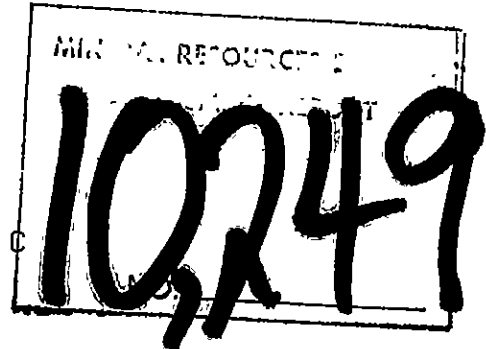


GEOLOGICAL, GEOCHEMICAL, DIAMOND DRILLING REPORT

for

MCDAME PROJECT

GROUP A, GROUP B, GROUP C



LIARD MINING DIVISION

NTS 104P/4E

LAT 59° 15' N LONG 129° 37' W

CLAIMS OWNED BY: ERICKSON GOLD MINING CORPORATION
NEWCOAST SILVER MINES LIMITED
TABLE MOUNTAIN MINES LIMITED

OPERATOR: ESSO RESOURCES CANADA LTD.
600-1281 West Georgia St.
Vancouver, B.C.
V6E 3J7

REPORT BY: CAL C. EVERETT

SUBMITTED: March 30, 1982

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Summary

The "McDame" property, located in the Cassiar area of northwestern B.C., is currently under option by Esso Resources Canada Limited from Erickson Gold Mining Corporation.

Numerous quartz veins, anomalous in gold and/or silver have been located on the property. Exploration completed by Esso Resources in 1981 was focused on specific vein systems, defined from a 1980 prospecting/soil geochemistry program. This report documents 1981 diamond drilling, geological mapping and soil geochemical exploration.

YUKON

B.C.

Walson Lake

Walson Lake

Liard

LOWIE RD 11

Cassiar

Plain

Wheeler L
23
45

Cassiar

GOOD HOPE LAKE

Bay L
Park (Chain L)

Simmons L

McDAME Gold District

57 Collo

32 Pincirce

Joe Irwin L

Meek L

Thibery Cr

Dease Cr

Labie

Mtn

Cry L

71

45

DEASE LAKE

1985



FIGURE #1
LOCATION MAP
McDAME Project

1. Introduction

1.A. Location And Access

The McDame property is located approximately 168 km south of Watson Lake, Yukon on the Cassiar-Stewart Highway; 13 km southeast of the town of Cassiar (figure #1).

The claims are located on NTS map sheet 104P/4E at north latitude $59^{\circ} 15'$ N and west longitude $129^{\circ} 37'$ W.

1.B. Property

The property consists of 81 mineral claims aggregating 279 contiguous units. Locations of the claims are shown on Map #1. The land record is listed in table #1.

Erickson Gold Mining Corporation has the right of ownership and option to the property. Esso Resources Canada Limited optioned the claims in 1979.

1.C. History of Property

Placer gold was first discovered on McDame Creek in 1874. More placer workings lie to the north where a buried channel on Quartzrock Creek was mined by drifting and hydraulicking and to the northeast on Snowy Creek where gold concentrated in benches of an old high-level channel.

In 1934 native gold was discovered in quartz veins on Quartzrock Creek. From 1934-1960 several gold bearing veins

were located within the district, in a zone 8 km wide extending from Quartzrock Creek to Pooley Creek.

Only limited exploration was carried out on the gold showings to 1960. Exploration has intensified in recent years due to substantial increases in the price of gold. Several companies have initiated diamond drilling, surface and underground development programs. In January 1979, Erickson Gold Mining Corporation began production of the Jennie Vein on Table Top Mountain. Two new mills and lode gold mining operations were established in 1981 by Plaza Mining Corporation and United Hearne Resources Limited.

Esso Resource's participation in the gold camp began in 1979. The exploration program entailed mull sampling of known lode gold-silver showings along McDame Creek and preliminary compilation of the regional geology for the project area. In 1980, a large reconnaissance soil geochem-geological mapping program was initiated to test portions of the property containing known vein structures and alteration zones. Several new gold-silver anomalies were discovered from the survey.

1.D. Regional Geology

The regional geology of the McDame 104P map sheet is presented on GSC map 1110 A, accompanying GSC Memoir #319, 1963, by H. Gabrielse. Figure #2 represents the southwest portion of the 104P map sheet; north latitude $59^{\circ} 00'$ - $59^{\circ} 30'$ N and west longitude $129^{\circ} 15'$ - $130^{\circ} 00'$ W.

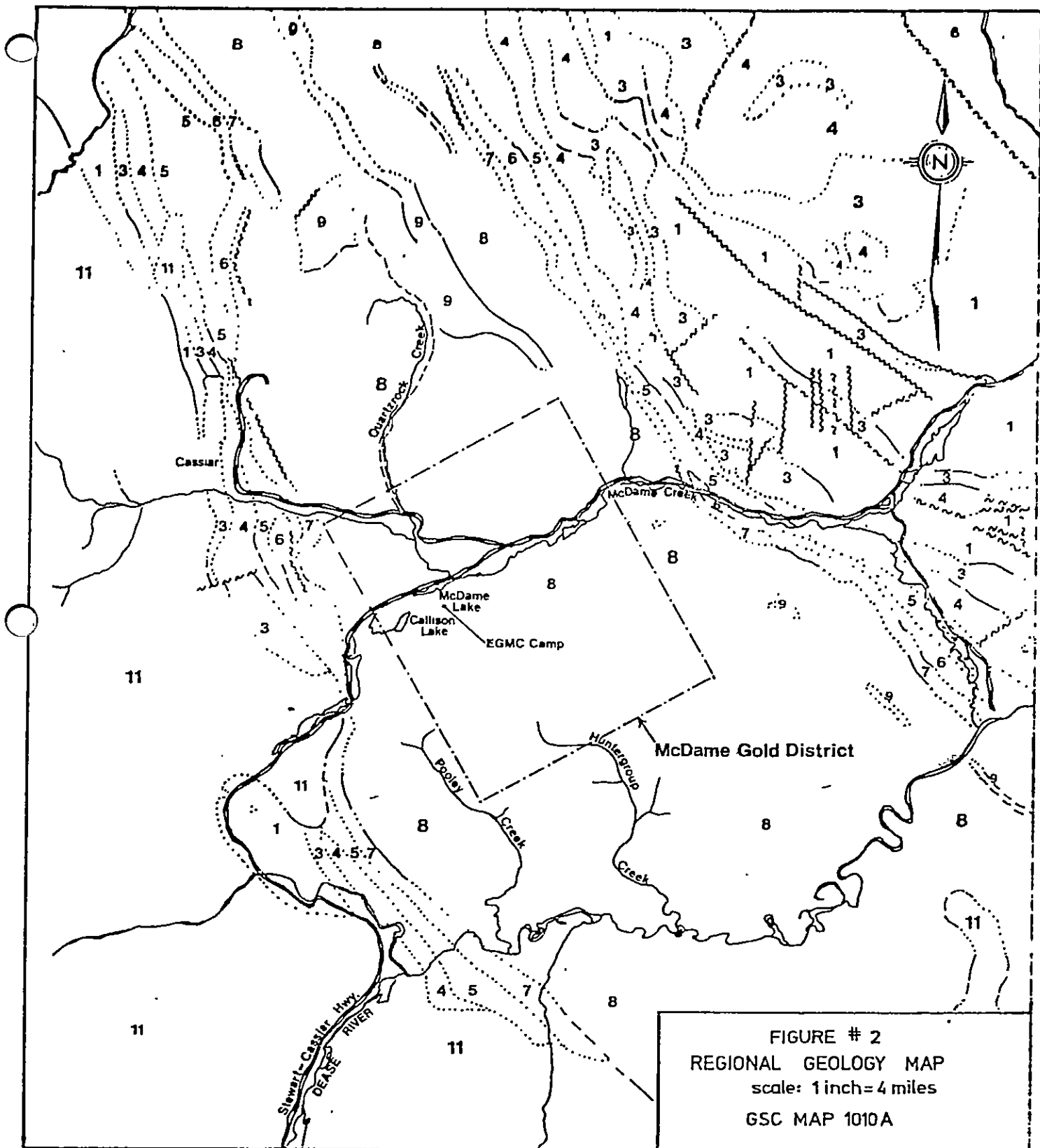


FIGURE # 2
 REGIONAL GEOLOGY MAP
 scale: 1 inch = 4 miles
 GSC MAP 1010A

LEGEND

JURASSIC AND/OR CRETACEOUS
 [11] Cassiar Intrusions

DEVONIAN
 [7] McDame Group

CAMBRIAN AND ORDOVICIAN
 [5] Kechika Group

MISSISSIPPIAN
 [9] Ultramafics

ORDOVICIAN ↔ DEVONIAN
 [6] Sandpile Group

LOWER CAMBRIAN
 [4] Alan Group

UPPER DEVONIAN AND LOWER MISSISSIPPIAN
 [8] Sylvester Group

[1] Good Hope Group

STRATIGRAPHIC COLUMN

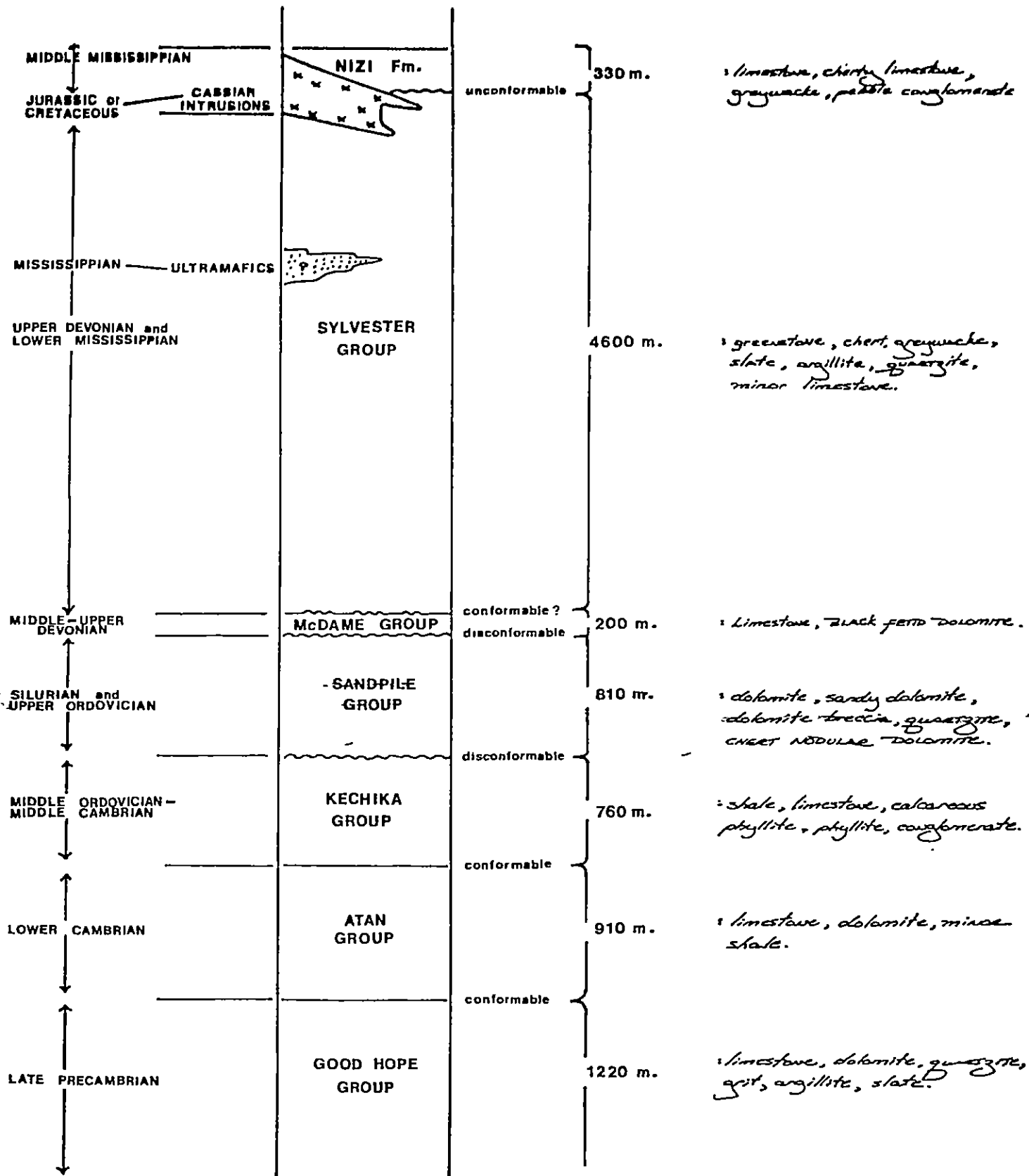


Figure No. 3

The McDame Gold District is underlain by early Mississippian to late Devonian Sylvester Group volcanic and sedimentary rocks. This unit forms the core of a northwest-southeast trending, 20° southeast plunging synclinorium. It consists of a thick sequence of greenstone, chert, greywacke, slate, shale, argillite, quartzite and minor limestone.

The stratigraphic position of the Sylvester Group is shown in figure # 3.

Ultramafic rocks of probable Mississippian age intrude the eugeosynclinal assemblage. They occur in a linear pattern from northwest to southeast along the eastern boundary of the Sylvester Group volcanic-sedimentary package.

Jura-Cretaceous granitic rocks of the Cassiar Batholith occur along the western limb of the synclinorium.

1.E. Details of 1981 Program

Field work completed in 1981 (May 18 - Oct. 22) included line cutting, soil sampling, trenching, geological mapping and diamond drilling. Table #2 is the exploration summary for this program.

(Table #2)

1981 WORK SUMMARY

| <u>SECTION</u> | (Geochem) <u>SAMPLES</u> | (km ²) <u>GEOLOGICAL MAPPING</u> | (m) <u>DIAMOND DRILLING</u> | (line km) <u>LINE CUTTING</u> |
|--------------------------|--|---|------------------------------------|--------------------------------------|
| | 578 soils | 1.21 | | 13.28 (picket line) |
| | 15 rock geochem | | | |
| NEWCOAST GRID | 62 assay | | | |
| DAVIS PORCUPINE VEINS | 169 assay | | 668.8 | |
| CALLISON CREEK | 20 assay | | 89.6 | |
| LAKEVIEW/ GOLDHILL | 173 assay | | 441.1 | |
| SKY VEIN | 24 assay | | 204.3 | |
| TOTAL | 578 soils 15 rock geochem 448 assay | 1.21 km. ² | 1403.8 m | 13.28 km. |

Geological mapping was done at a scale of 1 cm = 20 metres. Soil samples were taken at the B-horizon with hand tools. Samples were taken at 20 m intervals with fill-in sampling in anomalous zones. Trench samples were cut and groved by a Stihl TS-350 hand held rock saw. All samples were shipped to Min-En Laboratories in North Vancouver, B.C. for analysis.

