15.8 | | | | | | | |
| | | | | | 6.1 | 14.4 | CgkoF? | size, and shape. | | | | | | | | | | | |
| 8.2 | 35 | | | | | | | (27-47.3) Fault Zone - Broken, oxidized | | | | | | 7.6 | 9.8 | 10552 | 0.16 | 0.00 | 0.0003 |
| 11.3 | 85 | | | | | | | core, sections completely clay alt'd. | | | | | | 9.8 | 14.1 | 10553 | 0.14 | 0.00 | 0.0009 |
| 14.3 | 95 | | | | 14.4 | 29.0 | Cgkhy? | Sharp bottom contact w/ qtz veinlet. | | | | | | 14.1 | 18.4 | 10554 | 0.07 | 0.00 | 0.0012 |
| 17.4 | 100 | | | | | | | (62.0-77.0) Blocky, broken core. Zero RQD | | | | | | 18.4 | 22.7 | 10555 | 0.13 | 0.00 | 0.0015 |
| 20.4 | 100 | | | | | | | all fracture surfaces fresh. | | | | | | 22.7 | 27.0 | 10556 | 0.08 | 0.00 | 0.0012 |
| 23.5 | 95 | | | | | | | (89.6-95.0) Intense oxidation and clay alteration. Entire section bleached and earthy to friable. | | | | | 27.0 | 31.3 | 10557 | 0.07 | 0.00 | 0.0009 | |
| 29.6 | 90 | | | | 29.0 | 53.6 | Cgchk? | (95.0-176.0) localized faint to weak propylitic alteration of feldspar pheno | | | | | | 31.3 | 35.6 | 10558 | 0.24 | 0.00 | 0.0006 |
| 32.6 | 100 | | | | | | | and along qtz vn selvages. | | 34.1 | | | | 35.6 | 40.0 | 10559 | 0.12 | 0.00 | 0.0012 |
| 35.7 | 100 | | | | | | | | | | | | 40.0 | 44.3 | 10560 | 0.05 | 0.00 | 0.0015 | |
| 38.7 | 100 | | | | | | | | | | | | 44.3 | 48.6 | 10561 | 0.12 | 0.00 | 0.0003 | |
| 41.8 | 100 | | | | | | | | | | | | 48.6 | 52.9 | 10562 | 0.21 | 0.00 | 0.0012 | |
| 44.8 | 100 | | | | | | | | | | | 46.9 | | | | | | | |
| 46.3 | 100 | | | | | | | | | | | | | | | | | | |
| 47.9 | 100 | | | | | | | | | | | | | | | | | | |
| 50.9 | 100 | | | | | | | | | | | | | | | | | | |
| 53.9 | 100 | | | | 53.6 | 58.6 | C7ghz? | (176-192.1) Charcoal to black grdmass, 10% Fsp phenos, heavily frxd, xenos of black volcs (underlying unit). | | | | | | 52.9 | 57.2 | 10563 | 0.15 | 0.00 | 0.0003 |
| 57.0 | 100 | 58.6 | 78.4 | VOLC | 58.6 | 78.4 | V6-h8= | VOLC 192.1-257.1 | 5% py>>cp frxr=diss=blebs | | | | | 57.2 | 61.5 | 10564 | 0.19 | 0.00 | 0.0029 |
| 60.0 | 100 | | | | | | | Charcoal grey dacite lapilli tuff | 1-2% mg-hm in frxrs>>diss | | | | | | | | | | |
| 63.1 | 100 | | | | | | | mottled, aphanitic clasts and grdmass | | | | | | 61.5 | 65.8 | 10565 | 0.18 | 0.00 | 0.0026 |

| 7 ===== | | | | | | | | | | | | | | | | | | | |
|---------|-----------|-------|-------|------|----------|-------|--------|---|----------------------------|-----|-------|-------|-----|-------------|-------|---------|--------|--------|----------|
| Metric | MAIN UNIT | | | | SUB UNIT | | | DDH: 690-11 | Final Date: 91/01/18 | | | | | SAMPLE DATA | | | | | |
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 66.1 | 95 | | | | | | | Wk-mod frxr, healed w/ qtz-carb+py | | | | | | 65.8 | 70.1 | 10566 | 0.16 | 0.00 | 0.0020 |
| 69.2 | 100 | | | | 68.9 | 69.0 | -K--F | (226.0-226.5) Fault Broken,crushed | | | | | | | | | | | |
| 72.2 | 100 | | | | | | | core with gouge and clay altered hw/fw | | | | | | 70.1 | 74.4 | 10567 | 0.35 | 0.00 | 0.0055 |
| 75.3 | 100 | | | | | | | (234.5-236.5) Intense silicification and Kspar flooding. frxr contact on fw | | | 66.1 | | | 74.4 | 78.7 | 10568 | 0.16 | 0.00 | 0.0023 |
| | | | | | 78.2 | 78.3 | -K--F | (256.5-256.9) Fault-crushed core w/gouge | | | | | | | | | | | |
| 78.3 | 100 | | | | | | | BBFP 257.1-345.9 | 1-2% py>cp | | 83.2 | | | 78.7 | 83.1 | 10569 | 0.17 | 0.00 | 0.0029 |
| 81.4 | 100 | 78.4 | 90.0 | BBFP | 78.4 | 90.0 | C3-hm> | lt-med grey grdmass, 1st 25' 10-30% Fsp | 1% mg-hm frxrs=blebs>>diss | | | | | 83.1 | 87.4 | 10570 | 0.23 | 0.00 | 0.0032 |
| 84.4 | 100 | | | | | | | then grades to crowded ppy with lighter | | | | | | 87.4 | 91.7 | 10571 | 0.19 | 0.00 | 0.0035 |
| 87.5 | 100 | | | | | | | grdmass. | s | | 99.7 | | | | | | | | |
| 90.5 | 100 | | | | 90.0 | 105.4 | Cq2hm> | (295.2-345.9) BBFP phyllic alt'd | | | | | | | | | | | |
| 93.6 | 100 | | | | | | | OA wk-mod phyllic alt'n, local | | | | | | 91.7 | 96.0 | 10572 | 0.24 | 0.00 | 0.0029 |
| 96.6 | 100 | | | | | | | chl on qtz-vn selvages and spotty | | | | | | 96.0 | 100.3 | 10573 | 0.19 | 0.00 | 0.0029 |
| 99.7 | 100 | | | | | | | rep;acement of Fsp phenos. | | | | | | 100.3 | 104.6 | 10574 | 0.11 | 0.00 | 0.0035 |
| 102.7 | 100 | | | | | | | | | | | | | | | | | | |
| 105.8 | 100 | 105.4 | 151.5 | VOLC | 105.4 | 137.2 | V6cmk= | VOLC 345.9-497 | | | | | | 104.6 | 108.9 | 10575 | 0.26 | 0.00 | 0.0032 |
| 108.8 | 95 | | | | | | | Dark grey-green andesite lapilli tuff. | 2-4% py>>cp | | 129.8 | 130.1 | | 108.9 | 113.2 | 10576 | 0.18 | 0.00 | 0.0026 |
| 111.9 | 100 | | | | | | | med-dk grey vfg matrix, clasts subround | frxr=diss>>blebs | | | | | | | | | | |
| 114.9 | 100 | | | | | | | to angular, vfg-fg dk green.Wk-mod frxrs | | | | | | 113.2 | 117.5 | 10577 | 0.24 | 0.00 | 0.0029 |
| 118.0 | 100 | | | | | | | healed w/ qtz-carb+sx. Some open frxrs | 1-2% mg-hem in frxrs | | | | | 117.5 | 121.9 | 10578 | 0.15 | 0.00 | 0.0029 |
| 121.0 | 100 | | | | | | | have strong chl w/ poor slickensides. | | | | | | 121.9 | 126.2 | 10579 | 0.17 | 0.00 | 0.0035 |
| 124.1 | 100 | | | | | | | OA weak prop alt'n, locally moderate. | | | | | | | | | | | |
| 127.1 | 100 | | | | | | | Minor faults at 358.0, 363.0 | | | | | | 126.2 | 130.5 | 10580 | 0.14 | 0.00 | 0.0029 |
| 133.2 | 100 | | | | | | | | | | | | | 130.5 | 134.8 | 10581 | 0.24 | 0. | 0.0038 |
| 136.2 | 100 | | | | | | | | | | | | | 134.8 | 139.1 | 10582 | 0.10 | 0.00 | 0.0029 |
| 139.3 | 100 | | | | 137.2 | 151.5 | V6Cmk= | 450-497 Volc as above, with increase | 1-2% py>cp diss>frxrs | | | | | 139.1 | 143.4 | 10583 | 0.10 | 0.00 | 0.0029 |
| 142.3 | 100 | | | | | | | in chlorite clots <1/4" and overall | some clots py | | | | | | | | | | |
| 145.4 | 100 | | | | | | | chloritization of matrix and clasts. | | | 143.9 | | | 143.4 | 147.7 | 10584 | 0.11 | 0.00 | 0.0032 |
| 148.4 | 100 | | | | | | | Some spotty silicification (minor) | | | | | | 147.7 | 151.5 | 10585 | 0.14 | 0.00 | 0.0023 |

PROPERTY: GRANISLE
 PERM DDH#: G90-12
 TEMP DDH#: G90-AV

GEOLOGIST: R Verzosa

COL. DATE: November 4 1990
 EOH DATE: November 5 1990

DRILL#: 38-14
 CORE SIZE: NQ

COMMENTS
 =====

FIELD COORDINATES (Metric)
 =====

NORTHING: 3413.8 AZIMUTH: 270
 EASTING: 3703.3 DIP: -45
 ELEVATION: 647.7 LENGTH: 274.3

SURVEY COORDINATES (Metric)
 =====

NORTHING: 3409.9 AZIMUTH: 268.07
 EASTING: 3595.3 DIP: -45
 ELEVATION: 621.5 LENGTH: 291.7

DOWNHOLE SURVEY METHOD: SPERRY SUN
 =====

| | DEPTH | AZIMUTH | DIP |
|-----|-------|---------|------|
| | ---- | ----- | ---- |
| 1: | 66.1 | 270 | -46 |
| 2: | 154.5 | 185 | -44 |
| 3: | 246.0 | 341 | -46 |
| 4: | 291.7 | 299 | -45 |
| 5: | | | |
| 6: | | | |
| 7: | | | |
| 8: | | | |
| 9: | | | |
| 10: | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-12 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|---|--|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 108.8 | 100 | | | | | | | | | | | | | 107.4 | 111.7 | 10610 | 0.41 | 0.00 | 0.0032 |
| 111.9 | 100 | | | | | | | BBFP 366.0-599.2 | 366.0-599.2 | | | | | 111.7 | 116.0 | 10611 | 0.43 | 0.00 | 0.0044 |
| 114.9 | 90 | | | | 111.6 | 166.7 | CGTmk> | As above BBFP units except wk-mod stkwk and contains large >3' int bleached zones. Both bleached and non bleached zones contain ser alt'd Fsp Phenos Abundant py-qtz-carb-gyp vnlts w/ dark staining on selvages. Kspar & chl rare. Approx 50% of unit bleached, with graded contacts. Silic'n and py generally more intense in bleached rock | 2-5% py>>cp tr mo frxr>dis 1-4% mg-hm, frxr>>diss | | 112.8 | | | | | | | | |
| 118.0 | 100 | | | | 117.7 | 119.2 | ----F | 386.0-391.0 Fault zone Broken core | | | | | | 116.0 | 120.3 | 10612 | 0.28 | 0.00 | 0.0035 |
| 120.7 | 90 | | | | | | | 1 foot of gouge at 388.0 | | | | | | 120.3 | 124.6 | 10613 | 0.36 | 0.00 | 0.0020 |
| 123.7 | 100 | | | | | | | | | | 123.7 | | | 124.6 | 128.9 | 10614 | 0.42 | 0.00 | 0.0023 |
| 126.8 | 100 | | | | | | | Minor Faults at 410.0, 411.0, 415.1, 421 | | | | 125.3 | | | | | | | |
| 129.8 | 100 | | | | | | | | | | | | | 128.9 | 133.2 | 10615 | 0.22 | 0.00 | 0.0020 |
| 132.9 | 100 | | | | | | | | | | | | | 133.2 | 137.6 | 10616 | 0.19 | 0.00 | 0.0023 |
| 135.9 | 100 | | | | | | | | | | | | | | | | | | |
| 139.3 | 100 | | | | | | | | | | | | | 137.6 | 141.9 | 10617 | 0.32 | 0.00 | 0.0029 |
| 142.3 | 95 | | | | | | | | | | | | | 141.9 | 146.2 | 10618 | 0.20 | 0.00 | 0.0015 |
| 145.4 | 75 | | | | | | | | | | 143.6 | | | 146.2 | 150.5 | 10619 | 0.33 | 0.00 | 0.0041 |
| 148.4 | 100 | | | | | | | | | | | | | | | | | | |
| 151.5 | 100 | | | | | | | | | | | | | 150.5 | 154.8 | 10620 | 0.35 | 0.00 | 0.0038 |
| 154.5 | 100 | | | | | | | | | | | | | 154.8 | 159.1 | 10621 | 0.23 | 0.00 | 0.0035 |
| 157.6 | 100 | | | | | | | | | | | | | | | | | | |
| 160.6 | 87 | | | | | | | | | | 159.1 | | | 159.1 | 163.4 | 10622 | 0.38 | 0.00 | 0.0032 |
| 163.7 | 100 | | | | | | | | | | | 163.4 | | 163.4 | 167.7 | 10623 | 0.18 | 0.00 | 0.0020 |
| 166.7 | 100 | | | | 166.7 | 182.6 | MGTmz> | (547.0-599.2) Xenos of underlying volcs begin to appear. Rounded-angular, 1"-1' | | | | | | | | | | | |
| 169.8 | 100 | | | | | | | | | | | | | 167.7 | 172.0 | 10624 | 0.20 | 0.00 | 0.0067 |
| 172.8 | 100 | | | | | | | | | | | | | 172.0 | 176.4 | 10625 | 0.22 | 0.00 | 0.0020 |
| 175.9 | 100 | | | | | | | | | | | | | 176.4 | 180.7 | 10626 | 0.24 | 0.00 | 0.0020 |
| 178.9 | 100 | | | | | | | | | | | | | | | | | | |
| 182.0 | 100 | | | | | | | VOLC 599.2-690.6 | 599.2-690.6 | | | | | 180.7 | 185.0 | 10627 | 0.22 | 0.00 | 0.0026 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-12 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|-------|----------|-------|--------|---|---|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | | | | | | | section soft and friable. hw/fw clay alt some foreign clast mixed in (volcs) | | | | | | | | | | | |
| 251.8 | 100 | 249.8 | 262.8 | VOLC? | 249.8 | 262.8 | V6o-k> | BBFP 819.5-862.3 | 819.5-862.3 | | | | | 249.6 | 253.9 | 10643 | 0.27 | 0.00 | 0.0044 |
| 254.8 | 100 | | | | | | | Sub volcanic phase of BFP. Pyroclastic and intrusive textures mottled together. | 1-3% py>cp frxr>bleb>diss tr mg-hm diss | | | | | 253.9 | 258.3 | 10644 | 0.22 | 0.00 | 0.0035 |
| 257.9 | 100 | | | | | | | OA dk grey grdmass with both Fsp phenos and clasts of volcs and BFP. Swirled flow textr. Moderate frxring, w/ qtz-car +gyp-sx-chl. Kspr often rimming Qvnlts and silic'd zones. OA weakly silic'd | | | 256.3 | | | 258.3 | 262.6 | 10645 | 0.28 | 0.00 | 0.0044 |
| 261.2 | 100 | | | | | | | | | | | | | | | | | | |
| 264.3 | 100 | 262.8 | 291.7 | BBFP | 262.8 | 291.7 | C5zmk> | BBFP 862.3-957.0 | 862.3-957 | | | | | 262.6 | 266.9 | 10646 | 0.15 | 0.00 | 0.0035 |
| 267.3 | 100 | | | | | | | Med-dk grey grdmass. Graded Fsp content from 20% poorly formed to well formed, crowded. Mod frxring, local int silic'n | 3-5% py>cp frxr>blebs>diss 1-2% mg-hm frxr=diss tr mo | | | | | 266.9 | 271.2 | 10647 | 0.16 | 0.00 | 0.0032 |
| 887 | 100 | | | | | | | | | | | | | 271.2 | 275.5 | 10648 | 0.32 | 0.00 | 0.0041 |
| 896 | 100 | | | | | | | Pink Ksp rimming qvnlts and silic'd zone | | | 273.4 | | | 275.5 | 279.8 | 10649 | 0.21 | 0.00 | 0.0044 |
| 906 | 100 | | | | | | | Chl on frxrs and rare clots. | | | | | | 279.8 | 284.1 | 10650 | 0.43 | 0.00 | 0.0058 |
| 916 | 100 | | | | | | | | | | | | | | | | | | |
| 926 | 100 | | | | | | | | | | | | | | | | | | |
| 936 | 100 | | | | | | | (887.5-901.0) Subvolc BFP as 819.5-862.3 | | | | | | 284.1 | 288.4 | 10651 | 0.41 | 0.00 | 0.0041 |
| 946 | 100 | | | | | | | | | | | | | 288.4 | 291.7 | 10652 | 0.35 | 0.00 | 0.0047 |
| 957 | 100 | | | | | | | 957.0 EOH | | | 291.4 | 289.6 | | | | | | | |

| PROPERTY: GRANISLE PERM DDH#: G90-13 TEMP DDH#: G90-RA | FIELD COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------|-------|---------|-----|--|------|------|------|----|------|-----|------|----|-------|-----|------|----|-------|-----|------|----|-------|-----|------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| ===== | NORTHING: 3480.8 AZIMUTH: 270 EASTING: 3543.3 DIP: -45 ELEVATION: 688.5 LENGTH: 304.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEOLOGIST: A.J.Pardoe | ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COL. DATE: 90/11/4 EOH DATE: 90/11/6 | SURVEY COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILL#: 44-5 CORE SIZE: NQ | NORTHING: 3481.6 AZIMUTH: 268.05 EASTING: 3551.8 DIP: -45 ELEVATION: 689.3 LENGTH: 306.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ===== | ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>----</th> <th>----</th> <th>----</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>91.4</td> <td>267</td> <td>45.5</td> </tr> <tr> <td>2:</td> <td>163.4</td> <td>274</td> <td>46.5</td> </tr> <tr> <td>3:</td> <td>248.7</td> <td>274</td> <td>45.5</td> </tr> <tr> <td>4:</td> <td>306.6</td> <td>275</td> <td>47.5</td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ---- | ---- | ---- | 1: | 91.4 | 267 | 45.5 | 2: | 163.4 | 274 | 46.5 | 3: | 248.7 | 274 | 45.5 | 4: | 306.6 | 275 | 47.5 | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ---- | ---- | ---- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 91.4 | 267 | 45.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 163.4 | 274 | 46.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 248.7 | 274 | 45.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | 306.6 | 275 | 47.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-13 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|---|-----------------------------|-----|-------|------|-------------|-------|-------|---------|--------|--------|----------|--|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | XSX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | |
| | | | | | | | | 234-297:V dk brwn-gy, aphanitic to loc mg with mod abundant dk brwn BT phenos + dk 2nd BT) and loc v poorly formed FSP xls. Minor buff colored, rounded aphan- itic frags locally float in unit. Unit is likely i-alt'd phase of BBFP, though may be a volcanic. Several BBFP dykes(as @141') bearing tuff xenos, cut the unit. These dykes are approx. 40% of section. Loc white carb infilling in i-alt'd BBFP | | | | | | | | | | | | |
| 71.9 | 100 | | | | | | | W-qz/carb vnlt. | | | 73.8 | | | 74.0 | 78.3 | 10670 | 0.06 | 0.00 | 0.0032 | |
| 75.0 | 100 | | | | | | | (252.6-256) Probable fault. M-broken | | | | | | 78.3 | 82.6 | 10671 | 0.04 | 0.00 | 0.0029 | |
| 78.0 | 86 | | | | | | | with minor gouge on frac. | | | | | | | | | | | | |
| 81.1 | 100 | | | | 77.0 | 78.0 | --k-F | | | | | | | | | | | | | |
| 84.1 | 100 | | | | | | | | 281-297: Py>>cp, loc tr mo | 1-2 | | | | 82.6 | 86.9 | 10672 | 0.08 | 0.00 | 0.0044 | |
| 87.2 | 100 | | | | | | | | strs>>diss. | | | | | 86.9 | 91.2 | 10673 | 0.06 | 0.00 | 0.0044 | |
| 90.2 | 100 | | | | 90.5 | 99.1 | C7L-k< | 297-325: V dk brwn-gy grdmass with i- diss 2nd BT, crowded white FSP + blk BT phenos. Phenos tend to be small (av <3mm dia). Loc buff, aphanitic xenos. Patchy, irregular, white carb/qz fracture fill. | 297-325: Py>=cp, diss>>str | 2-3 | 90.2 | | | | | | | | | |
| 93.3 | 100 | | | | | | | | | | | | | 91.2 | 95.5 | 10674 | 0.27 | 0.00 | 0.0047 | |
| 96.3 | 100 | | | | 90.5 | 91.0 | --k-F | (297-298.5) Fault. Crushed + w-K | | | | | | 95.5 | 99.8 | 10675 | 0.15 | 0.00 | 0.0038 | |
| 99.4 | 100 | | | | 99.1 | 112.8 | C7Z-z> | 325-370: V dk gy, indistinct to nil vis- ible FSP phenos, blk BT phenos (often poorly formed. I-Si+2nd BT. Loc short sections with buff tuff frags(xenos?) + loc fg crowded porphry. Probably several phases of BBFP. Similar to alt'd rock @ 234'. | 325-351.5:Py>>cp, str>>diss | 1-2 | 96.6 | | | | | | | | | |
| 0.0 | | | | | | | | (325-328.2) Buff tuff xeno? | (325-328.2)Py+loc cp. Strs | 3 | | | | 99.8 | 104.1 | 10676 | 0.15 | 0.00 | 0.0087 | |
| 102.4 | 100 | | | | | | | (335.5-338.2) as above. | (335.5-338.2) as above | 3 | 102.4 | | | | | | | | | |
| 105.5 | 100 | | | | | | | (351.5-370)Virtually nil xenos. Massive | (351.5-370)Py>=cp, diss>str | 2-3 | | | | 104.1 | 108.4 | 10677 | 0.15 | 0.00 | 0.0050 | |
| 108.5 | 100 | | | | | | | except for irregular qz/carb fracture | | | | | | 108.4 | 112.7 | 10678 | 0.35 | 0.00 | 0.0038 | |
| 111.6 | 100 | | | | | | | fill + w-vnlt. | | | 109.3 | | | | | | | | | |
| 114.6 | 100 | | | | 112.8 | 126.2 | C5smk= | 370-414:Med to loc dk gy crowded BBFP. | 370-414: Py>cp, str>=diss. | 2- | | | | 112.7 | 117.1 | 10679 | 0.19 | 0.00 | 0.0050 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-13 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|---|---|-------|-------|------|-------------|-------|-------|---------|--------|--------|----------|--|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | |
| | | | | | | | | vnlts and loc Si. (580-583) Bleached lt gy, gradually dark- ening in lower 6". Loc xenolithic ap- pearance, where patchy altn has destroy- ed porphyry texture. BT phenos variably alt'd, many blk ones still present. Rk is readily scratched. Small fault in up- per 2". | loc specks of mo are diss. Sx content in bleached zns is > in dk BBFP | | | | | | | | | | | |
| 178.6 | 97 | | | | | | | (586.5-588.5) Patchy ser alt'n as above but weak. | | | | | | 177.4 | 181.7 | 10694 | 0.19 | 0.00 | 0.0058 | |
| 181.7 | 100 | | | | | | | (596-608) Patchy w to m-ser alt'n. Loc i-K @601.5' and fault (crush+gouge) at 604.2-604.8". | | 179.8 | | | | 181.7 | 186.0 | 10695 | 0.09 | 0.00 | 0.0029 | |
| 184.7 | 100 | | | | 184.2 | 184.3 | -k--f | (612.5-628.5) W to loc i-ser/(qz) alt'n. Loc dk BBFP @621.3-622.7". (633-634.3)M to i-ser. (643.5-646) Patchy w to m-ser. (647-650.5) As above. | | | | | | 186.0 | 190.3 | 10696 | 0.04 | 0.00 | 0.0012 | |
| 187.8 | 100 | | | | | | | | | | | | | 190.3 | 194.6 | 10697 | 0.12 | 0.00 | 0.0032 | |
| 193.9 | 100 | | | | | | | | | | | | | 194.6 | 199.0 | 10698 | 0.09 | 0.00 | 0.0029 | |
| 196.9 | 100 | | | | | | | | | 191.3 | | | | 199.0 | 203.3 | 10699 | 0.20 | 0.00 | 0.0043 | |
| 199.9 | 100 | | | | 200.3 | 201.2 | -K--F | (657-667) I-bleach (ser+K). Faulted (crushed, gouge + i-K) @657-660' + @ 666-667'. Sharp, sheared bottom contact @40 deg to CA. | | | | | | 203.3 | 207.6 | 10700 | 0.18 | 0.00 | 0.0041 | |
| 203.0 | 100 | | | | 203.0 | 203.3 | -K--F | | | | | | | | | | | | | |
| 206.0 | 100 | | | | | | | (667-673) Blk, aphanitic - Possible volc w-qz/carb stwk/vnlts. | 667-673: Py<=cp, diss | 2 | 205.1 | | | 207.6 | 211.9 | 10701 | 0.07 | 0.00 | 0.0026 | |
| 209.1 | 100 | | | | 205.1 | 237.7 | C5g-Md | 673-779.8: Med to dk gy BBFP. 2nd BT varies from pale to loc dk brwn. Loc w- bleached (ser'd) patches. Massive except for w-gyp vnlts. (673-678.2) W-bleach throughout section (678.2-695) Dominantly dk gy (695-749) Dominantly med gy with loc bleach patches. | 673-779.8: Py>>cp, diss + v loc strcs. V loc specks of mo. | 2-3 | | | | | | | | | | |
| 212.1 | 100 | | | | | | | | | | | | | 211.9 | 216.2 | 10702 | 0.33 | 0.02 | 0.0058 | |
| 215.2 | 100 | | | | | | | | | | | | | 214.9 | | | | | | |
| 218.2 | 100 | | | | | | | | | | | | | 216.2 | 220.5 | 10703 | 0.39 | 0.02 | 0.0061 | |
| 221.3 | 100 | | | | | | | | | | | | | 220.5 | 224.8 | 10704 | 0.19 | 0.02 | 0.0042 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-13 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|--|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 224.3 | 100 | | | | | | | | | | | | | 224.8 | 229.1 | 10705 | 0.12 | 0.00 | 0.0032 |
| 227.4 | 100 | | | | | | | | | | 225.9 | | | | | | | | |
| 230.4 | 100 | | | | | | | (749-779.8) Dk gy with patchy w to loc | | | | | | 229.1 | 233.4 | 10706 | 0.17 | 0.02 | 0.0038 |
| 233.5 | 100 | | | | | | | i-K alt'n. Loc w-crush in i-K areas. | | | 233.3 | | | 233.4 | 237.8 | 10707 | 0.29 | 0.02 | 0.0044 |
| 236.5 | 100 | | | | | | | | | | | | | | | | | | |
| | | 237.7 | 285.2 | TUFF | 237.7 | 243.2 | TNq-kd | VOLC TUFF (779.8-935.8) | | | | | | | | | | | |
| | | | | | | | | 779.8-798: Dk brwn-gy, aphanitic with patchy qz/ser giving chaotic texture to rock. W-gyp vnlt. Compact, w-Si | 779.8-791: Py>cp, diss>>> str. Loc mo diss+in qz str | 2-3 | | | | | | | | | |
| 239.6 | 100 | | | | | | | (780.6-782.2) Fault. Strongly crushed, K altd + loc gouge. | | | | | | | | | | | |
| 0.0 | | | | | | | | (791-798) I-qz stwk with strong alt'n envelopes bleaches core lt grn + buff with patches of v dk gy between halos. W-gyp vnlt. | 791-798: Py>cp, str>>diss | 2 | | | | 237.8 | 242.1 | 10708 | 0.26 | 0.00 | 0.0044 |
| 242.6 | 100 | | | | | | | | | | 241.7 | | | 242.1 | 246.4 | 10709 | 0.16 | 0.00 | 0.0038 |
| | | | | | 243.2 | 253.3 | TNg-Md | 798-935.8:Blk, aphanitic, massive except for w-gyp vnlt. and occasional med gy qz/ser patch. M to i-Si. Compact. | 798-831: Py>>cp. diss>>> str. V loc mo. | 2 | | | | 246.4 | 250.7 | 10710 | 0.28 | 0.16 | 0.0055 |
| 245.7 | 100 | | | | | | | | | | | | | | | | | | |
| 248.7 | 100 | | | | | | | | | | | | | | | | | | |
| 251.8 | 100 | | | | 244.6 | 245.4 | -k--F | (802.5-803) Fault. Crushed + K alt'd | | | | | | 250.7 | 255.0 | 10711 | 0.27 | 0.00 | 0.0057 |
| 254.8 | 100 | | | | 0.0 | 0.0 | | (804.7-805) Fault. As above. | | | 253.0 | | | 255.0 | 259.3 | 10712 | 0.17 | 0.00 | 0.0035 |
| 257.9 | 100 | | | | 253.3 | 285.2 | TNqmM | (831-848) Loc white qz str, <=2.5" wide | 831-848:Py+w-cp, diss>=strs | 1-2 | | | | | | | | | |
| 260.9 | 100 | | | | | | | (848-935.8) Masssive except for w-gyp vnlt. | 848-935.8: Py>>cp, diss> str, loc blebs. Patchy mod | 2 | | 259.1 | | 259.3 | 263.6 | 10713 | 0.12 | 0.00 | 0.0038 |
| 264.0 | 100 | | | | | | | | | | 267.0 | | | 263.6 | 267.9 | 10714 | 0.22 | 0.00 | 0.0047 |
| 267.0 | 100 | | | | | | | | | | | | | | | | | | |
| 270.1 | 100 | | | | | | | | | | | | | 267.9 | 272.2 | 10715 | 0.18 | 0.02 | 0.0038 |
| 273.1 | 100 | | | | | | | | | | | | | 272.2 | 276.5 | 10716 | 0.09 | 0.00 | 0.0029 |
| 276.1 | 100 | | | | | | | | | | | | | 276.5 | 280.9 | 10717 | 0.06 | 0.00 | 0.0026 |
| 279.2 | 100 | | | | | | | | | | 279.2 | | | | | | | | |
| 282.2 | 100 | | | | | | | | | | | | | 280.9 | 285.2 | 10718 | 0.23 | 0.02 | 0.0041 |
| 285.3 | 100 | 285.2 | 306.6 | BBFP | | | | BBFP (935.8-1006) | | | | | | 285.2 | 289.5 | 10719 | 0.11 | 0.00 | 0.0026 |
| 288.3 | 100 | | | | 285.2 | 299.8 | C5--md | 935.8-978.2: Sharp contacts, U.C. is ir-regular @ approx. 40 deg, B.C. @ 50 deg | 935.8-978.2: Py>cp, diss>>>strs. | 1 | 288.3 | | | 289.5 | 293.8 | 10720 | 0.19 | 0.00 | 0.0044 |
| 291.4 | 100 | | | | | | | Med to dk gy gromass with crowded, cg white FSP and blk BT phenos. W-2nd BT. | | | | | | | | | | | |
| 294.4 | 100 | | | | | | | | | | | | | 293.8 | 298.1 | 10721 | 0.13 | 0.00 | 0.0038 |