NEWCOAST GRID-LOCATION MAP

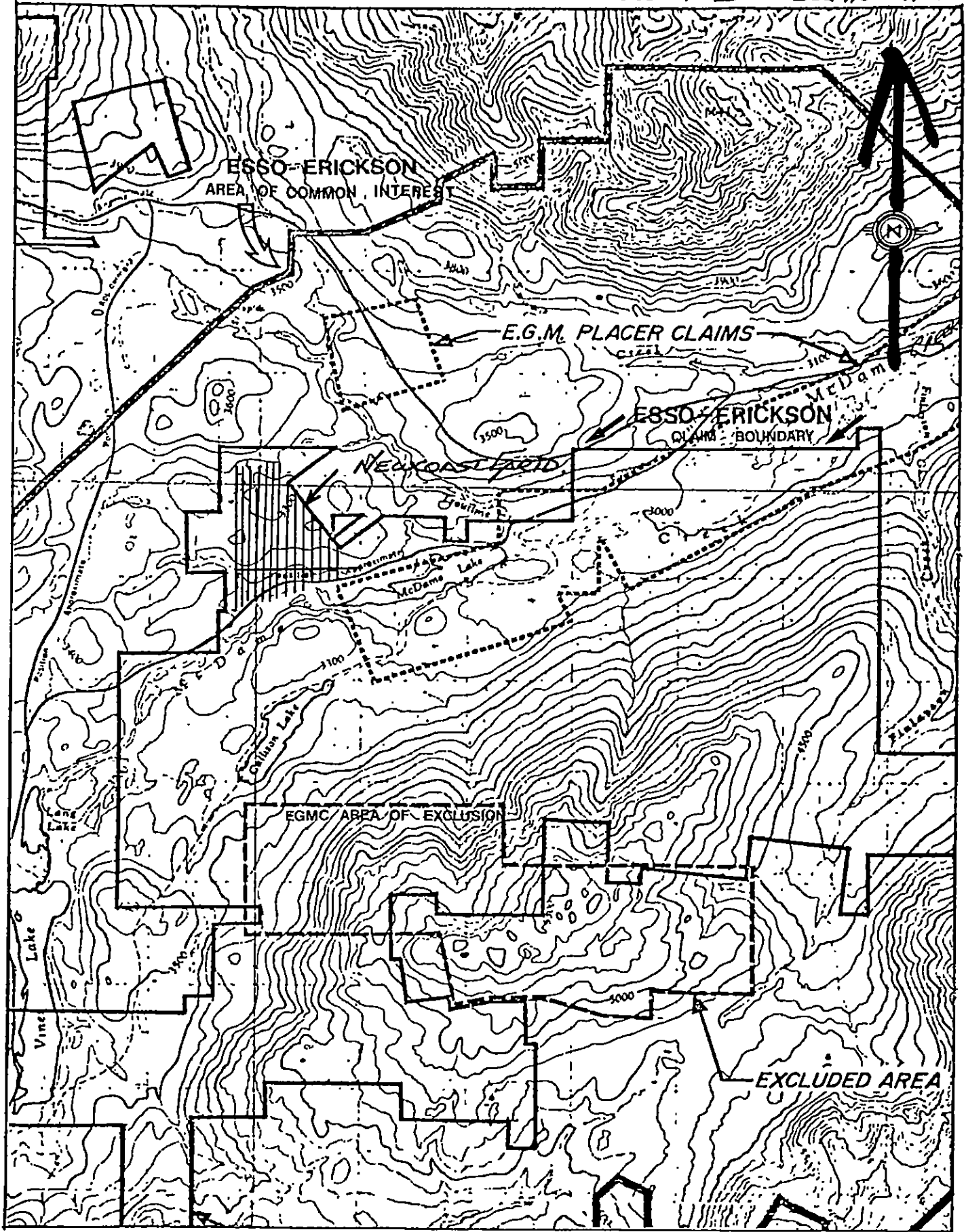


FIGURE No. 4

2. Newcoast Grid

The Newcoast Grid was established to test the lode gold/silver potential of the Sylvester Group volcanics and sediments northwest of McDame Lake. A summary of the field work conducted on the property is listed in Table #2. Figure #4 is a location map for the grid.

2.A. Geology

Newcoast Grid geology is presented on Map #2. The stratigraphic section on the map pertains to the Newcoast Grid only and is not totally representative of the geology of the McDame Gold Camp. Vein/alteration system and geological unit boundaries are poorly defined as much of the survey area is covered with bedded silts and rounded glacial debris. Surface outcrop exposures are limited to the eastern portion of the grid and directly north of the Cassiar-Stewart Highway.

Sylvester Group greenstones underlie the southern and eastern portions of the grid. They are commonly equigranular aplitic sandy-textured flows, "crackle-textured" flows, aphanitic fragmental flows, breccia, and tuffs of probable andesitic composition. The dark grey weathering character of these units has masked most surface structures. A basaltic dyke cuts the andesitic pile north of the Newcoast Vein. The unit has a sub-vertical dip and no appreciable strike length.

A variable altered volcanic flow or siliceous exhalite was identified along the andesite/argillite contact in two locations. The outcrop at grid location 10+95 W: 5+30 N was highly sheared and altered to clay and minor carbonate. Shearing along the andesite/argillite contact may have eradicated most of this unit.

Black argillites and minor grey sandstone overlie the basic volcanic sequence. A fault zone separates the two units. The sediments form the core of a north-northwest trending, $\sim 015^{\circ}$ plunging syncline. This structure appears to be a subsidiary fold genetically related to the McDame synclinorium. No quartz veins are associated with this structure.

Listwanites or altered ultramafics were discovered at grid location 9+00 W:5+00 N. This unit trends $\sim 100^{\circ}$ and is composed of talc-carbonate and minor mariposite/fuchsite and pyrite.

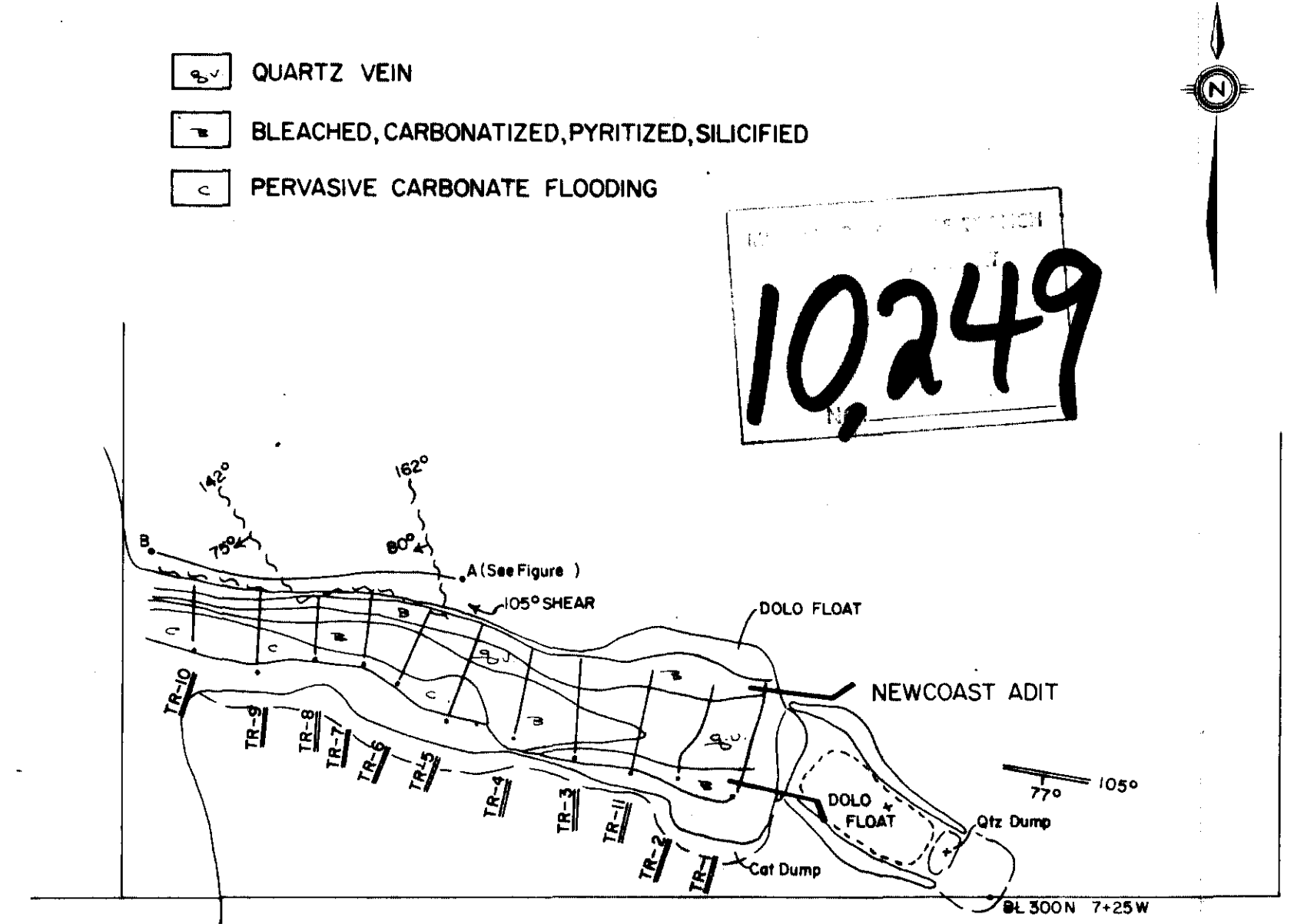
2.B. Alteration and Mineralization

Two major mineralized veins (Newcoast and #2 Vein) and one minor en echelon vein/alteration system along the Cassiar-Stewart highway were identified on the property.





(Newcoast Vein)

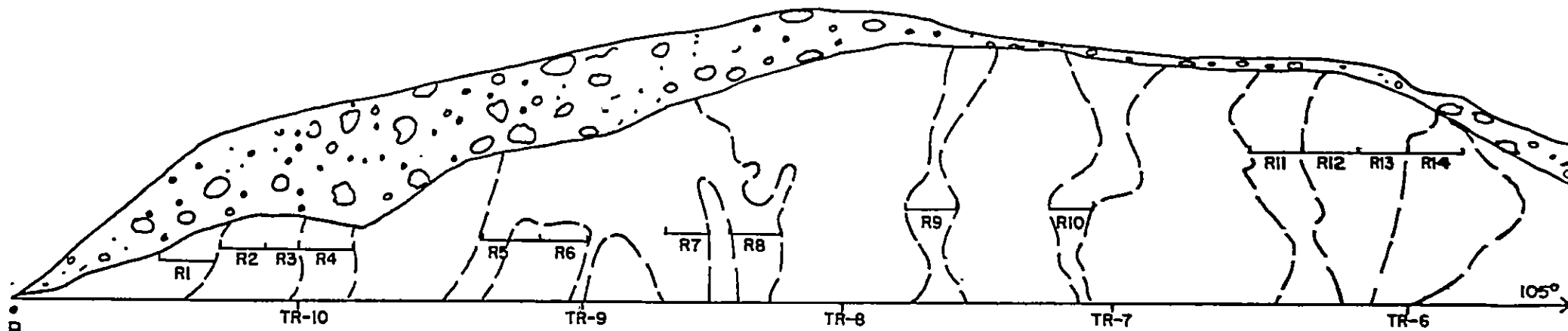
The Newcoast Vein occurs at grid location 7+40 W:3+10 N. Map #4 shows it's surface expression and the projections of all previous diamond drilling on the showing. Figure #5 is a 1:500 scale geology and sample location map of the Esso Minerals trench, testing the eastern portion of the structure.

| Trench | Sample | From | To | Width | Au | Ag | Composite Assays | Rock Type | Trench | Sample | From | To | Width | Au | Ag | Composite Assays | Rock Type | | |
|---------------------------|--------------------------|-------------------------|------|-------|------|------|---------------------|------------------|------------|------------------|-----------------|-----------------|-------|------|------|------------------|-----------|-----------|-----------|
| TR-1 7-53W 3+11N | 1769 | 0.0 | 1.5 | 1.5 | .002 | .08 | | Alt. And. | TR-6 | 7701 | 0 | 1.0 | 1.0 | .002 | .02 | | Alt. And. | | |
| | 1770 | 1.5 | 2.2 | 0.7 | .009 | .08 | | Q.V. | | 7+76W 7702 | 1.0 | 1.3 | 0.3 | .002 | .40 | | Q.V. | | |
| | 1771 | 2.2 | 2.8 | 0.6 | .001 | .23 | | Q.V. | | 3+19.5N 7703 | 1.3 | 2.3 | 1.0 | .002 | .01 | | Alt. And. | | |
| | TR-2 7-59W 3+13N | 1772 | 2.8 | 3.2 | 0.4 | .036 | .08 | | Q.V. | TR-7 | 7704 | 0 | 1.0 | 1.0 | .002 | .02 | | Alt. And. | |
| | | 1773 | 3.2 | 4.1 | 0.9 | .008 | .10 | | Q.V. | | 7+80W 7705 | 1.0 | 1.4 | 0.4 | .002 | .68 | | Q.V. | |
| | | 1774 | 4.1 | 4.9 | 0.8 | .002 | .01 | | Q.V. | | 3+20.5N 7706 | 1.4 | 2.4 | 1.0 | .009 | .09 | | Alt. And. | |
| | | TR-3 7-64W 3+16N | 1775 | 4.9 | 5.85 | 0.95 | .002 | .02 | | Q.V. | TR-8 | 7707 | 0 | 1.0 | 1.0 | .001 | .04 | | Alt. And. |
| | | | 1777 | 5.85 | 6.65 | 0.8 | .076 | .02 | .076 Au/3m | Q.V. | | 7+84W 7708 | 1.0 | 1.5 | 0.5 | .002 | .10 | | Q.V. |
| | | | 1778 | 6.65 | 7.4 | 0.75 | .001 | .56 | | Q.V. | | 3+20.5N 7709 | 1.5 | 2.5 | 1.0 | .003 | .02 | | Alt. And. |
| TR-4 7-68W 3+17N | | | 1779 | 7.4 | 8.8 | 1.4 | .023 | .05 | | Q.V. - Alt. And. | TR-9 | 7710 | 0 | 1.0 | 1.0 | .002 | .03 | | Alt. And. |
| | | | 1780 | 0.0 | 1.4 | 1.4 | .023 | .18 | | Alt. And. | | 7+89W 7711 | 1.0 | 1.3 | 0.3 | .007 | .30 | | Q.V. |
| | | | 1781 | 1.4 | 2.5 | 1.1 | .017 | .18 | | Q.V. | | 3+20N 7712 | 1.3 | 2.2 | 0.9 | .009 | .11 | | Alt. And. |
| | TR-5 7-22W 8+18.5N | | 1782 | 2.5 | 3.5 | 1.0 | .002 | .01 | | Q.V. | TR-10 | 7713 | 0 | 1.0 | 1.0 | .002 | .02 | | Alt. And. |
| | | | 1783 | 3.5 | 4.4 | 0.9 | .002 | .38 | | Q.V. | | 7+94W 7714 | 1.0 | 1.3 | 0.3 | .004 | .01 | | Q.V. |
| | | | 1784 | 4.4 | 5.2 | 0.8 | .001 | .02 | | Q.V. | | 3+21N 7715 | 1.3 | 2.3 | 1.0 | .008 | .02 | | Alt. And. |
| | | TR-11 7-16W 3+14N | 1785 | 5.2 | 5.5 | 0.3 | .057 | .04 | | Q.V. | TR-10 | 7713 | 0 | 1.0 | 1.0 | .002 | .02 | | Alt. And. |
| | | | 1786 | 5.5 | 6.4 | 0.9 | .002 | .02 | | Alt. And. | | 7+94W 7714 | 1.0 | 1.3 | 0.3 | .004 | .01 | | Q.V. |
| | | | 1787 | 0.0 | 1.0 | 1.0 | .001 | .02 | | Alt. And. | | 3+21N 7715 | 1.3 | 2.3 | 1.0 | .008 | .02 | | Alt. And. |
| 1788 | | | 1.0 | 2.1 | 1.1 | .001 | .12 | | Alt. And. | | | | | | | | | | |
| 1789 | | | 2.1 | 2.8 | 0.7 | .005 | .09 | | Q.V. | | | | | | | | | | |
| 1790 | | | 2.8 | 3.2 | 0.4 | .002 | .10 | | Alt. And. | | | | | | | | | | |
| 1791 | 3.2 | | 4.0 | 0.8 | .002 | .12 | | Alt. And. | | | | | | | | | | | |
| 1792 | 4.0 | | 4.6 | 0.6 | .002 | 7.15 | 3.94 oz Ag / 1.2 m. | Q.V. | | | | | | | | | | | |
| 1793 | 4.6 | | 5.2 | 0.6 | .001 | .61 | | Q.V. | | | | | | | | | | | |
| TR-12 7-16W 3+16N | 1794 | 5.2 | 6.2 | 1.0 | .01 | .13 | | Alt. And. | | | | | | | | | | | |
| | 1795 | 0.0 | 0.8 | 0.8 | .01 | .07 | | Alt. And. | | | | | | | | | | | |
| | 1796 | 0.8 | 1.4 | 0.6 | .01 | .05 | | Q.V. | | | | | | | | | | | |
| | 1797 | 1.4 | 2.2 | 0.8 | .001 | .06 | | Alt. And. | | | | | | | | | | | |
| | 1798 | 2.2 | 2.7 | 0.5 | .002 | .08 | | Alt. And. | | | | | | | | | | | |
| | 1799 | 2.7 | 3.6 | 0.9 | .001 | .09 | | Alt. And. | | | | | | | | | | | |
| | 1800 | 3.6 | 4.2 | 0.6 | .01 | .11 | | Alt. And. + Q.S. | | | | | | | | | | | |
| | 0401 | 4.2 | 5.1 | 0.9 | .003 | .10 | | Q.V. + Alt. And. | | | | | | | | | | | |
| | 0402 | 5.1 | 6.0 | 0.9 | .011 | .17 | | Alt. And. + Q.S. | | | | | | | | | | | |
| TR-13 7-68W 3+17N | 0403 | 6.0 | 7.0 | 1.0 | .002 | .06 | | Alt. And. + Q.S. | | | | | | | | | | | |
| | 0404 | 0.0 | 1.1 | 1.1 | .002 | .09 | | Alt. And. | | | | | | | | | | | |
| | 0405 | 1.1 | 2.05 | 0.95 | .002 | .08 | | Alt. And. | | | | | | | | | | | |
| | 0406 | 2.05 | 2.75 | 0.7 | .003 | .10 | | Alt. And. | | | | | | | | | | | |
| | 0407 | 2.75 | 3.5 | 0.75 | .001 | .08 | | Alt. And. | | | | | | | | | | | |
| | 0408 | 3.5 | 4.3 | 0.8 | .001 | .02 | | Alt. And. | | | | | | | | | | | |
| | 0409 | 4.3 | 5.3 | 1.0 | .001 | .08 | | Alt. And. | | | | | | | | | | | |
| | 0410 | 5.3 | 5.6 | 0.3 | .028 | 3.69 | 3.69 Ag/3m. | Q.V. | | | | | | | | | | | |
| | 0411 | 5.6 | 6.6 | 1.0 | .009 | .08 | | Alt. And. + Q.S. | | | | | | | | | | | |
| TR-14 7-22W 8+18.5N | 0412 | 0.0 | 1.0 | 1.0 | .001 | .08 | | Alt. And. | | | | | | | | | | | |
| | 0413 | 1.0 | 1.9 | 0.9 | .001 | .07 | | Alt. And. | | | | | | | | | | | |
| | 0414 | 1.9 | 2.6 | 0.7 | .001 | .09 | | Alt. And. | | | | | | | | | | | |
| | 0415 | 2.6 | 3.6 | 1.0 | .001 | .02 | | Alt. And. | | | | | | | | | | | |
| | 0417 | 5.1 | 6.6 | 1.5 | .007 | 6.52 | 6.52 oz Ag / 1.5 m. | Q.V. | | | | | | | | | | | |



NEWCOAST VEIN
Saw Sample Location and Assay Map
SCALE 1:500

-  OVERBURDEN
-  BLEACHED FAULT ZONE (Qtz Py Stringers)
-  GOSSANOUS SHEAR ZONE
-  CARBONATIZED ANDESITE



NEWCOAST VEIN SHEAR ZONE

| | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ag ppm | 1.2 | 0.4 | 0.3 | 0.8 | 0.4 | 0.4 | 1.4 | 1.2 | 1.8 | 1.6 | 0.6 | 0.4 | 0.4 | 1.0 |
| Au ppb | 10 | 5 | 5 | 5 | 20 | 5 | 5 | 10 | 5 | 5 | 5 | 5 | 75 | 5 |
| As ppm | 13 | 1 | 1 | 37 | 12 | 1 | 7 | 1 | 3 | 7 | 15 | 6 | 3 | 50 |

SCALE 1:100

0 1.0m.

figure 6

The vein is orientated @ 105-110°/50-70° S. It has a known strike length of 200 metres. The structure is lost in overburden to the northwest and to the southeast where it trends into McDame Lake. Vein widths vary for .03-1.0 metres although widths up to 6.0 metres were noted in trenches.

Vein mineralization is restricted to tetrahedrite, pyrite and minor sphalerite, chalcopyrite and graphite. Malachite and azurite occur on weathered surfaces. Coarse euhedral pyritohedrons are common in the wallrock alteration envelopes.

The Newcoast vein is fault controlled. Footwall and hanging wall contacts are sheared. An irregular white to intensely limonite stained shear zone occurs along the vein footwall, figure #6. The andesites are bleached and appear to be totally replaced by clay minerals. Remnant quartz-pyrite stringers were identified in the fragments. Rock geochem samples were taken from the shears and analyzed for Au, Ag and As. No precious metal values are associated with these zones.

Anomalous Au/Ag assays obtained from the Newcoast Vein are listed in Table #3. Samples from the trench, figure #6, were cut with a rock saw. Channel samples across the vein width and altered wallrock, were taken at 5 metre intervals.

(Table #3)

NEWCOAST VEIN-LIST OF ASSAYS

| <u>Trench</u> | <u>Width</u> | <u>Au</u> | <u>Ag</u> |
|---------------|--------------|-----------|-----------|
| 5 | 1.5 | .007 | 6.52 |
| 4 | 0.3 | .028 | 3.69 |
| 11 | 1.2 | .001 | 3.94 |
| 1 | 0.8 | .076 | .02 |

The structure is not a consistent gold carrier. Anomalous silver values are attributive to tetrahedrite mineralization. It occurs in a patchwork fashion along the vein strike. Only the channel samples which have cut sections with notable (1-2%) tetrahedrite mineralization, gave anomalous silver assays.

(No. 2 Vein)

The No. 2 Vein is located near Quartzrock Creek, at grid location 9+80 W:10+20 N. The vein strikes 112° and dips 77° SW; roughly parallel to the Newcoast Vein. A limited strike length of 50 metres has been defined for this structure. It is lost in overburden to the northwest and appears to pinch out to the southeast, near Quartzrock Creek.

Finely disseminated tetrahedrite mineralization was noted throughout the structure. Chalcopyrite, pyrite, sphalerite and graphite occur as accessory mineralization.

(Highway Vein System)

Six $040-060^{\circ}$ trending, vertical to steep north dipping veins occur along the Cassiar Stewart Highway. These veins appear to be both joint and shear controlled. They are essentially barren of sulphide mineralization, with traces of pyrite occurring only along vein selvages. No precious metal values are associated with these structures.

2.C. Geochemistry

Soil geochemical results are shown on geochem maps (6,7 and 8). Estimated background and threshold values are listed below, in Table 4.

(Table #4)

Newcoast Grid : Geochemical Statistics

| <u>Element</u> | <u>Background Range</u> | <u>Threshold</u> |
|----------------|-------------------------|------------------|
| Au | 5-35 ppb | 110 ppb |
| Ag | .5-1.5 ppm | 2.5 ppm |
| As | 5-25 ppm | 100 ppm |

Geochemical Results

(a) L 7+00W:3+20N - 3+40N

Anomaly (a) is located immediately north of the Newcoast Vein trenched zone. The soils are anomalous in Au (80-105 ppb) and As (125-135 ppm). Silver geochem is low. This anomaly does not appear to be related to the Newcoast Vein. Soils were not taken over the vein as previous trenching and road construction has disturbed overlying tills. Anomalous Ag geochem would also be expected.

(b) L 10+00W:2+20N

One sample gold anomaly (225 ppb). The anomaly may represent a continuation, azimuth 040⁰, of the bleached carbonatized zones occurring at grid location 11+00W:1+00N.

Altered andesites were also noted in a trench 30 metres northeast of the sample site.

(c) L 10+00W:7+50N.

One sample gold anomaly, 155 ppb.

(d) L 11+00W:2+90S.

One sample gold (105 ppb) and arsenic (114 ppm) anomaly.

(e) L 11+00W:3+30N, 4+30N, 4+40 N.

One sample arsenic anomalies, 110-200 ppm.

(f) L 11+00W:10+60N.

One sample possibly anomalous gold value located 10 metres northwest of the No. 2 vein. No silver or arsenic highs are associated with this structure.

(g) L 11+00W:7+00N, 7+80N, 8+80N, 11+50N, 11+60N

L 12+00W:2+60N, 10+40N

One sample silver highs; 2.6-3.3 ppm. These areas have poor outcrop exposure and are underlain by argillites. Sources of the anomalous silver geochem have not been defined.

(h) L 12+00W:9+60N (Ag), 9+70 N (Au)

One sample silver (2.6 ppm) and gold (65 ppb) highs.

(i) L 13+00W:0+80N, 1+40N

One sample gold (50-65 ppb) and arsenic (129-163 ppm) anomalies. These probably anomalous values may be associated with the 040-060⁰ trending vein system located along the Cassiar-Stewart Highway.

(j) L 13+00W:2+60N

One sample arsenic anomaly; 120 ppm.

(k) L 13+00W:10+50N - 10+70N

L 18+00W:10+00N, 10+20N, 10+40N, 11+10N.

Silver anomalies, 2.6-11.6 ppm, occur along lines 13+00W and 18+00W. All of the values are located in/or peripheral to marshes. The anomalies could be attributed to the surficial enrichment of silver from these recessive environments.

(l) L 14+00W:0+70N

One sample arsenic anomaly; 1950 ppm.

(m) L 15+00W = 0+00N, 0+80N, 1+90N

One sample gold anomalies; 50-310 ppb.

DAVIS-PORCUPINE GRID LOCATION MAP

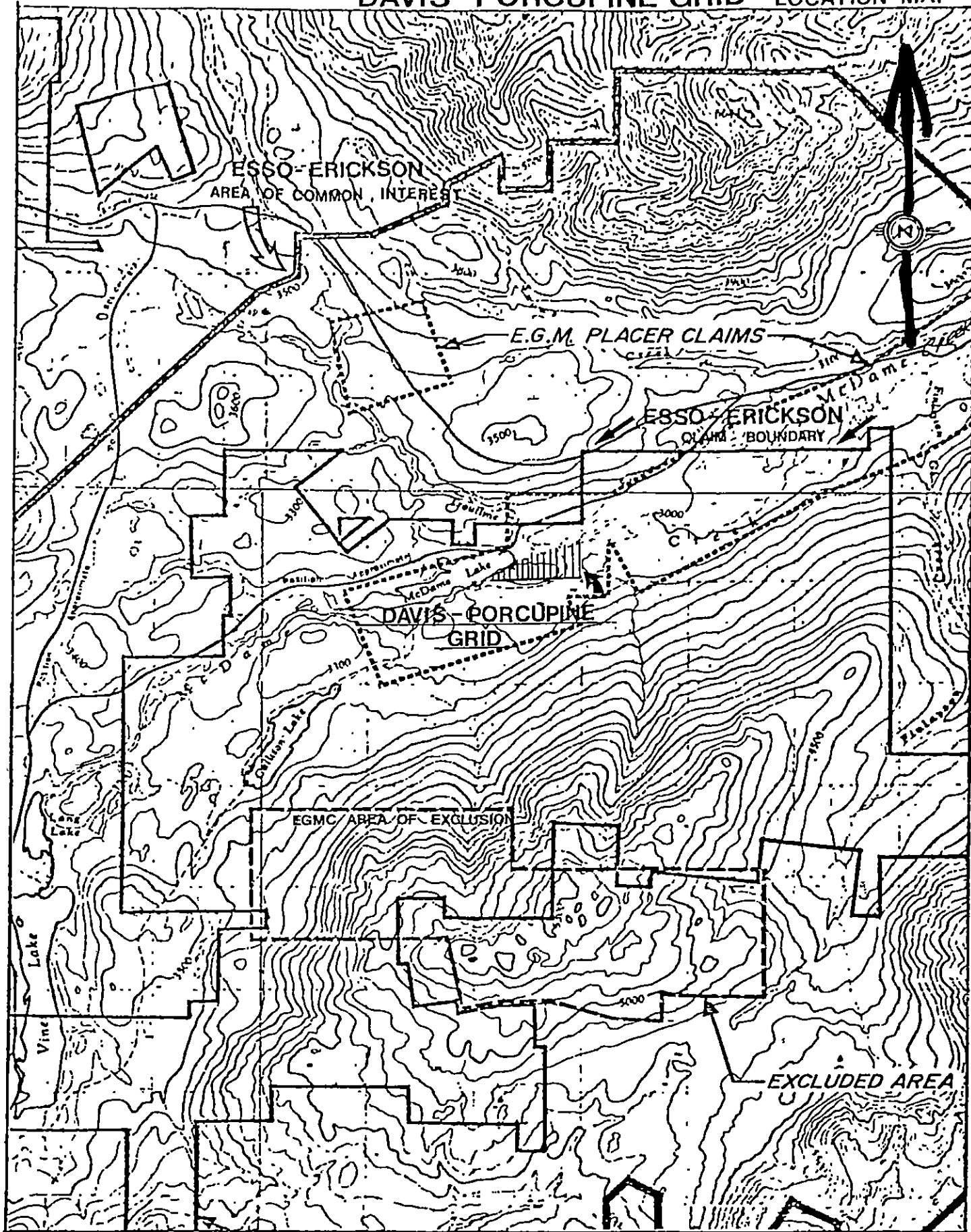


FIGURE No. 7

3. Diamond Drilling

3.A. Davis-Porcupine Veins

The Davis-Porcupine Grid is located south of the junction of McDame Lake, McDame Creek and Troutline Creek, figure #7. Surface projections of drill holes MBC 81-1 to 81-4 and MBC 81-12 to 81-14 are shown on figure #8.

Geology

The Davis-Porcupine Grid is entirely underlain by basic volcanic rocks. The volcanics comprise a thick intercalated sequence of aplitic sandy textured flows, aphanitic fragmental flows, tuffs and breccias. All of these units have a weak to intense crackle texture associated. The crackling of the volcanics appears to be a primary depositional texture and not directly attributive to the vein systems in the area.

Alteration and Mineralization

Several 075-090° trending, south dipping bleached carbonatized zones and associated quartz veins occur on the Davis-Porcupine Grid. Two major free gold-tetrahedrite bearing veins (Davis and Porcupine #1 and #2) transverse the grid. These structures were tested by diamond drilling in 1981. All of the drill holes listed below occur in Group C. Drill core is stored at the Esso exploration camp.