| | | | |
|----------------------------|------------------------------------|----------------|-------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) | | |
| PERM DDH#: G90-14 | ===== | | |
| TEMP DDH#: G90-AN | NORTHING: 3291.8 | AZIMUTH: 090 | |
| | EASTING: 3200.4 | DIP: -45 | |
| | ELEVATION: 661.4 | LENGTH: 304.8 | |
| | ===== | | |
| GEOLOGIST: R Verzosa | SURVEY COORDINATES (Metric) | | |
| | ===== | | |
| COL. DATE: November 6 1990 | NORTHING: 3291.8 | AZIMUTH: 88.38 | |
| EOH DATE: November 7 1990 | EASTING: 3352.1 | DIP: -45 | |
| | ELEVATION: 602.8 | LENGTH: 240.5 | |
| | ===== | | |
| DRILL#: 38-14 | DOWNHOLE SURVEY METHOD: SPERRY SUN | | |
| CORE SIZE: NQ | ===== | | |
| | DEPTH | AZIMUTH | DIP |
| | ---- | ----- | --- |
| | 1: 96.6 | 50 | -44.5 |
| | 2: 152.4 | 90 | -44.5 |
| | 3: 239.9 | 57 | -47.5 |
| | 4: | | |
| | 5: | | |
| | 6: | | |
| | 7: | | |
| | 8: | | |
| | 9: | | |
| | 10: | | |
| COMMENTS | ===== | | |
| | ===== | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-14 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|-----------------------------|------|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | | | | | | | grades out of above unit and into lower | | | | | | | | | | | |
| 78.3 | 100 | | | | 78.5 | 82.1 | C6ZMm> | BBFP Sil'd 257.5-377.2 | 257.5-377.5 | 78.3 | | | | 76.6 | 80.9 | 10743 | 0.19 | 0.00 | 0.0041 |
| | | | | | | | | Int silic'd, Med-dk grey, fg. all | 2-4% py>cp Frxr>blebs>diss | | | | | | | | | | |
| | | | | | | | | Fsp phenos nearly obliterated and core | 1-4% mg-hm frxrs>>diss | | | | | | | | | | |
| | | | | | | | | is an even color and fairly massive. | | | | | | | | | | | |
| | | | | | | | | most frxrs open or are partially filled | | | | | | | | | | | |
| | | | | | | | | w/qtz-carb-chl-sx. mod slicks on some | | | | | | | | | | | |
| | | | | | | | | frxrs. | | 92.0 | | 90.5 | | | | | | | |
| 81.4 | 100 | | | | 82.1 | 88.9 | C6ZoY> | (269.5-291.6) Broken core Low RQD | | | | | | 80.9 | 85.2 | 10744 | 0.27 | 0.00 | 0.0038 |
| 84.4 | 100 | | | | | | | Frxrs oxidized and chloritized +-slicks. | | | | | | | | | | | |
| 86.0 | 100 | | | | | | | | | | | | | 85.2 | 89.6 | 10745 | 0.20 | 0.00 | 0.0047 |
| 87.8 | 100 | | | | 88.9 | 115.0 | C6ZMm> | | (316+324)2-5% cp blebs, frx | | | 111.3 | | | | | | | |
| 89.0 | 100 | | | | | | | | no diss sx. 1% py | | 110.3 | | | 89.6 | 93.8 | 10746 | 0.28 | 0.00 | 0.0053 |
| 92.0 | 100 | | | | | | | | | | | | | | | | | | |
| 95.1 | 100 | | | | | | | | | | | | | 93.8 | 98.1 | 10747 | 0.93 | 0.00 | 0.0053 |
| 96.6 | 100 | | | | | | | (316.0-324) Quartz Vein | | | | | | | | | | | |
| | | | | | | | | Vuggy pale grey quartz vein. Vugs | | | | | | | | | | | |
| | | | | | | | | partially filled with carb and cp. | | | | | | | | | | | |
| | | | | | | | | 2-3' of int stkwk on top & bottom | | | | | | | | | | | |
| | | | | | | | | of vein. | | | | | | | | | | | |
| 99.7 | 75 | | | | 99.7 | 100.2 | ----F | (327-328.8) Fault. Crushed, broken core. | | | | | | 98.1 | 102.5 | 10748 | 0.43 | 0.00 | 0.0047 |
| 102.7 | 100 | | | | | | | | | | | | | 102.5 | 106.8 | 10749 | 0.48 | 0.00 | 0.0047 |
| 105.8 | 100 | | | | | | | | | | | | | | | | | | |
| 108.8 | 100 | | | | | | | | | | | | | 106.8 | 111.1 | 10750 | 0.22 | 0.00 | 0.0041 |
| 111.9 | 100 | | | | | | | | | | | | | 111.1 | 115.4 | 11251 | 0.36 | 0.00 | 0.0056 |
| 114.9 | 100 | | | | 100.2 | 140.8 | C3t-k> | BBFP 377.2-461.8 | 377.2-461.8 | | | | | 115.4 | 119.7 | 11252 | 0.22 | 0.00 | 0.0032 |
| 118.0 | 100 | | | | | | | Lt-med grey grdmass. Mod-int bleaching | 1-2% py>cp frxr>>diss | | | | | | | | | | |
| 121.0 | 100 | | | | | | | with clay alt'n obliterating txtrs. | tr mg-hm frxrs | | | | | 119.7 | 124.0 | 11253 | 0.47 | 0.00 | 0.0052 |
| 124.1 | 100 | | | | | | | Chl repacing Fspr and rimming qvnlts and | tr mo | | | | | 124.0 | 128.3 | 11254 | 0.26 | 0.00 | 0.0041 |
| 127.1 | 100 | | | | | | | clots to 3/16". Generally poor Fsp pheno | | | 125.9 | | | | | | | | |
| 130.1 | 100 | | | | | | | Mod frxring, oxidized & chl. | | | | | | 128.3 | 132.6 | 11255 | 0.31 | 0.00 | 0.0035 |

| Metric | | | MAIN UNIT | | | | SUB UNIT | | | | DDH: G90-14 | | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | |
|--------|------|--|-----------|----|------|-------|----------|--------|---|----------------------------|-------------|-------|----------------------|-------|-------|-------|-------------|--------|--------|----------|--|
| METRES | RECY | | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | |
| | | | | | | | | | lt-mod frxring, mostly open & fresh. | | | | | | | | | | | | |
| 182.0 | 100 | | | | | | | | (599.3-601.2) core heavily frxrd at 25-35 deg. No gouge, frxrs fresh. | | | | | 212.4 | 180.0 | 184.4 | 11267 | 0.52 | 0.00 | 0.0041 | |
| 185.0 | 100 | | | | | 185.1 | 196.8 | C7z-k< | BBFP 607.3-645.7 | 607.3-645.7 | | | | | 184.4 | 188.7 | 11268 | 0.54 | 0.02 | 0.0054 | |
| 188.1 | 100 | | | | | | | | fg charcoal-black grdmass, poorly formed Fsp (3-7% of rock). Lt-mod | 1-2% cp>>py minor bo | | | | | 188.7 | 193.0 | 11269 | 0.41 | 0.00 | 0.0058 | |
| 191.1 | 100 | | | | | | | | frxring, healed w/ qtz. Carb only on some open frxrs, most open frxrs fresh. | diss>>frxr | | | | | | | | | | | |
| 194.2 | 100 | | | | | | | | Entire unit lightly & evenly silic'd. | | | 191.1 | | 193.0 | 197.3 | 11270 | 0.38 | 0.00 | 0.0044 | | |
| | | | | | | | | | (618.8-620.3) DIKE Coarse grained BFP dike. Lt grey grdmass crowded ppy, chilled margins. | | | 203.3 | | | | | | | | | |
| 197.2 | 100 | | | | | 196.8 | 215.9 | C4omK> | BBFP 645.7-708.4 | 645.7-708.4 | | | | | 197.3 | 201.6 | 11271 | 0.29 | 0.00 | 0.0090 | |
| 200.3 | 100 | | | | | | | | med grey grdmass, well formed Fsp, 20-60% of rock. Well formed Mafic xtals | 2-3% cp=bo>py | | | | | 201.6 | 205.9 | 11272 | 0.43 | 0.00 | 0.0044 | |
| 203.3 | 100 | | | | | | | | mod-int stkwk/silic'n. Kspar in vnltls | frxr>diss | | | | | 205.9 | 210.2 | 11273 | 0.45 | 0.00 | 0.0064 | |
| 206.3 | 100 | | | | | | | | and in silic'd areas. Chl on frxrs and w/ vnlets. | 2-5% mg-hm diss=frxr=blebs | | | | | 210.2 | 214.5 | 11274 | 0.61 | 0.00 | 0.0082 | |
| 209.4 | 100 | | | | | | | | | | | | | | 214.5 | 218.8 | 10101 | 0.44 | 0.00 | 0.0125 | |
| 212.4 | 100 | | | | | | | | DIKE 708.4-711.9 as above 618.8-620.3 | | | | | | | | | | | | |
| 215.5 | 100 | | | | | | | | | | | | | | | | | | | | |
| 218.5 | 100 | | | | | 217.0 | 242.9 | C7Z-K> | BBFP sil'd 711.9-797.0 | 711.9-797 | | | | | 218.8 | 223.2 | 10102 | 0.85 | 0.00 | 0.0154 | |
| 221.6 | 100 | | | | | | | | As above 607.3-645.7 except intensely silic'd and stkwked. V hard and glassy. | 2-3% cp=bo>py | | | | | | | | | | | |
| 224.6 | 100 | | | | | | | | almost no natural frxrs open. chl in grdmass, replacing Fsp, and as clots and selvages with qvnlts. | frxr>>diss | | | | 223.2 | 227.5 | 10103 | 0.58 | 0.00 | 0.0140 | | |
| 227.7 | 100 | | | | | | | | | tr mg-hm in frxrs | | | | 235.3 | 227.5 | 10104 | 0.53 | 0.00 | 0.0116 | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 235.3 | | | | | | | |

PROPERTY: GRANISLE
 PERM DDH#: G90-15
 TEMP DDH#: G90-RD'

GEOLOGIST: A.J.Pardoe

COL. DATE: 90/11/06
 EOH DATE: 90/11/07

DRILL#: 44-5
 CORE SIZE: NQ

COMMENTS
 =====

FIELD COORDINATES (Metric)
 =====

NORTHING: 3505.2 AZIMUTH: 270
 EASTING: 3779.5 DIP: -45
 ELEVATION: 723.3 LENGTH: 304.8

SURVEY COORDINATES (Metric)
 =====

NORTHING: 3505.6 AZIMUTH: 271.37
 EASTING: 3778.8 DIP: -45
 ELEVATION: 723.0 LENGTH: 303.0

DOWNHOLE SURVEY METHOD: SPERRY SUN
 =====

| | DEPTH | AZIMUTH | DIP |
|-----|-------|---------|------|
| | ---- | ---- | --- |
| 1: | 65.8 | 268 | 46 |
| 2: | 172.5 | 271 | 47 |
| 3: | 242.6 | 277 | 47.5 |
| 4: | 303.0 | 279 | 48 |
| 5: | | | |
| 6: | | | |
| 7: | | | |
| 8: | | | |
| 9: | | | |
| 10: | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-15 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|------|--------|---|--|-----|------|------|-------------|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | 0 | 0.0 | 37.2 | CASE | 0.0 | 37.2 | | OVERBURDEN + CASING (0-122) | | | | | | | | | | | |
| 37.2 | 0 | 37.2 | 57.5 | TUFF | | | | TUFF/SEDS? (122-188.6) | | | | | | | | | | | |
| 0.0 | | | | | | | | Aphanitic to loc fg, generally compact, but easily scratched. Variations in color define bedding @35 deg to CA. | | | | | | 37.2 | 39.7 | 11275 | 0.02 | 0.00 | 0.0009 |
| | | | | | 37.2 | 44.5 | T5-HI= | 122-146: Rk is shades of dk purple, grn and loc red. Loc fg to mg bands. Loc yellow +gy section (1' wide) near end of section. | 122-146: Py, str=>diss Diss m to loc i-hem. | 4 | | | | | | | | | |
| 41.5 | 83 | | | | 41.5 | 43.4 | -K--F | (136-142.5) Fault zn. Crushed + K alt'd Badly broken, m-gouge + poor rec'y in lower 5'. | | | | | | 39.7 | 44.0 | 11276 | 0.01 | 0.00 | 0.0012 |
| 44.5 | 79 | | | | | | | | | | 44.5 | | | 44.0 | 48.3 | 11277 | 0.02 | 0.00 | 0.0017 |
| 47.5 | 79 | | | | 44.5 | 57.5 | T3P-yD | 146-188.6: Lt yellow, gy + loc burnt orange. Aphanitic, w-fractured. | 146-188.6: Py, diss>>>strs | 7 | | | | 48.3 | 52.6 | 11278 | 0.01 | 0.00 | 0.0014 |
| 50.6 | 85 | | | | | | | 171.5-187.2: Fault zn. M to i-K alt'd, frequent crush + loc gouge. | | | | | | 52.6 | 56.9 | 11279 | 0.03 | 0.00 | 0.0020 |
| 56.4 | 61 | 57.5 | 66.4 | QFP | 57.5 | 66.4 | Q2khMd | QFP (188.6-218) Pale to lt grn-gy grdmas with indistinct white FSP phenos. W-K Massive (198.5-205) Tuff as described above QFP. Xenolith or faulted into place. M-broken +loc gouge in upper 2' and lower 1'. | 188.6-218: Py, diss+blebs >>>strs. W-diss spec hem. | 4-5 | 57.6 | | | 56.9 | 61.3 | 11280 | 0.01 | 0.00 | 0.0017 |
| 59.4 | 100 | | | | | | | | | | | | | | | | | | |
| 62.8 | 84 | | | | 62.5 | 62.8 | --k-f | (205-206) W-fault. W-gouge, m-K alt'n. (209-218) Rounded grn clots, Dalmationite texture. Loc burnt orange tone, increasing intensity downsection. Bottom contact @ low angle to CA. M-carb alt'd. | | | | | | 61.3 | 65.6 | 11281 | 0.01 | 0.00 | 0.0014 |
| 65.8 | 100 | | | | | | | | | | 65.8 | | | 65.6 | 69.9 | 11282 | 0.00 | 0.00 | 0.0023 |
| | | 66.4 | 126.5 | TUFF | 62.8 | 81.1 | T3s-Bd | VOLC BX (218-266) Well rounded lt yellow, gy, buff + loc grn clasts with minor lt gy xline matrix between frags. W to m-carb alt'n, m-ser /K? alt'n. Below 253', rk darkens. (233-236.5) Lt yellow, aphanitic tuff. W to m-crushed + strained. Loc i-K. Sec- | 218-226: Py, loc diss. | <1 | | | | | | | | | |
| 68.9 | 100 | | | | | | | | | | | | | | | | | | |
| 71.9 | 100 | | | | | | | | | | | | | 69.9 | 74.2 | 11283 | 0.01 | 0.00 | 0.0011 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-15 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|---|--------------|-------|-------|-------------|-------|-------|---------|--------|--------|----------|--------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | L1BR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | |
| 0.0 | | | | | | | | (BT). Massive, slightly mottled texture. W to m-carb. Upper contact with dk BBFP is 1" graphitic fault, indistinct lower contact. Unit is possibly QFP? | | | | | | | | | | | | |
| 145.1 | 100 | | | | 146.3 | 164.6 | C6sma> | 480-540: Dk gy BBFP with patchy lighter mottled sections + loc well rounded, yellow-gy aphanitic xenos. "Lt" patches are w-carb + loc qz. Unit is m to i-Si'd | 480-540: In dk BBFP; py in strs + patchy i-mag. In patchy areas; py is diss, loc hem. | 1 to loc2 | | | | 143.2 | 147.5 | 11300 | 0.09 | 0.00 | 0.0014 | |
| 148.1 | 100 | | | | | | | | | | 145.7 | | | 147.5 | 151.8 | 11301 | 0.06 | 0.00 | 0.0020 | |
| 151.2 | 100 | | | | | | | | | | | | | 151.8 | 156.1 | 11302 | 0.09 | 0.00 | 0.0006 | |
| 0.0 | | | | | | | | Scattered qz vnlt. | | | | | | | | | | | | |
| 154.2 | 100 | | | | | | | (487.5-505.5) Several carb flooded + bleached sections. | (487.5-405.5) Py in blebs + diss. | 2-3 | | 157.0 | | 156.1 | 160.4 | 11303 | 0.05 | 0.00 | 0.0035 | |
| 157.3 | 100 | | | | | | | (536.5-539) Loc carb flood + bleach. | | | 158.0 | | | 160.4 | 164.7 | 11304 | 0.13 | 0.00 | 0.0035 | |
| 163.4 | 100 | | | | 164.6 | 171.8 | C7zmm< | 540-563.5: Massive dk gy BBFP. FSP xls are indistinct + grnish. W to m-Si | 540-563.5: Patchy mineral- ization. Cp=py, diss>>strs. Loc m-mag. | 1 to loc3 | | | | 164.7 | 169.0 | 11305 | 0.53 | 0.00 | 0.0038 | |
| 166.4 | 100 | | | | | | | | | | 167.9 | | | 169.0 | 173.3 | 11306 | 0.89 | 0.02 | 0.0082 | |
| 169.5 | 100 | | | | | | | | | | | | | 173.3 | 177.6 | 11307 | 0.38 | 0.00 | 0.0114 | |
| 172.5 | 100 | | | | 171.8 | 175.3 | CTL-ab | 563.5-575: Upper 7.5' is lt gy, i-ser'd and cut by irregular pinkish carb flood @566-569'. Rest of section is patchy i-bleach/ser. | 563.5-575: Py>>cp, massive patches + diss in carb/qz flood, w-diss in host. Tr diss mo. | 3-7 | | | | | | | | | | |
| 175.6 | 100 | | | | 175.3 | 198.9 | C7Zmk> | 575-652.5: V dk gy to loc blk, with pat- chy med gy. Variably mg to loc aphanitic i-blk 2nd BT, m to i-Si, w-qz vnlt. | 575-652.5: Py>cp, str>diss W to i-mag, w to mod overal Mag strongest in aphanitic patches. | 2 | | | 178.3 | | 177.6 | 182.0 | 11308 | 0.90 | 0.00 | 0.0110 |
| 181.7 | 99 | | | | | | | | | | | | | 182.0 | 186.3 | 11309 | 0.20 | 0.00 | 0.0023 | |
| 184.7 | 100 | | | | | | | Scattered buff to blk, well rounded to subangular tuff xenos (average <1cm dia) | | | | | | | | | | | | |
| 187.8 | 100 | | | | | | | Aphanitic blends into mg BBFP, appears to be i-alt'd BBFP (texture obscured by Si + 2nd BT) but might be alt'd volc. | | | | | | 186.3 | 190.6 | 11310 | 0.25 | 0.00 | 0.0029 | |
| 0.0 | | | | | | | | "Aphanitic" patches decrease downsection | | | | | | 190.6 | 194.9 | 11311 | 0.31 | 0.00 | 0.0029 | |
| 190.8 | 100 | | | | | | | (629-632) BBFP2 dyke. Scattered cg FSP + BT phenos in aphanitic grdmass. | | | 0.0 | | | | | | | | | |
| 193.9 | 100 | | | | | | | | | | 196.9 | | | 194.9 | 199.2 | 11312 | 0.12 | 0.00 | 0.0038 | |
| 196.9 | 100 | | | | | | | | | | | | | 199.2 | 203.5 | 11313 | 0.44 | 0.02 | 0.0050 | |
| 199.6 | 100 | | | | 198.9 | 210.6 | C4ZmMs | 652.5-691: BBFP. Cg, crowded porphyry, med gy colored. W to mod, med brwn 2nd BT, M to i-Si. | 652.5-691: Cp>py, str. W-mag | <=1 | | | | 203.5 | 207.8 | 11314 | 0.43 | 0.00 | 0.0038 | |
| 202.1 | 100 | | | | | | | | | | | | | 203.5 | 207.8 | 11314 | 0.43 | 0.00 | 0.0038 | |
| 205.4 | 100 | | | | | | | | | | | | | 207.8 | 212.1 | 11315 | 0.26 | 0.00 | 0.0053 | |
| 208.5 | 100 | | | | | | | (654.4-664.5) W to m-blocky, no gouge. | 691-854.5: Cp>py, Str>>>diss | 1-3 | 208.6 | | | 207.8 | 212.1 | 11315 | 0.26 | 0.00 | 0.0053 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-15 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|-----------------------------|-------|------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 211.5 | 100 | | | | 210.6 | 218.8 | C7ZmMs | 691-718: Dk gy BBFP. Crowded porphyry, m | Patchy mag. W-diss to loc | | | | | 212.1 | 216.4 | 11316 | 0.25 | 0.00 | 0.0047 |
| 214.6 | 100 | | | | | | | to i-dk brwn 2nd BT, m to i-Si. Massive | i-mag; w to m-mag overall | | | | | | | | | | |
| 217.6 | 100 | | | | | | | with loc scattered qz vnlts. | | | | | | 216.4 | 220.7 | 11317 | 0.49 | 0.00 | 0.0094 |
| 220.7 | 100 | | | | 218.8 | 242.9 | C7omks | 718-854.5: BBFP as above, but faint pink | | 218.1 | | | | 220.7 | 225.1 | 11318 | 0.18 | 0.00 | 0.0032 |
| 223.7 | 100 | | | | | | | tone over much of core. W to loc m-qz | | 223.4 | | | | | | | | | |
| 226.8 | 100 | | | | | | | vnlts + loc section with w to m-dk cbx. | | 0.0 | | | | 225.1 | 229.4 | 11319 | 0.43 | 0.00 | 0.0038 |
| 228.9 | 100 | | | | | | | (749.5-751) M-broken. | | | | 228.3 | | | | | | | |
| 230.4 | 100 | | | | | | | | | | | | | 229.4 | 233.7 | 11320 | 0.77 | 0.00 | 0.0044 |
| 233.5 | 100 | | | | | | | (769-774) Patchy m to i-qz/ser alt'n | | | | | | 233.7 | 238.0 | 11321 | 0.35 | 0.00 | 0.0056 |
| 236.5 | 100 | | | | | | | I-qz stwk, FSP xls v soft. | | 234.7 | | | | | | | | | |
| 239.6 | 98 | | | | | | | (776-797) M to i-blocky, no gouge | | | | | | 238.0 | 242.3 | 11322 | 0.66 | 0.00 | 0.0035 |
| 242.6 | 100 | | | | 242.9 | 260.5 | Cogmks | (797-854.5) Scattered to w-gyp vnlts. | | | | | | 242.3 | 246.6 | 11323 | 0.27 | 0.00 | 0.0029 |
| 245.7 | 100 | | | | | | | | | | | | | | | | | | |
| 248.7 | 100 | | | | | | | | | 247.2 | | | | 246.6 | 250.9 | 11324 | 0.28 | 0.00 | 0.0047 |
| 251.8 | 100 | | | | | | | (824-825.5) I-K alt'n, w-crush. W-fault. | | | | | | 250.9 | 255.2 | 11325 | 0.64 | 0.00 | 0.0088 |
| 254.8 | 100 | | | | | | | | | | | | | 255.2 | 259.5 | 11326 | 0.37 | 0.00 | 0.0041 |
| 257.9 | 100 | | | | | | | | | 257.6 | | | | | | | | | |
| 260.9 | 100 | | | | 260.5 | 281.9 | C7gmMs | 854.5-925: BBFP as @718', but pink tone | 854.5-925: Py>>cp, str. | 1 | | | | 259.5 | 263.9 | 11327 | 0.18 | 0.00 | 0.0032 |
| 264.0 | 100 | | | | | | | fades downsection, no cbx + qz vnlts | W to loc m-mag. | | | | | 263.9 | 268.2 | 11328 | 0.19 | 0.00 | 0.0023 |
| 267.0 | 100 | | | | | | | decrease. Still m to i-Si + w-gyp vnits | | | | | | | | | | | |
| 270.1 | 100 | | | | | | | | | 267.3 | | | | 268.2 | 272.5 | 11329 | 0.09 | 0.00 | 0.0014 |
| 273.1 | 100 | | | | | | | | | | | | | 272.5 | 276.8 | 11330 | 0.25 | 0.00 | 0.0026 |
| 276.1 | 100 | | | | | | | | | | | | | 276.8 | 281.1 | 11331 | 0.03 | 0.00 | 0.0011 |
| 279.2 | 100 | | | | | | | | | 277.4 | | | | | | | | | |
| 0.0 | | | | | 281.9 | 298.4 | C7g-k> | 925-934: W-bleached. Loc sections of i- | 925-934: Py+loc cp, str. | 2-3 | | | | | | | | | |
| 282.2 | 100 | | | | | | | bleach + i-qz str. M-K alt'n + w-broken | | | | | | 281.1 | 285.4 | 11332 | 0.12 | 0.00 | 0.0014 |
| | | | | | | | | @931-932.5'. | | | | | | | | | | | |
| | | | | | | | | 934-979: V dk BBFP. I-2nd BT, m to i-Si | 934-979: Py>>cp, v loc mo, | 2 to | | | | | | | | | |
| 285.3 | 100 | | | | | | | w to m-qz vnlts + w-gyp vnlts. W-ser | str>>diss. Patchy w-mag. | loc3 | | 285.3 | | 285.4 | 289.7 | 11333 | 0.11 | 0.00 | 0.0014 |
| 288.3 | 100 | | | | | | | halos around qz vnlts. Porphyry texture | | | | | | | | | | | |
| 291.4 | 100 | | | | | | | slightly obscured. | | | | | | 289.7 | 294.0 | 11334 | 0.15 | 0.02 | 0.0017 |
| 294.4 | 100 | | | | | | | | | 292.0 | | | | 294.0 | 298.3 | 11335 | 0.19 | 0.00 | 0.0017 |
| 297.5 | 100 | | | | 298.4 | 303.0 | C4--ks | 979-994: Rk gradually lightens down sec- | 979-994: Py>>cp, loc mo, | 2 to | | | | | | | | | |
| 300.5 | 100 | | | | | | | tion to lt gy. Concurrently qz str in- | strs + loc massive in vuggy | loc5 | | | | 298.3 | 303.0 | 11336 | 0.20 | 0.00 | 0.0026 |

| PROPERTY: GRANISLE PERM DDH#: G90-16 TEMP DDH#: G90-NB | FIELD COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------|-------|---------|-----|--|------|------|-----|----|-------|-----|-----|----|-------|-----|-----|----|--|--|--|----|--|--|--|----|-----|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| ===== | NORTHING: 3291.8 AZIMUTH: 180 EASTING: 3352.8 DIP: -45 ELEVATION: 603.5 LENGTH: 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEOLOGIST: R VERZOSA | ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COL. DATE: 90/11/07 EOH DATE: 90/11/08 | SURVEY COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILL#: 38-14 CORE SIZE: NQ | NORTHING: 3291.8 AZIMUTH: 177.80 EASTING: 3351.9 DIP: -45 ELEVATION: 603.0 LENGTH: 267.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ===== | ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>----</th> <th>----</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>145.1</td> <td>178</td> <td>-44</td> </tr> <tr> <td>2:</td> <td>267.6</td> <td>182</td> <td>-46</td> </tr> <tr> <td>3:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td>0.0</td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ---- | ---- | --- | 1: | 145.1 | 178 | -44 | 2: | 267.6 | 182 | -46 | 3: | | | | 4: | | | | 5: | 0.0 | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ---- | ---- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 145.1 | 178 | -44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 267.6 | 182 | -46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-16 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|------------------------|-----|------|------|-------------|------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | 0 | 0.0 | 3.0 | CASE | 0.0 | 3.0 | | | | | | | | | | | | | |
| 3.0 | 0 | 3.0 | 255.1 | BBFP | 3.0 | 152.3 | C5GMm< | Casing | | | | | | | | | | | |
| 5.2 | 100 | | | | | | | BBFP 10-499.8 | 10-499.8 | | | | | 3.7 | 7.9 | 11201 | 0.07 | 0.00 | 0.0020 |
| 8.2 | 100 | | | | | | | Med grey fg grdmass, well formed Fsp | 1-3% cp>bo 1% py | | | | | 7.9 | 12.2 | 11202 | 0.09 | 0.00 | 0.0011 |
| 11.3 | 100 | | | | | | | and bt-hb phenos. phenos crowded but not | well diss >frxr>>blebs | | | | | | | | | | |
| 14.3 | 100 | | | | | | | touching. Abundant gyp vnlts, hairline | | | 11.6 | | | 12.2 | 16.5 | 11203 | 0.16 | 0.00 | 0.0014 |
| 17.4 | 100 | | | | | | | to .3". Unit lightly fractured with car | 1-5% mg-hm diss=frxr | | | | | 16.5 | 20.8 | 11204 | 0.21 | 0.00 | 0.0020 |
| 20.4 | 100 | | | | | | | on open frxrs but rare in vnlts. | | | | | | 20.8 | 25.1 | 11205 | 0.18 | 0.00 | 0.0023 |
| 23.5 | 100 | | | | | | | Faint-wk chl locally giving greenish cas | | | | | | | | | | | |
| 26.5 | 100 | | | | | | | to rock and with qvnlts. | | | | | | 25.1 | 29.5 | 11206 | 0.56 | 0.00 | 0.0053 |
| 29.6 | 100 | | | | | | | | | | | | | 29.5 | 33.8 | 11207 | 0.41 | 0.00 | 0.0035 |
| 32.6 | 100 | | | | | | | | | | | | | | | | | | |
| 35.7 | 100 | | | | | | | (112.6-113.9) BBFP | | | 31.4 | | | 33.8 | 38.1 | 11208 | 0.30 | 0.00 | 0.0038 |
| 38.7 | 100 | | | | | | | completely flooded w/ qtz-ksp. remainin | | | | | | 38.1 | 42.4 | 11209 | 0.23 | 0.00 | 0.0044 |
| 41.8 | 100 | | | | | | | rock bleached white and heaviliy chl'd | | | | | | 42.4 | 46.7 | 11210 | 0.13 | 0.00 | 0.0038 |
| 44.8 | 100 | | | | | | | large <0.5" clots of cp-py. | | | | | | | | | | | |
| 47.9 | 100 | | | | | | | 2" mod bleached margis on top & bottom | | | 46.3 | | | 46.7 | 51.0 | 11211 | 0.12 | 0.00 | 0.0029 |
| 50.9 | 100 | | | | | | | | | | | | | 51.0 | 55.3 | 11212 | 0.22 | 0.00 | 0.0032 |
| 53.9 | 100 | | | | | | | | | | | 51.8 | | | | | | | |
| 57.0 | 100 | | | | | | | | | | 60.0 | | | 55.3 | 59.6 | 11213 | 0.18 | 0.00 | 0.0023 |
| 60.0 | 100 | | | | | | | | | | | | | 59.6 | 63.9 | 11214 | 0.36 | 0.00 | 0.0041 |
| 63.1 | 100 | | | | | | | | | | | | | 63.9 | 68.2 | 11215 | 0.40 | 0.00 | 0.0044 |
| 66.1 | 100 | | | | | | | | | | | | | | | | | | |
| 69.2 | 100 | | | | | | | | | | | | | 68.2 | 72.6 | 11216 | 0.51 | 0.00 | 0.0097 |
| 72.2 | 100 | | | | | | | | | | | | | 72.6 | 76.9 | 11217 | 0.54 | 0.00 | 0.0079 |
| 75.3 | 100 | | | | | | | | | | | | | | | | | | |
| 78.3 | 100 | | | | | | | | | | | | | 76.9 | 81.2 | 11218 | 0.27 | 0.00 | 0.0047 |
| 81.4 | 100 | | | | | | | | | | 78.3 | | | 81.2 | 85.5 | 11219 | 1.29 | 0.00 | 0.0102 |
| 84.4 | 100 | | | | | | | | | | | | | | | | | | |
| 87.5 | 100 | | | | | | | | | | | | | 85.5 | 89.8 | 11220 | 0.23 | 0.00 | 0.0032 |
| 90.5 | 100 | | | | | | | | | | | | | 89.8 | 94.1 | 11221 | 0.40 | 0.00 | 0.0073 |
| 93.6 | 100 | | | | | | | | | | | | | 94.1 | 98.4 | 11222 | 0.67 | 0.00 | 0.0093 |
| 96.6 | 100 | | | | | | | | | | | | | | | | | | |
| 99.7 | 100 | | | | | | | | | | 92.4 | | | 98.4 | 102.7 | 11223 | 0.54 | 0.00 | 0.0097 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-16 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 102.7 | 100 | | | | | | | | | | | 96.6 | | 102.7 | 107.0 | 11224 | 0.28 | 0.00 | 0.0053 |
| 105.8 | 100 | | | | | | | | | | | | | | | | | | |
| 108.8 | 100 | | | | | | | | | | | | | 107.0 | 111.4 | 11225 | 0.40 | 0.00 | 0.0094 |
| 111.9 | 100 | | | | | | | | | | 110.3 | | | 111.4 | 115.7 | 11226 | 0.21 | 0.00 | 0.0029 |
| 114.9 | 100 | | | | | | | | | | | | | 115.7 | 120.0 | 11227 | 0.28 | 0.00 | 0.0044 |
| 118.0 | 100 | | | | | | | | | | | | | | | | | | |
| 121.0 | 100 | | | | | | | | | | | | | 120.0 | 124.3 | 11228 | 0.22 | 0.00 | 0.0038 |
| 124.1 | 100 | | | | | | | (401.1-403.0) Intense clay alt'n and bleaching. | | | | | | 124.3 | 128.6 | 11229 | 0.23 | 0.00 | 0.0038 |
| 127.1 | 100 | | | | | | | | | | | | | | | | | | |
| 130.1 | 100 | | | | | | | (423.7-428.3) As above | | | 127.4 | | | 128.6 | 132.9 | 11230 | 0.10 | 0.00 | 0.0014 |
| 133.2 | 100 | | | | | | | | | | | | | 132.9 | 137.2 | 11231 | 0.12 | 0.00 | 0.0026 |
| 136.2 | 100 | | | | | | | | | | | | | | | | | | |
| 139.3 | 100 | | | | | | | | | | | | | 137.2 | 141.5 | 11232 | 0.14 | 0.00 | 0.0026 |
| 142.3 | 100 | | | | | | | | | | | 140.8 | | 141.5 | 145.8 | 11233 | 0.58 | 0.00 | 0.0099 |
| 145.4 | 100 | | | | | | | | | | | | | 145.8 | 150.1 | 11234 | 0.36 | 0.00 | 0.0131 |
| 148.4 | 100 | | | | | | | | | | 146.9 | | | | | | | | |
| 151.5 | 100 | | | | 152.3 | 166.8 | CTG-K= | BBFP 499.8-721.0 | 499-721 | | | | | 150.1 | 154.5 | 11235 | 0.19 | 0.00 | 0.0035 |
| 154.5 | 100 | | | | | | | As above BBFP except mod-int stkwk and clay/ser alt'n. mod-int frxring with soft greenish (chl?) carb on mod oxid'd surfaces. clay alt of Fsp pervasive. Some well formed slicks on open frxrs | 1-2% py=cp frxrs=diss=blebs | | | | | 154.5 | 158.8 | 11236 | 0.21 | 0.00 | 0.0029 |
| 157.6 | 100 | | | | | | | | | | | | | 158.8 | 163.1 | 11237 | 0.12 | 0.00 | 0.0029 |
| 160.6 | 100 | | | | | | | | | | | | | 163.1 | 167.4 | 11238 | 0.16 | 0.00 | 0.0035 |
| 163.7 | 100 | | | | | | | | | | 162.2 | | | 167.4 | 171.7 | 11239 | 0.13 | 0.00 | 0.0017 |
| 166.7 | 100 | | | | | | | | | | | | | | | | | | |
| 169.8 | 100 | | | | | | | | | | | | | | | | | | |
| 172.8 | 100 | | | | | | | | | | | | | 171.7 | 176.0 | 11240 | 0.32 | 0.00 | 0.0035 |
| 175.9 | 100 | | | | 166.8 | 176.1 | CKT-K= | (547.3-577.6) | | | | | | 176.0 | 180.3 | 11241 | 0.42 | 0.00 | 0.0067 |
| 178.9 | 100 | | | | | | | Intensely bleached and clay alt'd. rock friable and soft.BFP txtrs still clear. | | | 177.4 | | | | | | | | |
| 182.0 | 100 | | | | | | | | | | | 182.0 | | 180.3 | 184.6 | 11242 | 0.43 | 0.00 | 0.0061 |
| 185.0 | 100 | | | | 176.1 | 191.8 | CTG-K= | Probable fault @ 566.0 | | | 185.0 | | | 184.6 | 188.9 | 11243 | 0.30 | 0.00 | 0.0041 |
| 188.1 | 100 | | | | | | | | | | | | | 188.9 | 193.3 | 11244 | 0.38 | 0.00 | 0.0023 |
| 191.1 | 100 | | | | | | | | | | | | | | | | | | |
| 194.2 | 100 | | | | 187.0 | 187.3 | --koF | (613.6-614.5) Fault crushed, oxid'd core and gouge. | | | | | | 193.3 | 197.6 | 11245 | 0.37 | 0.00 | 0.0064 |
| 197.2 | 100 | | | | | | | | | | 195.1 | | | 197.6 | 201.9 | 11246 | 0.33 | 0.00 | 0.0053 |
| 200.3 | 100 | | | | | | | | | | | | | | | | | | |
| 203.3 | 100 | | | | 191.8 | 201.8 | CKZ-K= | (629.2-640.6) | | | | | | 201.9 | 206.2 | 11247 | 0.37 | 0.00 | 0.0035 |