DAVIS-PORCUPINE DRILL HOLE PROJECTIONS

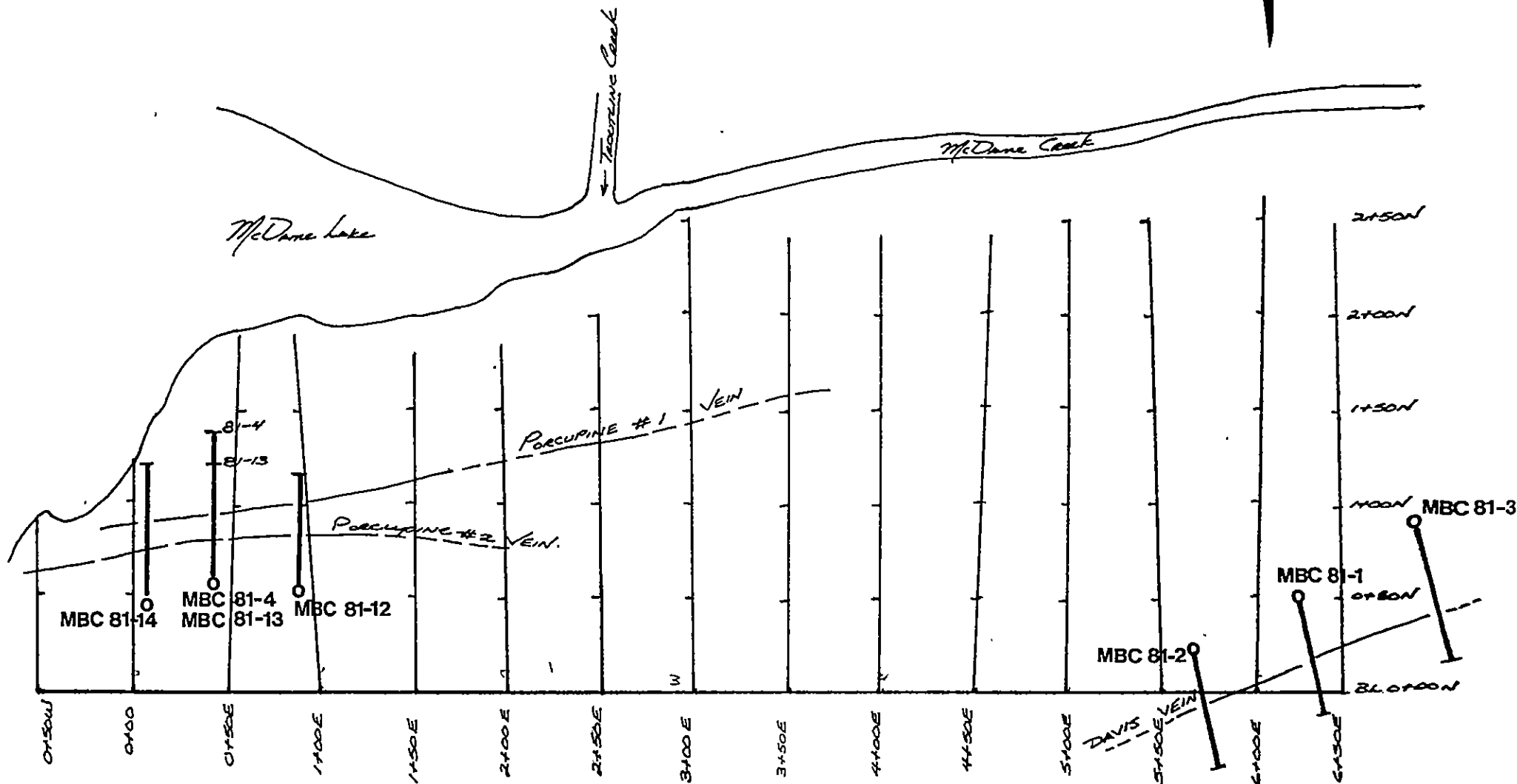


FIGURE No. 8

SCALE 1:3000

Diamond Drilling

MBC 81-1, MBC 81-2, MBC 81-3 - Target: Davis Vein

Drill holes MBC 81-1 and MBC 81-2 cut the Davis Vein approximately 33.0 metres down dip. The objective of MBC 81-3 was to test for a possible extension of the structure below a deep overburden blanket to the northeast.

In drill hole 81-1, the Davis Vein splays into four parallel quartz stringers from 52.1-53.2 metres. This zone assayed .021 oz Au and .02 oz Ag across 1.1 metres.

In MBC 81-2 the Davis Vein was intersected from 59.8-60.95 metres. Approximately 25% of the vein was lost in ground core. The vein maintains a true width of 0.7 m from surface to 33.0 metres. Gold and silver values are present as trace amounts only. Approximately 1.85 m of the bleached vein footwall assayed .032 oz Au/t. A 4 cm tetrahedrite bearing quartz veinlet was noted @ 12.0 m. The 1.0 metre sample from 11.9-12.9 m assayed .418 oz Au/t and .16 oz Ag/t.

Four bleached carbonatized zones occur in MBC 81-3. Broad continuous zones of pervasive carbonate flooding separate each showing. This may reflect the eastern termination of the Davis Vein. Horsetailing of the fracture zones to the north, at a slight angle to the 81-3 core axis, could also account for the broad alteration envelopes. Precious metal values for the bleached intersections are low.

MBC 81-4, MBC 81-12, MBC 81-13, MBC 81-14:

Target-Porcupine Veins

Esso Resources Canada Ltd. drilled 4 holes on the Porcupine showings in 1981. Both veins pinch to 0.1-0.2 metres at depth. Each structure is characterized by grey-black, shattered to sub-brecciated, pyritic alteration envelopes. Gold mineralization may be associated with these brittle silicified, carbonatized zones. Traces of mariposite/fuchsite are common in the # 1 vein.

The Porcupine #1 vein assayed .485 oz Au/t and 1.03 oz Ag/t across 1.9 metres in MBC 81-4. It extends known gold mineralization from surface to 50 metres. Drill hole 81-13 is a 65° hole drilled from the 81-4 collar. Assays from MBC 81-12, MBC 81-13 and MBC 81-14 are low.

The Porcupine #2 vein is weakly anomalous in gold. Values range from .019-.071 oz Au/ton.

A sheeted series of pyritic shears occurs along the #1 vein footwall. There are no quartz veins associated with these structures. They typically contain 3-10% fine grained subhedral pyrite occurring as disseminations and in crosscutting bands. Andesitic volcanics within these zones are altered to clay minerals and minor carbonate.

Drill hole MBC 81-13 was stopped on the edge of a bleached stringer zone. Five flecks of visible gold were noted in a 5 mm quartz stringer. The 0.15 metre section assay .232 oz Au and .01 oz Ag/ton.

CALLISON CREEK BRECCIA ZONE LOCATION MAP

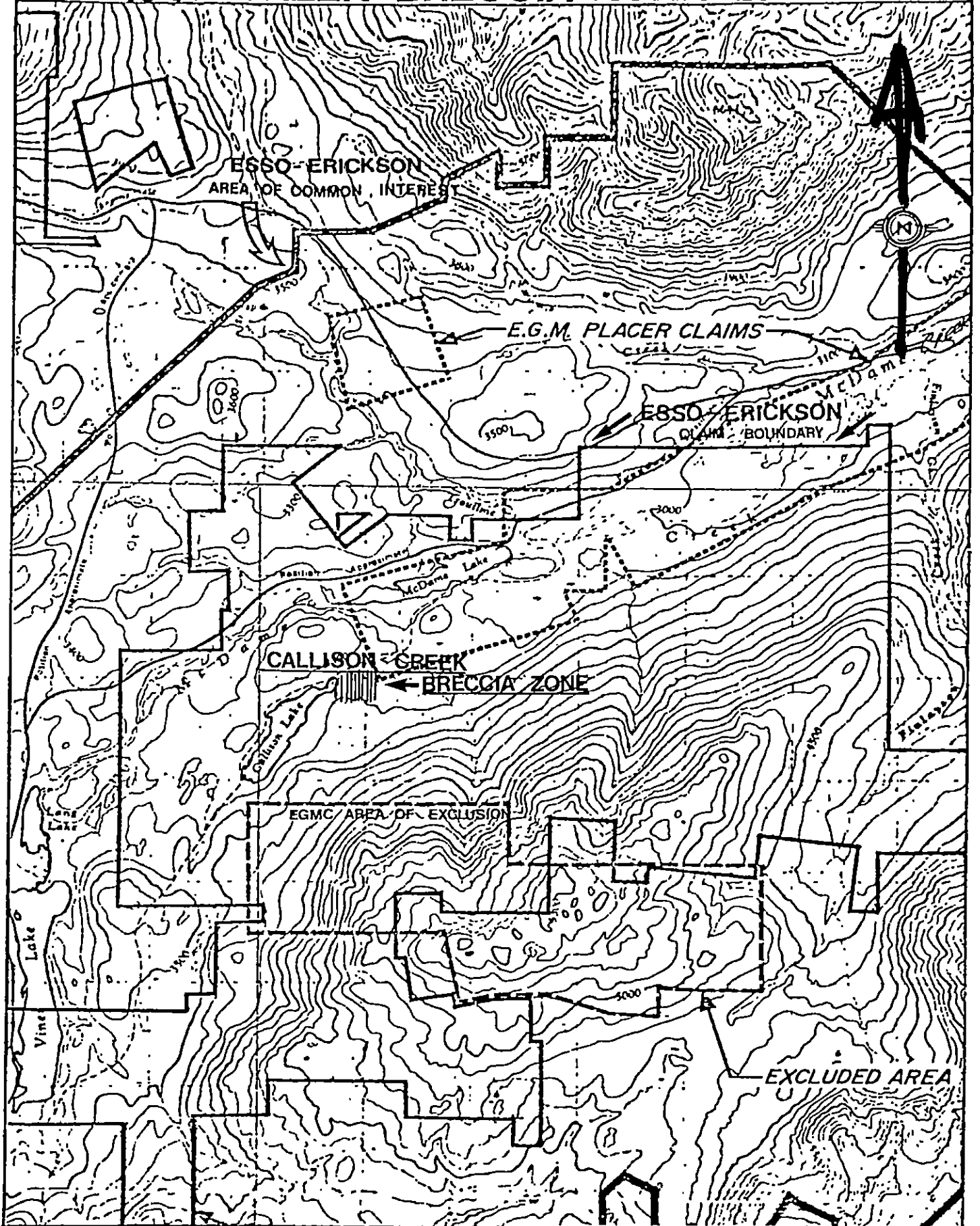


FIGURE No.

9

3.B. Callison Creek Breccia Zone

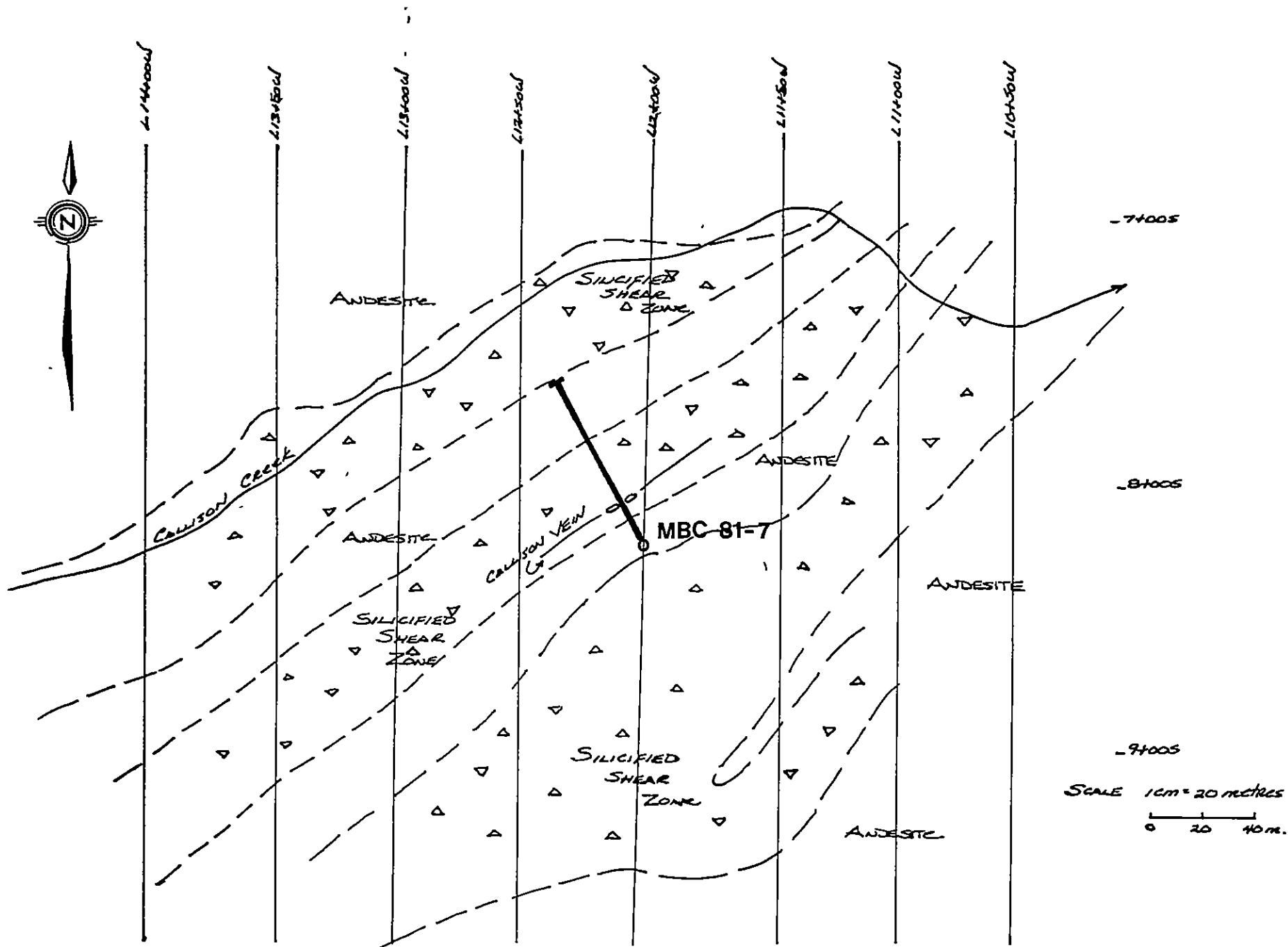
The Callison Creek Breccia Zones are located south of Callison Creek and east of Callison Lake; figure #9. This area is underlain by Sylvester Group greenstones. Outcrop exposures are limited as the gridded area shown on figure #10 is flat and humochy. The shear zones occur as resistant ridges and are easily located in the field. The basic volcanics which separate these structures are often marsh covered.

Volcanic units identified in this portion of the property are typical of the McDame Valley. They constitute aphanitic crackled to fragmental flows, aplitic flows, porphyritic flows, tuffs and breccias. Orientation of the breccias is to the northwest.

Alteration and Mineralization.

A silicified shear zone is simply a major explosion fault-breccia. It contains approximately 60-80% angular clay-carbonate altered fragments in a grey blue silica-carbonate-pyrite matrix. Locally, fragments may be shattered and selectively compacted by the siliceous breccia matrix. Contacts to the volcanics are sheared. Partially bleached altered andesite fragments are common along shear fringes.

Sulphide mineralization is restricted to pyrite only. It occurs as fine disseminations and as coarse crosscutting



CALLISON CREEK: DRILL HOLE LOCATION MAP

FIGURE No. 10

bands. Pyrite content may vary from Tr-15%.

Quartz veins within the shear zones occur as discrete pods and lenses. The Callison Vein, figure 10, is the only vein-type structure with an anomalous gold content.

Diamond Drilling - MBC 81-7

The objective of drill hole MBC 81-7 was to test the Callison Vein gold showing and the silicified shear zone's large tonnage - low grade gold potential.

Precious metal values from the drill hole are poor. A bleached-carbonatized quartz stringer zone from 9.4-13.7 metres assayed .035 oz Au/t across 4.3 metres. This is the only anomalous gold intersection in the hole.

The Callison quartz lens appears to pinch out near surface and was not located in drill core. Assays from the shear zone are very low. Drill core for MBC 81-7 is stored at the Esso base camp.