PROPERTY: GRANISLE
 PERM DDH#: G90-17
 TEMP DDH#: G90-RB

=====

GEOLOGIST: A.J.Pardoe

COL. DATE: 90/11/08
 EOH DATE: 90/11/09

DRILL#: 44-5
 CORE SIZE: NQ

=====

COMMENTS
 =====

FIELD COORDINATES (Metric)

=====

NORTHING: 3474.7 AZIMUTH: 270
 EASTING: 3627.1 DIP: 45
 ELEVATION: 688.5 LENGTH: 0.2

=====

SURVEY COORDINATES (Metric)

=====

NORTHING: 3485.2 AZIMUTH: 268.25
 EASTING: 3629.5 DIP: -45
 ELEVATION: 698.1 LENGTH: 264.4

=====

DOWNHOLE SURVEY METHOD: SPERRY SUN

=====

| | DEPTH | AZIMUTH | DIP |
|-----|-------|---------|-------|
| | ---- | ---- | ---- |
| 1: | 56.7 | 271 | -43.5 |
| 2: | 199.9 | 268 | -45.5 |
| 3: | 264.0 | 274 | -45.5 |
| 4: | | | |
| 5: | | | |
| 6: | | | |
| 7: | | | |
| 8: | | | |
| 9: | | | |
| 10: | | | |

=====

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-17 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|-----------------------------|-----|-------|------|-------------|-------|-------|---------|--------|--------|----------|--|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) | |
| 84.1 | 100 | | | | | | | (261-265.5) W-broken, no gouge. | | | 83.5 | | | 82.0 | 86.3 | 10430 | 0.16 | 0.00 | 0.0041 | |
| 87.2 | 100 | | | | 84.9 | 117.7 | C6zmks | 278.5-407: Dk gy BBFP, loc lightened by | 278.5-407: Py>cp, str. | 1 | | | | 86.3 | 90.6 | 10431 | 0.08 | 0.00 | 0.0038 | |
| 90.2 | 100 | | | | | | | i-Si(blurs porphyry texture). W-qz vnlt | V loc mo in qz str. | | | | | 90.6 | 95.0 | 10432 | 0.15 | 0.00 | 0.0035 | |
| 93.3 | 100 | | | | | | | @ mod angles to CA, loc with i-ser halos | W to loc m-mag. | | 89.0 | | | | | | | | | |
| 96.3 | 100 | | | | | | | l-Si, I-2nd BT. | | | | | 95.0 | 99.3 | 10433 | 0.72 | 0.00 | 0.0053 | | |
| 99.4 | 100 | | | | | | | (278.5-300) W-vugs, loc w-broken. | | | 98.8 | | | 99.3 | 103.6 | 10434 | 0.08 | 0.00 | 0.0056 | |
| 102.4 | 100 | | | | | | | (316.5-319) M to i-qz stwk + pervasive | (316.5-319) Cp>py, massive | 5 | | | | | | | | | | |
| 105.5 | 100 | | | | | | | ser. Rk is bleached. | patches in qz str. | | | | | 103.6 | 107.9 | 10435 | 0.14 | 0.00 | 0.0038 | |
| 108.5 | 100 | | | | | | | (340.5-341.5) As above. | (340.5-341.5) Py>>cp, blebs | 3 | | | | 107.9 | 112.2 | 10436 | 0.13 | 0.00 | 0.0032 | |
| 111.6 | 100 | | | | | | | | in qz str. | | 111.3 | | | 112.2 | 116.5 | 10437 | 0.12 | 0.00 | 0.0035 | |
| 114.6 | 100 | | | | | | | | | | | | | | | | | | | |
| 117.7 | 100 | | | | | | | (382.6-386) Loc blk aphanitic patches. | | | | | | 116.5 | 120.8 | 10438 | 0.10 | 0.00 | 0.0029 | |
| 120.7 | 100 | | | | 117.7 | 124.1 | C6kmks | (386-407) W to loc m-K alt'd. Loc gouge | | | 120.4 | | | 120.8 | 125.2 | 10439 | 0.07 | 0.00 | 0.0029 | |
| 123.7 | 100 | | | | | | | on frac. | | | | | | | | | | | | |
| 0.0 | | | | | 124.1 | 126.6 | C6K-Fs | 407-415.5: Fault zn . Mod to i-broken | 407-415.7: Py>>cp, in qstrs | <1 | | | | | | | | | | |
| 0.0 | | | | | | | | several crushed + gouged sections. Blk | | | | | | | | | | | | |
| | | | | | | | | aphanitic patches in bottom 3'. | | | | | | | | | | | | |
| 126.8 | 96 | | | | 126.6 | 139.3 | C6z-A> | 415.5-457:Dk (brwn)-gy crowded BBFP with | 415.5-457: Py>cp, str>>diss | 1-2 | | | | 125.2 | 129.4 | 10440 | 0.19 | 0.00 | 0.0038 | |
| | | | | | | | | patchy i-BT alt'n which obscures texture | | | | | | | | | | | | |
| | | | | | | | | making phenos seem more scattered. Loc | | | | | | | | | | | | |
| | | | | | | | | tuff xenos + patchy mottled texture. W- | | | | | | | | | | | | |
| 129.8 | 100 | | | | | | | qz str+flood/patches. Variable Si, loc | | | | | | 129.4 | 133.7 | 10441 | 0.19 | 0.00 | 0.0041 | |
| 132.9 | 100 | | | | | | | m-K. I-BT more dominant downsection. | | | 132.9 | | | 133.7 | 138.1 | 10442 | 0.27 | 0.00 | 0.0035 | |
| 135.9 | 100 | | | | | | | (347.2-349) Med gy BBFP dyke, as below. | | | | | | | | | | | | |
| 139.0 | 100 | | | | 139.3 | 146.9 | C4q-k> | 457-482: Med brwn-gy crowded BBFP. W to | 457-524: Py>>cp, str>>diss | 2-3 | | | | 138.1 | 142.4 | 10443 | 0.22 | 0.00 | 0.0044 | |
| 142.0 | 100 | | | | | | | m-ser'd, w to m-faint qz stwk. Qz/ser | | | | | | 142.4 | 146.7 | 10444 | 0.18 | 0.00 | 0.0038 | |
| 145.1 | 100 | | | | | | | alt'n. | | | 145.1 | | | | | | | | | |
| | | | | | 146.9 | 159.7 | C6q-K> | 482-524: Dk brwn-gy BBFP + patchy i-BT. | | | | | 0.0 | | | | | | | |
| 148.1 | 100 | | | | | | | Loc vague tuff xenos, loc mottled/psuedo | | | | | 148.1 | 146.7 | 151.0 | 10445 | 0.16 | 0.00 | 0.0044 | |
| | | | | | | | | bx texture. M to loc i-qz vnlt/stwk + | | | | | | | | | | | | |
| 151.2 | 100 | | | | | | | patchy w-qz flood. Loc w to m-qz/ser alt | | | | | | 151.0 | 155.3 | 10446 | 0.16 | 0.00 | 0.0035 | |
| 154.2 | 100 | | | | | | | BBFP dykes (generally <2' wide). W to | | | | | | | | | | | | |
| 157.3 | 100 | | | | | | | nil Si. | | | 155.4 | | | 155.3 | 159.6 | 10447 | 0.11 | 0.00 | 0.0029 | |
| 160.3 | 100 | | | | 159.7 | 167.3 | C7--ks | 524-549: V dk brwn-gy, i-BT alt'd BBFP. | 524-590: Py>>cp, str. | 1-2 | | | | 159.6 | 163.9 | 10448 | 0.10 | 0.00 | 0.0029 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-17 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|---|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 163.4 | 100 | | | | | | | Much of section appears to have only | | | 162.2 | | | | | | | | |
| 0.0 | | | | | | | | scattered phenos, as alt'n obscures much | | | | | | | | | | | |
| 0.0 | | | | | | | | of porphyry texture. W-hairline qz vnlt. | | | | | | | | | | | |
| 0.0 | | | | | | | | Some possibility that the unit is anothe | | | | | | 163.9 | 168.2 | 10449 | 0.09 | 0.00 | 0.0023 |
| 166.4 | | | | | | | | phase of BBFP. | | | | | | | | | | | |
| | | | | | 167.3 | 174.0 | C6Z-As | 549-590: Dk brwn-gy crowded BBFP with | | | | | | | | | | | |
| | | | | | | | | scattered dk buff tuff xenos. Porphyry | | | | | | | | | | | |
| | | | | | | | | texture is w-blurred. | | | | | | | | | | | |
| | | | | | | | | (549-571) Patchy m to i-white qz flood? | | | | | | | | | | | |
| 169.5 | 100 | | | | | | | gives mottled texture. Small clots of | | | | | | 168.2 | 172.5 | 10450 | 0.13 | 0.00 | 0.0035 |
| 172.5 | 100 | | | | | | | blk 2nd BT in i-qz patches. | | | 171.5 | | | 172.5 | 176.9 | 10451 | 0.16 | 0.00 | 0.0026 |
| | | | | | 174.0 | 179.8 | C6--ks | (571-590) Loc m to i-qz stwk. with i-ser | | | | | | | | | | | |
| 175.6 | 99 | | | | | | | alt'n envelopes. I-2nd BT, loc aphanitic | | | | | | | | | | | |
| 178.6 | 95 | | | | | | | patches. M-broken @577.7-582.5'. | | | | | | 176.9 | 181.2 | 10452 | 0.14 | 0.00 | 0.0023 |
| 181.7 | 100 | | | | 179.8 | 186.1 | C7z-ks | 590-610.5: V. dk gy crowded BBFP. Massiv | 590-610.5: Py>>cp, str | 1 | 181.7 | | | 181.2 | 185.5 | 10453 | 0.06 | 0.00 | 0.0035 |
| 184.7 | 100 | | | | | | | except for w-qz str. M-Si. No xenos. | | | | | | 185.5 | 189.8 | 10454 | 0.08 | 0.00 | 0.0023 |
| 187.8 | 100 | | | | 186.1 | 194.2 | C7-mz> | 610.5-637: V dk gy to blk BBFP with mod | 610.5--637: Py>>cp, str>> | 1-2 | | | | | | | | | |
| 190.8 | 100 | | | | | | | buff to blk tuff xenos. W-qz vnlt, mino | diss. Loc m-mag. | | | | | 189.8 | 194.1 | 10455 | 0.16 | 0.00 | 0.0029 |
| 193.9 | 100 | | | | | | | loc qz patches. | | | 191.4 | | | 194.1 | 198.4 | 10456 | 0.07 | 0.00 | 0.0035 |
| | | | | | 194.2 | 203.0 | C6Z-Zs | 637-666:BBFP with m to i-white qz patch- | 637-666: Py+cp, str | <1 | | | | | | | | | |
| 196.9 | 100 | | | | | | | es. Loc bleach, buff tuff xenos increase | | | | | | | | | | | |
| | | | | | | | | in abundance + size. Loc w-carb vnlt. | | | | | | | | | | | |
| 199.9 | 100 | | | | | | | Sheared, broken + slickensided in bottom | | | | | | | | | | | |
| 0.0 | | | | | | | | 1ft. | | | 201.8 | | | 198.4 | 202.7 | 10457 | 0.12 | 0.00 | 0.0041 |
| 203.0 | 97 | | | | 203.0 | 214.0 | C7Zmk< | 666-702: Blk BBFP, v blurred porphyry tex | 666-702: Py>cp, diss>strs | 2 | | | | 202.7 | 207.1 | 10458 | 0.15 | 0.00 | 0.0044 |
| 206.0 | 97 | | | | | | | ture (loc sub-aphanitic appearance). | Loc w-mag. | | | | | | | | | | |
| 209.1 | 100 | | | | | | | Faint scattered tuff xenos. I-diss 2nd | | | | | | 207.1 | 211.3 | 10459 | 0.07 | 0.00 | 0.0032 |
| 212.1 | 100 | | | | | | | BT, m to i-Si, w-qz/(carb) vnlt. | | | | | | 211.3 | 215.6 | 10460 | 0.12 | 0.00 | 0.0029 |
| 215.2 | 100 | | | | 214.0 | 247.8 | C2g-z< | 702-813: Blk BBFP as above, but with fre | 702-813: Cp<=py, diss>>strs | 1-3 | 211.2 | | | 215.6 | 220.0 | 10461 | 0.12 | 0.00 | 0.0047 |
| 218.2 | 100 | | | | | | | -quent w-bleached + strongly xenolithic | V loc mag. | | | | | | | | | | |
| 221.3 | 100 | | | | | | | sections. W to nil qz vnlt. | | | | 220.7 | | 220.0 | 224.3 | 10462 | 0.16 | 0.00 | 0.0041 |
| 224.3 | 100 | | | | | | | (754-813) W-gyp vnlt. | | | 224.3 | | | 224.3 | 228.6 | 10463 | 0.18 | 0.00 | 0.0038 |
| 227.4 | 100 | | | | | | | | | | | | | | | | | | |
| 230.4 | 100 | | | | | | | | | | | | | 228.6 | 232.9 | 10464 | 0.16 | 0.00 | 0.0035 |

PROPERTY: GRANISLE
 PERM DDH#: G90-18
 TEMP DDH#: G90-NA

GEOLOGIST: R VERZOSA

COL. DATE: 90/11/09
 EOH DATE: 90/11/10

DRILL#: 38-14
 CORE SIZE: NQ

COMMENTS
 =====

FIELD COORDINATES (Metric)
 =====

NORTHING: 3246.1 AZIMUTH: 180
 EASTING: 3291.8 DIP: -45
 ELEVATION: 595.9 LENGTH: 0.3

SURVEY COORDINATES (Metric)
 =====

NORTHING: 3247.6 AZIMUTH: 183.24
 EASTING: 3291.8 DIP: -45
 ELEVATION: 597.8 LENGTH: 273.4

DOWNHOLE SURVEY METHOD: SPERRY SUN
 =====

| | DEPTH | AZIMUTH | DIP |
|-----|-------|---------|-------|
| | ---- | ----- | --- |
| 1: | 118.0 | 183 | -46 |
| 2: | 221.6 | 180 | -46.5 |
| 3: | 273.4 | 182 | -46 |
| 4: | | | |
| 5: | | | |
| 6: | | | |
| 7: | | | |
| 8: | | | |
| 9: | | | |
| 10: | | | |

PROPERTY: GRANISLE
 PERM DDH#: G90-19
 TEMP DDH#: G90-AL

GEOLOGIST: A.J.Pardoe

COL. DATE: 90/11/09
 EOH DATE: 90/11/12

DRILL#: 44-5
 CORE SIZE: NQ

COMMENTS

Probable grade in dk volc +
 towards EOH.
 Should thin section bleache
 rk below 1150' + dk volc.

FIELD COORDINATES (Metric)

NORTHING: 3291.8 AZIMUTH: 090
 EASTING: 3048.0 DIP: -45
 ELEVATION: 723.9 LENGTH: 0.3

SURVEY COORDINATES (Metric)

NORTHING: 3292.2 AZIMUTH: 89.54
 EASTING: 3047.1 DIP: -45
 ELEVATION: 722.8 LENGTH: 395.0

DOWNHOLE SURVEY METHOD: SPERRY SUN

| | DEPTH | AZIMUTH | DIP |
|-----|-------|---------|-------|
| 1: | 96.3 | 077 | -45 |
| 2: | 172.2 | 075 | -46.5 |
| 3: | 273.1 | 079 | -46 |
| 4: | 370.6 | 082 | -46.5 |
| 5: | | | |
| 6: | | | |
| 7: | | | |
| 8: | | | |
| 9: | | | |
| 10: | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-19 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|------|--------|--|---------------------------|-----|------|------|-------------|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | 0 | 0.0 | 3.0 | CASE | 0.0 | 3.0 | | CASING (0-10) | | | | | | | | | | | |
| 3.0 | 0 | 3.0 | 33.5 | QFP? | 3.0 | 33.5 | Q2p-M< | FP (10-110) | | | | | | 3.0 | 4.9 | 11415 | 0.02 | 0.00 | 0.0003 |
| 4.9 | 72 | | | | | | | Lt gy to faint grn, loc lt brwn grdmass | 10-110: Py, diss>>strs | 4-6 | 4.9 | | | 4.9 | 9.3 | 11416 | 0.01 | 0.00 | 0.0006 |
| 7.9 | 89 | | | | | | | with abundant white, m-ser'd FSP phenos. | | | | | | | | | | | |
| 11.0 | 96 | | | | | | | No visible BT phenos, FSP xls are a bit | | | | | | 9.3 | 13.6 | 11417 | 0.01 | 0.00 | 0.0009 |
| 14.0 | 99 | | | | | | | indistinct. Massive, compact rk. Possib- | | | | | | 13.6 | 17.9 | 11418 | 0.01 | 0.00 | 0.0006 |
| 17.1 | 89 | | | | | | | ly QFP? | | | 16.5 | | | 17.9 | 22.2 | 11419 | 0.01 | 0.00 | 0.0003 |
| 20.1 | 100 | | | | 6.2 | 6.6 | --K-F | (20.5-21.5) Fault. Crushed + gouged. | | | | | | | | | | | |
| 23.2 | 100 | | | | 9.9 | 10.2 | --K-F | (32.5-33.5) Fault as above. | | | | 23.2 | | 22.2 | 26.5 | 11420 | 0.01 | 0.00 | 0.0003 |
| 26.2 | 100 | | | | 11.6 | 14.5 | -k--F | (38-47.5) Fault zn. Several i-K alt'd, | | | | | | 26.5 | 30.8 | 11421 | 0.04 | 0.00 | 0.0006 |
| 29.3 | 100 | | | | | | | broken + loc gouged sections. | | | | | | | | | | | |
| 32.3 | 100 | | | | | | | | | | 29.9 | | | 30.8 | 35.1 | 11422 | 0.09 | 0.00 | 0.0009 |
| 35.4 | 100 | 33.5 | 41.8 | TUFF | 33.5 | 41.8 | T3--L< | TUFF (110-137.3) | 110-137.3: Py, diss>>strs | 3 | | | | 35.1 | 39.4 | 11423 | 0.03 | 0.00 | 0.0009 |
| 38.4 | 100 | | | | | | | Lt grn/yellow-gy, loc lt brwn streaks. | | | | | | | | | | | |
| | | | | | | | | Aphanitic, loc w-banded. Loc FP dykes in | | | | 39.8 | | | | | | | |
| | | | | | | | | upper 6'. Mottled texture in bottom 3.3' | | | | | | | | | | | |
| | | | | | | | | Compact + mod indurated. | | | | | | | | | | | |
| 41.5 | 100 | 41.8 | 179.8 | BBFP | | | | BBFP (137.3-590) | | | | | | 39.4 | 43.7 | 11424 | 0.04 | 0.00 | 0.0003 |
| 44.5 | 100 | | | | 41.8 | 49.1 | C4t-A< | 137.3-161: Med brwn, i-diss 2nd BT, in- | 137.3-228: Py, diss>>strs | 3-5 | 0.0 | | | 43.7 | 48.0 | 11425 | 0.07 | 0.00 | 0.0016 |
| 47.5 | 100 | | | | | | | distinct, white FSP + brwn BT? phenos. | | | 47.5 | | | | | | | | |
| 0.0 | | | | | | | | Mottled, loc pseudo-bx texture from lt | | | | | | | | | | | |
| 0.0 | | | | | | | | ser patches. Loc tuff xenos. | | | | | | 48.0 | 52.4 | 11426 | 0.04 | 0.00 | 0.0006 |
| 50.6 | 100 | | | | 49.1 | 52.9 | C5B-m< | 161-173.5: Med to dk brwn with slight | | | 0.0 | | | | | | | | |
| | | | | | | | | blurred FSP phenos + abundant 2nd BT. | | | | | | | | | | | |
| | | | | | | | | Possibly some BT phenos, but suspect all | | | | | | | | | | | |
| | | | | | | | | BT is 2nd. Loc w-ser spots. | | | | | | | | | | | |
| 53.6 | 100 | | | | 52.9 | 58.2 | C2T-A< | 173.5-191: I-bleached to pale grn/yellow | | | | | | 52.4 | 56.7 | 11427 | 0.03 | 0.00 | 0.0003 |
| 56.7 | 100 | | | | | | | -gy, with loc med brwn visible. M to i- | | | | | | 56.7 | 61.0 | 11428 | 0.01 | 0.00 | 0.0006 |
| | | | | | | | | ser'd. Loc i-xenoliths/rounded bx. Mot- | | | | | | | | | | | |
| | | | | | | | | tled, patchy texture. | | | | | | | | | | | |
| 59.7 | 100 | | | | 58.2 | 69.5 | C52-k< | 191-228: Med to dk brwn grdmass with i- | | | | | | | | | | | |
| 62.8 | 100 | | | | | | | diss 2nd BT. Lt gy, distinct to w-blur- | | | | | | 61.0 | 65.3 | 11429 | 0.02 | 0.00 | 0.0009 |
| 65.8 | 100 | | | | | | | red FSP phenos, v loc distinct BT phenos | | | | | | 65.3 | 69.6 | 11430 | 0.01 | 0.00 | 0.0009 |
| 68.9 | 100 | | | | | | | M to i-Si. W qz/sx vnlts with ser alt'n | | | 66.4 | | | 69.6 | 73.9 | 11431 | 0.02 | 0.00 | 0.0018 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-19 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|---|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | | | | | | | envelopes. | | | | | | | | | | | |
| | | | | | 69.5 | 82.3 | C3t-d | 228-390: Variably lt to loc dk brwn-gy | 228-390: Py, diss>>>strs | 4-6 | | | | | | | | | |
| 71.9 | 100 | | | | | | | grdmass, i-diss brwn 2nd BT, abundant | | | 75.0 | | | | | | | | |
| 75.0 | 100 | | | | | | | fg, white, slightly blurred FSP + loc BT | | | | | | 73.9 | 78.2 | 11432 | 0.03 | 0.00 | 0.0012 |
| 78.0 | 100 | | | | | | | phenos. Round lt gy ser spots (av. 5mm | | | | | 79.6 | 78.2 | 82.5 | 11433 | 0.02 | 0.00 | 0.0006 |
| 81.1 | 100 | | | | | | | dia) scattered throughout (dalmationite?) | | | | | | | | | | | |
| | | | | | | | | W to loc qz vnlts with ser envelopes. | | | 87.2 | | | | | | | | |
| | | | | | | | | (228-270)Lt to med brwn-gy grdmass, soft | | | | | | | | | | | |
| 84.1 | 100 | | | | | | | FSP xls. Loc ser alt'd patches. | | | | | | 82.5 | 86.8 | 11434 | 0.01 | 0.00 | 0.0006 |
| 87.2 | 100 | | | | 82.3 | 103.5 | C5p-d | (270-324) Dominantly med to dk brwn-gy. | | | | | | 86.8 | 91.2 | 11435 | 0.01 | 0.00 | 0.0008 |
| 90.2 | 100 | | | | | | | | | | | | | | | | | | |
| 93.3 | 100 | | | | | | | | | | | | | 91.2 | 95.5 | 11436 | 0.01 | 0.00 | 0.0009 |
| 96.3 | 100 | | | | | | | | | | | | | 95.5 | 99.8 | 11437 | 0.01 | 0.00 | 0.0009 |
| 99.4 | 100 | | | | | | | | | | 99.1 | | | 99.8 | 104.1 | 11438 | 0.01 | 0.00 | 0.0015 |
| 102.4 | 100 | | | | 103.5 | 115.6 | C2p-d | (339.5-379.3) M to i-ser bleaches most | | | | | | | | | | | |
| 105.5 | 100 | | | | | | | of rk lt gy with loc soft, slight swol- | | | | | | 104.1 | 108.4 | 11439 | 0.03 | 0.00 | 0.0012 |
| 108.5 | 100 | | | | | | | len FSP phenos. Loc brwn patches. Bleach- | | | | | | 108.4 | 112.7 | 11440 | 0.02 | 0.00 | 0.0018 |
| 111.6 | 100 | | | | | | | ed rock is similar to FP @ top of hole. | | | | | | | | | | | |
| 114.6 | 100 | | | | 115.6 | 148.0 | C7p-d | | | | 113.1 | | | 112.7 | 117.0 | 11441 | 0.02 | 0.00 | 0.0018 |
| 117.7 | 100 | | | | | | | | | | | | | 117.0 | 121.3 | 11442 | 0.02 | 0.00 | 0.0015 |
| 120.7 | 100 | | | | | | | 390-518.5: Much as @ 228-390', but grd- | 390-518.5: Py, diss + v loc | 5-6 | | | | 121.3 | 125.6 | 11443 | 0.02 | 0.00 | 0.0012 |
| 123.7 | 100 | | | | | | | mass is v dk gy to blk (2nd BT is dk). W | strs + blebs. | | 121.6 | | | | | | | | |
| 126.8 | 100 | | | | | | | to loc i-ser spots (dalm.), loc bleached | | | | | | 125.6 | 129.9 | 11444 | 0.03 | 0.00 | 0.0009 |
| 129.8 | 100 | | | | | | | patches. Loc qz/carb vnlts. | | | | | | 129.9 | 134.3 | 11445 | 0.03 | 0.00 | 0.0015 |
| 132.9 | 100 | | | | | | | (413-414.5) Bleached lt gy as @339.5'. | | | 132.9 | | | | | | | | |
| 135.9 | 100 | | | | | | | (417.5-424) As above. | | | | | | 134.3 | 138.6 | 11446 | 0.05 | 0.00 | 0.0018 |
| 139.0 | 100 | | | | | | | | | | | | | 138.6 | 142.9 | 11447 | 0.03 | 0.00 | 0.0018 |
| 142.0 | 100 | | | | | | | | | | 142.0 | 140.8 | | | | | | | |
| 144.8 | 92 | | | | | | | | | | | | | 142.9 | 147.2 | 11448 | 0.02 | 0.00 | 0.0012 |
| 147.8 | 100 | | | | 148.0 | 152.4 | C7p-yd | (485.5-500) M-broken, no gouge, loc | | | | | | 147.2 | 151.5 | 11449 | 0.07 | 0.00 | 0.0029 |
| 150.6 | 87 | | | | | | | vuggy qz. | | | | | | | | | | | |
| 153.6 | 98 | | | | 152.4 | 158.0 | C7p-d | (500-508.3) Loc gyp vnlts. | | | 153.3 | | | 151.5 | 155.8 | 11450 | 0.14 | 0.00 | 0.0018 |
| | | | | | | | | (506-518.5) Much of rk is bleached med | | | | | | | | | | | |
| 156.7 | 100 | | | | | | | yellow-grn. Fault zn @511.4-513.4' (loc | | | | | | 155.8 | 160.1 | 11451 | 0.11 | 0.00 | 0.0021 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-19 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | | | | | | | (crush + gouge.) Bleach is concentrated in center of section. Loc white carb str | | | | | | | | | | | |
| 159.7 | 100 | | | | 158.0 | 170.1 | CNg-MD | 518.5-590: Blk BBFP with prominent cg | 518.5-590: Py + tr cp?, | 4-6 | | | | 160.1 | 164.4 | 11452 | 0.14 | 0.00 | 0.0032 |
| 162.8 | 100 | | | | | | | white FSP + Blk BT phenos. Massive excep | diss>>>strs | | 160.6 | | | | | | | | |
| 165.8 | 100 | | | | | | | for w-gyp vnlts (often sub-parallel to | | | | | | 164.4 | 168.7 | 11453 | 0.07 | 0.00 | 0.0026 |
| 168.9 | 100 | | | | 170.1 | 179.8 | Cnt-MD | CA). Well indurated. M to i-Si. | | | 168.2 | | | | | | | | |
| 0.0 | | | | | | | | (558-560) I-ser + m-Si bleaches rk to | | | | | | 168.7 | 173.1 | 11454 | 0.06 | 0.00 | 0.0026 |
| 172.2 | 100 | | | | | | | pale grn + white. | | | | | | | | | | | |
| 0.0 | | | | | | | | (562-573) I-Si blurs porphy texture to | | | | | | | | | | | |
| 0.0 | | | | | | | | subaphanitic dk gy. Patchy ser alt'n. | | | | | | | | | | | |
| 175.3 | 100 | | | | | | | (573-584.5) I-ser(?) + i-qz stwk bleaches | (573-584.5) Py>>cp, blebs + | 2-3 | | | | 173.1 | 177.4 | 11455 | 0.09 | 0.00 | 0.0026 |
| 178.3 | 100 | | | | | | | rk off-white with loc dk gy visible. | minor diss. | | 175.9 | | | | | | | | |
| 0.0 | | | | | | | | Pseudo-bx texture. Upper contact grada- | | | | | | | | | | | |
| 0.0 | | | | | | | | tional, lower contact abrupt @90 deg to | | | | | | | | | | | |
| | | | | | | | | CA (no evidence of fault). | | | | | | 177.4 | 181.7 | 11456 | 0.14 | 0.00 | 0.0021 |
| | | | | | | | | BFp (590-825.5) | 590-609: Py>>cp, diss+ | 4-5 | | | | | | | | | |
| 181.4 | 100 | | | | 179.8 | 185.6 | B4g-MD | 590-609: Med gy grdmass with slight ob- | v loc str. | | | | | 181.7 | 186.0 | 11457 | 0.09 | 0.00 | 0.0024 |
| 184.4 | 100 | | | | | | | scured FSP +BT phenos. W-gyp vnlts (loc | | | | | | | | | | | |
| 0.0 | 100 | | | | | | | sub-parallel to CA + with ser alt'n halo | | | 185.0 | | | | | | | | |
| 0.0 | | | | | | | | Dominantly massive. Loc ser/chl? spots i | | | | | | | | | | | |
| 0.0 | | | | | | | | in upper 2'. | | | | | | | | | | | |
| 187.5 | 100 | | | | 185.6 | 203.3 | B4-hm> | 609-667: As above but nil ser + only loc | 609-736.5: Py>, loc= cp, | 2 | | | | 186.0 | 190.3 | 11458 | 0.15 | 0.00 | 0.0029 |
| 190.5 | 100 | | | | | | | gyp vnlts. | strs>patchy diss (often in | | | | | 190.3 | 194.6 | 11459 | 0.12 | 0.00 | 0.0035 |
| 193.9 | 100 | | | | | | | | spotted zones). Tr mo in st | | | | | 194.6 | 198.9 | 11460 | 0.28 | 0.00 | 0.0032 |
| 196.9 | 100 | | | | | | | | Tr to w-red hem. | | | | | | | | | | |
| 199.9 | 100 | | | | | | | | | | 199.9 | | | 198.9 | 203.2 | 11461 | 0.17 | 0.00 | 0.0035 |
| 203.0 | 100 | | | | | | | | | | | | | 203.2 | 207.5 | 11462 | 0.18 | 0.00 | 0.0032 |
| 206.0 | 100 | | | | 203.3 | 224.5 | B3chd> | 667-736.5: Med to loc lt gy grdmass with | | | | 206.3 | | | | | | | |
| 209.1 | 100 | | | | | | | crowded white FSP + blk phenos. V loc | | | | | | | | | | | |
| 212.1 | 100 | | | | | | | FSP phenos are w-ser'd + some of BT is | | | 210.0 | | | 211.8 | 216.2 | 11464 | 0.18 | 0.00 | 0.0023 |
| 215.2 | 100 | | | | | | | pale brwn (alt'n or 2nd BT?). Loc zones | | | | | | | | | | | |
| 218.2 | 100 | | | | | | | with dk grn gy spots (chl/ser dalm?). | | | 217.9 | | | 216.2 | 220.5 | 11465 | 0.25 | 0.00 | 0.0038 |
| 221.3 | 100 | | | | | | | Loc qz vnlts. | | | | | | 220.5 | 224.8 | 11466 | 0.19 | 0.00 | 0.0035 |
| 224.3 | 100 | | | | 224.5 | 230.4 | B5b-m> | 736.5-825.5: Grdmass is slightly darker | 736.5-825.5: Py>cp, loc mo | 1 | | | | 224.8 | 229.1 | 11467 | 0.14 | 0.00 | 0.0023 |

| | |
|-----------------------|------------------------------------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) |
| PERM DDH#: G90-20 | ===== |
| TEMP DDH#: G90-AX | |
| ===== | |
| GEOLOGIST: A.J.Pardoe | NORTHING: 3238.5 AZIMUTH: 270 |
| | EASTING: 3281.2 DIP: -60 |
| | ELEVATION: 595.3 LENGTH: 140.2 |
| | ===== |
| COL. DATE: 90/11/10 | SURVEY COORDINATES (Metric) |
| EOH DATE: 90/11/10 | ===== |
| | |
| DRILL#: 38-14 | NORTHING: 3239.3 AZIMUTH: 275.67 |
| CORE SIZE: NQ | EASTING: 3282.7 DIP: -60 |
| | ELEVATION: 596.4 LENGTH: 146.9 |
| | ===== |
| COMMENTS | DOWNHOLE SURVEY METHOD: SPERRY SUN |
| ===== | ===== |
| | DEPTH AZIMUTH DIP |
| | ----- |
| | 1: 146.9 277 -59.5 |
| | 2: |
| | 3: |
| | 4: |
| | 5: |
| | 6: |
| | 7: |
| | 8: |
| | 9: |
| | 10: |
| | ===== |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-20 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|------|------|----------|------|--------|--|-----------------------------|-----|------|------|-------------|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | 0 | 0.0 | 4.6 | CASE | 0.0 | 4.6 | | CASING (0-15) | | | | | | | | | | | |
| 4.6 | 0 | 4.6 | 52.4 | BBFP | 4.6 | 34.7 | CNgmMs | BBFP (15-172) | | | | | | 4.6 | 5.9 | 11508 | 0.09 | 0.00 | 0.0018 |
| | | | | | | | | | | | | | | 5.9 | 9.4 | 11509 | 0.14 | 0 | 0.002 |
| 8.2 | 68 | | | | | | | 15-114: V dk gy grdmass, crowded white | 15-114: Cp, str>>>diss | 1 | | | | 9.4 | 12.9 | 11510 | 0.20 | 0.00 | 0.0020 |
| 11.3 | 100 | | | | | | | FSP + blk BT phenos. I-Si, w to m-gyp | M-diss mag. | | | | | | | | | | |
| 14.3 | 100 | | | | | | | vnlt, i-diss blk BT. V loc qz vnlt. | | | 11.9 | | | 12.9 | 16.5 | 11511 | 0.21 | 0.00 | 0.0026 |
| 17.4 | 100 | | | | | | | (49.3-50.3) Patchy i-bleach/ser/qz | | | | | | 16.5 | 20.0 | 11512 | 0.10 | 0.00 | 0.0018 |
| 20.4 | 100 | | | | | | | | | | | | | 20.0 | 23.5 | 11513 | 0.15 | 0.00 | 0.0018 |
| 23.2 | 100 | | | | | | | (74-88) W-broken, w to loc m-K alt'n, | | | | | | 23.5 | 27.0 | 11514 | 0.23 | 0.00 | 0.0026 |
| 25.9 | 88 | | | | 25.4 | 26.8 | -K--F | loc gouge on frac. Fault (crushed+gouged | | | 24.1 | | | | | | | | |
| 26.5 | 100 | | | | | | | @83.4-88'. | | | | | | 27.0 | 30.5 | 11515 | 0.28 | 0.00 | 0.0023 |
| 29.6 | 100 | | | | 27.7 | 28.3 | -K--F | (91-93) Fault. Crushed + gouged. | | | | | | 30.5 | 34.0 | 11516 | 0.39 | 0.00 | 0.0026 |
| 32.6 | 100 | | | | | | | (102-105) 8x, loc m-broken. | | | 32.6 | 30.5 | | | | | | | |
| | | | | | 34.7 | 47.9 | Cnk-fs | 114-157: Selective to loc pervasive K | 114-157: Cp str>>>diss. | <1 | | | | | | | | | |
| 35.7 | 100 | | | | | | | alt'n, lightens + softens FSP xls and | | | | | | 34.0 | 37.6 | 11517 | 0.24 | 0.00 | 0.0023 |
| | | | | | | | | loc affects entire rk. Several crushed + | | | | | | | | | | | |
| 38.7 | 100 | | | | | | | gouged sections (up to 3' long) below | | | | | | 37.6 | 41.1 | 11518 | 0.44 | 0.00 | 0.0029 |
| 41.8 | 96 | | | | | | | 118'. Nil gyp, massive except for loc qz | | | | | | 41.1 | 44.6 | 11519 | 0.45 | 0.00 | 0.0038 |
| 44.8 | 100 | | | | | | | strs. | | | | | | 44.6 | 48.1 | 11520 | 0.24 | 0.00 | 0.0018 |
| 47.9 | 100 | | | | 47.9 | 52.4 | Cnt-M> | 157-172:BBFP as initial description, but | 157-172: Cp>py, str>>>diss | 1 | 45.7 | | | 48.1 | 51.6 | 11521 | 0.13 | 0.00 | 0.0015 |
| | | | | | | | | with loc w to m-bleached/ser'd sections | Py generally in bleached | | | | | | | | | | |
| 50.3 | 86 | | | | | | | and w-gyp vnlt. | zones. | | | | | | | | | | |
| 53.3 | 100 | 52.4 | 92.2 | VOLC | | | | VOLC/ANDS (172-302.5) | | | | | | 51.6 | 55.2 | 11522 | 0.25 | 0.00 | 0.0018 |
| | | | | | 52.4 | 67.7 | VN--k< | 172-222: Blk grdmass with i-diss 2nd BT | 172-222: Cp + loc py, diss> | 2-3 | | | | | | | | | |
| | | | | | | | | + scattered white FSP phenos. BBFP#2 or | >strs. Loc mo in qz vnlt. | | | | | | | | | | |
| | | | | | | | | volc flow? Several sections of blk aphan | | | | | | | | | | | |
| 56.4 | 100 | | | | | | | -itic flow/tuff. Loc crowded BBFP dykes. | | | 55.2 | | | 55.2 | 58.7 | 11523 | 0.41 | 0.00 | 0.0026 |
| 59.4 | 100 | | | | | | | I-diss 2nd BT, m to i-Si + w-qz/(carb) | | | | | | 58.7 | 62.2 | 11524 | 0.37 | 0.00 | 0.0023 |
| 62.5 | 100 | | | | | | | vnlt, throughout. V loc w-bleach (ser/qz | | | | | | 62.2 | 65.7 | 11525 | 0.44 | 0.00 | 0.0029 |
| 65.8 | 100 | | | | | | | Sharp upper contact with crowded BBFP, | | | 64.9 | | | | | | | | |
| 66.1 | 100 | | | | | | | @35 deg to CA | | | | | | 65.7 | 69.3 | 11526 | 0.30 | 0.00 | 0.0020 |
| 69.2 | 100 | | | | 67.7 | 80.8 | VNgMkd | 222-265: Blk, aphanitic with faintly | 222-265: Cp, diss + v loc | 3-4 | | | | 69.3 | 72.8 | 11527 | 0.33 | 0.00 | 0.0023 |
| 72.2 | 100 | | | | | | | speckled texture caused by i-diss 2nd BT | strs. M to i-diss mag. | | 71.9 | | | 72.8 | 76.3 | 11528 | 0.34 | 0.00 | 0.0023 |
| 75.3 | 100 | | | | | | | + i-Si. W-gyp vnlt, w-qz vnlt + loc | | | | 74.8 | | 76.3 | 79.8 | 11529 | 0.43 | 0.00 | 0.0023 |

| PROPERTY: GRANISLE PERM DDH#: G90-21 TEMP DDH#: G90-AI | FIELD COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------|-------|---------|-----|--|-------|-------|-----|----|-------|----|-----|----|-------|----|-----|----|-------|----|-----|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| | NORTHING: 3230.9 AZIMUTH: 090 EASTING: 3276.6 DIP: -45 ELEVATION: 594.4 LENGTH: 228.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEOLOGIST: R Verzosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COL. DATE: 90/11/11 EOH DATE: 90/11/12 | SURVEY COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILL#: 38-14 CORE SIZE: NQ | NORTHING: 3239.3 AZIMUTH: 88.66 EASTING: 3282.7 DIP: -45 ELEVATION: 596.4 LENGTH: 217.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>-----</th> <th>-----</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>105.8</td> <td>88</td> <td>-43</td> </tr> <tr> <td>2:</td> <td>194.2</td> <td>97</td> <td>-42</td> </tr> <tr> <td>3:</td> <td>215.5</td> <td>58</td> <td>-46</td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ----- | ----- | --- | 1: | 105.8 | 88 | -43 | 2: | 194.2 | 97 | -42 | 3: | 215.5 | 58 | -46 | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ----- | ----- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 105.8 | 88 | -43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 194.2 | 97 | -42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 215.5 | 58 | -46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-21 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|----------------------|-------|------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 90.5 | 100 | | | | | | | Grdmass dk grey and fsp lt-int clay alt' | | 88.4 | | | | 89.1 | 93.4 | 11571 | 0.21 | 0.00 | 0.0041 |
| 93.6 | 100 | | | | | | | becoming chalky white. | | | | | | 93.4 | 97.7 | 11572 | 0.15 | 0.00 | 0.0035 |
| 96.6 | 100 | | | | | | | 317.5-329.2 Int clay alt'd and bleach | | | | | | | | | | | |
| 99.7 | 100 | | | | | | | Rock soft & friable. Abundant hematit | | 98.5 | | | | 97.7 | 102.0 | 11573 | 0.58 | 0.00 | 0.0070 |
| 102.7 | 100 | | | | | | | clay slip @ 318.9' @ 30deg. | | | | | | 102.0 | 106.3 | 11574 | 0.79 | 0.00 | 0.0082 |
| 105.8 | 100 | | | | | | | BFP txtr vague. soft crumbly parts | | | | | | 106.3 | 110.7 | 11575 | 0.88 | 0.00 | 0.0123 |
| 108.8 | 100 | | | | | | | carbonaceous. | | | | 107.0 | | | | | | | |
| 110.9 | 100 | | | | | | | | | | | | 110.7 | 115.0 | 11576 | 0.30 | 0.00 | 0.0055 | |
| 114.0 | 100 | | | | 102.7 | 105.2 | -K--F | 336.9-345.3 Fault zone. core friable | | | | | | | | | | | |
| 117.0 | 100 | | | | 106.7 | 195.3 | C6Gmk> | crushed core & gouge @ 343.0 344-345 | | | | | | 115.0 | 119.3 | 11577 | 0.32 | 0.00 | 0.0050 |
| 120.1 | 100 | | | | | | | | | 117.3 | | | | 119.3 | 123.6 | 11578 | 0.08 | 0.00 | 0.0058 |
| 123.1 | 100 | | | | | | | | | | | | | | | | | | |
| 125.0 | 100 | | | | | | | | | | | | | 123.6 | 127.9 | 11579 | 0.21 | 0.00 | 0.0035 |
| 126.5 | 100 | | | | | | | | | | | | | | | | | | |
| 129.5 | 100 | | | | | | | | | | | | | 127.9 | 132.2 | 11580 | 0.39 | 0.00 | 0.0026 |
| 132.6 | 100 | | | | | | | | | | | | | 132.2 | 136.5 | 11581 | 0.36 | 0.00 | 0.0064 |
| 135.6 | 100 | | | | | | | | | 135.6 | | | | 136.5 | 140.8 | 11582 | 0.31 | 0.00 | 0.0044 |
| 138.7 | 100 | | | | | | | | | | | | | | | | | | |
| 141.7 | 100 | | | | | | | | | | | | | 140.8 | 145.1 | 11583 | 0.18 | 0.00 | 0.0050 |
| 143.3 | 100 | | | | | | | | | | | | | | | | | | |
| 145.4 | 100 | | | | | | | | | | | | | 145.1 | 149.5 | 11584 | 0.37 | 0.00 | 0.0058 |
| 148.4 | 100 | | | | | | | | | | | | | | | | | | |
| 151.5 | 100 | | | | | | | | | | | | | 149.5 | 153.8 | 11585 | 0.08 | 0.00 | 0.0026 |
| 154.5 | 100 | | | | | | | | | | | 153.0 | | 153.8 | 158.1 | 11586 | 0.17 | 0.00 | 0.0038 |
| 157.6 | 100 | | | | | | | | | 156.7 | | | | 158.1 | 162.4 | 11587 | 0.09 | 0.00 | 0.0029 |
| 160.6 | 100 | | | | | | | | | | | | | | | | | | |
| 163.7 | 100 | | | | | | | | | | | | | 162.4 | 166.7 | 11588 | 0.11 | 0.00 | 0.0035 |
| 166.1 | 100 | | | | | | | | | | | | | 166.7 | 171.0 | 11589 | 0.22 | 0.00 | 0.0026 |
| 169.2 | 100 | | | | | | | | | | | | | | | | | | |
| 172.2 | 100 | | | | | | | | | | | | | 171.0 | 175.3 | 11590 | 0.04 | 0.00 | 0.0026 |
| 175.3 | 100 | | | | | | | | | 172.8 | | | | 175.3 | 179.6 | 11591 | 0.04 | 0.00 | 0.0026 |
| 178.6 | 100 | | | | | | | | | | | | | | | | | | |
| 181.7 | 100 | | | | | | | | | | | | | 179.6 | 183.9 | 11592 | 0.09 | 0.00 | 0.0029 |
| 184.7 | 100 | | | | | | | | | | | | | 183.9 | 188.2 | 11593 | 0.07 | 0.00 | 0.0023 |

| | | | |
|--|------------------------------------|----------------|-------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) | | |
| PERM DDH#: G90-22 | ===== | | |
| TEMP DDH#: G90-AG | | | |
| ----- | | | |
| GEOLOGIST: A.J.Pardoe | NORTHING: 3230.9 | AZIMUTH: 090 | |
| | EASTING: 3048.0 | DIP: -60 | |
| | ELEVATION: 710.2 | LENGTH: 304.8 | |
| ----- | | | |
| COL. DATE: 90/11/12 | SURVEY COORDINATES (Metric) | | |
| EOH DATE: 90/11/13 | ===== | | |
| | NORTHING: 3231.2 | AZIMUTH: 91.09 | |
| DRILL#: 44-5 | EASTING: 3046.4 | DIP: -60 | |
| CORE SIZE: NQ | ELEVATION: 709.8 | LENGTH: 302.4 | |
| ----- | | | |
| COMMENTS | DOWNHOLE SURVEY METHOD: SPERRY SUN | | |
| ===== | ===== | | |
| Failed attempt to put 1" pipe down hole for piezo-meter, while drill on site. Probable low to mod grade in BBFP + blk tuff @EOH. | DEPTH | AZIMUTH | DIP |
| | ---- | ---- | ---- |
| | 1: 43.6 | 084 | -58.5 |
| | 2: 139.0 | 084 | -59 |
| | 3: 218.2 | 083 | -59.5 |
| | 4: 302.4 | 086 | -59.5 |
| | 5: | | |
| | 6: | | |
| | 7: | | |
| | 8: | | |
| | 9: | | |
| | 10: | | |
| ----- | | | |

| Metric | | MAIN UNIT | | SUB UNIT | | | DDH: G90-22 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | | |
|--------|------|-----------|-------|----------|-------|-------|-------------|---|--------------------------------|-----|-------|-------------|-----|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | 59.5 | 89.0 | VOLC? | | | | BBFP#2/VOLC (195.2-292) | | | | | | | | | | | |
| | | | | | | | | Aphanitic to fg, v dk brwn-gy. Faint, scattered white FSP phenos(?) + i-diss 2nd BT. Massive except for scattered qz/carb vnlts. | | | | | | | | | | | |
| 59.7 | 100 | | | | 59.5 | 66.1 | V4t-A< | 195.2-217: Lt grading to med brwn-gy downsection. Patchy mottled texture + loc small bleached white patches (ser). | 195.2-217: Py, diss>strs. | 2-3 | | | | 59.4 | 62.9 | 11618 | 0.06 | 0.00 | 0.0026 |
| 62.8 | 100 | | | | | | | | | | 61.1 | | | 62.9 | 66.4 | 11619 | 0.06 | 0.00 | 0.0029 |
| 65.8 | 100 | | | | | | | | | | | | | 66.4 | 69.9 | 11620 | 0.07 | 0.00 | 0.0023 |
| 68.9 | 100 | | | | 66.1 | 72.7 | V7B-md | Loc gyp vnlts. Contact with upper BBFP is masked by alt'n. | 217-292: Py, diss>>>strs. | 3-4 | | | | 69.9 | 73.4 | 11621 | 0.05 | 0.00 | 0.0026 |
| 71.9 | 100 | | | | | | | | | | 71.3 | | | | | | | | |
| 75.0 | 100 | | | | 72.7 | 89.0 | V7N-md | 238.5-292: M to i-Si. V loc gyp vnlts. (242-246) Bleached beige to pale gy, swirled texture. Rapid gradational contacts. | | | | 76.5 | | 73.4 | 77.0 | 11622 | 0.06 | 0.00 | 0.0020 |
| 78.0 | 100 | | | | | | | | | | | | | 77.0 | 80.5 | 11623 | 0.05 | 0.00 | 0.0020 |
| 81.1 | 100 | | | | | | | | | | 81.1 | | | 80.5 | 84.0 | 11624 | 0.06 | 0.00 | 0.0018 |
| 84.1 | 100 | | | | | | | | | | | | | 84.0 | 87.5 | 11625 | 0.09 | 0.00 | 0.0018 |
| 87.2 | 100 | | | | | | | | | | | | | 87.5 | 91.0 | 11626 | 0.07 | 0.00 | 0.0020 |
| 90.2 | 100 | | | | | | | | | | 88.4 | | | 91.0 | 94.5 | 11627 | 0.07 | 0.00 | 0.0015 |
| 93.3 | 100 | 89.0 | 196.7 | BBFP | | | | BBFP (292-645.5) | | | | | | 94.5 | 98.1 | 11628 | 0.13 | 0.00 | 0.0029 |
| 96.3 | 100 | | | | 89.0 | 110.9 | C5--k< | 292-431:Med to dk gy grdmass with crowd-ed pale gy FSP + dk brwn BT phenos. I-diss dk brwn 2nd BT. W-qz vnlts with ser alt'n halos. | 292-326: Py, diss>>strs | 4-6 | | | | 98.1 | 101.6 | 11629 | 0.06 | 0.00 | 0.0020 |
| 99.4 | 100 | | | | | | | | | | 98.8 | | | 98.1 | 101.6 | 11629 | 0.06 | 0.00 | 0.0020 |
| 102.4 | 100 | | | | | | | | | | | | | 101.6 | 105.1 | 11630 | 0.03 | 0.00 | 0.0020 |
| 105.5 | 100 | | | | | | | | | | | | | 105.1 | 108.6 | 11631 | 0.06 | 0.00 | 0.0026 |
| 108.5 | 100 | | | | 110.9 | 131.4 | C5Z-M= | (364-439) M to i-Si. Only loc qz vnlts + ser halos are greatly reduced. | | | 110.0 | | | 108.6 | 112.2 | 11632 | 0.05 | 0.00 | 0.0018 |
| 111.6 | 100 | | | | | | | | | | | | | 112.2 | 115.7 | 11633 | 0.04 | 0.00 | 0.0012 |
| 114.6 | 100 | | | | | | | | | | | | | 115.7 | 119.2 | 11634 | 0.04 | 0.00 | 0.0009 |
| 117.7 | 100 | | | | | | | | | | | | | | | | | | |
| 120.7 | 100 | | | | | | | | | | | | | 119.2 | 122.7 | 11635 | 0.04 | 0.00 | 0.0009 |
| 123.7 | 100 | | | | | | | | | | 125.6 | | | 122.7 | 126.2 | 11636 | 0.05 | 0.00 | 0.0009 |
| 126.8 | 100 | | | | | | | | | | | | | 126.2 | 129.8 | 11637 | 0.10 | 0.00 | 0.0012 |
| 129.8 | 100 | | | | | | | (424-431) Rk darkens slightly. | | | | | | 129.8 | 133.3 | 11638 | 0.03 | 0.00 | 0.0009 |
| 132.9 | 100 | | | | 131.4 | 196.7 | CNg-M< | 431-645.5: Much as @292', but grdmass is blk. Loc gypsum + qz vnlts. M-Si. | 431-506: Py, diss+blebs>>strs. | 3-4 | | 132.3 | | 133.3 | 136.8 | 11639 | 0.05 | 0.00 | 0.0012 |
| 135.9 | 100 | | | | | | | | | | | | | 136.8 | 140.3 | 11640 | 0.18 | 0.00 | 0.0015 |
| 139.0 | 100 | | | | | | | | | | 141.7 | | | | | | | | |
| 142.0 | 100 | | | | | | | | | | | | | 140.3 | 143.8 | 11641 | 0.16 | 0.00 | 0.0018 |
| 145.1 | 100 | | | | | | | | | | | | | 143.8 | 147.3 | 11642 | 0.03 | 0.00 | 0.0012 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-22 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|-----------------------------|-----|-------|------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 148.1 | 100 | | | | | | | | | | | | | 147.3 | 150.9 | 11643 | 0.02 | 0.00 | 0.0009 |
| 151.2 | 100 | | | | | | | | | | | | | 150.9 | 154.4 | 11644 | 0.05 | 0.00 | 0.0012 |
| 154.2 | 100 | | | | | | | | 506-607:Py>>cp, diss>strs. | 2-3 | | | | 154.4 | 157.9 | 11645 | 0.05 | 0.00 | 0.0015 |
| 157.3 | 100 | | | | | | | | M to i-diss mag. | | 156.7 | | | 157.9 | 161.4 | 11646 | 0.08 | 0.00 | 0.0015 |
| 160.3 | 100 | | | | | | | | | | | | | 161.4 | 165.0 | 11647 | 0.12 | 0.00 | 0.0018 |
| 163.4 | 100 | | | | | | | | | | | | | | | | | | |
| 166.4 | 100 | | | | | | | | | | | | | 165.0 | 168.5 | 11648 | 0.07 | 0.00 | 0.0012 |
| 169.5 | 100 | | | | | | | | | | 166.7 | | | 168.5 | 172.0 | 11649 | 0.06 | 0.00 | 0.0009 |
| 172.5 | 100 | | | | | | | | | | | | | 172.0 | 175.5 | 11650 | 0.05 | 0.00 | 0.0018 |
| 175.6 | 100 | | | | | | | | | | | | | 175.5 | 179.0 | 11651 | 0.06 | 0.00 | 0.0012 |
| 178.6 | 100 | | | | | | | | | | 176.2 | | | 179.0 | 182.5 | 11652 | 0.08 | 0.00 | 0.0012 |
| 181.7 | 100 | | | | | | | | | | | | | 182.5 | 186.0 | 11653 | 0.13 | 0.00 | 0.0015 |
| 184.7 | 100 | | | | | | | | | | | | | | | | | | |
| 187.8 | 100 | | | | | | | | 607-645.5: Py>>cp, diss>> | 3-4 | | | | 186.0 | 189.6 | 11654 | 0.11 | 0.00 | 0.0015 |
| 190.8 | 100 | | | | | | | | strs. Loc mag. | | 188.1 | | | 189.6 | 193.1 | 11655 | 0.13 | 0.00 | 0.0015 |
| 193.9 | 100 | 196.7 | 214.3 | VOLC | | | | VOLC (645.5-703) | | | | | | 193.1 | 196.6 | 11656 | 0.10 | 0.00 | 0.0009 |
| 196.9 | 100 | | | | 196.7 | 201.6 | VBS-A> | 645.5-661.5: Mottled patchy texture, loc | 645.5-661.5: Py>>cp, str> | 2-3 | 196.9 | | | 196.6 | 200.1 | 11657 | 0.14 | 0.00 | 0.0180 |
| 199.9 | 100 | | | | | | | visible bx frags. Abrupt, irregular con- | diss | | | | | 200.1 | 203.7 | 11658 | 0.10 | 0.00 | 0.0009 |
| | | | | | | | | tact with BBFP @ mod angle to CA. Rk is | | | | | | | | | | | |
| | | | | | | | | blk with vague FSP(?) phenos + i-2nd BT. | | | | | | | | | | | |
| | | | | | | | | Patchy carb/ser loc bleaches rk + infill | | | | | | | | | | | |
| | | | | | | | | fractures. Patchy/bx intense above 653.5 | | | | | | | | | | | |
| | | | | | | | | loc patches + sections below. | | | | | | | | | | | |
| 203.0 | 100 | | | | 201.6 | 209.2 | V7B-k= | 661.5-686.5: Blk + aphanitic. W-qz/carb | 661.5-686.5: Py+-loc cp, | | | | | 203.7 | 207.2 | 11659 | 0.10 | 0.00 | 0.0015 |
| 206.0 | 100 | | | | | | | vnltls. | diss=strs | | 203.5 | | | | | | | | |
| 0.0 | | | | | 203.9 | 204.4 | -K--f | (669-670.7) I-K alt'n + crush along vnlt | | | | | | | | | | | |
| 0.0 | | | | | | | | + frac. | | | | | | 207.2 | 210.7 | 11660 | 0.20 | 0.00 | 0.0015 |
| | | | | | 208.5 | 209.0 | -K--f | (684-685.8) As above. | | | | | | | | | | | |
| 209.1 | 100 | | | | 209.2 | 214.3 | V7B-m< | 686.5-703: Abundant spots of 2nd BT give | 686.5-703: Py+-loc cp, diss | 3 | | | | | | | | | |
| 212.1 | 100 | | | | | | | speckled texture to most of rk. Loc apha | >>strs | | 210.9 | | | 210.7 | 214.2 | 11661 | 0.17 | 0.00 | 0.0012 |
| | | | | | | | | nitic. Possibly mixed BBFP + volc. | | | | | | | | | | | |
| | | 214.3 | 289.9 | BBFP | | | | BBFP (703-951) | | | | | | | | | | | |
| 214.6 | 100 | | | | 214.3 | 220.7 | C7ZMm< | 703-724: Blk, m to i-Si'd BBFP with loc | 703-785: Py>>cp, diss>strs. | 2-3 | | | | 214.2 | 217.7 | 11662 | 0.15 | 0.00 | 0.0015 |
| 218.2 | 100 | | | | | | | white qz/carb vnltls. | Patchy m to i-mag. | | | | | 217.7 | 221.3 | 11663 | 0.13 | 0.00 | 0.0023 |