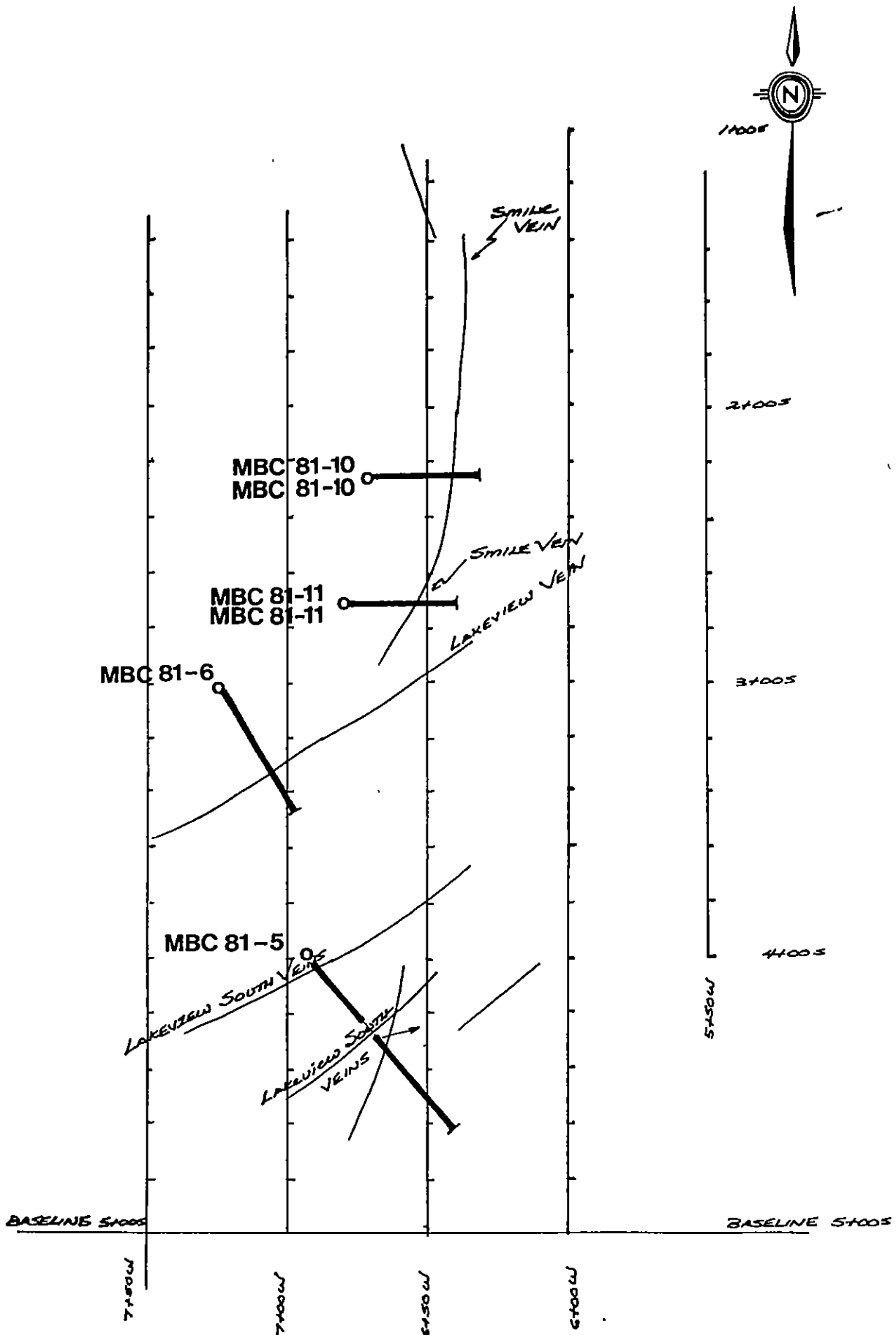
3.C. Lakeview/Goldhill Veins

Sylvester Group greenstones underlie the Lakeview/Goldhill showings; figure #11. The volcanics comprise a thick intercalated sequence of aphanitic to aplitic flows, tuffs, fragmental flows, microporphyrific flows and breccias of probable andesitic composition. This volcanic sequence is typical of the McDame Creek Valley.

Alteration and Mineralization

Two main vein systems have been identified on the Lakeview/Goldhill grid; figure #12. The Lakeview veins trend 060-075°. They are vertically dipping structures with limited strike lengths (50-100 metres). The veins contain impressive pockets of tetrahedrite mineralization and traces of visible gold.

The Smile Vein is a packed interfingering network of intensely pyritic veins, which trend north-south and dip steeply to the west. The veins contain 5-30% pyrite and traces of arsenopyrite. Fine flecks of visible gold have been identified in outcrop.



LAKEVIEW GOLDHILL: DRILL HOLE LOCATION MAP

FIGURE No. 12

Diamond Drilling

MBC 81-5: Target - Lakeview South Veins

The Lakeview South Veins were intersected from 9.7-21.9 metres. Gold assays varied from .001-.04 oz Au/t. Silver values were low. Six additional quartz stringer - carbonate altered zones were noted. One zone has an appreciable gold content; .400 oz Au/t across 1.15 metres from 89.5-90.65 metres.

MBC 81-6: Target - Lakeview Vein.

Drill hole 81-6 cut the Lakeview Vein/alteration system from 48.8-64.2 metres. The vein splays into sixteen en echelon .05-.3 metre quartz stringers at depth. Tetrahedrite was noted in each vein. The vein at 60.9-61.0 metres contained visible gold.

MBC 81-10; MBC 81-10A: Target - Smile Vein.

Drill holes 81-10 (-45°) and 81-10A (-65°) were drilled from the same collar. MBC 81-10 cut the Smile Vein from 23.4-29.3 metres. Pyrite content varied from 5-30%. Approximately 50-70% pyrite occurs along the vein selvages. Gold assays varied from .008-.05 oz Au/t. Silver assays are low.

The Smile Vein pinches to a 1.6 metre width in MBC 81-10A. The vein was split into four stringers. The gold content for this section was .174 oz Au/t across 1.6 metres.

MBC 81-11; MBC 81-11A: Target - Smile Vein.

Drill holes 81-11 (-45°) and 81-11A (-65°) were drilled from the same collar. MBC 81-11 cut the Smile Vein from 30.4-42.55 metres. Gold assays varied from .007-.023 oz Au/t. Silver assays are generally low. A 1.0 metre section from 40.8-41.8 m assayed 1.15 oz Ag/t.

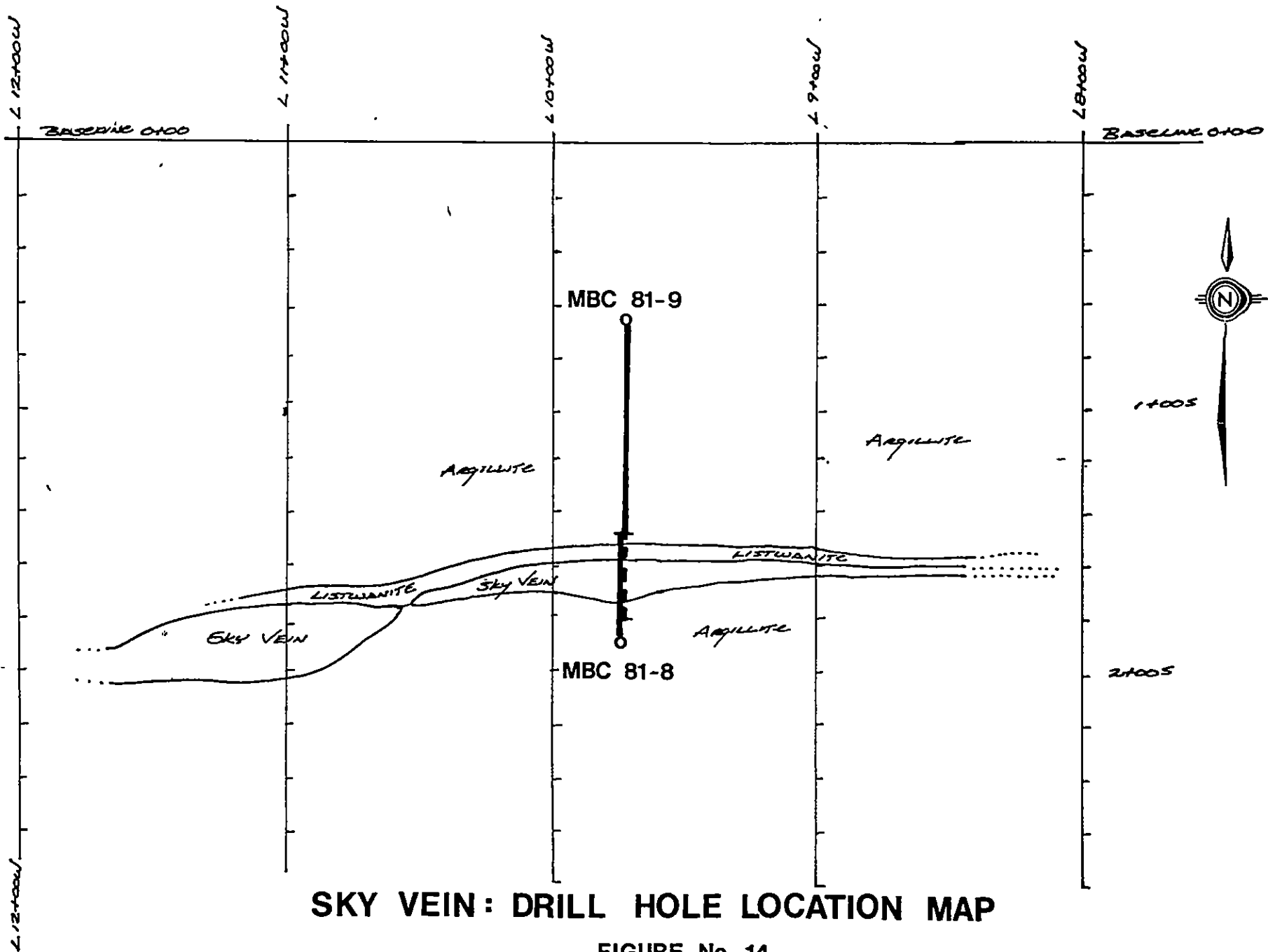
The Smile Vein splayed in 10, .01-2.3 metre, veins at depth. Precious metal content is low.

3.D. Sky Vein

The Sky Vein is located east of Vines Lake; figure #13. It occurs in black argillaceous sediments, parallel to a talc-carbonate-fuchsite-pyrite-bearing listwanite; figure #14. Sedimentary rocks are black carbonaceous argillites containing angular fragments and rafts of grey sandstone, greywacke and grey-green calcareous siltstone. The sediments appear as a breccia in drill core. This texture was not noted on surface.

Alteration and Mineralization

The Sky Vein is an east-west trending, steep north-dipping structure which appears to be injected along the edge of an altered ultrabasic dyke. The vein contains appreciable tetrahedrite, sphalerite and graphite. Traces of pyrite and chalcopyrite were also noted.



SKY VEIN: DRILL HOLE LOCATION MAP

FIGURE No. 14

Diamond Drilling

MBC 81-8

Drill hole 81-8 cut the Sky Vein from 39.8-46.3 metres. Angular listwanite fragments occur throughout the vein. Gold assays varied from .007-.020 oz Au/t. Silver assays are low.

MBC 81-9

Drill hole 81-9 intersected the vein from 149.6-156.1 metres. The vein occurs as an intense quartz stockwork. The hole was lost at 156.1 metres in bad ground; still in quartz veining. Gold assays vary from .001-.008 oz Au/t. Silver assays are low.

STATEMENT OF QUALIFICATION

I am a Bachelor of Science graduate from the University of
New Brunswick (May 1977) and have been employed as an
exploration geologist within the mining industry for six years.



CAL C. EVERETT

SUMMARY OF COSTS

Summary of Newcoast Grid Costs

| <u>Type of Work</u> | <u>Man Days</u> | <u>Cost/Man Day</u> | <u>Cost</u> | <u>Total</u> |
|---------------------|-----------------|---------------------|-------------------|--------------|
| Geology | 9 | \$ 123.00 | \$ 1107.00 | |
| | 7 | 86.00 | 602.00 | |
| | 2 | 73.00 | <u>146.00</u> | |
| | | | | \$ 1855.00 |
| Geochemistry | 6 | \$ 86.00 | \$ 516.00 | |
| | 29 | 73.00 | <u>2117.00</u> | |
| | | | | \$ 2633.00 |
| Linecutting | 22 | \$ 150.00 | \$ <u>3300.00</u> | |
| | | | | \$ 3300.00 |

Geochemical Analytical Charges

| <u>Sample Type</u> | <u>Number</u> | <u>Analyzed Elements</u> | <u>Cost</u> | <u>Total</u> |
|------------------------------------|---------------|--------------------------|----------------|--------------|
| Soil (Avg. \$10.00/unit) | 578 | Au/Ag/As | \$5780.00 | |
| Rock Geochem (Avg \$10.00/unit) | 15 | Au/Ag/As | 150.00 | |
| Assay (Avg \$16.75/unit) | 62 | Au/Ag | <u>1038.50</u> | |
| | | | | \$6968.50 |
| Geochemical Freight Charge | | | | \$637.00 |
| Bulldoze Work; 10 hrs @ 65.00/hr | | | | \$650.00 |

| | | |
|--|------------------|-----------------|
| Food and Accommodation: June 2-7, July 21-24, July 30-Aug. 3, Oct 1-5 75 man days - average cost @ \$30.00 day | | \$2250.00 |
| Camp Support Costs 20 man days @ \$86.00 per day | | \$1720.00 |
| Truck Rentals 20 days @ \$69.70 per day | \$1394.00 | |
| Fuel | <u>\$ 395.00</u> | |
| | | \$1789.00 |
| Materials and Supplies | <u>\$ 350.00</u> | |
| | | <u>\$350.00</u> |
| TOTAL: NEWCOAST GRID | | \$22152.50 |

SUMMARY OF DIAMOND DRILLING COSTS

1. Bulldozer costs are costs of drill site preparation and drill mobilization to the collars.

| | |
|-----------------------|-----------|
| 70 hours @ 65.00/hour | \$4550.00 |
| Avg. cost per hole | 325.00 |

2. Mobilization-Demobilization costs for the drill are proportioned according to the footage of each hole as a portion of the 4608 feet of contracted drilling. The total cost is estimated as follows:

| | |
|----------------------------------|-----------|
| Mob-Demob as per contract | \$4746.00 |
| Mob, Labour 40 hr @ \$190/hr | 760.00 |
| Demob, Labour 52 hr @ \$19.00/hr | 988.00 |
| Mob-Demob cost per foot | 1.41 |

3. Camp costs are estimated at \$30.00 per man day as follows:

General camp operation costs were estimated at \$14,752.00, in 1981. Food supplies for the field season totalled \$16,666.00. The camp was used for 154 days during the field season accommodating 1032 man days of work. The daily camp cost is estimated to be \$30.00.

4. Camp support costs are estimated at \$86.40 day based on a cook at \$76.00/day and transportation at \$10.40/day.

COST STATEMENT - GROUP A

Drill Site Preparation; July 24,27,28; Sept.10,12,13,14.