| | |
|----------------------|------------------------------------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) |
| PERM DDH#: G90-23 | ===== |
| TEMP DDH#: G90-AF | |
| ===== | |
| GEOLOGIST: R VERZOSA | NORTHING: 3169.9 AZIMUTH: 270 |
| | EASTING: 3611.9 DIP: -45 |
| | ELEVATION: 594.4 LENGTH: 304.8 |
| | ===== |
| COL. DATE: 90/11/12 | SURVEY COORDINATES (Metric) |
| EOH DATE: 90/11/14 | ===== |
| | |
| DRILL#: 38-14 | NORTHING: 3169.8 AZIMUTH: 271.12 |
| CORE SIZE: NQ | EASTING: 3612.4 DIP: -45 |
| | ELEVATION: 596.2 LENGTH: 331.3 |
| | ===== |
| COMMENTS | DOWNHOLE SURVEY METHOD: SPERRY SUN |
| ===== | ===== |
| | |
| | DEPTH AZIMUTH DIP |
| | ---- |
| | 1: 26.5 280 -45.5 |
| | 2: 139.3 281 -46 |
| | 3: 224.6 281 -45.5 |
| | 4: 279.5 278 -45 |
| | 5: 334.4 279 -45 |
| | 6: |
| | 7: |
| | 8: |
| | 9: |
| | 10: |
| | ===== |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-23 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|------|------|----------|------|--------|--|-----------------------------|------|------|------|-------------|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | 0.0 | 3.7 | CASE | 0.0 | 3.7 | | | | | | | | | | | | | |
| 3.7 | 0 | 3.7 | 54.8 | VOLC | 3.7 | 54.8 | VCGMA= | Casing | | | | | | 3.0 | 6.9 | 11681 | 0.20 | 0.00 | 0.0026 |
| 5.5 | 30 | | | | | | | VOLC 0-179.8 | 0-179.8 | | | | | | | | | | |
| 7.9 | 60 | | | | | | | chlorite alt'd intermediate tuffs/flows | Highly variable. OA 2-3% sx | | | | | 6.9 | 11.2 | 11682 | 0.15 | 0.00 | 0.0023 |
| 10.1 | 85 | | | | | | | Int crackled and prop alt'd. Abund't | cp=py generally diss=frxr | | | | | | | | | | |
| 11.3 | 100 | | | | | | | carb & gyp vnlt. Local clay alt'n | large blebs/vnlt. in mg-chl | | | | | 11.2 | 15.5 | 11683 | 0.25 | 0.00 | 0.0020 |
| 14.3 | 100 | | | | | | | fg-aphanitic buff-grey-green.mod silic'n | flooded areas. | 13.7 | 14.3 | | | | | | | | |
| 17.4 | 100 | | | | | | | Very mottled and colors grade . | | | | | | 15.5 | 19.9 | 11684 | 0.63 | 0.02 | 0.0032 |
| 20.4 | 100 | | | | | | | chl 5% to 80%. Mg patchy, from 2% to | | | | | | 19.9 | 24.2 | 11685 | 0.18 | 0.00 | 0.0020 |
| 23.5 | 100 | | | | | | | flooding up to 15" of core. | | | | | | 24.2 | 28.5 | 11686 | 0.13 | 0.00 | 0.0029 |
| 26.5 | 100 | | | | | | | Rare Ksp w/ chl flooding. | | | | | | | | | | | |
| 29.6 | 100 | | | | | | | (12-27) Broken & blocky (blaaast damage) | | | | | | 28.5 | 32.8 | 11687 | 0.17 | 0.00 | 0.0026 |
| 32.6 | 100 | | | | | | | | | 31.1 | | | | 32.8 | 37.1 | 11688 | 0.23 | 0.00 | 0.0029 |
| 35.7 | 100 | | | | | | | (52-58) Very vague ppy txtr. | | | | | | | | | | | |
| 38.7 | 100 | | | | | | | | | | | | | 37.1 | 41.4 | 11689 | 0.22 | 0.00 | 0.0020 |
| 41.8 | 100 | | | | | | | | | | | | | 41.4 | 45.7 | 11690 | 0.22 | 0.00 | 0.0009 |
| 44.8 | 100 | | | | | | | | | | | | | | | | | | |
| 47.9 | 100 | | | | | | | | | | | | | 45.7 | 50.0 | 11691 | 0.14 | 0.00 | 0.0020 |
| 50.9 | 100 | | | | | | | | | | | | | 50.0 | 54.3 | 11692 | 0.20 | 0.00 | 0.0020 |
| 53.9 | 100 | | | | | | | | | 52.1 | | | | 54.3 | 58.7 | 11693 | 0.23 | 0.00 | 0.0035 |
| 57.0 | 100 | | | | 54.8 | 55.5 | -k--F | 179.8-182.2 Fault Zone / Contact. | | | | | | | | | | | |
| 59.7 | 100 | | | | | | | rest clay alt'd, soft & friable. | | | | | | 58.7 | 63.0 | 11694 | 0.18 | 0.00 | 0.0041 |
| 62.8 | 100 | | | | | | | gouge & clay hi carb. | | | | | | 63.0 | 67.3 | 11695 | 0.18 | 0.00 | 0.0023 |
| 65.8 | 100 | | | | | | | | | 64.9 | | | | | | | | | |
| 68.9 | 100 | 55.5 | 80.5 | BBFP | 55.5 | 80.5 | CGqmkd | 182.2-264.0 BBFP | 182.2-264 | | | | | 67.3 | 71.6 | 11696 | 0.26 | 0.00 | 0.0026 |
| 71.9 | 100 | | | | | | | From above fault, grades within 3' into | 3-5% py>>cp py:cp 3:1 | | | | | 71.6 | 75.9 | 11697 | 0.26 | 0.00 | 0.0035 |
| 75.0 | 100 | | | | | | | prop alt'd, subvolc BBFP. <10% fsp, <10% | well ditributed well diss | | | 73.5 | | 75.9 | 80.2 | 11698 | 0.22 | 0.00 | 0.0035 |
| 78.3 | 100 | | | | | | | bt-hb phenos. dk grey-green grdmass | blebs to .1", frxrs unminz' | 78.6 | | | | | | | | | |
| 81.4 | 100 | | | | | | | 10% volc xenos, all shapes & sizes. | | | | | | 80.2 | 84.5 | 11699 | 0.14 | 0.00 | 0.0032 |
| 84.1 | 100 | | | | | | | Abund't qtz-carb+- gyp vnlt. +-chl rims | Patchy diss mg, invisible | 83.8 | | | | 84.5 | 88.8 | 11700 | 0.26 | 0.00 | 0.0035 |
| 87.5 | 100 | | | | | | | blotches and Qvn rims of fg 2nd biotite. | in dark matrix. | | | | | | | | | | |
| 88.7 | 100 | | | | | | | | | | | | | | | | | | |
| 90.5 | 100 | | | | | | | | | | | | | 88.8 | 93.1 | 11701 | 0.39 | 0.00 | 0.0047 |
| 93.6 | 100 | | | | | | | | | | | | | 93.1 | 97.4 | 11702 | 0.24 | 0.00 | 0.0032 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: 690-23 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 96.6 | 100 | 80.5 | 88.6 | TUFF | 80.5 | 88.6 | TNcmK= | VOLC 264.0-290.8 | 264.0-290.8 | | | | | 97.4 | 101.8 | 11703 | 0.45 | 0.00 | 0.0044 |
| 99.7 | 100 | | | | | | | Dk grey fg to aphanitic tuff/flow | 1-2% cp=py diss=frxr | | | | | | | | | | |
| 102.7 | 100 | | | | | | | mod-local int silic'n. crackled & healed | patchy diss mg | | 102.4 | | | 101.8 | 106.1 | 11704 | 0.37 | 0.00 | 0.0044 |
| 105.8 | 100 | | | | | | | by qvnlts w/ chl rims. Carb on open frxr | | | | | | 106.1 | 110.4 | 11705 | 0.32 | 0.00 | 0.0047 |
| 108.8 | 100 | | | | | | | Minor Ksp & blotchy chl w/ localized | | | | | | | | | | | |
| 111.9 | 100 | | | | | | | qtz flooding. Blotches and patches of | | | | | | 110.4 | 114.7 | 11706 | 0.36 | 0.00 | 0.0044 |
| 114.6 | 100 | | | | | | | fg 2nd Bt. OA hard & glassy. | | | | | | | | | | | |
| 116.4 | 100 | | | | | | | | | | | | | 114.7 | 119.0 | 11707 | 0.20 | 0.00 | 0.0032 |
| 118.0 | 100 | | | | | | | BBFP 290.8-363.3 | | | | | | | | | | | |
| 121.0 | 100 | 88.6 | 110.7 | BBFP | 88.6 | 110.7 | CGcmKd | As above 182.2-264.0 | | | 118.9 | 120.4 | | 119.0 | 123.3 | 11708 | 0.21 | 0.00 | 0.0038 |
| 124.1 | 100 | | | | | | | | | | | | | 123.3 | 127.6 | 11709 | 0.33 | 0.00 | 0.0050 |
| 127.1 | 100 | | | | | | | VOLC 363.3-503.0 | 363.3-503 | | | | | 127.6 | 131.9 | 11710 | 0.21 | 0.00 | 0.0044 |
| 130.1 | 100 | 110.7 | 153.3 | TUFF | 110.7 | 153.3 | TNcmK= | As above 264.0-290.8 | OA 1% sx, more irregularly | | | | | | | | | | |
| 133.2 | 100 | | | | | | | | distributed than above inte | | | | | | | | | | |
| 133.8 | 100 | | | | | | | (411.0-428.6) BBFP Alt'd dyke??? | | | | | | 131.9 | 136.2 | 11711 | 0.37 | 0.00 | 0.0041 |
| 136.2 | 100 | | | | | | | Med-grey, INT 2nd bt, blotchy, obliterated | | | | | | 136.2 | 140.6 | 11712 | 0.34 | 0.00 | 0.0044 |
| 139.3 | 100 | | | | | | | most ppy txtrs. patches of retro chl | | | 137.5 | | | | | | | | |
| 142.3 | 100 | | | | | | | with bt. Appears unmineralized. | | | | | | 140.6 | 144.9 | 11713 | 0.37 | 0.00 | 0.0038 |
| 145.4 | 100 | | | | | | | | | | | | | 144.9 | 149.2 | 11714 | 0.27 | 0.00 | 0.0044 |
| 148.4 | 100 | | | | 148.6 | 149.3 | -cl-F | (487.4-489.8) Fault zone | | | | | | 149.2 | 153.5 | 11715 | 0.32 | 0.00 | 0.0044 |
| 151.5 | 100 | | | | | | | crushed, sheared core, chl-carb gouge | | | | | | | | | | | |
| 154.5 | 100 | | | | | | | | | | | | | 153.5 | 157.8 | 11716 | 0.48 | 0.00 | 0.0064 |
| 157.6 | 100 | 153.3 | 331.3 | BBFP | 153.3 | 208.8 | C5oma< | BBFP 503.0-850.4 | 503.0-850.4 | | 155.4 | | | 157.8 | 162.1 | 11717 | 0.43 | 0.00 | 0.0061 |
| 160.6 | 100 | | | | | | | med grey, v int 2nd bt obscuring ppy txt | OA 1-2% cp usually well dis | | | | | | | | | | |
| 163.7 | 100 | | | | | | | rock is mottled, but fairly consistent | some frxr/blebs | | | | | 162.1 | 166.4 | 11718 | 0.32 | 0.00 | 0.0044 |
| 166.7 | 100 | | | | | | | composition thru interval. Local retro | minor py, tr mo | | | | | 166.4 | 170.7 | 11719 | 0.40 | 0.00 | 0.0093 |
| 169.8 | 100 | | | | | | | chl and patchy silic'n w/ Ksp. | locally 5% cp v well diss | | 172.8 | 172.5 | | | | | | | |
| 172.5 | 100 | | | | | | | Ksp also present w/ vnltts & blebs of mg | | | | | | 170.7 | 175.0 | 11720 | 0.52 | 0.00 | 0.0052 |
| 175.9 | 100 | | | | | | | Pervasive chl, replacing bt, Fsp, rimmin | veins & blebs of mg-hm | | | | | 175.0 | 179.3 | 11721 | 0.75 | 0.00 | 0.0044 |
| 178.3 | 100 | | | | | | | qvnlts, clots, and chltizing grdmass. | some flooding | | | | | | | | | | |
| 181.4 | 100 | | | | | | | Rare (1 per box) volc xenos, all | | | | | | 179.3 | 183.7 | 11722 | 0.57 | 0.00 | 0.0061 |
| 184.4 | 100 | | | | | | | shapes & sizes. | | | | | | 183.7 | 188.0 | 11723 | 0.78 | 0.00 | 0.0154 |
| 186.8 | 100 | | | | | | | | | | 185.9 | | | | | | | | |
| 188.1 | 100 | | | | 208.8 | 231.6 | C3oma< | (685.0-760.0) | | | | | | 188.0 | 192.3 | 11724 | 0.89 | 0.00 | 0.0212 |

| | | | |
|--|------------------------------------|----------------|-------|
| PROPERTY: GRANISLE PERM DDH#: G90-24 TEMP DDH#: G90-AE | FIELD COORDINATES (Metric) | | |
| ===== | | | |
| | NORTHING: 3169.9 | AZIMUTH: 090 | |
| | EASTING: 3072.4 | DIP: -45 | |
| | ELEVATION: 675.1 | LENGTH: 0.2 | |
| ===== | | | |
| GEOLOGIST: A.J.Pardoe | SURVEY COORDINATES (Metric) | | |
| ===== | | | |
| COL. DATE: 90/11/14 | NORTHING: 3169.7 | AZIMUTH: 89.93 | |
| EOH DATE: 90/11/17 | EASTING: 3071.0 | DIP: -45 | |
| DRILL#: 44-5 | ELEVATION: 678.6 | LENGTH: 428.5 | |
| CORE SIZE: NQ | ===== | | |
| COMMENTS | DOWNHOLE SURVEY METHOD: SPERRY SUN | | |
| ===== | ===== | | |
| Cp (possible low grade?) @ 250' in BBFP | DEPTH | AZIMUTH | DIP |
| 322.5-550: Volc? with low grade, becoming high grade below 460'. | ---- | ---- | ---- |
| 530-1313: mod to loc high grade in BBFP | 1: | | |
| 1313-1391.5: Waste(?) in BBFP | 2: 169.5 | 110 | -45 |
| 1391.5-1406: High grade in subvolc intrusive/volc. | 3: 236.5 | 098 | -44.5 |
| | 4: 300.5 | 090 | -44 |
| | 5: 348.4 | 088 | -43 |
| | 6: 428.5 | 094 | -44 |
| | 7: | | |
| | 8: | | |
| | 9: | | |
| | 10: | | |
| ===== | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-24 | Final Date: 91/01/18 | | | | | SAMPLE DATA | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|---|--|-----------|------|-------|-----|-------------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | | | | | | | inent white FSP phenos. FSP tend to be rectangular + no BT phenos are visible. | strs. Loc mag/hem patches. | | | | | | | | | | |
| 90.2 | 100 | | | | | | | Massive with w to loc qz vnlt. | | | | | | 89.0 | 93.3 | 11780 | 0.22 | 0.00 | 0.0017 |
| 93.3 | 100 | | | | | | | (297.5-301.5) Med to dk gy, crowded BBFP | | | 92.2 | | | 93.3 | 97.6 | 11781 | 0.24 | 0.00 | 0.0029 |
| 96.3 | 100 | | | | | | | dyke. 3/4" to 2" wide qz str @ contacts @15 to 20 deg to CA. | | | | 0.0 | | | | | | | |
| 0.0 | | | | | | | | (314-322.5) Phenos blurred, loc volc? | | | | | | | | | | | |
| 0.0 | | | | | | | | Prob mixed porphyry + volc. | | | | | | | | | | | |
| 0.0 | | 98.3 | 161.5 | VOLC | | | | VOLC? (322.5-530) | | | | | | | | | | | |
| 99.4 | 100 | | | | 98.3 | 110.9 | VBz-md | 322.5-364: Blk, i-diss 2nd BT. Loc aphanitic, generally vaguely porphyritic to chaotic, splotchy texture. V loc bx/xeno | 322.5-460: Py>=cp, diss>>> strs. Loc mag/hem spots. | 2-3 | 99.2 | | | 97.6 | 101.9 | 11782 | 0.36 | 0.00 | 0.0023 |
| 102.4 | 100 | | | | | | | Compact, well indurated, w-Si, loc qz vnlt. | | | | | | 101.9 | 106.2 | 11783 | 0.24 | 0.00 | 0.0035 |
| 105.5 | 100 | | | | | | | Loc dykes of BBFP as @250'. Vague contacts. | | | | | | 106.2 | 110.5 | 11784 | 0.30 | 0.00 | 0.0020 |
| 108.5 | 100 | | | | | | | | | | | 109.7 | | | | | | | |
| 111.6 | 100 | | | | 110.9 | 140.2 | VNq-Ad | 364-460: Much as above, but less porphyry texture. Generally splotchy texture caused by lt gy pervassive qz + patchy 2nd BT. M to i-Si, w-qz vnlt. Patchy lt gy, loc pale salmon tones. | | | | | | 110.5 | 114.8 | 11785 | 0.20 | 0.00 | 0.0029 |
| 114.6 | 100 | | | | | | | | | | | | | 114.8 | 119.1 | 11786 | 0.19 | 0.00 | 0.0029 |
| 117.7 | 100 | | | | | | | | | | | | | | | | | | |
| 120.7 | 100 | | | | | | | | | | | | | 119.1 | 123.5 | 11787 | 0.17 | 0.00 | 0.0026 |
| 123.7 | 100 | | | | | | | | | | | | | 123.5 | 127.8 | 11788 | 0.22 | 0.00 | 0.0038 |
| 126.8 | 100 | | | | | | | | | | | | | | | | | | |
| 129.8 | 100 | | | | | | | | | | | | | | | | | | |
| 0.0 | | | | | | | | (427-439) Same splotchy, clouded texture as @364', but rk is dominantly blk. W-qz vnlt, m to i-Si, i-2nd BT. | | | | | | 127.8 | 132.1 | 11789 | 0.23 | 0.00 | 0.0032 |
| 132.9 | 100 | | | | | | | | | | | | | 132.1 | 136.4 | 11790 | 0.27 | 0.00 | 0.0020 |
| 135.9 | 100 | | | | | | | | | | | | | 136.4 | 140.7 | 11791 | 0.27 | 0.00 | 0.0032 |
| 139.0 | 100 | | | | | | | | | | | | | | | | | | |
| 0.0 | | | | | 140.2 | 161.5 | VNqMkd | 460-467: Blk BBFP with large, prominent white FSP phenos + loc Blk BT phenos. | 460-530: Cp>py, vfg diss + blebs>>>strs. M to i-diss mag | 3 to loc4 | | | | 140.7 | 145.0 | 11792 | 0.23 | 0.00 | 0.0017 |
| 142.0 | 100 | | | | | | | 467-530: Blk Volc/highly alt'd BBFP? Fg to mg, with vague crowded FSP phenos? | | | | | | | | | | | |
| 145.1 | 100 | | | | | | | I-diss blk 2nd BT, m to i-Si, w-gyp + w to loc qz vnlt. Massive. "Phenos" are likely a textural feature where qz-rich matrix exposed between i-2nd BT gives | | | | | | 145.0 | 149.3 | 11793 | 0.30 | 0.00 | 0.0026 |
| 148.1 | 100 | | | | | | | | | | | | | | | | | | |
| 151.2 | 100 | | | | | | | | | | | | | 149.3 | 153.6 | 11794 | 0.66 | 0.00 | 0.0070 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: 690-24 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 154.2 | 100 | | | | | | | the appearance of vague FSP phenos. (507-530) Patchy lt gy + loc salmon bleaching, generally occurring as wide alt'n halos of qz vnlt. W to loc m-qz vnlt. | | | | | | 153.6 | 157.9 | 11795 | 0.42 | 0.00 | 0.0044 |
| 157.3 | 100 | | | | | | | | | | | | | 157.9 | 162.2 | 11796 | 0.66 | 0.00 | 0.0064 |
| 160.3 | 100 | 161.5 | 428.5 | BBFP | | | | BBFP (530-956) | | | | | | | | | | | |
| 163.4 | 100 | | | | 161.5 | 181.1 | CNgmK< | 530-631.5: Dk to loc med gy BBFP with crowded lt gy to loc white FSP + blk BT phenos. Phenos loc blurred but still identifiable. M to i-Si, w-qz vnlt. (530-587) W-gyp + w-qz vnlt. (587-594) Phenos are less crowded + FSP are larger (up to 6mm dia) + more promin ent. | 530-631.5:Cp>py, diss>>strs | 2-3 | 161.2 | | | 162.2 | 166.6 | 11797 | 0.35 | 0.00 | 0.0038 |
| 166.4 | 100 | | | | | | | | | | 166.4 | | | 166.6 | 170.9 | 11798 | 0.35 | 0.00 | 0.0032 |
| 169.5 | 100 | | | | | | | | | | | | | 170.9 | 175.2 | 11799 | 0.36 | 0.00 | 0.0041 |
| 175.6 | 100 | | | | | | | | | | | | | 175.2 | 179.5 | 11800 | 0.46 | 0.00 | 0.0050 |
| 178.6 | 100 | | | | | | | | | | 175.9 | | | 179.5 | 183.8 | 11801 | 0.64 | 0.00 | 0.0067 |
| 181.7 | 0.0 | | | | 181.1 | 202.4 | CNqhk< | (594-605) Patchy m-bleach/ser. M-qz stwk M-qz/ser alt'n. Loc larger FSP? as above (605-631.5) W to m-qz vnlt. | (594-605) Cp>py, diss>>strs | 3-4 | | | | | | | | | |
| 184.7 | 100 | | | | | | | | | | 182.9 | | | 183.8 | 188.1 | 11802 | 0.60 | 0.00 | 0.0061 |
| 187.8 | 100 | | | | | | | | | | | | | 188.1 | 192.4 | 11803 | 0.72 | 0.00 | 0.0076 |
| 190.8 | 100 | | | | | | | | | | | | | | | | | | |
| 193.9 | 100 | | | | | | | 631.5-664: Dk gy BBFP, mg crowded por- phry with approx. 40% of section w to m- bleached/ser'd. W to m-qz str. | 631.5-664: Cp>>py, diss> | 3-4 | 193.9 | | | 192.4 | 196.7 | 11804 | 0.56 | 0.00 | 0.0073 |
| 196.9 | 100 | | | | | | | | | | | | | 196.7 | 201.0 | 11805 | 0.72 | 0.02 | 0.0067 |
| 199.9 | 100 | | | | | | | | | | | | | | | | | | |
| 203.0 | 100 | | | | 202.4 | 212.8 | C7--kd | 664-698: Dk gy, mg BBFP with approx. 15% tuff xenos (up to 2'width.) W to m-qz strs. Loc short bleached sections. | 664-698: Cp>>py, diss>>> | -1 | | | | 201.0 | 205.4 | 11806 | 1.04 | 0.00 | 0.0047 |
| 206.0 | 100 | | | | | | | | | | 205.4 | 205.1 | | 205.4 | 209.7 | 11807 | 0.57 | 0.00 | 0.0023 |
| 209.1 | 100 | | | | | | | | | | | | | 209.7 | 214.0 | 11808 | 0.58 | 0.00 | 0.0038 |
| 212.1 | 100 | | | | 212.8 | 225.9 | C5Zmk= | 698-787: Med gy, fg to mg crowded BBFP. BT phenos are clear but FSP blur into grdmass. I-Si, i-2nd BT, w to m-qz str. | | | | | | | | | | | |
| 0.0 | | | | | | | | (698-719) Fg BBFP is cut by vfg, dk gy BBFP (phenos visible, but blurred). Vfg dykes are 55% of section. | 698-719: Cp, diss>strs. Loc | 3 | | | | 214.0 | 218.3 | 11809 | 0.43 | 0.00 | 0.0032 |
| 215.2 | 100 | | | | | | | | | | | | | 214.0 | 218.3 | 11810 | 0.63 | 0.00 | 0.0038 |
| 218.2 | 100 | | | | | | | | | | | | | | | | | | |
| 221.3 | 100 | | | | | | | (719-725.2) Cg BBFP dyke. Sharp contacts (734-741) W to loc i-bleached. Loc i-qz stwk. Qz/ser + loc i-K alt'n. | 719-734: Cp, str>diss. V | 2 | | | | | | | | | |
| 224.3 | 100 | | | | | | | | | | | | | 222.6 | 226.9 | 11811 | 0.41 | 0.00 | 0.0044 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-24 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|--|-----|-------|------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 227.4 | 100 | | | | 225.9 | 242.6 | C5Zmk< | (741-754.5) Approx 10% small, rounded tuff? xenos. | 741-787: Cp, diss>strs M to i-diss mag. | 2-3 | 224.6 | | | 226.9 | 231.2 | 11812 | 0.58 | 0.00 | 0.0064 |
| 230.4 | 100 | | | | | | | | | | | | | 231.2 | 235.5 | 11813 | 0.46 | 0.00 | 0.0040 |
| 233.5 | 100 | | | | | | | | | | 232.3 | | | | | | | | |
| 236.5 | 100 | | | | | | | (779-787) Several cg BBFP dykes cut unit | | | | | | 235.5 | 239.8 | 11814 | 0.68 | 0.02 | 0.0064 |
| 239.6 | 100 | | | | | | | 787-796: Cg BBFP with loc sections of fg to mg BBFP. W to m-qz stwk/strs. | 787-796: Cp, strs>diss. M to i-diss mag. | 2 | 237.4 | | | 239.8 | 244.1 | 11815 | 0.44 | 0.00 | 0.0023 |
| 0.0 | | | | | | | | | | | | | | | | | | | |
| 242.6 | 100 | | | | 242.6 | 252.8 | CNGMks | 796-829.5: BBFP#2? Dk gy aphanitic grd-mass with scattered FSP + BT phenos. I-diss 2nd BT, w to m-qz strs, i-Si. Loc cg BBFP xenos (especially near upper con-tact. Loc gyp vnlts. | 796-1108: Cp, in qz strs. M to i-mag. Loc blebs of cp in qz vnlts. | <=1 | 242.6 | Loc2 | 0.0 | | | | | | |
| 0.0 | 100 | | | | | | | | | | | | | 244.1 | 248.5 | 11816 | 0.28 | 0.00 | 0.0020 |
| 245.7 | 100 | | | | | | | | | | | | | 248.5 | 252.8 | 11817 | 0.31 | 0.00 | 0.0020 |
| 248.7 | 100 | | | | | | | | | | 247.8 | | | | | | | | |
| 251.8 | 100 | | | | | | | | | | | | | | | | | | |
| 254.8 | 100 | | | | 252.8 | 291.4 | CNGMms | 829.5-956 : Dk gy, crowded BBFP. White, cg FSP + blk BT phenos. W to loc white qz vnlts. I-dk brwn 2nd BT + i-Si. Weak gyp vnlts x-cut qz vnlts. | | | | | | 252.8 | 257.1 | 11818 | 0.28 | 0.00 | 0.0011 |
| 257.9 | 100 | | | | | | | | | | | | | 257.1 | 261.4 | 11819 | 0.34 | 0.00 | 0.0029 |
| 260.9 | 100 | | | | | | | | | | 260.8 | | | 261.4 | 265.7 | 11820 | 0.27 | 0.00 | 0.0023 |
| 264.0 | 100 | | | | | | | | | | 264.0 | | | | | | | | |
| 267.0 | 100 | | | | | | | (863-871) W to loc i-K alt'n of FSP xls + along strs. | | | | | | 265.7 | 270.0 | 11821 | 0.18 | 0.00 | 0.0017 |
| 270.1 | 100 | | | | | | | | | | | | | 270.0 | 274.3 | 11822 | 0.12 | 0.00 | 0.0011 |
| 273.1 | 100 | | | | | | | | | | | | 271.9 | | | | | | |
| 276.1 | 100 | | | | | | | | | | | | | 274.3 | 278.6 | 11823 | 0.19 | 0.00 | 0.0020 |
| 279.2 | 100 | | | | | | | | | | 276.8 | | | 278.6 | 282.9 | 11824 | 0.12 | 0.00 | 0.0009 |
| 282.2 | 100 | | | | | | | | | | | | | 282.9 | 287.3 | 11825 | 0.14 | 0.00 | 0.0009 |
| 285.3 | 100 | | | | | | | | | | | | | | | | | | |
| 288.3 | 100 | | | | | | | | | | | | | | | | | | |
| 291.4 | 100 | | | | 291.4 | 311.5 | CNGMIs | 956-1022: BBFP#2 (diorite?). V dk gy grd-mass with i-diss dk brwn to blk 2nd BT. Mod scattered white FSP + loc BT phenos, overall less crowded + more indistinct than cg BBFP above. Loc xenos of cg BBFP W-gyp vnlts, i-Si, loc white qz vnlts. Unit is dyke, reasonably sharp contacts. (985.2-994) Cg BBFP as above 956'. | | | | | | 286.8 | 291.6 | 11826 | 0.19 | 0.00 | 0.0009 |
| 294.4 | 100 | | | | | | | | | | | | | 291.6 | 295.9 | 11827 | 0.13 | 0.00 | 0.0003 |
| 297.5 | 100 | | | | | | | | | | 296.9 | | | 295.9 | 300.2 | 11828 | 0.17 | 0.00 | 0.0006 |
| 300.5 | 100 | | | | | | | | | | | | | 300.2 | 304.5 | 11829 | 0.20 | 0.00 | 0.0009 |
| 303.6 | 100 | | | | | | | | | | | | | | | | | | |
| 306.6 | 100 | | | | | | | | | | 306.6 | | | 304.5 | 308.8 | 11830 | 0.18 | 0.00 | 0.0009 |
| 309.7 | 100 | | | | | | | | | | | | | 308.8 | 313.1 | 11831 | 0.14 | 0.00 | 0.0017 |
| 312.7 | 100 | | | | | | | | | | | | | | | | | | |
| 315.8 | 100 | | | | 311.5 | 428.5 | CNKMks | 1022-1108: V dk gy cg BBFP as @829.6', but gyp vnlts are more loc. I-Si + w-qz strs/vnlts. | | | | | | 313.1 | 317.4 | 11832 | 0.31 | 0.02 | 0.0032 |
| 318.8 | 100 | | | | | | | | | | | | | 317.4 | 321.7 | 11833 | 0.43 | 0.00 | 0.0026 |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-24 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|-------|--|-------------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 321.9 | 100 | | | | | | | (1046.6-1053.3) I-K alt'n of gyp vnlt+ locally of FSP xls. | | | | | | 321.7 | 326.0 | 11834 | 0.45 | 0.02 | |
| 324.9 | 100 | | | | | | | | | | | | | | | | | | |
| 328.0 | 100 | | | | | | | (1063.5-1067.8) M to i-bleach, i-K alt'n of FSP xls. | | | 325.4 | | | 326.0 | 330.4 | 11835 | 0.36 | 0.00 | |
| 331.0 | 100 | | | | | | | | | | | | | 330.4 | 334.7 | 11836 | 0.30 | 0.00 | |
| 334.1 | 100 | | | | | | | (1079.1-1079.8) As above | | | | | | 334.7 | 339.0 | 11837 | 0.26 | 0.00 | |
| 337.1 | 100 | | | | | | | (1097-1097.7) As above. | | | | | | | | | | | |
| 340.2 | 100 | | | | | | | 1108-1313: As @1022, but w to m-qz stwk. | 1108-1313: Cp in qz stwk. | 2 | 338.3 | | | 339.0 | 343.3 | 11838 | 0.54 | 0.00 | |
| 343.2 | 100 | | | | | | | M to i-diss mag. Tr bo in qz str. | | | | | | 343.3 | 347.6 | 11839 | 0.49 | 0.00 | |
| 346.3 | 100 | | | | | | | | | | | 346.3 | | | | | | | |
| 349.3 | 100 | | | | 348.7 | 352.4 | -k--F | (1144-1156.2) W-fault zn. Several w to i-broken, crushed + i-K alt'd sections. | | | | | | 347.6 | 351.9 | 11840 | 0.35 | 0.00 | |
| 352.3 | 100 | | | | | | | | | | | | | 351.9 | 356.2 | 11841 | 0.25 | 0.00 | |
| 355.4 | 100 | | | | | | | | | | 353.6 | | | 356.2 | 360.5 | 11842 | 0.19 | 0.00 | |
| 358.4 | 100 | | | | | | | | | | | | | | | | | | |
| 361.5 | 100 | | | | | | | | | | | | | 360.5 | 364.8 | 11843 | 0.30 | 0.00 | |
| 364.5 | 100 | | | | | | | | | | 364.2 | | | 364.8 | 369.2 | 11844 | 0.30 | 0.00 | |
| 367.6 | 100 | | | | | | | | | | | | | | | | | | |
| 370.6 | 100 | | | | 371.6 | 371.9 | -k--f | (1219-1220) As above, loc bleach | | | | | | 369.2 | 373.5 | 11845 | 0.25 | 0.00 | |
| 373.7 | 100 | | | | | | | | | | | | | 373.5 | 377.8 | 11846 | 0.17 | 0.00 | |
| 376.7 | 100 | | | | | | | (1231-1232.5) I-K alt'd gyp vnlt + loc bleach. | | | | | | | | | | | |
| 379.8 | 100 | | | | | | | | | | 377.6 | | | 377.8 | 382.1 | 11847 | 0.28 | 0.00 | |
| 382.8 | 100 | | | | | | | | | | | | | 382.1 | 386.4 | 11848 | 0.21 | 0.00 | |
| 385.9 | 100 | | | | | | | | | | | | | 386.4 | 390.7 | 11849 | 0.25 | 0.00 | |
| 388.9 | 100 | | | | | | | | | | | | | | | | | | |
| 392.0 | 100 | | | | | | | | | | | | | 390.7 | 395.0 | 11850 | 0.17 | 0.00 | |
| 395.0 | 100 | | | | 394.1 | 394.4 | --k-f | (1293.1-1293.9) W-fault. Minor gouge, slickenside + broken rk. | | | 393.2 | | | 395.0 | 399.3 | 11851 | 0.09 | 0.00 | |
| 398.1 | 100 | | | | | | | | | | | | | | | | | | |
| 401.1 | 100 | | | | | | | 1313-1317: Cg BBFP as previously described but cut by dk gy BBFP#2 dykes | 1313-1391.5: Cp in qz str. <1 | | | | | 399.3 | 403.6 | 11852 | 0.10 | 0.00 | |
| 404.2 | 100 | | | | | | | | M to i-diss mag. | | | | | 403.6 | 407.9 | 11853 | 0.08 | 0.00 | |
| 407.2 | 100 | | | | | | | 1317-1391.5: Cg BBFP as @1022', but w-qz str + v loc gyp vnlt. | | | 406.6 | | | 407.9 | 412.3 | 11854 | 0.14 | 0.00 | |
| 410.3 | 100 | | | | | | | | | | | | | | | | | | |
| 413.3 | 100 | | | | | | | | | | | | | 412.3 | 416.6 | 11855 | 0.15 | 0.00 | |
| 416.4 | 100 | | | | 415.4 | 416.1 | --k-f | (1363-1365) W-fault. W-broken, m to i-K alt'n of FSP xls, loc slickensides. | | | 416.4 | 415.4 | | 416.6 | 420.9 | 11856 | 0.16 | 0.00 | |
| 419.4 | 100 | | | | | | | | | | | | | | | | | | |
| 422.5 | 100 | | | | | | | | | | | | | 420.9 | 425.2 | 11857 | 0.28 | 0.00 | |

| PROPERTY: GRANISLE PERM DDH#: G90-25 TEMP DDH#: G90-AJ | FIELD COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------|-------|---------|-----|--|------|------|------|----|------|-----|-----|----|-------|-----|-----|----|-------|-----|-------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| | NORTHING: 3230.9 AZIMUTH: 270 EASTING: 3642.4 DIP: -45 ELEVATION: 603.2 LENGTH: 243.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEOLOGIST: R Verzosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COL. DATE: 90/11/14 EOH DATE: 90/11/15 | SURVEY COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILL#: 38-14 CORE SIZE: NQ | NORTHING: 3230.7 AZIMUTH: 271.83 EASTING: 3643.7 DIP: -45 ELEVATION: 602.5 LENGTH: 239.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>----</th> <th>----</th> <th>----</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>96.6</td> <td>270</td> <td>-44</td> </tr> <tr> <td>2:</td> <td>175.9</td> <td>272</td> <td>-45</td> </tr> <tr> <td>3:</td> <td>239.9</td> <td>278</td> <td>-44.5</td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ---- | ---- | ---- | 1: | 96.6 | 270 | -44 | 2: | 175.9 | 272 | -45 | 3: | 239.9 | 278 | -44.5 | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ---- | ---- | ---- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 96.6 | 270 | -44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 175.9 | 272 | -45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 239.9 | 278 | -44.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-25 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | |
|--------|------|-------|-----------|------|-------|----------|--------|--|---------------------------|----------------------|-------|-------|-----|-------------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 98.8 | 100 | | | | | | | Interval heavily crackled & subsequently | | | 97.2 | 97.2 | | | | | | | |
| 99.7 | 100 | | | | | | | intensely clay alt'd-oxidized through | | | | | | 97.7 | 102.0 | 11882 | 0.72 | 0.00 | |
| 102.7 | 100 | | | | | | | 8" of gouge/clay @ 232' | | | | | | 102.0 | 106.4 | 11883 | 0.45 | 0.00 | |
| 105.8 | 100 | | | | | | | | | | | | | 106.4 | 110.7 | 11884 | 0.44 | 0.00 | |
| 108.8 | 100 | | | | 81.4 | 95.7 | TbzmYd | (267-314) Moderate blocky-broken core | | | | | | | | | | | |
| 111.9 | 100 | | | | | | | RQD about 15%, rock still fresh. | | | | | | 110.7 | 115.0 | 11885 | 0.33 | 0.00 | |
| 114.9 | 100 | | | | | | | | | | | | | 115.0 | 119.3 | 11886 | 0.38 | 0.00 | |
| 118.0 | 100 | | | | | | | | | | 116.4 | | | | | | | | |
| 121.0 | 100 | | | | 95.7 | 126.5 | TzBmkd | (340-357) Patches blotches of 2nd bt/mg | | | | | | 119.3 | 123.6 | 11887 | 0.24 | 0.00 | |
| 124.1 | 100 | | | | | | | over about 30-50% of cut core surface. | | | | | | 123.6 | 127.9 | 11888 | 0.38 | 0.00 | |
| 127.1 | 100 | | | | | | | | | | | | | 127.9 | 132.2 | 11889 | 0.51 | 0.00 | |
| 130.1 | 80 | | | | | | | (375-415) as above 340-357 | | | | | | | | | | | |
| 133.2 | 90 | | | | 126.5 | 157.0 | Tbzmkd | | | | | | | 132.2 | 136.6 | 11890 | 0.37 | 0.00 | |
| 135.9 | 100 | | | | | | | (423.5-428) Broken, blocky core. Fault | | | 134.7 | | | 136.6 | 140.8 | 11891 | 0.37 | 0.00 | |
| 139.0 | 100 | | | | | | | gouge/contact @ top 2", Oxidized/chl'd | | | | | | | | | | | |
| 142.0 | 100 | | | | | | | for last foot with slicks. | | | | | | 140.8 | 145.2 | 11892 | 0.49 | 0.00 | |
| 143.6 | 100 | | | | | | | | | | | | | | | | | | |
| 145.4 | 100 | | | | 131.2 | 131.6 | -CQ-F | (430.5-431.6) Fault. broken, sheared cor | | | | | | 145.2 | 149.5 | 11893 | 0.75 | 0.00 | |
| 148.4 | 100 | | | | | | | int qtz-ser-chl, well developed slicks. | | | 148.1 | 148.1 | | | | | | | |
| 151.5 | 100 | | | | | | | | | | | | | 149.5 | 153.8 | 11894 | 0.18 | 0.00 | |
| 154.2 | 100 | | | | | | | (451-461) As above 340-357 | | | | | | 153.8 | 158.1 | 11895 | 0.25 | 0.00 | |
| 157.3 | 100 | | | | | | | | | | | | | 158.1 | 162.4 | 11896 | 0.28 | 0.00 | |
| 160.3 | 100 | | | | 149.0 | 149.1 | -K--f | (489) Minor Fault. 3" of gouge/clay | | | 158.5 | | | | | | | | |
| 163.4 | 100 | | | | | | | Well developed slicks. | | | | | | 162.4 | 166.7 | 11897 | 0.26 | 0.00 | |
| 166.4 | 100 | | | | | | | | | | | | | 166.7 | 171.0 | 11898 | 0.18 | 0.00 | |
| 169.5 | 100 | | | | | | | (505-515) grades evenly into underlying | | | | | | | | | | | |
| 172.8 | 100 | | | | | | | BBFP unit. | | | | | | 171.0 | 175.3 | 11899 | 0.19 | 0.00 | |
| 175.9 | 100 | | | | | | | | | | 175.3 | | | 175.3 | 179.6 | 11900 | 0.27 | 0.00 | |
| 178.9 | 100 | 157.0 | 239.9 | BBFP | | | | BBFP 515-787 | 515-680 | | | | | 179.6 | 183.9 | 11901 | 0.45 | 0.00 | |
| 182.0 | 100 | | | | 157.0 | 207.3 | C7-Mk= | Dk charcoal grey grdmass, poorly formed | <1% py=cp | | | | | | | | | | |
| 185.0 | 100 | | | | | | | Fsp phenos, <15%, 10% mafic phenos. | diss=frxr, rare blebs. | | | | | 183.9 | 188.3 | 11902 | 0.29 | 0.00 | |
| 188.1 | 100 | | | | | | | At 515' rock is 'sub-volcanic' BBFP, | pervasive diss mg 2%????? | | | | | 188.3 | 192.6 | 11903 | 0.43 | 0.00 | |
| 190.8 | 100 | | | | | | | then evenly grading to 'intrusive' BBFP | | | 191.1 | | | | | | | | |
| 193.9 | 100 | | | | | | | around 597. DA composition is constant. | | | | | | 192.6 | 196.9 | 11904 | 0.26 | 0.00 | |

| | |
|--|---|
| PROPERTY: GRANISLE PERM DDH#: G90-26 TEMP DDH#: G90-AO | FIELD COORDINATES (Metric) ===== |
| ===== | NORTHING: 3291.8 AZIMUTH: 270 EASTING: 3645.4 DIP: -45 ELEVATION: 606.9 LENGTH: 182.9 |
| GEOLOGIST: R Verzosa | ===== |
| COL. DATE: 90/11/16 EOH DATE: 90/11/16 | SURVEY COORDINATES (Metric) ===== |
| DRILL#: 38-14 CORE SIZE: NQ | NORTHING: 3292.2 AZIMUTH: 274.92 EASTING: 3646.1 DIP: -45 ELEVATION: 607.2 LENGTH: 178.9 |
| ===== | ===== |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== |
| | DEPTH AZIMUTH DIP |
| | ----- ----- --- |
| | 1: 127.1 278 -46 |
| | 2: 178.9 281 -45.5 |
| | 3: |
| | 4: |
| | 5: |
| | 6: |
| | 7: |
| | 8: |
| | 9: |
| | 10: |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-26 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|------|-------|----------|------|--------|--|----------------------|------|------|------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | 0.0 | 3.0 | CASE | 0.0 | 3.0 | | CASING 0-10 | | | | | | | | | | | |
| 3.0 | 0 | 3.0 | 44.3 | TUFF | | | | VOLC 10-145.2 | 1-2% py=cp | | | | | 3.0 | 5.2 | 11916 | 0.20 | 0.00 | |
| 5.2 | 65 | | | | 3.0 | 38.1 | T7n-B= | Dark grey Andesite lapilli tuff | frxrs=diss | | | | | 5.2 | 9.5 | 11917 | 0.24 | 0.00 | |
| 8.2 | 100 | | | | | | | fg too aphanitic grdmass, clasts of | | | | | | | | | | | |
| 11.3 | 100 | | | | | | | various composition, subround to angular | | 11.6 | | | | 9.5 | 13.8 | 11918 | 0.22 | 0.00 | |
| 14.3 | 100 | | | | | | | Black patches of 2nd Bt and local bleach | | | | 13.7 | | 13.8 | 18.1 | 11919 | 0.24 | 0.00 | |
| 17.4 | 100 | | | | | | | and silic'n create a very mottled color | | | | | | 18.1 | 22.4 | 11920 | 0.26 | 0.00 | |
| 20.4 | 100 | | | | | | | | | | | | | | | | | | |
| 23.5 | 100 | | | | 20.2 | 21.1 | --K-F | {66.3-69.2} Fault Zone | | | | | | 22.4 | 27.3 | 11921 | 0.25 | 0.00 | |
| 26.5 | 100 | | | | | | | crushed, sheared core and gouge. | | 25.9 | | | | 27.3 | 31.0 | 11922 | 0.30 | 0.00 | |
| 29.6 | 100 | | | | | | | | | | | | | | | | | | |
| 32.6 | 100 | | | | | | | Locally light-mod silic'n, rare flooding | | | | | | 31.0 | 35.4 | 11923 | 0.29 | 0.00 | |
| 35.7 | 100 | | | | | | | | | | | | | 35.4 | 39.7 | 11924 | 0.49 | 0.02 | |
| 38.7 | 100 | | | | 38.1 | 44.3 | T3z-k= | At around 125' grades into massive | 125-145 <1% cp-py | | | | | | | | | | |
| 41.8 | 100 | | | | | | | khaki-lt grey ash tuff. Crackled and | | | | | | 39.7 | 44.0 | 11925 | 0.74 | 0.00 | |
| 44.8 | 100 | | | | | | | mottled, with bleaching and/or staining | | 42.7 | | | | 44.0 | 48.3 | 11926 | 0.79 | 0.00 | |
| 47.9 | 100 | | | | | | | around frxrs infilled w/ qtz-carb. | | | | | | 48.3 | 52.6 | 11927 | 0.70 | 0.02 | |
| 50.9 | 100 | | | | | | | | | | | | | | | | | | |
| 53.9 | 100 | 44.3 | 63.0 | BBFPT | 44.3 | 63.0 | MBT-k< | BBFP 145.2-178.0 | 145.2-178 | 51.8 | | | | 52.6 | 56.9 | 11928 | 0.49 | 0.00 | |
| 57.0 | 100 | | | | | | | Charcoal grey grdmass, well formed | 1% cp>py diss>frxr | | | | | 56.9 | 61.2 | 11929 | 0.50 | 0.00 | |
| 60.0 | 100 | | | | | | | scattered Fsp. Lt frxring, mostly healed | | | | | | | | | | | |
| 63.1 | 100 | | | | | | | w/qtz-carb. | | 60.4 | | | | 61.2 | 65.5 | 11930 | 0.33 | 0.00 | |
| 66.1 | 100 | | | | | | | | | | | 64.6 | | 65.5 | 69.8 | 11931 | 0.32 | 0.00 | |
| 69.2 | 100 | | | | | | | VOLC 178.0-187.6 | 178.0-187.6 | | | | | 69.8 | 74.1 | 11932 | 0.29 | 0.00 | |
| 72.2 | 100 | | | | | | | Massive, mottled grey & khaki ash tuff | 1% cp>py diss=frxr | | | | | | | | | | |
| 75.3 | 100 | | | | | | | Int crackled & healed as above 125-145 | | | | | | 74.1 | 78.5 | 11933 | 0.30 | 0.00 | |
| 78.3 | 100 | | | | | | | | | 76.5 | | | | 78.5 | 82.8 | 11934 | 0.32 | 0.00 | |
| 81.4 | 100 | | | | | | | BBFP 187.6-197.2 | | | | | | | | | | | |
| 84.4 | 100 | | | | | | | dk gre to black grdmass, scattered poor | | | | | | 82.8 | 87.1 | 11935 | 0.49 | 0.00 | |
| 87.5 | 100 | | | | | | | Fsp. Int 2nd Bt, Abundant hairline carb | | | | | | 87.1 | 91.4 | 11936 | 0.32 | 0.00 | |
| 90.5 | 100 | | | | | | | and mod qtz vnl't <.5" | | | | | | 91.4 | 95.7 | 11937 | 0.28 | 0.00 | |
| 93.6 | 100 | | | | | | | | | 92.4 | | | | | | | | | |
| 96.6 | 90 | | | | | | | VOLC 197.2-206.8 | | | | | | 95.7 | 100.0 | 11938 | 0.50 | 0.00 | |
| 99.7 | 100 | | | | | | | As above 178-187.6 but intensely crackle | | | | | | 100.0 | 104.3 | 11939 | 0.35 | 0.00 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-26 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|--------------------------------------|-----|------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | 63.0 | 83.5 | BBFP | 63.0 | 83.5 | C7k-k= | and clay altered. Possible fault zone. BBFP 206.8-274.1 | 206.8-274.1 | | | | | | | | | | |
| | | | | | | | | As above 187.6-197.2 top 20' mod-int clay alt'd similar to above volc unit. Fsp lightly clay alt'd and grdmass is locally lightly bleached. | 1-2% cp>py locally 3-5% diss=frxr | | | | | | | | | | |
| | | 83.5 | 100.7 | TUFF | 83.5 | 100.7 | T6B-K> | VOLC 274.1-330.5 | 274.1-330.5 | | | | | | | | | | |
| | | | | | | | | Med-dk grey ash tuff. Int crackled and stkwked. Patchy but pervasive 2nd Bt. Chl on open frxrs and w/ Bt. Ksp with larger qvnlts and within swarms. 1' of clay-gouge at top contact. | 1-2% py>cp frxr>diss | | | | | | | | | | |
| | | | | | 88.8 | 88.9 | -K--F | (285.1-289.5) BBFP dike Coarse grained, typical BFP txtr. | | | | | | | | | | | |
| | | | | | | | | (291.5) Fault 3" of clay-gouge obvious tension gashes on either side. | | | | | | | | | | | |
| | | | | | | | | (308-316) Blocky broken core | | | | | | | | | | | |
| | | | | | | | | (316.8-318.4) BBFP dike as above 285.1 | | | | | | | | | | | |
| 102.7 | 100 | 100.7 | 166.8 | BBFP | | | | BBFP 330.5-547.2 | | | | | | | | | | | |
| 105.8 | 100 | | | | 100.7 | 166.8 | C4-mk? | Med grey grdmass, crowded ppy. | | | | 105.2 | | 104.3 | 108.6 | 11940 | 0.39 | 0.00 | |
| 108.8 | 100 | | | | | | | Typical BFP txtr. Int stkwking with qtz- carb vnlt hairline to 0.5", random | | | | | | 108.6 | 112.9 | 11941 | 0.33 | 0.02 | |
| 111.9 | 100 | | | | | | | angles to core. typiclally 20-50 per run | | | | | | 112.9 | 117.3 | 11942 | 0.20 | 0.00 | |
| 114.9 | 100 | | | | | | | Ksp-chl in larger, minz'd vnlt and with | | | | | | 117.3 | 121.6 | 11943 | 0.21 | 0.00 | |
| 118.0 | 100 | | | | | | | local qtz flooding and vnlt swarms. | | | | | | 121.6 | 125.9 | 11944 | 0.21 | 0.00 | |
| 121.0 | 100 | | | | | | | v local chlt'n of Fsp and grdmass evenly | | | | | | | | | | | |
| 124.1 | 100 | | | | | | | Mod frxrng, few open natural frxrs. | | | | | | 125.9 | 130.2 | 11945 | 0.17 | 0.00 | |

| | |
|----------------------|------------------------------------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) |
| PERM DDH#: G90-27 | ===== |
| TEMP DDH#: G90-AT | |
| ===== | |
| GEOLOGIST: R Verzosa | NORTHING: 3352.8 AZIMUTH: 270 |
| COL. DATE: 90/11/16 | EASTING: 3694.2 DIP: -45 |
| EOH DATE: 90/11/17 | ELEVATION: 613.3 LENGTH: 137.2 |
| | ===== |
| DRILL#: 38-14 | SURVEY COORDINATES (Metric) |
| CORE SIZE: NQ | ===== |
| ===== | |
| COMMENTS | NORTHING: 3352.6 AZIMUTH: 271 |
| ===== | EASTING: 3678.1 DIP: -48 |
| | ELEVATION: 613.7 LENGTH: 139.3 |
| | ===== |
| | DOWNHOLE SURVEY METHOD: SPERRY SUN |
| | ===== |
| | DEPTH AZIMUTH DIP |
| | ----- |
| | 1: 126.8 144 -48.5 |
| | 2: |
| | 3: |
| | 4: |
| | 5: |
| | 6: |
| | 7: |
| | 8: |
| | 9: |
| | 10: |
| | ===== |

| PROPERTY: GRANISLE PERM DDH#: G90-28 TEMP DDH#: G90-AK | FIELD COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------|-------|---------|-----|--|------|------|------|----|------|-----|-----|----|-------|-----|-------|----|-------|-----|-----|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| | NORTHING: 3230.9 AZIMUTH: 270 EASTING: 3726.2 DIP: 60 ELEVATION: 678.2 LENGTH: 243.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEOLOGIST: A.J.Pardoe | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COL. DATE: 90/11/17 EOH DATE: 90/11/18 | SURVEY COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILL#: 44-5 CORE SIZE: NQ | NORTHING: 3230.4 AZIMUTH: 265.29 EASTING: 3725.2 DIP: -60 ELEVATION: 648.4 LENGTH: 240.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>----</th> <th>----</th> <th>----</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>90.2</td> <td>278</td> <td>-60</td> </tr> <tr> <td>2:</td> <td>203.0</td> <td>268</td> <td>-60.5</td> </tr> <tr> <td>3:</td> <td>240.5</td> <td>281</td> <td>-59</td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ---- | ---- | ---- | 1: | 90.2 | 278 | -60 | 2: | 203.0 | 268 | -60.5 | 3: | 240.5 | 281 | -59 | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ---- | ---- | ---- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 90.2 | 278 | -60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 203.0 | 268 | -60.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 240.5 | 281 | -59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-28 | Final Date : 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 78.0 | 100 | | | | | | | | | | | | | 76.5 | 80.0 | 12104 | 0.06 | 0.00 | |
| 81.1 | 96 | | | | 81.2 | 90.4 | T6t-y> | 266.5-320: Dk blue, loc grn, salmon + beige lapilli tuff as @86'. | 266.5-296.5: Py, str>>diss | 2-3 | | | | | | | | | |
| 0.0 | | | | | | | | (266.5-276) Several w to m-K alt'd sections. | | | | | | 80.0 | 83.5 | 12105 | 0.03 | 0.00 | |
| 84.1 | 100 | | | | | | | (276-288) W to mod broken. No K-alt'n. | | | 82.9 | | | 83.5 | 87.1 | 12106 | 0.12 | 0.00 | |
| 87.2 | 86 | | | | | | | (292-296.5) Beige-gy, aphanitic tuff. | (292-296.5) Py, cg blebs + | 6 | | | | 87.1 | 90.6 | 12107 | 0.10 | 0.00 | |
| 90.2 | 98 | | | | 90.4 | 97.5 | O6T-Ms | (296.5-320) Unit is cut by FP dykes, 5" to 6' in length. Approx. 40% of section is FP. | strs. | | 89.6 | | | 90.6 | 94.1 | 12108 | 0.13 | 0.00 | |
| 93.3 | 100 | | | | | | | 320-345: Aphanitic tuff?, med yellow-gy | 296.5-320: Py, str>>>diss | ^2 | | | | 94.1 | 97.6 | 12109 | 0.16 | 0.00 | |
| 96.3 | 100 | | | | | | | with loc olive grn + v loc beige to whit patches. W-white carb/qz + alt'd gyp? | 320-331: Py, str+loc diss | <1 | | | | | | | | | |
| 99.4 | 100 | | | | 97.5 | 107.3 | TTk-k< | vnlts. Loc banding @35 deg to CA. Loc i-K alt'n along vnlts + frac. | 331-352: Py>>cp, loc mo. | 3-4 | | | | 97.6 | 101.1 | 12110 | 0.09 | 0.00 | |
| 102.4 | 100 | | | | | | | 345-414: Lapilli + v loc ash tuff. Dominantly dk blue with patchy grn, salmon + beige. Compact + m-indurated. W-carb/qz vnlts. Lapilli frags are rounded + average <2cm dia. Frags vary from aphanitic to crowded porphyry+ are often indistinct | diss>>strs. | | 100.1 | | | 101.1 | 104.7 | 12111 | 0.41 | 0.00 | |
| 105.5 | 100 | | | | | | | (375-383) Dk ash to mg. tuff, softer than lapilli tuff. | 352-437: Py>>cp, diss=strs. | 1-2 | | | | 104.7 | 108.2 | 12112 | 0.44 | 0.00 | |
| 108.5 | 100 | | | | 107.3 | 116.7 | T6tMB= | (383-414) W to m-Si. Loc qz vnlts. M to i-broken @409.6-410.4 + 412.3-412.9'. | M to i-mag. | | 107.9 | | | 108.2 | 111.7 | 12113 | 0.09 | 0.00 | |
| 111.6 | 100 | | | | | | | | | | | | | 111.7 | 115.2 | 12114 | 0.08 | 0.00 | |
| 114.6 | 100 | | | | | | | | | | | | | 115.2 | 118.8 | 12115 | 0.17 | 0.00 | |
| 117.7 | 100 | | | | 116.7 | 126.2 | T6qMB= | | | | | 115.2 | | 118.8 | 122.3 | 12116 | 0.07 | 0.00 | |
| 120.7 | 95 | | | | | | | | | | | | | | | | | | |
| 123.7 | 100 | | | | | | | | | | 121.6 | | | 122.3 | 125.8 | 12117 | 0.17 | 0.00 | |
| 126.8 | 95 | | | | 126.2 | 137.2 | T6Thm> | 414-428.2: Ash tuff. Dk blue + aphanitic grading to med olive grn + mg in lower 3.5'. W to mod off-white carb vnlts. | (414-428.2) Py, loc in vnl | tr | | | | 125.8 | 129.3 | 12118 | 0.03 | 0.00 | |
| 129.8 | 100 | | | | | | | 428.2-433.5: Lapilli tuff as @345', but dk brwn to blk. Diss 2nd BT. | | | 129.2 | | | | | | | | |
| 0.0 | | | | | | | | 433.5-437: Mg lapilli? tuff Even sized rounded pebbles, average 3-4mm dia. | | | | | | 129.3 | 132.8 | 12119 | 0.07 | 0.00 | |
| 132.9 | 100 | | | | | | | 437-450: Yellow-gy to lt olive grn, ash vnlts. W-hem. | 437-450: Py + loc cp, in | 1 | 132.9 | | | 132.8 | 136.3 | 12120 | 0.04 | 0.00 | |

| PROPERTY: GRANISLE PERM DDH#: G90-29 TEMP DDH#: G90-AW' | FIELD COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------|-------|---------|-----|--|------|------|------|----|------|-----|-----|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| ===== | NORTHING: 3413.8 AZIMUTH: 090 EASTING: 3547.9 DIP: -45 ELEVATION: 626.1 LENGTH: 182.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEOLOGIST: A.J.Pardoe | ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COL. DATE: 90/11/17 EOH DATE: 90/11/18 | SURVEY COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILL#: 38-14 CORE SIZE: NQ | NORTHING: 3413.6 AZIMUTH: 90.32 EASTING: 3548.6 DIP: -45 ELEVATION: 625.8 LENGTH: 83.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ===== | ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>----</th> <th>----</th> <th>----</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>78.3</td> <td>085</td> <td>-44</td> </tr> <tr> <td>2:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ---- | ---- | ---- | 1: | 78.3 | 085 | -44 | 2: | | | | 3: | | | | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ---- | ---- | ---- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 78.3 | 085 | -44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROPERTY: GRANISLE PERM DDH#: G90-30 TEMP DDH#: G90-AP | FIELD COORDINATES (Metric) ===== NORTHING: 3291.8 AZIMUTH: 270 EASTING: 3692.7 DIP: -60 ELEVATION: 614.2 LENGTH: 182.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------|-------|---------|-----|--|------|-------|-----|----|-------|-----|-----|----|-------|-----|-----|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| GEOLOGIST: R Verzosa | SURVEY COORDINATES (Metric) ===== NORTHING: 3290.3 AZIMUTH: 267.09 EASTING: 3691.1 DIP: -45 ELEVATION: 617.5 LENGTH: 184.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COL. DATE: 90/11/18 EOH DATE: 90/11/19 | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILL#: 38-14 CORE SIZE: NQ | <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 20%;">DEPTH</th> <th style="width: 20%;">AZIMUTH</th> <th style="width: 15%;">DIP</th> </tr> <tr> <th></th> <th>----</th> <th>-----</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>154.5</td> <td>302</td> <td>-60</td> </tr> <tr> <td>2:</td> <td>184.4</td> <td>128</td> <td>-58</td> </tr> <tr> <td>3:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ---- | ----- | --- | 1: | 154.5 | 302 | -60 | 2: | 184.4 | 128 | -58 | 3: | | | | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ---- | ----- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 154.5 | 302 | -60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 184.4 | 128 | -58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-30 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|------|------|----------|------|--------|--|-----------------------------|-----|------|------|-------------|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | 0.0 | 3.7 | CASE | 0.0 | 3.7 | | CASING 0-12 | | | | | | | | | | | |
| 3.7 | 0 | 3.7 | 62.7 | TUFF | 3.7 | 62.7 | T5hmA> | VOLC 12-205.6 | 12- | | | | | | | | | | |
| 5.2 | 50 | | | | | | | Andesitic lapilli tuff. grey-dk grey | 3-4% py>>cp | | | | | 4.9 | 6.9 | 12171 | 0.03 | 0.00 | |
| 6.1 | 80 | | | | | | | grdmass, round to subangular clasts | Frxr>diss | | | | | | | | | | |
| 8.2 | 90 | | | | | | | generally clast supported or crowded. | patchy diss mg-hm, mg in vn | | 7.6 | | | 6.9 | 11.2 | 12172 | 0.06 | 0.00 | |
| 11.3 | 100 | | | | | | | Very mottled due to clay alt'n, chlt'n, | | | | | | 11.2 | 15.5 | 12173 | 0.10 | 0.00 | |
| 14.3 | 100 | | | | | | | or silic'n. Generally darkened w/ sil'n | locally py to 7% | | | | | | | | | | |
| 17.4 | 100 | | | | | | | and bleached w/ clay. Chl present as | | | | | | 15.5 | 19.8 | 12174 | 0.03 | 0.00 | |
| 20.4 | 100 | | | | | | | blotches, clots, and local flooding. | | | | | | 19.8 | 24.1 | 12175 | 0.12 | 0.00 | |
| 23.5 | 100 | | | | | | | Locally forms a 'pebble conglomerate' | | | 21.0 | | | 24.1 | 28.4 | 12176 | 0.08 | 0.00 | |
| 26.5 | 100 | | | | | | | type texture w/ well rounded & graded | | | | | | | | | | | |
| 29.6 | 100 | | | | | | | clasts. Lt-mod frxring, most open frxrs | | | | | | 28.4 | 32.8 | 12177 | 0.06 | 0.00 | |
| 32.6 | 100 | | | | | | | chlt'd & w/ carb. | | | | | | 32.8 | 37.1 | 12178 | 0.18 | 0.00 | |
| 35.7 | 100 | | | | | | | | | | | | | | | | | | |
| 38.7 | 100 | | | | | | | Minor Faults @ 132.0, 132.5, 136.0-136.5 | | | 37.2 | | | 37.1 | 41.4 | 12179 | 0.26 | 0.00 | |
| 41.8 | 100 | | | | | | | 137.9, 147.0, 159.3 | | | | | | 41.4 | 45.7 | 12180 | 0.26 | 0.00 | |
| 44.8 | 100 | | | | | | | | | | | | | 45.7 | 50.0 | 12181 | 0.17 | 0.00 | |
| 47.9 | 100 | | | | | | | | | | | | | | | | | | |
| 50.9 | 100 | | | | | | | | | | | 50.3 | | 50.0 | 54.3 | 12182 | 0.10 | 0.00 | |
| 53.9 | 100 | | | | | | | | | | 53.6 | | | 54.3 | 58.6 | 12183 | 0.16 | 0.00 | |
| 57.0 | 100 | | | | | | | | | | | | | | | | | | |
| 60.0 | 100 | | | | | | | | | | | | | 58.6 | 62.9 | 12184 | 0.19 | 0.00 | |
| 63.1 | 100 | | | | | | | BBFP 205.6-221.1 | 205.6-221.1 | | | | | 62.9 | 67.2 | 12185 | 0.30 | 0.00 | |
| 66.1 | 100 | | | | 62.7 | 67.4 | V7cmv= | Subvolcanic BFP, charcoal grey grdmass, | 5% py>cp | | 65.5 | | | | | | | | |
| 69.2 | 100 | | | | | | | scattered, small fsp phenos. Vsmall | coarse diss & frxrs | | | | | 67.2 | 71.6 | 12186 | 0.28 | 0.00 | |
| 72.2 | 100 | | | | | | | lath-shaped mafic xtals. mod pitting. | | | | | | 71.6 | 75.9 | 12187 | 0.24 | 0.00 | |
| 75.3 | 100 | | | | | | | blotches of chl thruout & forming haloes | | | | | | 75.9 | 80.2 | 12188 | 0.14 | 0.00 | |
| 78.3 | 100 | | | | | | | around py clots & vnits. | | | | | | | | | | | |
| 81.1 | 100 | | | | | | | | | | | | | 80.2 | 84.5 | 12189 | 0.15 | 0.00 | |
| 82.9 | 100 | | | | | | | VOLC 221.1-244.3 | | | | | | | | | | | |
| 84.4 | 100 | | | | 67.4 | 74.5 | T5hmA> | Andesite lapilli tuff as above 12-205.6 | | | 83.8 | | | 84.5 | 88.8 | 12190 | 0.24 | 0.00 | |
| 87.5 | 100 | | | | | | | | | | | | | | | | | | |
| 90.5 | 100 | | | | | | | BBFP 244.3-252.9 | | | | | | 88.8 | 93.1 | 12191 | 0.27 | 0.00 | |
| 93.6 | 100 | | | | 67.4 | 77.1 | V7cmv= | As above 205.6-221.1 | | | 91.4 | | | 93.1 | 97.4 | 12192 | 0.23 | 0.00 | |