7 sites @\$325.00/site \$2275.00

Drilling DDH 5,6,7,10,10A,11,11A

110 ft. at 21.00 ft. \$2,310.00

1634 ft. at 19.50 ft. 31,863.00

Labour 159 hrs. @ \$19.00/hr. 3,021.00

Mob-Demob, 1744 ft. @ \$1.41 ft. 2,459.04

Assays 193 @ \$16.75 3232.75

Core Boxes 75 @ \$5.00 375.00

Geologist, 13 days @ \$123.00 1,599.00

Assistant, 13 days @ \$73.00 949.00

Room and Board, 78 man days @ \$30.00 2,340.00

Camp Support Cost, 13 days @ \$86.40 1,123.20

TOTAL \$ 51,546.99

Cost per foot \$29.55

COST STATEMENT - GROUP B

Drill Site Preparation; Sept. 1,4

2 sites @ \$325.00/site \$650.00

Drilling DDH 8,9

50 ft @ \$21.00 ft \$1,050.00

620 ft. @ \$19.50 ft 12,090.00

Labour 68 hrs @ \$19.00/hr 1,292.00

Mob-Demob, 670 ft @ \$1.41 ft 944.70

Assays, 24 @ \$16.75 452.25

Core Boxes 28 @ \$5.00 140.00

Geologist, 9 days @ \$123.00/day 1,107.00

Assistant, 9 days \$ \$73.00/day 657.00

Room and Board, 54 man days @ \$30.00 1,620.00

Camp Support Cost, 13 days @ \$86.40 1,123.20

TOTAL \$21,126.15

Cost per foot \$31.53

COST STATEMENT - GROUP C

Drill Site Preparation; July 12,17,19,22;
Sept 16,18,21

7 sites @ \$325.00/site \$2,275.00

Drilling DDH 1,2,3,4,12,13,14

182 ft @ \$21.00 ft \$3,822.00

2012 ft @ \$19.00 ft 38,228.00

Labour, 129 hrs @ \$19.00/hr 2,451.00

Mob-Demob, 2194 ft @ \$1.41 ft 3,093.54

Assays, 169 @ \$16.75 2,830.75

Core Boxes, 90 @ \$5.00 450.00

Geologist, 20 days @ \$123.00/day 2,460.00

Assistant, 20 days @ \$73.00/day 1,460.00

Room & Board, 120 man days @ \$30.00 3,600.00

Camp Support Cost, 20 days @ \$86.40 1,728.00

TOTAL \$62,398.29

Cost per foot \$28.44

TOTAL COSTS - MCDAME PROJECT

Newcoast Grid \$ 22152.50

| | | |
|-------------------|---------|----------|
| Diamond Drilling: | Group A | 51546.99 |
| | Group B | 21126.15 |
| | Group C | 62398.29 |

Report Preparation:

| | |
|---------------------------------|----------------|
| Writing 20 days @ \$123.00/day | \$2460.00 |
| Drafting 10 days @ \$121.00/day | 1210.00 |
| Map Reproduction | 150.00 |
| | <u>3820.00</u> |
| TOTAL | \$161,043.93 |

COST DISTRIBUTION

Costs are distributed prorata according to the amount of work completed in each group.

| | <u>TOTAL</u> | <u>GROUP A</u> | <u>GROUP B</u> | <u>GROUP C</u> |
|--------------------|---------------------|--------------------|--------------------|--------------------|
| Geology | \$1,855.00 | \$1855.00 | | |
| Geochemistry | 2,633.00 | 2,633.00 | | |
| Line Cutting | 3,300.00 | 3,300.00 | | |
| Trenching | 650.00 | 650.00 | | |
| Diamond Drilling | 135,071.23 | 51,546.99 | \$21,126.15 | \$62,398.29 |
| Report Prep. | 3,820.00 | 1,000.00 | 1,820.00 | 1,000.00 |
| Analyses | 6,968.50 | 6,968.5 | | |
| Freight Charges | 637.00 | 637.00 | | |
| Food and Accom. | 2,250.00 | 2,250.00 | | |
| Camp Support Costs | 1,720.00 | 1,720.00 | | |
| Transportation | 1,789.00 | 1,789.00 | | |
| Supplies | 350.00 | 350.00 | | |
| <hr/> | | | | |
| TOTAL | \$161,043.93 | \$74,699.49 | \$22,946.15 | \$63,398.29 |
| <hr/> | | | | |
| TOTAL APPLIED | <u>\$160,600.00</u> | <u>\$74,600.00</u> | <u>\$22,800.00</u> | <u>\$63,200.00</u> |

LIST OF PERSONNEL

Calvin Everett - Project Geologist
110 - 269 West 4th St.
North Vancouver, B.C.

John Farstad - Senior Geologist
21 Arnprior Road
Scarborough, Ont.

Sandy Sergiades - Research Geologist
33 Birch Avenue
Toronto, Ont.

Greg Fortin - Geologist
3472 East 26th Ave.
Vancouver, B.C.

Peter Mustard - Geologist
716 - 5th St. N.W.
Calgary, Alberta

Francis Noone - Field Assistant
8047 Heather St.
Vancouver, B.C.

Karla Lange - Field Assistant
Box 596
5959 Student Union
Vancouver, B.C.

Kirk Simpson - Technician
84 - 3441 East 49th
Vancouver, B.C.

Axel Rajewski - Field Assistant
606 - 1307 Harwood St.
Vancouver, B.C.

Robert Van Tassel - Field Assistant
Box 406
Cassiar, B.C.

Jeff Anutooshskin - Field Assistant
Box 326
Cassiar, B.C.

Jane Anstie - Cook
General Delivery
Whistler, B.C.

Bruce Martel - Line Cutter
c/o Surtec Group
Whitehorse, Yukon

Sydney McKewn - Line Cutter
c/o Surtec Group
Whitehorse, Yukon

Kevin Davidson - Line Cutter
General Delivery
Good Hope Lake, B.C.

Kevin Calick - Line Cutter
General Delivery
Good Hope Lake, B.C.

SCHEDULE A

BID SHEET AND JOB SPECIFICATIONS

1. DESCRIPTION OF WORK:

The work is to consist of a series of drill holes, drilled at locations specified by Esso. A total minimum footage of 3000 feet shall be drilled, but total footage may be extended by mutual consent. Maximum depth of any hole shall not exceed 3800 feet and minimum depth shall be 150 feet. The Contractor will not be called upon to drill any hole at a flatter angle than 45 degrees. Measurement of all holes shall be taken from the top of the casing pipe. If holes of a greater depth than _____ feet are desired, such drilling shall be performed only upon such conditions and at such rates as may be agreed upon before commencement of such drilling.

2. SCHEDULE OF RATES:

Esso agrees to pay the Contractor for footage drilled and other services performed as follows:

(a) Coring a Bedrock

| Depth Intervals | Size | NO | Size |
|-----------------|-------------------|--------------|------|
| 0 - 500 Ft. | <u>20</u> /Ft. | <u>20.50</u> | /Ft. |
| 500 - 1000 Ft. | <u>21.45</u> /Ft. | <u>22.55</u> | /Ft. |
| 1000 - 1500 Ft. | <u>23.60</u> /Ft. | <u>24.80</u> | /Ft. |
| ____ - ____ Ft. | <u>\$</u> /Ft. | <u>\$</u> | /Ft. |

(b) Casing of Overburden

| Depth Interval | |
|-----------------|----------------------|
| 0 - 50 Ft. | <u>\$ 21.00</u> /Ft. |
| 50 - 100 Ft. | <u>\$ -</u> /Ft. |
| ____ - ____ Ft. | <u>\$</u> /Ft. |

(c) The following services will be provided on an operating Field Cost basis:

1. Casing of overburden over 50 ft.
2. Reaming and setting casing for borehole reduction, borehole stabilization, and control of return water.
3. Drilling caved or broken ground.
4. All cementing operations, ⁱⁿincluding setting time but and including drilling of set cement.

5. Supplying water to the drill when water supply over 1500 ft. lateral and/or 300 ft. vertical lift from borehole collar under non-freezing conditions and --- ft. lateral and/or --- ft. vertical lift under freezing conditions.
6. Recovering pipe and/or casing at Esso's request.
7. ~~Horizontal rotation costs.~~
8. Setting of wedges, at Esso's request, for the purpose of directional drilling.

Where operating Field Costs are defined as:

Operating Field Costs

Labour (including Supervision) 19.00 per man hour.
 Tractor N/A per hour.
 Water Truck (excluding driver) N/A per hour.
 Equipment

| Drills | Type | Operating Hourly Rate |
|----------|--------------------|-----------------------|
| <u>1</u> | <u>Longyear 3P</u> | <u>\$27.00</u> |
| _____ | _____ | _____ |
| Pumps | Type | Operating Hourly Rate |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| Other | Type | Operating Hourly Rate |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

While operating on a Field Cost basis, supplies consumed or damaged beyond use, including diamond articles, mud ingredients, cement, rods, core barrels, etc. shall be for Esso's account at site replacement value plus 10%. However, if due to Contractor negligence, or through poor drilling practices, equipment is damaged or lost and hole is not completed, then these costs shall be for Contractor's account.

(d) The following services would be provided on a non-operating Field Cost basis:

1. ~~Setting of time for equipment~~
2. Delays caused by Esso.

Where non-operating Field Costs are defined as:

Non-Operating Field Costs

| | | |
|----------------------------------|--------------|-----------------|
| Labour (including supervision) | <u>19.00</u> | per man hour. |
| Drill, pumps and service vehicle | <u>--</u> | per drill hour. |
| Tractor - operating | <u>N/A</u> | per hour. |
| Tractor - non-operating | <u>N/A</u> | per hour. |

(e) Travelling Time

Esso agrees to pay for travelling time from camp in excess of 1/2 hour per man per day to drill site and return per shift on the following basis:

| | | |
|---------|--------------|----------|
| Labour | <u>19.00</u> | per day. |
| Vehicle | <u>N/A</u> | per day. |

(f) Mobilization and Between Hole Moves

Mobilization of equipment, supplies and personnel to the drill site and return of equipment to Watson Lake and personnel to Vancouver shall be for Esso's account at \$19.00 per man per man hour. Freight shall be for Esso's account at cost. Moving between drill sites shall be charged to Esso at \$19.00 per man per hour (non-operating field cost)

(g) Room and board for Contractor's personnel will be provided by Esso Minerals.

Contractor will provide meals and accommodation for up to N/A of Esso's representatives at a price of N/A per day.

Room and board will be provided by Esso to Contractor at no cost per man day.

(h) Core boxes, including lids, will be provided by N/A. Contractor's rates for core boxes on site shall be \$ N/A.

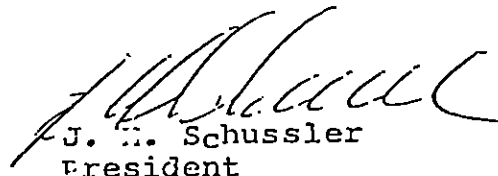
(i) Core splitter to be supplied by Esso Minerals. Contractor to supply core splitter at N/A per N/A.

(j) Standby Rental

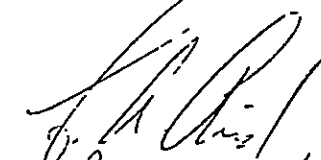
It is agreed that, at the completion of the present active drilling program, Esso may retain the Contractor's drilling equipment at the drill area for a rental rate of --- per --- per drilling unit. The standby rental charge will cease to apply upon commencement of continuous drilling program, or on the giving of a written notice to the Contractor by Esso that the drilling equipment is no longer required.