| | | | |
|-----------------------|------------------------------------|-----------------|-------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) | | |
| PERM DDH#: G90-31 | ===== | | |
| TEMP DDH#: G90-AD | ===== | | |
| ===== | NORTHING: 3109.0 | AZIMUTH: 270 | |
| | EASTING: 3645.4 | DIP: -45 | |
| | ELEVATION: 636.4 | LENGTH: 365.8 | |
| ===== | ===== | | |
| GEOLOGIST: A.J.Pardoe | SURVEY COORDINATES (Metric) | | |
| | ===== | | |
| COL. DATE: 90/11/19 | NORTHING: 3109.5 | AZIMUTH: 269.73 | |
| EOH DATE: 90/11/21 | EASTING: 3642.2 | DIP: -44 | |
| | ELEVATION: 636.7 | LENGTH: 379.8 | |
| ===== | ===== | | |
| DRILL#: 44-5 | | | |
| CORE SIZE: NQ | | | |
| ===== | ===== | | |
| COMMENTS | DOWNHOLE SURVEY METHOD: SPERRY SUN | | |
| ===== | ===== | | |
| | DEPTH | AZIMUTH | DIP |
| | ---- | ----- | --- |
| | 1: 126.8 | 278 | -46 |
| | 2: 212.1 | 269 | -47 |
| | 3: 273.1 | 278 | -46 |
| | 4: 346.3 | 287 | -43.5 |
| | 5: | | |
| | 6: | | |
| | 7: | | |
| | 8: | | |
| | 9: | | |
| | 10: | | |
| ===== | ===== | | |

| PROPERTY: GRANISLE PERM DDH#: G90-32 TEMP DDH#: G90-AC | FIELD COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------|-------|---------|-----|--|-------|-------|-----|----|-------|-----|-----|----|-------|-----|-----|----|-------|-----|-----|----|-------|-----|-----|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| | NORTHING: 3109.0 AZIMUTH: 090 EASTING: 3131.8 DIP: -45 ELEVATION: 615.4 LENGTH: 0.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEOLOGIST: R Verzosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COL. DATE: 90/11/19 EOH DATE: 90/11/21 | SURVEY COORDINATES (Metric) ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRILL#: 38-14 CORE SIZE: NQ | NORTHING: 3108.7 AZIMUTH: 91.01 EASTING: 3134.9 DIP: -50 ELEVATION: 615.4 LENGTH: 337.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>-----</th> <th>-----</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>160.6</td> <td>090</td> <td>-47</td> </tr> <tr> <td>2:</td> <td>273.4</td> <td>093</td> <td>-48</td> </tr> <tr> <td>3:</td> <td>300.8</td> <td>023</td> <td>-50</td> </tr> <tr> <td>4:</td> <td>337.4</td> <td>095</td> <td>-47</td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ----- | ----- | --- | 1: | 160.6 | 090 | -47 | 2: | 273.4 | 093 | -48 | 3: | 300.8 | 023 | -50 | 4: | 337.4 | 095 | -47 | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ----- | ----- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 160.6 | 090 | -47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 273.4 | 093 | -48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 300.8 | 023 | -50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | 337.4 | 095 | -47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-32 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|-------|----------|-------|--------|--|--------------------------|-----|------|------|-------------|------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | 0.0 | 4.9 | CASE | 0.0 | 4.9 | | CASING 0-16 | | | | | | | | | | | |
| 4.9 | 0 | 4.9 | 19.5 | TUFFV | 4.9 | 19.5 | Tntmy> | VOLC 16-64.0 | 16-64 | | | | | 4.9 | 7.6 | 12001 | 0.25 | 0.00 | |
| 8.2 | 60 | | | | | | | Dk grey andesite tuff/flow, txtr unclear | 2% py>cp | | | | | 7.6 | 11.6 | 12002 | 0.28 | 0.00 | |
| 11.3 | 100 | | | | | | | V mottled due to 2nd Bt, silic'n, and | frxr>diss | | 10.1 | | | 11.6 | 15.6 | 12003 | 0.30 | 0.00 | |
| 14.3 | 100 | | | | | | | local bleaching. Patches of qtz flooding | | | | | | | | | | | |
| 17.4 | 100 | | | | | | | with mg-hm and minor chl. mod frxring, | | | | 15.8 | | 15.6 | 19.6 | 12004 | 0.25 | 0.00 | |
| 20.4 | 100 | | | | | | | many natural frxrs limonite coated but | | | | | | 19.6 | 23.5 | 12005 | 0.31 | 0.00 | |
| 23.5 | 100 | | | | | | | otherwise fresh. Bottom 3' (61'-64') | | | | | | 23.5 | 27.5 | 12006 | 0.28 | 0.00 | |
| 26.5 | 100 | | | | | | | grade into underlying BBFP. | | | | | | 27.5 | 31.5 | 12007 | 0.28 | 0.00 | |
| 29.6 | 100 | | | | | | | Top 30' broken, blast damage. | | | 28.7 | | | | | | | | |
| 32.3 | 100 | | | | | | | | | | | | | 31.5 | 35.5 | 12008 | 0.35 | 0.00 | |
| 35.4 | 100 | | | | | | | | | | | | | 35.5 | 39.4 | 12009 | 0.25 | 0.00 | |
| 38.4 | 100 | 19.5 | 100.9 | BBFP | | | | BBFP 64.0-331.2 | 64-153.3 | | | | | | | | | | |
| 40.5 | 100 | | | | 19.5 | 36.0 | C6cly< | med-grey to charcoal grey grdmass, well | 2-3% cp=py locally to 5% | | | | | 39.4 | 43.4 | 12010 | 0.20 | 0.00 | |
| 41.8 | 100 | | | | | | | formed crowded Fsp. Mafic xtals variable | diss>frxr | | | | | | | | | | |
| 44.8 | 100 | | | | | | | 2nd Bt mod-int, locally clouding and | mg in frxrs, vnltts, and | | 44.2 | | | 43.4 | 47.4 | 12011 | 0.24 | 0.00 | |
| 47.9 | 100 | | | | | | | obscuring Fsp. Faint to weak chlt'n of | w/ qtz flooding | | | | | 47.4 | 51.4 | 12012 | 0.64 | 0.00 | |
| 50.9 | 100 | | | | | | | grdmass & Fsp, local patches of 'dalmati | | | 48.8 | | | 51.4 | 55.4 | 12013 | 0.47 | 0.00 | |
| 53.9 | 100 | | | | | | | of chl-Bt blotches. Mod frxring w/ qtz | | | | | | | | | | | |
| 57.0 | 100 | | | | | | | carb vnltts. | | | | | | 55.4 | 59.3 | 12014 | 0.41 | 0.00 | |
| 60.0 | 100 | | | | | | | 70-118 broken w/ limonite on frxrs, | | | | | | 59.3 | 63.3 | 12015 | 0.79 | 0.00 | |
| 63.1 | 100 | | | | | | | probably blast damage. | | | 63.1 | 61.6 | | 63.3 | 67.3 | 12016 | 0.39 | 0.00 | |
| 66.1 | 100 | | | | 36.0 | 46.6 | C6cmk< | | | | | | | | | | | | |
| 69.2 | 100 | | | | 46.6 | 73.2 | M7--md | (153-240)Grades in & out of 'subvolcanic | 153-240 | | | | | 67.3 | 71.3 | 12017 | 0.59 | 0.00 | |
| 72.2 | 100 | | | | | | | BBFP with black grdmass and poorly forme | 3-4% well diss py>cp | | | | | 71.3 | 75.3 | 12018 | 0.51 | 0.00 | |
| 75.3 | 100 | | | | | | | and scattered Fsp's. Int 2nd Bt. | | | | | | 75.3 | 79.2 | 12019 | 0.89 | 0.00 | |
| 78.3 | 100 | | | | | | | Fairly massive except hairline qnltts, | | | | | | 79.2 | 83.2 | 12020 | 0.50 | 0.00 | |
| 81.4 | 100 | | | | | | | rare natural open frxrs. | | | 81.1 | | | | | | | | |
| 84.4 | 100 | | | | | | | | | | | | | 83.2 | 87.2 | 12021 | 0.50 | 0.00 | |
| 87.5 | 100 | | | | | | | | | | | | | 87.2 | 91.2 | 12022 | 0.54 | 0.00 | |
| 90.5 | 100 | | | | | | | | | | | | | 91.2 | 95.2 | 12023 | 0.56 | 0.00 | |
| 93.6 | 100 | | | | | | | | | | | | | | | | | | |
| 96.6 | 100 | | | | 73.2 | 100.9 | CKcmKS | (240-331.2) | 240-331.2 | | 96.3 | | | 95.2 | 99.2 | 12024 | 0.59 | 0.00 | |
| 99.7 | 100 | | | | | | | Mottled BBFP, mod-int stkwking and silic | 3-4% py>cp well diss | | | | | 99.2 | 103.1 | 12025 | 0.62 | 0.00 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-32 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 102.7 | 100 | | | | | | | Probably originally 'classic' BFP txtr, | minz'd vnlt's, blebs | | 103.6 | | | 103.1 | 107.1 | 12026 | 0.66 | 0.00 | |
| 105.8 | 100 | | | | | | | Fsp's clouded & often obliterated. | within larger vnlt's. | | | | | | | | | | |
| 108.8 | 100 | | | | | | | abundant bladed & lath shaped mafic xtal | | | | | | 107.1 | 111.1 | 12027 | 0.22 | 0.00 | |
| 111.9 | 100 | | | | | | | OA a med grey. Ksp & chl in qtz flooded | mg w/ vnlt's & usually | | | 111.3 | | 111.1 | 115.1 | 12028 | 0.09 | 0.00 | |
| 114.9 | 100 | | | | | | | areas & w/ vnlt swarms. chl slicks on | w/ Ksp | | | | | 115.1 | 119.0 | 12029 | 0.14 | 0.00 | |
| 118.0 | 100 | | | | | | | some open frxrs. | | | 117.3 | | | | | | | | |
| 120.4 | 100 | | | | | | | | | | | | | 119.0 | 123.0 | 12030 | 0.07 | 0.00 | |
| 123.4 | 100 | 100.9 | 106.8 | TUFF | | | | VOLC 331.2-350.3 | 331.2-350.3 | | | | | 123.0 | 127.0 | 12031 | 0.06 | 0.00 | |
| 126.5 | 100 | | | | 100.9 | 106.8 | TNqmK= | Med-dk grey Andesite tuff?? | 3-4% py-cp diss=frxrs | | | | | 127.0 | 131.0 | 12032 | 0.14 | 0.00 | |
| 129.5 | 100 | | | | | | | int silic'n/stkwing as above BBFP. | mg w/ silic'n as blebs/vnlt | | | | | | | | | | |
| 132.6 | 100 | | | | | | | txtrs unclear, colors mottled. | | | | | | 131.0 | 134.9 | 12033 | 0.23 | 0.00 | |
| 135.6 | 100 | | | | | | | Hard & glassy. | | | 134.7 | | | 134.9 | 138.9 | 12034 | 0.42 | 0.00 | |
| 139.0 | 100 | | | | | | | | | | | | | 138.9 | 142.9 | 12035 | 0.10 | 0.00 | |
| 142.0 | 100 | 106.8 | 337.4 | BBFP | | | | BBFP 350.3-1107 | | | | | | 142.9 | 146.9 | 12036 | 0.08 | 0.00 | |
| 145.1 | 100 | | | | 106.8 | 136.1 | C25mm? | Grades btwn fg not-so-porphyrific BBFP | | | | | | | | | | | |
| 148.1 | 100 | | | | | | | to crowded ppy. also bleached zones. | | | | | | 146.9 | 150.9 | 12037 | 0.25 | 0.00 | |
| 151.5 | 100 | | | | | | | Only lightly frxrd, rare qtz-carb & gyp | | | | | | 150.9 | 154.8 | 12038 | 0.13 | 0.00 | |
| 154.5 | 100 | | | | | | | vnlt's. Open frxrs fresh | | | | | | 154.8 | 158.8 | 12039 | 0.08 | 0.00 | |
| 157.6 | 100 | | | | | | | | | | 156.1 | | | | | | | | |
| 160.6 | 100 | | | | | | | (350.3-374.7) fg med grey, scattered, | | | | 158.5 | | 158.8 | 162.8 | 12040 | 0.08 | 0.00 | |
| 162.5 | 100 | | | | | | | rare fsp's and ghosts. angular xenos | | | | | | | | | | | |
| 164.6 | 100 | | | | | | | of 'classic' coarse grained BFP. | | | | | | 162.8 | 166.8 | 12041 | 0.07 | 0.00 | |
| 166.7 | 100 | | | | | | | V small mafic xtals, brown 2nd Bt. | | | | | | 166.8 | 170.7 | 12042 | 0.13 | 0.00 | |
| 169.8 | 100 | | | | | | | | | | | | | 170.7 | 174.7 | 12043 | 0.24 | 0.00 | |
| 172.8 | 100 | | | | | | | (374.7-381.3) 'Classic' BBFP, coarse | | | 172.8 | | | | | | | | |
| 175.9 | 100 | | | | | | | grained, crowded ppy with small mafic xt | | | | | | 174.7 | 178.7 | 12044 | 0.13 | 0.00 | |
| 178.0 | 100 | | | | | | | and brown 2nd Bt. | | | | | | 178.7 | 182.7 | 12045 | 0.12 | 0.00 | |
| 181.1 | 100 | | | | | | | | | | | | | | | | | | |
| 182.0 | 100 | | | | | | | (381.3-434.6) As above 350.3-374.7 | | | | | | | | | | | |
| 184.1 | 100 | | | | | | | this interval also contains xenos of | | | | | | 182.7 | 186.7 | 12046 | 0.31 | 0.00 | |
| 187.1 | 100 | | | | | | | felsic ash tuff. | | | | | | 186.7 | 190.7 | 12047 | 0.34 | 0.00 | |
| 190.5 | 100 | | | | | | | | | | 189.6 | | | 190.7 | 194.6 | 12048 | 0.18 | 0.00 | |
| 193.5 | 100 | | | | | | | (434.6-446.4) Med grey brown grdmass | | | | | | | | | | | |
| 196.6 | 100 | | | | | | | crowded, well formed Fsp's, lightly | | | | | | 194.6 | 198.6 | 12049 | 0.18 | 0.00 | |

PROPERTY: GRANISLE
 PERM DDH#: G90-33
 TEMP DDH#: G90-AB

GEOLOGIST: A.J.Pardoe

COL. DATE: 90/11/21
 EOH DATE: 90/11/22

DRILL#: 44-5
 CORE SIZE: NQ

COMMENTS
 =====

FIELD COORDINATES (Metric)
 =====

NORTHING: 3048.0 AZIMUTH: 270
 EASTING: 3486.9 DIP: -45
 ELEVATION: 613.9 LENGTH: 259.1

SURVEY COORDINATES (Metric)
 =====

NORTHING: 3043.4 AZIMUTH: 270.05
 EASTING: 3486.2 DIP: -47
 ELEVATION: 602.4 LENGTH: 215.2

DOWNHOLE SURVEY METHOD: SPERRY SUN
 =====

| | DEPTH | AZIMUTH | DIP |
|-----|-------|---------|-----|
| | ---- | ----- | --- |
| 1: | 108.5 | 277 | -46 |
| 2: | 213.4 | 252 | -44 |
| 3: | | | |
| 4: | | | |
| 5: | | | |
| 6: | | | |
| 7: | | | |
| 8: | | | |
| 9: | | | |
| 10: | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-33 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|-----------------------------|-----|------|------|-------------|------|------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 0.0 | | 0.0 | 3.7 | CASE | 0.0 | 3.7 | | CASING (0-12) | | | | | | | | | | | |
| 3.7 | 0 | 3.7 | 56.1 | BBFP | | | | BBFP (12-184) | | | | | | | | | | | |
| 4.9 | 33 | | | | 3.7 | 32.0 | C7kmfd | Dk (brwn)-gy crowded porphry with often | 12-71: Py>>>cp, diss>>>strs | 3-4 | | | | 3.7 | 6.9 | 12301 | 0.20 | 0.00 | |
| 7.9 | 92 | | | | | | | indistinct fg to mg pale gy FSP + blk BT | Loc w to m-mag. | | | | | 6.9 | 11.1 | 12302 | 0.11 | 0.00 | |
| 11.0 | 93 | | | | | | | phenos. I-diss 2nd BT. Massive, occasion | | | 8.5 | | | 11.1 | 15.2 | 12303 | 0.17 | 0.00 | |
| 14.0 | 90 | | | | | | | al qz vnlt. | | | | | | | | | | | |
| 17.1 | 92 | | | | | | | 12-58.5: W to m-broken. Loc crushed + | | | | | | 15.2 | 19.4 | 12304 | 0.13 | 0.00 | |
| 20.1 | 98 | | | | | | | gouged sections. | | | 18.9 | | | 19.4 | 23.6 | 12305 | 0.44 | 0.00 | |
| | | | | | | | | 58.5-68: Slightly lighter color. | 71-184: Py>>cp, diss>>>strs | 2-3 | | | | | | | | | |
| 23.2 | 100 | | | | | | | 68-71: Loc crush + bleach. | loc cp blebs. Patchy w to | | | | | 23.6 | 27.7 | 12306 | 0.25 | 0.00 | |
| 26.2 | 100 | | | | | | | 88-96: W-broken, loc crushed, incompeten | i-mag. | | | | | | | | | | |
| 29.3 | 100 | | | | | | | + i-K alt'd sections. | | | | | | 27.7 | 31.9 | 12307 | 0.13 | 0.00 | |
| 32.3 | 100 | | | | 45.7 | 56.1 | C7gmMd | 105-184: W to loc gyp vnlt. | | | 30.2 | | | 31.9 | 36.1 | 12308 | 0.25 | 0.00 | |
| 35.4 | 100 | | | | | | | | | | | | | 36.1 | 40.2 | 12309 | 0.30 | 0.00 | |
| 38.4 | 100 | | | | | | | | | | | 36.0 | | | | | | | |
| 41.5 | 100 | | | | | | | | | | | | | 40.2 | 44.4 | 12310 | 0.52 | 0.00 | |
| 44.5 | 100 | | | | | | | | | | 44.5 | | | 44.4 | 48.6 | 12311 | 0.23 | 0.00 | |
| 47.5 | 100 | | | | | | | | | | | | | | | | | | |
| 50.6 | 100 | | | | | | | | | | | | | 48.6 | 52.7 | 12312 | 0.31 | 0.00 | |
| 53.6 | 100 | | | | | | | | | | | | | 52.7 | 56.9 | 12313 | 0.32 | 0.00 | |
| 56.7 | 100 | 56.1 | 70.2 | TUFF | 56.1 | 70.2 | T6tmks | VOLC (184-230.3) | 184-230: Py>=cp, in cbx/stw | 2 | 56.4 | | | 56.9 | 61.1 | 12314 | 0.20 | 0.03 | |
| 59.7 | 100 | | | | | | | Aphanitic ash tuff/flow? Dk blue gy with | M to i-diss mag. | | | | | | | | | | |
| 62.8 | 100 | | | | | | | m-cbx that has alt'n envelopes which | | | | | | 61.1 | 65.2 | 12315 | 0.24 | 0.00 | |
| 65.8 | 100 | | | | | | | bleach rk yellow-gy. W-Si. Contacts with | | | | | | 65.2 | 69.4 | 12316 | 0.16 | 0.00 | |
| 68.9 | 100 | | | | | | | BBFP are blurred but distinct @ mod to | | | 68.6 | | | 69.4 | 73.6 | 12317 | 0.17 | 0.00 | |
| 71.9 | 100 | | | | | | | low angle to CA | | | | | | | | | | | |
| 75.0 | 100 | 70.2 | 160.8 | BBFP | | | | BBFP (230-527.5) | | | | | | 73.6 | 77.7 | 12318 | 0.35 | 0.00 | |
| 78.0 | 100 | | | | 70.2 | 82.6 | C7Zmmd | V dk gy with generally blurred, crowded | 230-271: Py>>cp, diss>>> | 4 | 76.8 | | | 77.7 | 81.9 | 12319 | 0.20 | 0.00 | |
| 81.1 | 100 | | | | | | | phenos. I-diss 2nd BT, m to i-Si (often | strs. Patchy diss mag. | | | | | 81.9 | 86.1 | 12320 | 0.23 | 0.00 | |
| 84.1 | 100 | | | | | | | as a cloud over porphry texture. Loc qz | | | | | | | | | | | |
| 87.2 | 100 | | | | | | | vnlt., v occasional gyp vnlt. | | | | | | 86.1 | 90.3 | 12321 | 0.23 | 0.00 | |
| 90.2 | 100 | | | | | | | 230-271: Loc slightly lighter rk. | | | 89.6 | | | 90.3 | 94.4 | 12322 | 0.34 | 0.00 | |
| 93.3 | 100 | | | | 82.6 | 106.1 | C7Z-md | 271-341: Consistenly dk rk. | 271-341: Py>cp, diss>>>strs | 4-5 | | | | | | | | | |
| 96.3 | 100 | | | | | | | Loc mag. | | | | | | 94.4 | 98.6 | 12323 | 0.30 | 0.00 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-33 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|-----------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 166.4 | 100 | | | | | | | swirls + streaks. i-Si. Sharp contacts, | vnlt>diss. Loc hem. | | 165.5 | | | 165.3 | 169.4 | 12340 | 0.39 | 0.00 | |
| 169.5 | 100 | | | | | | | upper in broken rk, lower @40 deg to CA. | | | | | | 169.4 | 173.6 | 12341 | 0.46 | 0.00 | |
| 172.5 | 100 | | | | | | | 570-575: V dk (brwn)-gy BBFP dyke. Crowd | | | | | | | | | | | |
| 0.0 | | | | | | | | -ed porphry, m to i-Si. | | | 173.4 | | | | | | | | |
| 175.6 | 100 | | | | | | | 575-585.7: Swirled, bleached, i-Si'd | (575-585.7) As @533.7'. | 2 | | | | 173.6 | 177.8 | 12342 | 0.28 | 0.00 | |
| 178.6 | 100 | | | | | | | texture as @533.7'. | 585.7-601: Cp>>py, diss >>> | 3-4 | | | | 177.8 | 181.9 | 12343 | 0.23 | 0.00 | |
| 181.7 | 100 | | | | | | | | strs. M to loc i-mag. | | | | | 181.9 | 186.1 | 12344 | 0.35 | 0.00 | |
| 184.7 | 100 | | | | | | | 601-621: Dk brwnish-gy, massive, only | 601-621: Cp=>py, vfg diss | 2 | 182.0 | | | | | | | | |
| 187.8 | 98 | | | | | | | slightly mottled texture. Patchy white | >>strs. | | 187.5 | | | 186.1 | 190.3 | 12345 | 0.55 | 0.00 | |
| 190.8 | 98 | | | | | | | swirls + streaks in bottom 3'. | | | | | | 190.3 | 194.4 | 12346 | 0.29 | 0.00 | |
| 193.9 | 100 | 189.3 | 215.2 | BBFP | | | | BBFP (621-706) | 621-706: Cp=>py, diss>>> | 3-4 | | | | 194.4 | 198.6 | 12347 | 0.33 | 0.03 | |
| 196.9 | 100 | | | | 189.3 | 215.2 | CNgmkd | V dk (brwn)-gy to loc med (brwn)-gy. | strs. Loc mo in vnlt>. Loc | | | | | | | | | | |
| 199.9 | 100 | | | | | | | Crowded porphry, though phenos generally | patchy w-mag. | | 197.8 | | | 198.6 | 202.8 | 12348 | 0.28 | 0.03 | |
| 203.0 | 100 | | | | | | | blurred. 1-diss dk brwn 2nd BT. W-gyp + | | | | | | 202.8 | 206.9 | 12349 | 0.38 | 0.00 | |
| 206.0 | 100 | | | | | | | qz/carb vnlt> (largely massive appear- | | | | 206.0 | | 206.9 | 211.1 | 12350 | 0.44 | 0.00 | |
| 209.1 | 100 | | | | | | | ance).M to i-Si. | | | 209.1 | | | | | | | | |
| 212.1 | 100 | | | | | | | | | | | | | 211.1 | 215.2 | 12351 | 0.32 | 0.00 | |
| 215.2 | 100 | | | | | | | | | | 214.9 | | | | | | | | |
| | | | | | | | | EOH (706 ft) | | | | | | | | | | | |

| PROPERTY: GRANISLE PERM DDH#: G90-34 TEMP DDH#: G90-AA | FIELD COORDINATES (Metric) ===== NORTHING: 3048.0 AZIMUTH: 090 EASTING: 3169.9 DIP: -45 ELEVATION: 605.0 LENGTH: 243.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------|-------|---------|-----|--|------|-------|-----|----|------|-----|------|----|-------|-----|----|----|-------|-----|------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| GEOLOGIST: R Verzosa COL. DATE: 90/11/21 EOH DATE: 90/11/23 DRILL#: 38-14 CORE SIZE: NQ | SURVEY COORDINATES (Metric) ===== NORTHING: 3048.1 AZIMUTH: 89.34 EASTING: 3168.6 DIP: -45 ELEVATION: 601.1 LENGTH: 242.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS ===== | DOWNHOLE SURVEY METHOD: SPERRY SUN ===== <table border="1"> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>----</th> <th>-----</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>63.1</td> <td>119</td> <td>45.5</td> </tr> <tr> <td>2:</td> <td>154.5</td> <td>065</td> <td>46</td> </tr> <tr> <td>3:</td> <td>242.9</td> <td>088</td> <td>43.5</td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ---- | ----- | --- | 1: | 63.1 | 119 | 45.5 | 2: | 154.5 | 065 | 46 | 3: | 242.9 | 088 | 43.5 | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ---- | ----- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 63.1 | 119 | 45.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 154.5 | 065 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 242.9 | 088 | 43.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-34 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|--|----------------------|-------|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 105.8 | 100 | | | | | | | lightly & evenly silic'd, with slight | | | | | | 104.3 | 108.7 | 12375 | 0.42 | 0.00 | |
| 108.8 | 100 | | | | | | | pinkish cast to lt grey grdmass (Ksp???) | | 107.3 | | | | 108.7 | 113.0 | 12376 | 0.71 | 0.00 | |
| 111.9 | 100 | | | | | | | local qtz flooding w/ Ksp-sx-mg | | | | | | | | | | | |
| 114.9 | 100 | | | | | | | local dalmatianite w/ Bt-chl | | 0.0 | | | | 113.0 | 117.3 | 12377 | 0.51 | 0.00 | |
| 118.0 | 100 | | | | | | | | | | | | | 117.3 | 121.6 | 12378 | 0.41 | 0.00 | |
| 121.0 | 100 | | | | 77.9 | 78.7 | -K--F | (255.6-258.2) Fault zone Int clay alt'n | | | | | | 121.6 | 125.9 | 12379 | 0.47 | 0.00 | |
| 124.1 | 100 | | | | | | | soft friable core, not quite gouge/mylon | | 123.7 | | | | | | | | | |
| 127.1 | 100 | | | | | | | bleaching/clay alt'n 1'-2' above & below | | | | | | 125.9 | 130.2 | 12380 | 0.44 | 0.00 | |
| 130.1 | 100 | | | | | | | | | | | | | 130.2 | 134.5 | 12381 | 0.39 | 0.00 | |
| 133.2 | 100 | | | | 95.2 | 147.5 | C60mk> | BBFP 312.3-483.9 | As above | | | | | | | | | | |
| 136.2 | 100 | | | | | | | Med grained, int silic'd BBFP | | | | | | 134.5 | 138.8 | 12382 | 0.75 | 0.00 | |
| 138.7 | 90 | | | | | | | Charcoal-med grey grdmass, Fsp's clouded | | | | | | | | | | | |
| 139.3 | 90 | | | | | | | and partially obscured. Int pervasive | | | | | | 138.8 | 143.1 | 12383 | 0.28 | 0.00 | |
| 141.1 | 95 | | | | | | | silic'n w/ Ksp. Abundant qvnlts w/Ksp | | | | | | | | | | | |
| 144.2 | 95 | | | | | | | hairline to 0.5" and local flooding. | | 143.0 | | | | 143.1 | 147.4 | 12384 | 0.18 | 0.00 | |
| 145.4 | 100 | | | | | | | also gyp vnlts. Local int mg flooding | | | | | | | | | | | |
| 148.4 | 90 | | | | | | | Locally Fsp's clay alt'd & pitted. | | | | | | 147.4 | 151.8 | 12385 | 0.15 | 0.00 | |
| 151.5 | 100 | | | | | | | wk but pervasive chl, both grdmass & Fsp | | | | | | 151.8 | 156.1 | 12386 | 0.13 | 0.00 | |
| 154.5 | 100 | | | | | | | as well as clots & vnlts rims. | | | | | | | | | | | |
| 157.6 | 100 | | | | | | | | | 154.8 | 157.6 | | | 156.1 | 160.4 | 12387 | 0.15 | 0.00 | |
| 160.6 | 100 | | | | 136.5 | 139.1 | -K--F | (447.8-456.4) Fault Zone Int clay alt'd | | | | | | 160.4 | 164.7 | 12388 | 0.25 | 0.00 | |
| 163.7 | 100 | | | | | | | soft & friable core, no apparent movemen | | | | | | | | | | | |
| 166.7 | 100 | | | | | | | | | | | | | 164.7 | 169.0 | 12389 | 0.33 | 0.00 | |
| 169.8 | 100 | | | | | | | (454.5-468) Broken, blocky core | | | | | | 169.0 | 173.3 | 12390 | 0.18 | 0.00 | |
| 172.8 | 100 | | | | | | | | | | | | | 173.3 | 177.6 | 12391 | 0.17 | 0.00 | |
| 178.9 | 100 | | | | 147.5 | 154.9 | Cnq-m | BBFP 483.9-662.0 | 483.9-662.0 | 174.0 | | | | 177.6 | 181.9 | 12392 | 0.24 | 0.00 | |
| 182.0 | 100 | | | | | | | Med grained BBFP, sil'n and Bt have | 2-3% py>cp | | | | | 181.9 | 186.2 | 12393 | 0.26 | 0.00 | |
| 185.0 | 100 | | | | | | | clouded & obscured txrs. Med-pale grey | frxrs=diss | | | | | | | | | | |
| 188.1 | 100 | | | | | | | variable qtz-ser alt'n. Lt frxring, fair | | | | | | 186.2 | 190.6 | 12394 | 0.30 | 0.00 | |
| 191.1 | 100 | | | | | | | massive. Loc blotches of Bt-chl. | | | | | | 190.6 | 194.9 | 12395 | 0.20 | 0.00 | |
| 194.2 | 100 | | | | | | | | | 192.6 | | | | 194.9 | 199.2 | 12396 | 0.17 | 0.00 | |
| 197.2 | 100 | | | | | | | | | | | | | | | | | | |
| 200.3 | 100 | | | | 154.9 | 166.1 | CZ2-m0 | (508.1-540.1) Int sil'd, pale grey-brown | most sx leached | | | 201.2 | | 199.2 | 203.5 | 12397 | 0.21 | 0.00 | |
| 203.3 | 100 | | | | | | | translucent grdmass, sugary Fsp's. | | | | | | 203.5 | 207.8 | 12398 | 0.27 | 0.00 | |