(k) Special Agreements

1. Company to supply fuel
2. Acid Dip Tests \$30.00



J. H. Schussler
President
D. J. Drilling Company Ltd.



Reg. Ex. No. 1111
Esso Minerals Canada

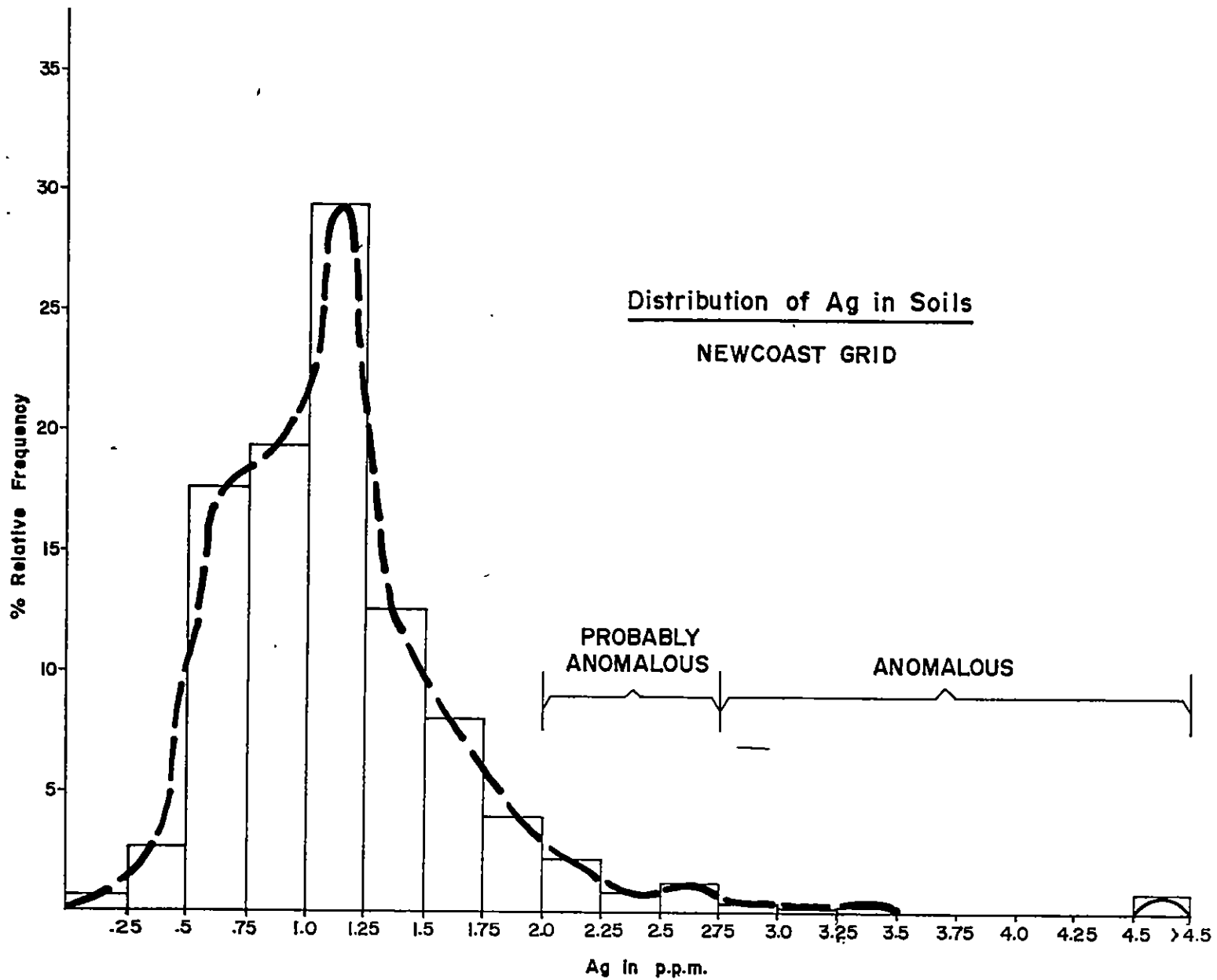
APENDIX B

Geochemical Methods

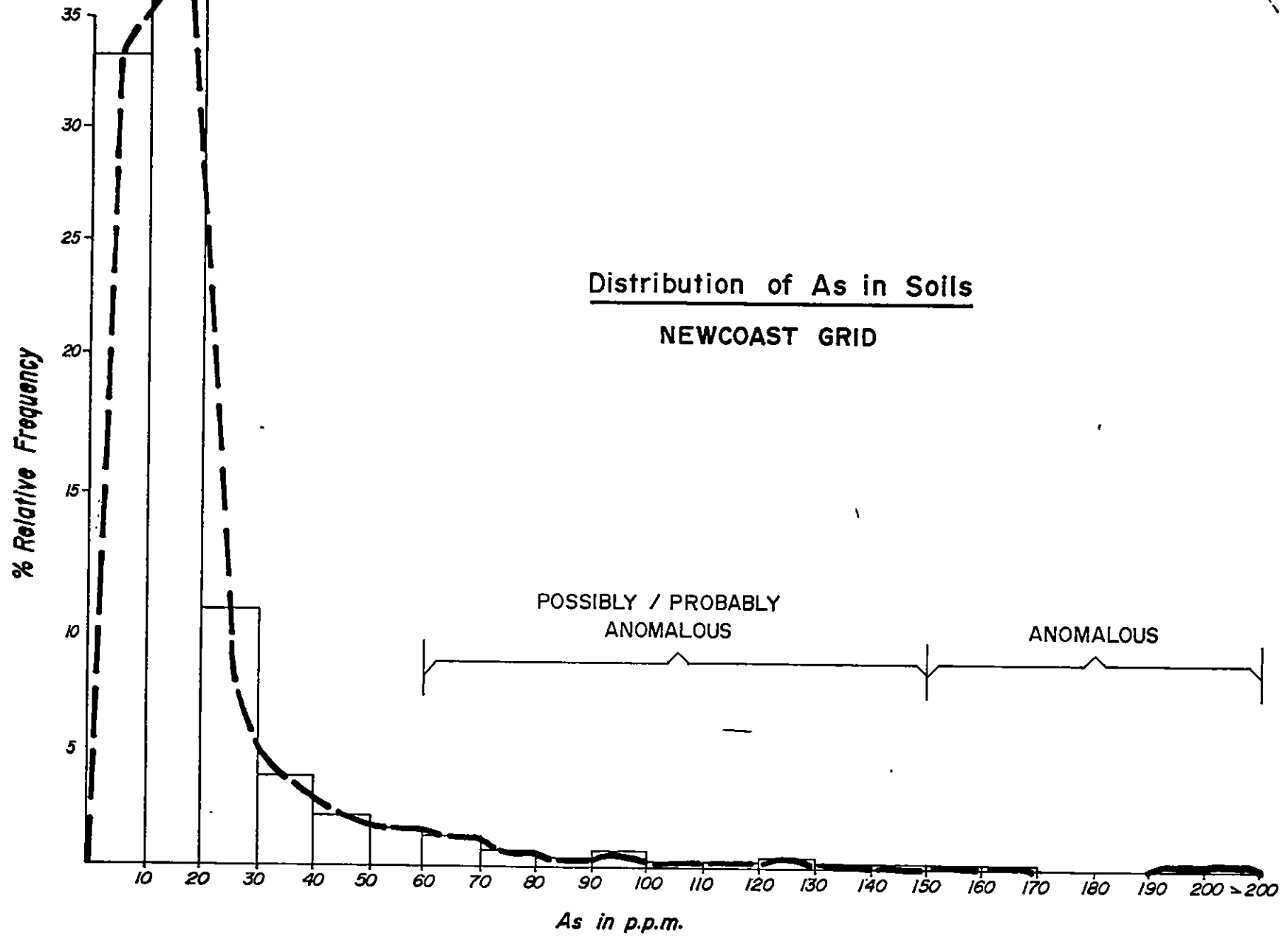
Soil samples were taken at the B horizon with hand tools. Samples were stored in brown gusset bags, dried and shipped to Min-En Laboratories in North Vancouver for geochemical analysis. Each sample was oven dried, sieved to obtain the -80 mesh fraction and then subjected to nitric perchloric acid digestion. Measurement of trace element concentrations was done by atomic absorption analysis. Samples were analyzed for Au, Ag and As.

All rock samples were analyzed for gold and silver. The analytical technique for gold was fire assay and atomic absorption finish. Silver was analyzed by acid digestion and chemical analysis.

Pulps for soil and rock samples are stored at the Esso Minerals Canada office in Vancouver, B.C. Split drill core is stored on the McDame property, near Cassiar, B.C.

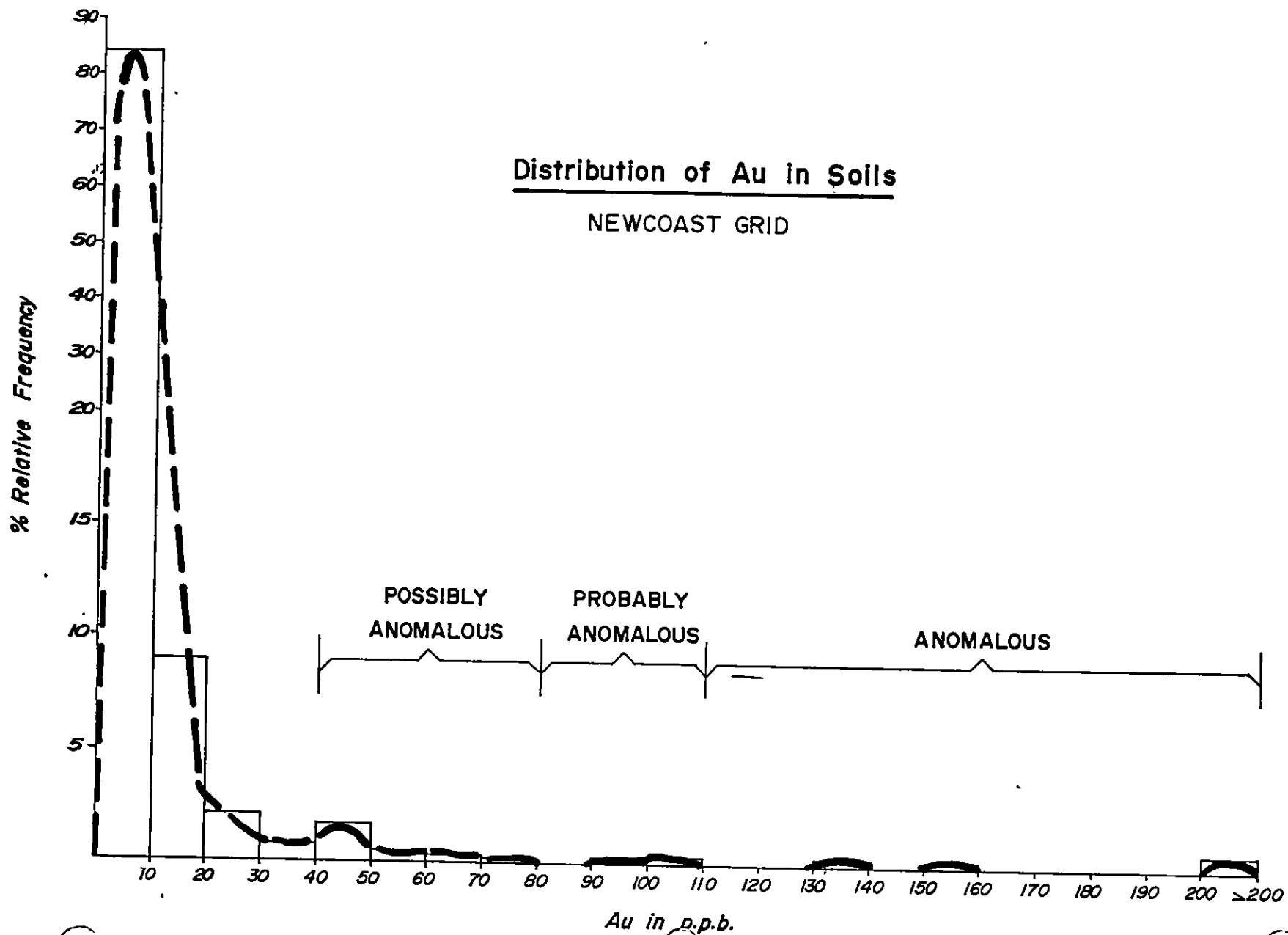


Distribution of As in Soils
NEWCOAST GRID





Distribution of Au In Soils

NEWCOAST GRID



DRILL LOG

| | |
|---|--|
| PROJECT <i>McDermid 2155</i> | GROUND ELEV. <i>(132 265 m.)</i> <i>25 m. ABOVE TEST PIT</i> |
| HOLE NO. <i>MBC 81-1</i> | BEARING <i>165° (SURVEYED 166.53°)</i> |
| LOCATION <i>6+10 E: OLSON</i> ^{NTS} <i>N 6567051.809</i> <i>E 462748.57</i> <i>40 m. @ 345° FROM EDGE OF TEST PIT</i> <i>ON EAST EXPOSURE OF DAVIS VEIN</i> | DIP <i>-45° @ COLLAR</i> |
| LOGGED BY <i>J FARSTAD / CAL EURETT</i> | TOTAL LENGTH <i>87.2 m.</i> |
| DATE <i>17/07/81</i> | HORIZONTAL PROJECT <i>62.8 m.</i> |
| CONTRACTOR <i>D.J. DRILLING Co. Ltd.</i> | VERTICAL PROJECT <i>53.7 m.</i> |
| CORE SIZE <i>30</i> | ALTERATION SCALE 0 1 2 3  absent slight moderate intense |
| DATE STARTED <i>13/07/81</i> | TOTAL SULPHIDE SCALE 0 1 2 3 4  traces only < 1% 1% - 3% 3% - 10% > 10% |
| DATE COMPLETED <i>17/07/81</i> | DIP TESTS <i>ACID. TUBE @ 87.0 m. -43°</i> |
| COMMENTS <i>DRILL DOWN FOR 4 SHIFTS.</i> <i>- DID NOT INTERSECT MAJOR VEINS</i> <i>- DID INTERSECT CARBONATIZED ZONE.</i> | LEGEND <i>V V VOLCANICS - FLOWS</i> <i>V T TUFFS - VOLCANICS</i> <i>ALTERED - CARBONATE ALTERATION</i> <i>- PYRITIZATION</i> <i>- SILICIFICATION</i> <i>Q.V. QUARTZ VEIN</i> <i>Δ BRECCIA</i> |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | |
|--|----------------|---------|----|-------|---------------|--------|--|--|
| | | FROM | TO | WIDTH | | | | |
| 9.0 - 30.6 TR. DISS. PA | | | | | | | | |
| 20.3 20.9 12. NEAR ALONG CAMP VS (E 10-20° CA) | | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---------|-------|----------|---|--------------------|-------------|
| | | | | | A CHLOR. | B CALC. | C PY. | D SILICA | E | | |
| 20.0 | | | | CRUMBLY WEATHERED ZONES III | | | | | | | |
| 25.0 | | | | SLIGHT BRECCIATION WITH qtz CARBONATE GILL @ | | | | | | | |
| 30.0 | | | | 20.8-24.3 ORG. UNCON. CHLORITIZED CARBONATED ANDOSITE | | | | | | | |
| | | | | - BELOW 31.7 PY PRESENT AS 3-4 MM. CIRCULAR CRU. TABS IN BRECCIATED CARBONATED ANDOSITE. WITH qtz VEINS TO 34.1 | | | | | | | |
| | | | | SPOTTY ECHINODERM. PY. | | | | | | | |
| 35.0 | | | | 30.0 - CARBONATE ALTERATION AS WELL AS MICROFRACTURE GILL | | | | | | | |
| 40.0 | | | | 32.3-40.7 MINOR BRECCIA ZONE. CONSIST. OF ANGULAR FRAGS. OF CARBONATED ANDOSITE & qtz UP TO 5CM. (UP TO 5CM. - 5-10 CM. AVERAGE) IN MEDIUM GRAINED MATRIX OF SAME. TR. MINOR. PY. | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|---|------------|----------|----------|----------|---|--------------------|------------|
| | | | | | A CHLOR | B COPPER | C QUARTZ | D SILICA | E | | |
| 40.0 | | | | 40.7-43.3 AS 9.0-30.8 | | | | | | | |
| 45.0 | | | | 43.3-49.4 GRAY GREEN CHLORITIZED CARBONATED ANDESITE WITH MINOR SPECIATED ZONES. - UP TO 7.5% CIRCULAR PY. - 38.3-40.7 major GREENIA ZONE. @ 45.7-46.7 BX WITH qtz. - ALONG FLOW BX ZONE ROCK IS WELL FRACTURED WITH DARK CHLORITE + TR. GRAPHITE IN FRACTURES. | | | | | | | |
| 50.0 | | | | 49.4-59.0 GRAY TO TAN INTENSELY CARBONATED ANDESITE - SECTIONS WITH TR - MINOR PY - 52.5 + 53.2 qtz STRINDERS WITH MINOR PY ON WALL ROCK. | | | | | | | |
| 55.0 | | | | | | | | | | | |
| 60.0 | | | | 59.0-62.9 GRAY GREEN CHLORITIZED CARBONATED ANDESITE | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--|----------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Au | Ag |
| | | 40.7 | | | | | |
| | | 41.8 | 41.8 | 1.1 | 1610 | .001 | .03 |
| | | 43.3 | 43.3 | 1.3 | 1611 | .001 | .05 |
| | | 44.5 | 44.5 | 1.2 | 1612 | .002 | .04 |
| | | 44.5 | 44.5 | 1.2 | 1613 | .020 | .09 |
| 45.7-46.7 .8 m. CORE RECOVERY | | 45.7 | 45.7 | 1.0 | 1614 | .056 | .08 |
| 47.2-48.5 BRECCIATED Qtz VEIN Tr py. tetra. | | 46.7 | 46.7 | 1.2 | 1615 | .036 | .05 |
| 47.9-49.4 1.3 m. CORE RECOVERY | | 47.9 | 47.9 | 1.3 | 1616 | .020 | .05 |
| | | 49.4 | 49.4 | 1.3 | 1617 | .001 | .02 |
| 51.95 Qtz STRINGER @ 250CA. tr py. sph. | | 50.7 | 50.7 | 1.4 | 1618 | .006 | .02 |
| 51.95 - 53.2 Qtz STRINGERS | | 52.7 | 52.7 | 1.1 | 1619 | .021 | .02 |
| 52.55 2cm Qtz IN SUCSPRE V @ 400CA. | | 53.2 | 53.2 | 1.5 | 1620 | .002 | .02 |
| | | 54.7 | 54.7 | 1.5 | 1621 | .002 | .06 |
| | | 56.2 | 56.2 | 1.5 | 1622 | .003 | .04 |
| 57.7-59.1 0.4 m. RECOVERY | | 57.7 | 57.7 | 1.4 | 1623 | .003 | .03 |
| | | 59.7 | 59.7 | 1.9 | 1624 | .002 | .03 |
| | | 41.0 | 41.0 | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 60.0 | | | | | | | | | | | |
| 65.0 | | | | 63.9-64.9 INTENSELY CARBONATED ANDESITE WITH MINOR QUARTZ. | | | | | | | |
| | | | | 64.9-71.3 <i>green</i> CHLORITIZED CARBONATED ANDESITE. INCREASED CARBONATE ALTERATION TOWARDS CONTACTS. | | | | | | | |
| 70.0 | | | | 71.3-72.8 INTENSELY CARBONATED AND. W. TR. QU. | | | | | | | |
| | | | | 72.8-76.5 <i>green</i> GREEN CARBONATED CHLORITIZED ANDESITE. | | | | | | | |
| 75.0 | | | | 76.5-87.2 GREEN CHLORITIZED ANDESITE W/ <u>TINY CARBONATE MICROFRACTURES</u> OF RANDOM ORIENTATION. DARK CHLORITE SHADE @ m. | | | | | | | |
| 80.0 | | | | MINOR BRECCIA ZONES WITH QU. | | | | | | | |