| | | | |
|-----------------------|------------------------------------|-----------------|-------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) | | |
| PERM DDH#: G90-35 | ===== | | |
| TEMP DDH#: G90-NG | ===== | | |
| ===== | NORTHING: 2987.0 | AZIMUTH: 360 | |
| | EASTING: 3413.8 | DIP: -45 | |
| | ELEVATION: 602.0 | LENGTH: 243.8 | |
| | ===== | | |
| GEOLOGIST: A.J.Pardoe | ===== | | |
| COL. DATE: 90/11/23 | SURVEY COORDINATES (Metric) | | |
| EOH DATE: 90/11/24 | ===== | | |
| DRILL#: 44-5 | NORTHING: 2992.6 | AZIMUTH: 352.45 | |
| CORE SIZE: NQ | EASTING: 3413.3 | DIP: -45 | |
| ===== | ELEVATION: 602.1 | LENGTH: 242.0 | |
| | ===== | | |
| COMMENTS | DOWNHOLE SURVEY METHOD: SPERRY SUN | | |
| ===== | ===== | | |
| | DEPTH | AZIMUTH | DIP |
| | ---- | ----- | ---- |
| | 1: 90.2 | 354 | -45.5 |
| | 2: 175.6 | 5 | -45.5 |
| | 3: 242.0 | 20 | -46.5 |
| | 4: | | |
| | 5: | | |
| | 6: | | |
| | 7: | | |
| | 8: | | |
| | 9: | | |
| | 10: | | |
| | ===== | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-35 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|---|---|-----|-------|------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 68.9 | 100 | | | | | | | (216.8-218.8) Lapilli tuff as above. | | | 68.0 | | | 67.0 | 71.3 | 12422 | 0.22 | 0.00 | |
| 71.9 | 100 | 71.3 | 111.3 | BBFP | 71.3 | 84.1 | C6zhmd | Dark (brown)-grey, crowded, fine grained to med grained porphyry. Int diss 2nd BT (dark brown to black) and weak to mod si. Loc qz vnltts, dominantly massive contact with overlying volc at about 30 deg to core axis. | 234-315: Cpy > py, diss >>> strcs. Weak red hem. | 2-3 | | | 71.3 | 75.6 | 12423 | 0.31 | 0.00 | | |
| 75.0 | 100 | | | | | | | | | | | | | 75.6 | 79.9 | 12424 | 0.40 | 0.00 | |
| 78.0 | 100 | | | | | | | | | | 77.1 | | | | | | | | |
| 81.1 | 100 | | | | | | | | | | | | | 79.9 | 84.2 | 12425 | 0.28 | 0.00 | |
| 84.1 | 100 | | | | 84.1 | 100.0 | C6zhmd | 276-365: Much as above but dark grey (no brown tone), phenos slightly to loc strangely blurred. Int si. | 315-328: Cpy +/- loc py strcs > diss. Loc weak mag. | 2 | | | | 84.2 | 88.5 | 12426 | 0.31 | 0.00 | |
| 87.2 | 100 | | | | | | | | | | | | | | | | | | |
| 90.2 | 100 | | | | | | | | | | 89.6 | | | 88.5 | 92.8 | 12427 | 0.23 | 0.00 | |
| 93.3 | 100 | | | | | | | | | | | | | 92.8 | 97.2 | 12428 | 0.38 | 0.00 | |
| 96.3 | 100 | | | | 100.0 | 111.3 | C6ZMm< | | | | | | | 97.2 | 101.5 | 12429 | 0.11 | 0.00 | |
| 99.4 | 100 | | | | | | | | | | | | | | | | | | |
| 102.4 | 100 | | | | | | | | | | 102.7 | | | 101.5 | 105.8 | 12430 | 0.45 | 0.00 | |
| 105.5 | 100 | | | | | | | | | | | | | 105.8 | 110.1 | 12431 | 0.35 | 0.00 | |
| 108.5 | 100 | | | | | | | | | | | | | | | | | | |
| 111.6 | 100 | 111.3 | 126.6 | VOLC | 111.3 | 117.3 | TNq-a> | 365-415.5: Aphanitic, dark blue and brown-grey, loc light brown. Streaks and swirls of light beige and pale grey, (possible ser alt'n?). Entire rock is int si'd, loc int crackle breccia visible. Indistinct upper contact to BBFP at high angle to C/A. | 365-410: Cpy +/- loc py strcs > diss. Loc blebs in strcs. Trace mo. | 1-2 | 111.3 | | 110.1 | 114.4 | 12432 | 0.28 | 0.00 | | |
| 114.6 | 100 | | | | | | | 376-381: Porphyritic flow/crystal tuff? Fine grained FSP phenos in med grey groundmass. Patchy 2nd BT. Contacts at 45 deg to core axis. | | | | | | 114.4 | 118.7 | 12433 | 0.30 | 0.00 | |
| 117.7 | 100 | | | | 117.3 | 126.6 | ONqmm< | 385-397: BBFP dyke. Crowded porphyry int si. Contacts at 45 deg to C/A. | Cpy +/- py, diss. Patchy int mag. | 3 | 118.9 | | | | | | | | |
| 120.7 | 100 | | | | | | | 410-415.5: Very dark brown-grey to black aphanitic tuff/flow. Loc BBFP. | Cpy +/- loc py diss >>> strcs. Patchy int mag. | 3 | | | | 118.7 | 123.0 | 12434 | 0.21 | 0.00 | |
| 123.7 | 100 | | | | | | | | | | | | | 123.0 | 127.3 | 12435 | 0.31 | 0.00 | |
| 126.8 | 100 | 126.6 | 242.0 | BBFP | 126.6 | 135.3 | C6omMd | 415.5-436: Sharp contact with volc at 45 to 60 deg to C/A. Brown-black groundmass | Cpy >> py, diss >>> strcs. Patchy int mag. | | 126.5 | | | 127.3 | 131.6 | 12436 | 0.31 | 0.00 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-35 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|---|--|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| | | | | | | | | with abundant coarse grained anhedral grey FSP and black BT phenos. Int diss black, laths and some clots of 2nd BT. Massive except for very loc qz vnlt. | | | | | | | | | | | |
| 129.8 | 100 | | | | | | | 436-444: Int patchy pale grey and salmon cloud (qz and K-spar?) obscurs porphyry texture. Tuff xeno at 440.4 to 442.4'. Grades into units above and below. | Cpy and loc py, diss. | 2 | 129.8 | | | | | | | | |
| 132.9 | 100 | | | | | | | | | | 133.2 | | | 131.6 | 136.0 | 12437 | 0.38 | 0.00 | |
| 135.9 | 100 | | | | 135.3 | 151.2 | C7-MM< | Very dark grey to black, abundant faint FSP phenos(?) visible. Unit is possibly volc with poor phenos? or int alt'd BFP. (indicated by orientaion of BT laths) at 55 deg to C/A. Massive, sub-aphanitic appearance very loc qz/carb vnlt. | Cpy >> py, diss > str. | 2-3 | | | | 136.0 | 140.3 | 12438 | 0.16 | 0.00 | |
| 139.0 | 100 | | | | | | | | | | | | | | | | | | |
| 142.0 | 100 | | | | | | | | | | | 141.7 | | 140.3 | 144.6 | 12439 | 0.19 | 0.00 | |
| 145.1 | 100 | | | | | | | | | | 144.8 | | | 144.6 | 148.9 | 12440 | 0.48 | 0.00 | |
| 148.1 | 100 | | | | | | | | | | | | | 148.9 | 153.2 | 12441 | 0.21 | 0.00 | |
| 151.2 | 100 | | | | 151.2 | 200.3 | C7oMM> | (478.5-483) Mod to int broken, no gouge. Very dark grey to black, crowded fine grained to med grained porphyry. Phenos blurred but more distinct than preceding unit. Loc salmon tone, int black 2nd BT. Weak to mod si. Loc qz vnlt. | 496-503.3: Py, str >> diss mod to int mag. | 1-2 | | | | 153.2 | 157.5 | 12442 | 0.22 | 0.00 | |
| 154.2 | 100 | | | | | | | | | | 156.4 | | | 157.5 | 161.8 | 12443 | 0.19 | 0.00 | |
| 160.3 | 100 | | | | | | | | | | | | | | | | | | |
| 163.4 | 100 | | | | | | | (503.3-540) Mod to int white qz and salmon K-spar? infills frac and creates brecciated texture and loc bleaches fragments. Vuggy fracture below 533'. | Cpy >> Bo, in str >> diss. Patchy diss mod to int mag. | 3 | 163.4 | | | 161.8 | 166.1 | 12444 | 0.32 | 0.00 | |
| 166.4 | 100 | | | | | | | | | | | | | 166.1 | 170.4 | 12445 | 0.27 | 0.00 | |
| 169.5 | 100 | | | | | | | | | | | | | | | | | | |
| 172.5 | 100 | | | | | | | | | | | | | 170.4 | 174.8 | 12446 | 0.28 | 0.00 | |
| 175.6 | 100 | | | | | | | (546-563): Weak broken. | 540-657: Cpy > Bo, str > diss. Mod to int mag, loc patchy. | -3 | | | | 174.8 | 179.1 | 12447 | 0.36 | 0.00 | |
| 178.6 | 100 | | | | | | | | | | 182.3 | | | 179.1 | 183.4 | 12448 | 0.28 | 0.00 | |
| 181.7 | 100 | | | | | | | | | | | | | | | | | | |
| 184.7 | 100 | | | | | | | (603-619) Med grey with clear mg phenos. Loc well rounded tuff xenos (average 1 to 2 cm dia), int si. | | | 186.2 | | | 183.4 | 187.7 | 12449 | 0.35 | 0.00 | |
| 187.8 | 100 | | | | | | | | | | | | | 187.7 | 192.0 | 12450 | 0.31 | 0.00 | |
| 190.8 | 100 | | | | | | | | | | | | | | | | | | |
| 193.9 | 100 | | | | 192.6 | 193.5 | -----F | (632-635) Int broken, loc slicks and fine clay gouge on frac. Fault. | | | | | | 192.0 | 196.3 | 12451 | 0.33 | 0.00 | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-35 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------------|------|-----------|----|------|----------|-------|--------|--|---|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 196.9 | 100 | | | | 196.9 | 198.7 | --t-f | Fault as above. Approx 50% of section is patchy bleached and qz flooded (with ser and loc K-spar). | | | 196.0 | | | 196.3 | 200.6 | 12452 | 0.42 | 0.00 | |
| 199.9 | 84 | | | | 200.3 | 229.5 | C60Mk> | Dark grey, faint pinkish tone crowded porphyry, phenos blurred by med grey si cloud. Weak to loc mod qz vnits and str int si. Loc salmon-grey patches (K-spar and quartz). | Cpy >> Bo, str >> diss. Mod to int mag. | 2-3 | | | | 200.6 | 204.9 | 12453 | 0.63 | 0.00 | |
| 203.0 | 100 | | | | | | | (699.5-716) Coarse grained BBFP dyke. | Cpy in qz str mod to int mag. | 1 | | | | 204.9 | 209.2 | 12454 | 0.78 | 0.00 | |
| 206.0 | 100 | | | | | | | Clear phenos. Weak to mod qz str. | | | 206.3 | | | 209.2 | 213.5 | 12455 | 0.54 | 0.00 | |
| 209.1 | 100 | | | | | | | Faults at 704.5-707 and 710-713' (gouge and pebbles) with weak broken rock between. | | | | | | 213.5 | 217.9 | 12456 | 0.28 | 0.00 | |
| 212.1 | 100 | | | | | | | | | | 215.8 | | | 217.9 | 222.2 | 12457 | 0.19 | 0.00 | |
| 215.2 | 100 | | | | | | | Weak to loc mod broken, loc slicken-sided surfaces. | | | | 221.9 | | 222.2 | 226.5 | 12458 | 0.14 | 0.00 | |
| 218.2 | 58 | | | | 218.2 | 221.9 | ----f | | | | | | | 226.5 | 230.8 | 12459 | 0.19 | 0.00 | |
| 221.3 | 88 | | | | | | | Weak to badly broken, loc ground core, very loc gouge on frac. Fault. | | | 225.9 | | | 230.8 | 235.1 | 12460 | 0.05 | 0.00 | |
| 224.3 | 90 | | | | 223.7 | 228.6 | ----F | | | | | | | | | | | | |
| 227.4 | 93 | | | | | | | | | | | | | | | | | | |
| 230.4 | 83 | | | | 229.5 | 235.0 | C72Mfs | 753-794: Coarse grained BBFP. Very dark grey weak to strongly blurred porphyry texture. Mod to int si. Weak to mod qz stwk. | Cpy in qz stwk, Int diss mag, except in faults. | <1 | | | | 230.8 | 235.1 | 12460 | 0.05 | 0.00 | |
| 233.5 | 82 | | | | | | | (756-757) Weak broken, loc slicks fault. (753.5-762.5) Fault. Badly broken, clay gouge on frac, mod K-alt'n. Loc slicken-sides. | | | 233.2 | | | | | | | | |
| | | | | | | | | (766-771) As above. | | | | | | | | | | | |
| 236.5 | 90 | | | | 235.0 | 242.0 | C72Mks | | | | | | | 235.1 | 239.4 | 12461 | 0.03 | 0.00 | |
| 239.6 | 100 | | | | | | | | | | | | | 239.4 | 242.0 | 12462 | 0.04 | 0.00 | |
| 242.0 | 100 | | | | | | | | | | 242.0 | | | | | | | | |
| EOH (794 ft) | | | | | | | | | | | | | | | | | | | |

| | |
|-------------------------|------------------------------------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) |
| PERM DDH#: G90-36 | ===== |
| TEMP DDH#: G90-NE | |
| ===== | |
| GEOLOGIST: Raul Verzosa | NORTHING: 2987.0 AZIMUTH: 360 |
| | EASTING: 3230.9 DIP: -45 |
| | ELEVATION: 604.1 LENGTH: 243.8 |
| | ===== |
| COL. DATE: 90/11/23 | SURVEY COORDINATES (Metric) |
| EOH DATE: 90/11/24 | ===== |
| | |
| DRILL#: 38-14 | NORTHING: 2982.4 AZIMUTH: 358.36 |
| CORE SIZE: NQ | EASTING: 3230.5 DIP: -46 |
| | ELEVATION: 604.1 LENGTH: 215.5 |
| | ===== |
| COMMENTS | DOWNHOLE SURVEY METHOD: SPERRY SUN |
| ===== | ===== |
| | |
| | DEPTH AZIMUTH DIP |
| | ---- |
| | 1: 63.1 002 46 |
| | 2: 154.5 005 45 |
| | 3: 0.0 |
| | 4: |
| | 5: |
| | 6: |
| | 7: |
| | 8: |
| | 9: |
| | 10: |
| | ===== |

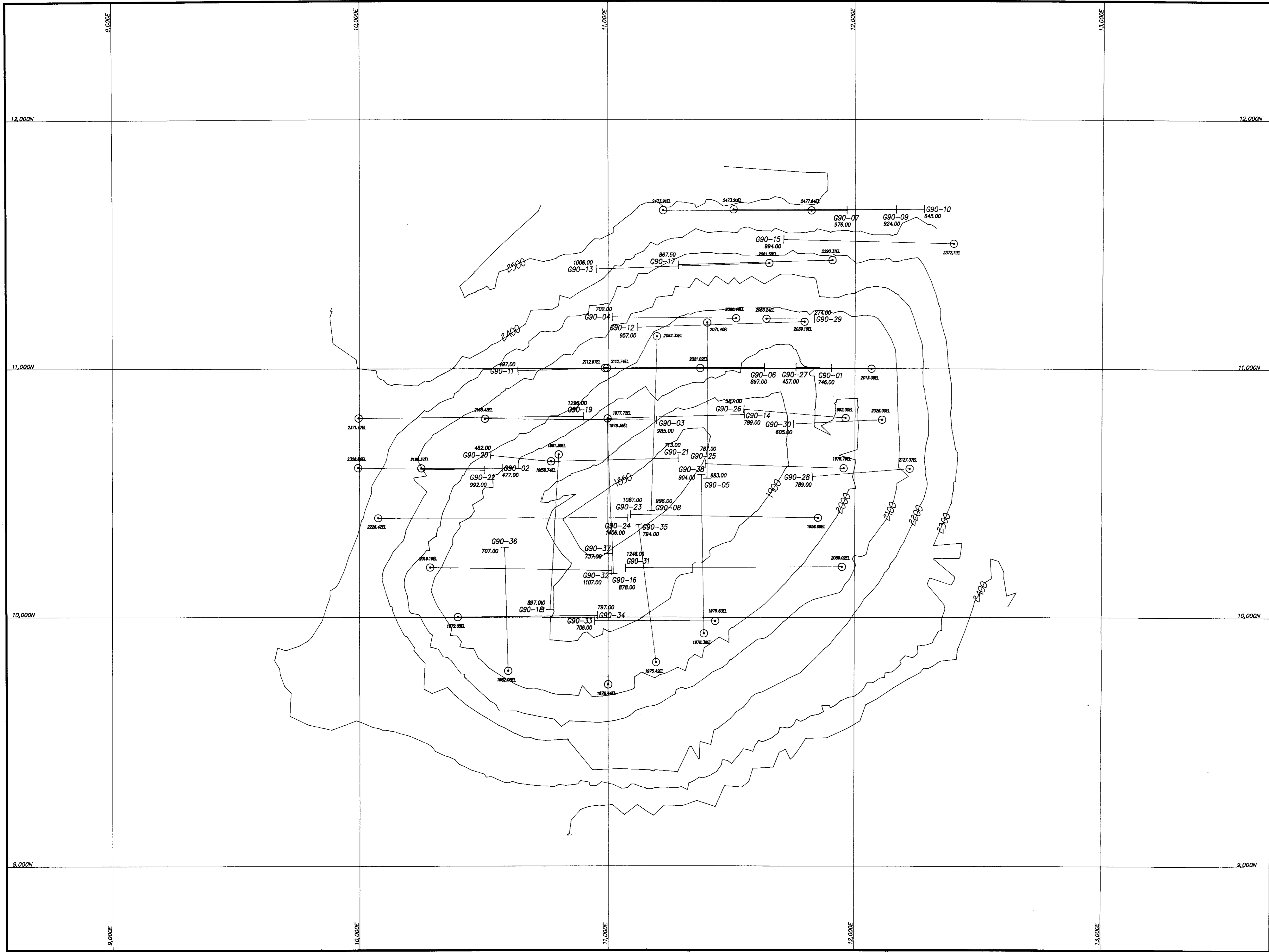
| PROPERTY: GRANISLE PERM DDH#: G90-37 TEMP DDH#: G90-NF | FIELD COORDINATES (Metric) ===== NORTHING: 2965.7 AZIMUTH: 360 EASTING: 3352.8 DIP: -45 ELEVATION: 602.0 LENGTH: 213.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------|-------|---------|-----|--|-------|-------|-----|----|-------|-----|-----|----|-------|-----|-----|----|-----|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|-----|--|--|--|
| ===== GEOLOGIST: Raul Verzosa COL. DATE: 90/11/24 EOH DATE: 90/11/25 DRILL#: 38-14 CORE SIZE: NQ | ===== SURVEY COORDINATES (Metric) ===== NORTHING: 28264.0 AZIMUTH: 359.90 EASTING: 3353.1 DIP: -45 ELEVATION: 602.4 LENGTH: 224.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ===== COMMENTS ===== | ===== DOWNHOLE SURVEY METHOD: SPERRY SUN ===== <table> <thead> <tr> <th></th> <th>DEPTH</th> <th>AZIMUTH</th> <th>DIP</th> </tr> <tr> <th></th> <th>-----</th> <th>-----</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>1:</td> <td>105.8</td> <td>268</td> <td>-44</td> </tr> <tr> <td>2:</td> <td>224.6</td> <td>007</td> <td>-43</td> </tr> <tr> <td>3:</td> <td>0.0</td> <td></td> <td></td> </tr> <tr> <td>4:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | DEPTH | AZIMUTH | DIP | | ----- | ----- | --- | 1: | 105.8 | 268 | -44 | 2: | 224.6 | 007 | -43 | 3: | 0.0 | | | 4: | | | | 5: | | | | 6: | | | | 7: | | | | 8: | | | | 9: | | | | 10: | | | |
| | DEPTH | AZIMUTH | DIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ----- | ----- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | 105.8 | 268 | -44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | 224.6 | 007 | -43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-37 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|-------|------|----------|-------|--------|--|---------------------------|-----|-------|-------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | CODE | FROM | TO | CODE | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 94.8 | 100 | | | | | | | | | | 93.9 | | | 93.3 | 97.6 | 12537 | 0.35 | 0.00 | |
| 96.6 | 100 | | | | | | | | | | | 96.6 | | | | | | | |
| 99.7 | 100 | | | | | | | | | | | | | 97.6 | 101.9 | 12538 | 0.23 | 0.00 | |
| 102.7 | 100 | | | | | | | | | | | | | 101.9 | 106.2 | 12539 | 0.30 | 0.00 | |
| 105.8 | 100 | | | | | | | | | | | | | 106.2 | 110.6 | 12540 | 0.41 | 0.00 | |
| 108.8 | 100 | | | | | | | | | | | | | | | | | | |
| 111.9 | 100 | | | | | | | | | | | | | 110.6 | 114.8 | 12541 | 0.36 | 0.00 | |
| 114.9 | 100 | | | | | | | | | | 112.2 | | | 114.8 | 119.1 | 12542 | 0.63 | 0.00 | |
| 118.0 | 100 | | | | | | | | | | | | | | | | | | |
| 121.0 | 100 | | | | | | | | | | | | | 119.1 | 123.5 | 12543 | 0.43 | 0.00 | |
| 124.1 | 100 | | | | | | | | | | | | | 123.5 | 127.8 | 12544 | 0.35 | 0.00 | |
| 127.1 | 100 | | | | | | | | | | | | | 127.8 | 132.1 | 12545 | 0.66 | 0.00 | |
| 130.1 | 100 | | | | | | | | | | 128.6 | | | | | | | | |
| 133.2 | 100 | | | | | | | | | | | | | 132.1 | 136.4 | 12546 | 0.45 | 0.00 | |
| 136.2 | 100 | | | | 136.1 | 144.0 | TN--a< | VOLC 446.5-472.5 | 446.5-472.5 | | | | | 136.4 | 140.7 | 12547 | 0.54 | 0.00 | |
| 139.3 | 100 | | | | | | | black to grey int silic'd andesite flow/ | 3-5% cp=py diss>frxrs | | | | | | | | | | |
| 142.3 | 100 | | | | | | | V hard & glassy, mottled. loc crackled a | rare blebs | | 142.3 | | | 140.7 | 145.0 | 12548 | 0.48 | 0.00 | |
| 145.4 | 100 | | | | | | | healed w/ hairline qtz-carb. Rare pink | | | | 147.2 | | 145.0 | 149.3 | 12549 | 0.22 | 0.00 | |
| 147.2 | 100 | | | | | | | felsic ash tuff clasts. vfg to aphanitic | | | | | | | | | | | |
| 148.4 | 100 | | | | | | | | | | | | | 149.3 | 153.6 | 12550 | 0.25 | 0.00 | |
| 151.5 | 100 | | | | 144.0 | 151.9 | VNomp= | BBFP 472.5-498.2 | | | | | | | | | | | |
| 154.5 | 100 | | | | | | | Subvolc BBFP as above | 360.1-446.5 | | | | | 153.6 | 157.9 | 12551 | 0.18 | 0.00 | |
| 157.6 | 100 | | | | | | | | | | 156.7 | | | 157.9 | 162.3 | 12552 | 0.11 | 0.00 | |
| 160.6 | 100 | | | | | | | BBFP 498.2-657.0 | 1-3% cp=py Highly varied, | | | | | | | | | | |
| 163.7 | 100 | 151.9 | 215.5 | BBFP | 151.9 | 164.6 | C50MAd | Med grained, mottled med-dark grey | Large blebs, diss, frxrs | | | | | 162.3 | 166.6 | 12553 | 0.11 | 0.00 | |
| 166.1 | 100 | | | | | | | Int silic'n w/ Ksp and mg. abundant Bt | | | | | | | | | | | |
| 167.0 | 100 | | | | | | | as patches and flooding. Vuggy & pitted. | abundant mg vnlts and | | | | | | | | | | |
| 168.2 | 100 | | | | | | | Clots of chl and Bt partially chlt'd. | diss | | | | | 166.6 | 170.9 | 12554 | 0.41 | 0.00 | |
| 170.1 | 100 | | | | | | | OA txtrs poorly preserved. | | | | | | | | | | | |
| 171.9 | 100 | | | | | | | | | | 170.7 | | | | | | | | |
| 172.8 | 100 | | | | | | | (533.8-538.7) Collapse brx, clast suppor | | | | | | 170.9 | 175.2 | 12555 | 0.40 | 0.00 | |
| 175.3 | 100 | | | | | | | .3"-1" matrix of 2nd Bt-qtz-mg-chl-sx | | | | | | 175.2 | 179.5 | 12556 | 0.32 | 0.00 | |
| 178.3 | 100 | | | | | | | | | | | | | | | | | | |
| 181.4 | 100 | | | | 164.6 | 175.3 | C50MYd | (540-575) broken & blocky, frxrs fresh | | | | | | 179.5 | 183.8 | 12557 | 0.39 | 0.00 | |

| | |
|-----------------------|------------------------------------|
| PROPERTY: GRANISLE | FIELD COORDINATES (Metric) |
| PERM DDH#: G90-38 | ===== |
| TEMP DDH#: G90-NH | |
| ===== | |
| GEOLOGIST: A.J.Pardoe | NORTHING: 3029.7 AZIMUTH: 360 |
| | EASTING: 3474.7 DIP: -45 |
| | ELEVATION: 602.3 LENGTH: 259.1 |
| | ===== |
| COL. DATE: 90/11/24 | SURVEY COORDINATES (Metric) |
| EOH DATE: 90/11/26 | ===== |
| | |
| DRILL#: 44-5 | NORTHING: 3028.2 AZIMUTH: 358.89 |
| CORE SIZE: NQ | EASTING: 3472.4 DIP: -45 |
| ===== | ELEVATION: 602.4 LENGTH: 276.1 |
| | ===== |
| COMMENTS | DOWNHOLE SURVEY METHOD: SPERRY SUN |
| ===== | ===== |
| | DEPTH AZIMUTH DIP |
| | ---- |
| | 1: 132.9 352 -45 |
| | 2: 229.5 5 -44.5 |
| | 3: |
| | 4: |
| | 5: |
| | 6: |
| | 7: |
| | 8: |
| | 9: |
| | 10: |
| | ===== |

| Metric | | MAIN UNIT | | | SUB UNIT | | | DDH: G90-38 | Final Date: 91/01/18 | | | | SAMPLE DATA | | | | | | |
|--------|------|-----------|----|------|----------|-------|--------|---|--|-----|-------|------|-------------|-------|-------|---------|--------|--------|----------|
| METRES | RECY | FROM | TO | MAIN | FROM | TO | SUB | ROCK TYPE / ALTERATION | MINERALIZATION | %SX | LIBR | STRC | RQD | FROM | TO | SAMPLE# | Cu (%) | Mo (%) | Au (opt) |
| 108.5 | 100 | | | | | | | 355.5-385: Mixed aphanitic (ash) and Lapilli tuff? Black to sections of brown ish rounded frags one 2nd BT, mod to int | Cpy, diss and blebs >> vnlts Patchy mod to int mag. | | | | | | | | | | |
| 111.6 | 100 | | | | | | | si. Patches of qz and K-spar flood. | | | 111.9 | | | 110.5 | 114.8 | 12594 | 0.80 | 0.00 | |
| 114.6 | 100 | | | | | | | Lapilli Tuff?? Subangular to rounded frags, dominantly porphyritic (or coarse grained texture alt'n obscures original texture) and loc aphanitic frags with minor black aphanitic matrix between clasts. Frags lighter colour than matrix | Cpy and trace Bo, very fine grained dis >> str. Int diss mag. | | | | 114.8 | 119.1 | 12595 | 0.55 | 0.00 | | |
| 117.7 | 100 | | | | 117.3 | 127.3 | T5zMB< | 1st - 2nd Bt, mod si. | | | | | | | | | | | |
| 120.7 | 100 | | | | | | | Aphanitic black tuff with patchy si cloud and loc very dark brown tones. 1st and 2nd BT, mod si. Massive, well indurated, weak to loc gyp vnlts. | 417.6-446: Cpy, diss > str (in BBFP, diss >>> str).Mod to int diss mag. | | | | 120.7 | | | | | | |
| 123.7 | 100 | | | | | | | (428-446) BBFP dyke; med to dark grey, crowded fine grained phenos of FSP and BT. Int 2nd BT, mod to int si. Massive. | 446-477: Cpy and loc Bo str and loc massive blebs. Int diss mag. | | | | 119.1 | 123.4 | 12596 | 0.42 | 0.00 | | |
| 126.8 | 100 | | | | 127.3 | 145.4 | TNgMM< | Several black tuff xenos (up to 2' in length). | | | | | | 123.4 | 127.7 | 12597 | 0.53 | 0.00 | |
| 129.8 | 100 | | | | | | | BBFP dyke. Very dark grey with fine grasined indistinct FSP and BT phenos. Minor dark brown/beige-grey ash tuff xenos, very loc K-spar patches. Int diss black 2nd BT and in si. Upper contact sharp at 20 deg to C/A, lower contact irregular at mod to high angle to C/A. | Cpy, vnlts >>> diss. Int diss mag. | | | | | | | | | | |
| 132.9 | 100 | | | | | | | 493.5-519.5: Black aphanitic tuff, as at 417.6', but more patchy appearance, loc K-spar/qz patches. | Cpy >> Bo. vnlts > diss. Mod to int diss mag. | | | | 127.7 | 132.1 | 12598 | 0.41 | 0.00 | | |
| 135.9 | 100 | | | | | | | (500) 6" of broken rock, minor slicks and very weak gouge on frac. fault. (515) fault 3" broken with sandy gouge on frac. | | | | | 132.1 | 136.4 | 12599 | 0.39 | 0.00 | | |
| 139.0 | 100 | | | | | | | | | | 131.4 | | 136.4 | 140.7 | 12600 | 0.20 | 0.00 | | |
| 142.0 | 100 | | | | | | | | | | | | 140.7 | 145.0 | 12601 | 0.53 | 0.00 | | |
| 145.1 | 100 | | | | 145.4 | 150.4 | CNoMzd | | | | 145.7 | | 145.0 | 149.3 | 12602 | 0.20 | 0.00 | | |
| 148.1 | 100 | | | | | | | | | | | | | | | | | | |
| 151.2 | 100 | | | | 150.4 | 176.5 | TNoMa< | | | | | | | 149.3 | 153.6 | 12603 | 0.23 | 0.00 | |
| 154.2 | 98 | | | | 152.4 | 152.6 | ----f | | | | 154.2 | | | 153.6 | 157.9 | 12604 | 0.50 | 0.00 | |

01-G90



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,012

| DATE | REVISION | INITIAL |
|---------|-------------|---------|
| 08Feb91 | New Drawing | JDW |
| | | |
| | | |
| | | |
| | | |
| | | |

NOTES:
 Drill Hole data provided by NORANDA Minerals Inc.
 Drawing shows GRANISLE Survey Coordinate Grid
 Pit Contours developed from "Thin" slices of
 NORANDA Mines "Month End Pit Plate", June 1982

GRANISLE MINE
noranda
 NORANDA MINERALS INC.

| COMPOSITION | 5 | 10 |
|-----------------|---|----|
| 1 PIT Contours | 6 | 11 |
| 2 | 7 | 12 |
| 3 DH-G90 Series | 8 | 13 |
| 4 DH-ELEV | 9 | 14 |

200 FEET 0 100 200 300 400 500
 Scale 1"=200'

GRANISLE MINE
DRILL HOLE PLAN
1990 Diamond Drilling

| | | |
|--------------------------------|------------------|---------|
| DATE DRAWN: FEBRUARY 1991 | SCALE: 1" = 200' | DWG No: |
| DRAWN By: J.D.WILLIAMS, P.Eng. | JOB No: | 01-G90 |
| APPROVED By: | N.T.S: 93L/16 | |