DRILL LOG

| | |
|---|--|
| PROJECT McDAMEL Q150 | GROUND ELEV. 929-354 m |
| HOLE NO. MEC 51-2 | BEARING 160° (142°36' SURGE) |
| LOCATION DAVIS VEIN N 5465E : 0436N NTS: N (6,567,010.082) E (4,6263.642) | DIP -45° |
| LOGGED BY CAR EVERETT | TOTAL LENGTH 87.2 m |
| DATE July 22/81 | HORIZONTAL PROJECT 60.2 m |
| CONTRACTOR D.J. Diamond Drilling | VERTICAL PROJECT 62.1 m |
| CORE SIZE 30 | ALTERATION SCALE 0 1 2 3 absent slight moderate intense |
| DATE STARTED 17/07/81 | TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10% |
| DATE COMPLETED 19/07/81 | |
| DIP TESTS 87.0 m -47° | |
| COMMENTS | LEGEND V VOLCANICS - FLOWS / TUFFS ◇ VOLCANICS - BRECCIATED ⋯ ALTERED ANDESITE-BLEACHED QV. QUARTZ VEIN △ BRECCIA |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|------------|
| | | | | | A | B | C | D | E | | |
| 0 | | | | 0-3.8 OVERBURDEN | | | | | | | |
| 5.0 | | | | 3.8-10.1 ANDESITE FLOW (locally tuffaceous) MASSIVE, INTENSELY CARBONATED ANDESITE flow (MINOR 2-4m tuffaceous) sections. Flow green to olive green. Tr py 1/0 | | | | | | | |
| | | | | 4.8-5.9 (locally BRECCIATED) BY 1-3mm silica CARB-pw VEGETURE FILINGS. | | | | | | | |
| | | | | - 2.05 8mm qtz ANKERITE v @ 40°C - 2.4 2cm qtz ANKERITE v @ 40°C | | | | | | | |
| 10.0 | | | | 0.1-13.45 ALTERED ANDESITE FLOW - Tan to light brown INTENSELY CARBONATED & SILICIFIED CUT BY qtz STRINGERS | | | | | | | |
| | | | | 11.06 3mm qtz v. @ 30°C Tr py | | | | | | | |
| | | | | Tr v.g. (P). v. is "put" BRECCIATION OF VOLCANICS | | | | | | | |
| | | | | 12.0 4cm q.v. @ 30°C Tr. Tetra. py | | | | | | | |
| | | | | 12.35 1.5cm q.v. @ 30°C Tr py | | | | | | | |
| 15.0 | | | | 13.45-19.5 ANDESITE FLOW. (CARBONATED) SIMILAR TO 3.8-10.1 SECTION | | | | | | | |
| | | | | 14.8-14.9 ALTERED Tr py | | | | | | | |
| | | | | 15.15 4cm qtz ANK v. @ 30°C, 3cm ALTERED SLUGS | | | | | | | |
| 20.0 | | | | 17.5-22.4 ALTERED ANDESITE INTENSELY CARBONATED/SILICIFIED | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|-------------|---------|------|----------|---|--------------------|-------------|
| | | | | | A CHLORITIC | B CARB. | C PY | D SILIC. | E | | |
| 20.0 | | | | 19.9-21.2 SILL-EXTRUDED CHANNELED CUT BY POST BRECCIATION qtz STRINGERS. 20.0-20.4 q.v. 30°C CA TP PY, PY, QZ 20.5-20.6 q.v. 25°C CA TP PY 21.0-21.03 q.v. 35°C CA | | | | | | | |
| 25.0 | | | | 20.4-27.6 ANDESITE FLOW (CARBONITIZED) SIMILAR TO 13.45-19.5 SECTION TP PY ALONG qtz-CLAS + MAG STRINGERS | | | | | | | |
| 30.0 | | | | 27.6-37.3 ALTERED ANDESITE INTENSE CRACKLE TEXTURE. 28.21-28.4 q.v. tp py CLAS @ 35°C CA 29.3-29.43 q.v. tp CLAS, PY, QZ @ 30°C CA | | | | | | | |
| 35.0 | | | | 33.0-37.3 INTENSE CRACKLE TEXTURE 29.65-29.85 qtz-CARB-CHLOR V @ 35°C CA | | | | | | | |
| 40.0 | | | | 37.3 REIN. @ 30°C CA 37.3-40.E ANDESITE (BRECCIATED) L.V. 2-50 MM. ANGULAR ANDESITE FLOW FRAGS WITHIN A DARK GREEN CHLORITE/CARB MATRIX, INTENSE CARBONATE FLOODING T/O. ONLY 2-4mm OF EDGES OF FRAGS ARE SILICIFIED. BRECCIATION ATTRIBUTED TO ALTERED ZONE (P. 16, 21E) | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|---|----------------|--------------|--------------|-------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | As | Ag |
| <i>19.2 - 21.2 10% CuKEDR. py</i> | | <i>20.0</i> | | <i>1.0</i> | <i>1633</i> | <i>.012</i> | <i>.10</i> |
| <i>21.2 - 22.4 3% py</i> | | <i>21.0</i> | <i>21.0</i> | | | | |
| <i>20.0 - 22.4 fr tetra. IN QU.</i> | | | <i>22.4</i> | <i>1.4</i> | <i>1634</i> | <i>.001</i> | <i>.09</i> |
| <i>22.4 - 27.6 fr py</i> | | | | | | | |
| <i>25.2 fr py IN QU.</i> | | | | | | | |
| <i>27.3 fr py IN QU.</i> | | | | | | | |
| | | <i>27.6</i> | <i>28.21</i> | <i>0.41</i> | <i>1635</i> | <i>.009</i> | <i>.04</i> |
| | | <i>28.21</i> | <i>28.9</i> | <i>0.19</i> | <i>1636</i> | <i>.010</i> | <i>.02</i> |
| | | <i>28.4</i> | <i>29.3</i> | <i>0.9</i> | <i>1637</i> | <i>.02</i> | <i>.05</i> |
| | | <i>29.3</i> | <i>29.45</i> | <i>0.13</i> | <i>1638</i> | <i>.021</i> | <i>.02</i> |
| | | <i>29.45</i> | <i>29.63</i> | <i>0.22</i> | <i>1639</i> | <i>.025</i> | <i>.06</i> |
| | | <i>29.63</i> | <i>29.55</i> | <i>0.2</i> | <i>1640</i> | <i>.001</i> | <i>.01</i> |
| | | <i>29.55</i> | <i>31.4</i> | <i>1.55</i> | <i>1641</i> | <i>.002</i> | <i>.01</i> |
| <i>27.5 - 37.3 1% coarse Fe. IN RED ZONE py IN RED ZONE</i> | | <i>31.4</i> | <i>32.9</i> | <i>1.5</i> | <i>1642</i> | <i>.001</i> | <i>.02</i> |
| | | <i>32.9</i> | <i>34.1</i> | <i>1.2</i> | <i>1643</i> | <i>.008</i> | <i>.06</i> |
| | | <i>34.1</i> | <i>34.3</i> | <i>0.2</i> | <i>1644</i> | <i>.006</i> | <i>.05</i> |
| | | <i>34.3</i> | <i>35.8</i> | <i>1.5</i> | <i>1645</i> | <i>.004</i> | <i>.08</i> |
| | | <i>35.8</i> | <i>37.3</i> | <i>1.5</i> | <i>1646</i> | <i>.001</i> | <i>.03</i> |
| <i>37.3 - 40.5 fr py IN QU. ONLY</i> | | | | | | | |
| <i>38.5 - 39.8 1% py IN QU.</i> | | <i>38.5</i> | <i>39.8</i> | <i>1.3</i> | <i>1647</i> | <i>.001</i> | <i>.05</i> |
| <i>40.72 2 cm of CLD V2 30CA</i> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | |
|---|----------------|-------------|-------------|------------|---------------|-------------|------------|--|
| | | FROM | TO | WIDTH | | Ac | Ag | |
| <i>37.3 - 57.9 Tn. 1/6</i> | | | | | | | | |
| <i>57.9 - 58.9 1-2% DSS. eutectic py. 1/6</i> | | <i>57.9</i> | <i>58.9</i> | <i>1.0</i> | <i>1648</i> | <i>.008</i> | <i>.04</i> | |
| <i>58.9 - 59.8 5-10% coarse py Diss 1/6</i> | | <i>58.9</i> | <i>59.8</i> | <i>0.9</i> | <i>1649</i> | <i>.001</i> | <i>.03</i> | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|---|----------------|--------------|--------------|-------------|---------------|----------------------|----------------------|--|--|
| | | FROM | TO | WIDTH | | <i>A_u</i> | <i>A_g</i> | | |
| <i>Davis vein tr tetra. py</i> | | <i>51.8</i> | <i>60.95</i> | <i>1.15</i> | <i>1650</i> | <i>.002</i> | <i>.02</i> | | |
| <i>60.95-62.2 9% coarse dist. py</i> | | | | | | | | | |
| <i>62.2-62.8 .1-3% py</i> | | <i>60.95</i> | <i>62.8</i> | <i>1.85</i> | <i>1651</i> | <i>.032</i> | <i>.02</i> | | |
| <i>62.8-64.5 te py</i> | | | | | | | | | |
| <i>64.5 - end of hole</i> | | | | | | | | | |
| <i>TR subhedral diss of quartz with unaltered chlorite.</i> | | | | | | | | | |

DRILL LOG

| | |
|--|---|
| PROJECT <i>McDermid 2150</i> | GROUND ELEV. <i>925.695 m.</i> |
| HOLE NO. <i>MBC 81-3</i> | BEARING <i>160° (161° ±) SUNDIAL</i> |
| LOCATION <i>Davis Ven.</i> <i>L 6+76E: 0780N</i> <i>N (6567091.591)</i> <i>E (462797.52)</i> | DIP <i>-55°</i> |
| LOGGED BY <i>Carl Everett</i> | TOTAL LENGTH <i>119.5 m</i> |
| DATE <i>July 25/81</i> | HORIZONTAL PROJECT <i>67.3 m.</i> |
| CONTRACTOR <i>D.V. Diamond Drilling</i> | VERTICAL PROJECT <i>96.3 m.</i> |
| CORE SIZE <i>BQ</i> | ALTERATION SCALE |
| DATE STARTED <i>19/07/81</i> | TOTAL SULPHIDE SCALE |
| DATE COMPLETED <i>21/07/81</i> | |
| DIP TESTS <i>ACID TESTS 61.07m -56°</i> <i>119.57m -55°</i> | LEGEND <i>V VOLCANICS</i> <i>⚡ BRECCIATED VOLCANICS</i> <i>⋯ BLEACHED ALTERED ANDESITE</i> <i>Q.V. QUARTZ VEIN</i> <i>/// DIABASE DYKE</i> |
| COMMENTS <i>- Qtz carb and chlorite veins tend to have chlorite along selvages with Qtz forming the core of the veinlets and carb-ank migrating to the edges of the veins.</i> <i>- pervasive carbonate flooding T6 but not indication of intensely altered zones in E1-2 & E1-1 TAN colouration. and py content is generally absent</i> | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|--------|------|-------|---|--------------------|-------------|
| | | | | | A Chlor | B Calc | C py | D Sil | E | | |
| 60.0 | | | | 59.8-63.7 ALTERED ANDESITE (LIGHT GREEN-BROWN) 62.3 5cm qtz AND CHLOR V @ 20°C.A. | | | | | | | |
| 65.0 | | | | 63.7-68.7 ANDESITE FLOW (CARBONATED) - weak crackle texture CARB. STRINGERS 1/8. INTENSE CARB FLOODING / w/ CHLORITE MAT | | | | | | | |
| 70.0 | | | | 68.7-79.0 ANDESITE FLOW (BRECCIATED) AS ABOVE FLOW UNIT BUT SUB-BRECCIATED AND CEMENTED IN A CHLORITE - CARB MATRIX - INTENSE CRACKLE TEXTURE - TR 1/8 71.9 4cm CHLOR CARB V @ 35°C.A. | | | | | | | |
| 75.0 | | | | 75.2 8mm qtz CARB V @ 20°C.A. | | | | | | | |
| 80.0 | | | | 79.0-80.6 ANDESITE FLOW AS ABOVE 69.7-68.7 SECTION | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|-------------------------------------|----------------|-------------|-------------|------------|---------------|-------------|------------|--|--|
| | | FROM | TO | WIDTH | | As | Ag | | |
| <i>59.8-63.9 Tr - 1% diss CLEAN</i> | | | | | | | | | |
| <i>py.</i> | | <i>61.5</i> | <i>63.5</i> | <i>1.0</i> | <i>1658</i> | <i>.002</i> | <i>.05</i> | | |
| <i>63.9-79.0 Tr py</i> | | | | | | | | | |
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| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|------------|
| | | | | | A | B | C | D | E | | |
| 80.0 | | | | <p>80.6-74.3 <i>ALTERED ANDESITE</i> WEAK TO INTENSELY SILICIFIED WITH A VARIABLE DEGREE OF CARBON- ATIZATION. UNIT COLORATION VARIES FROM GREEN-BROWN TO BROWN AND IS NOT TYPICAL OF THE USUALLY UNWEATHERED ROCKS IDENTIFIED IN HOLE 81-1 & 81-2. - tr graphite along fractures - tr pytho 82.75 2mm Qtz carb qtz v @ 10°C 82.85 4mm Qtz carb qtz v @ 25°C 85.6 30m Qtz carb and v @ 25°C</p> | | | | | | | |
| 85.0 | | | | | | | | | | | |
| 90.0 | | | | | | | | | | | |
| 95.0 | | | | <p>94.3-109.5 <i>ANDESITE TYPE (CARBONATED)</i> OLIVE GREEN, W/ CHLOR TEXTURE THO. CONTAINS ~ 5-10% SUBANGULAR 5-1mm FRAGS WHICH HAVE BEEN REPLACED BY CHLORITE</p> | | | | | | | |
| 100.0 | | | | <p>98.3-98.6 2cm 17% carb chlor @ 100°C</p> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|--|----------------|-------------|-------------|------------|---------------|-------------|------------|--|--|
| | | FROM | TO | WIDTH | | Ac | Ag | | |
| <i>80.6 - 84.3 Tr py 1/2</i> | | | | | | | | | |
| <i>82.6 - 83.2 Tr cop 1% py</i> | | <i>82.6</i> | <i>83.2</i> | <i>0.6</i> | <i>1659</i> | <i>.002</i> | <i>.04</i> | | |
| <i>86.9 - 88.4 2% py. Tr qtz - carb. py stringers</i> | | <i>86.9</i> | <i>88.4</i> | <i>1.5</i> | <i>1660</i> | <i>.002</i> | <i>.07</i> | | |
| <i>92.6 - 94.3 TAN INTENSELY ALTERED ZONE, 1-3% DISS. EUBEDRAL py. // SERIES OF 1-4 mm qtz carb py. STRINGS @ 20°C</i> | | <i>92.6</i> | <i>94.3</i> | <i>1.7</i> | <i>1661</i> | <i>.002</i> | <i>.05</i> | | |
| <i>94.3 - 109.5 Tr - 1% py occurring in isolated irregular SHIPPED PATCHES.</i> | | | | | | | | | |









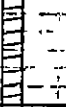

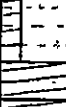


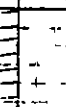

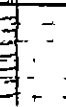




| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--|----------------|--------------|--------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | Ac | Ag |
| <i>107.5 - 119.5 TR py T6</i> | | | | | | | |
| <i>110.7 - 111.1 2/3 carb py v (1cm) @ 10cm. TR SPATITE?</i> | | <i>110.7</i> | <i>111.1</i> | <i>0.4</i> | <i>1662</i> | <i>.001</i> | <i>.09</i> |
| <i>119.5 END OF HOLE</i> | | | | | | | |

DRILL LOG

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|---|---|
| PROJECT <i>McDerm 2150</i> | GROUND ELEV. <i>1203 m (937 - 37) m</i> |
| HOLE NO. <i>MBC 81-4</i> | BEARING <i>360° (361° 11' S 21.0° W)</i> |
| LOCATION <i>PORCUPINE SHOWINGS. LOT 52E : 0759N N(6367009.228) E(462168 890)</i> | DIP <i>-45°</i> |
| LOGGED BY <i>Cal Everett</i> | TOTAL LENGTH <i>90.5 m.</i> |
| DATE <i>July 27/81</i> | HORIZONTAL PROJECT <i>62.5 m.</i> |
| CONTRACTOR <i>D.J. Diamond Drilling</i> | VERTICAL PROJECT <i>27.5 m.</i> |
| CORE SIZE <i>30</i> | ALTERATION SCALE 0 1 2 3 absent slight moderate intense |
| DATE STARTED <i>22/7/81</i> | TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10% |
| DATE COMPLETED <i>24/07/81</i> | |
| DIP TESTS <i>AFTD TEST 950 m -45°</i> | |
| COMMENTS | LEGEND <i>v v</i> ANDESITE <i>△</i> ANDESITE - BRECCIATED <i>⋯</i> ALTERED ANDESITE <i>q.v.</i> QUARTZ VEIN |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 0 | | | | 0-4.2 OVERBURDEN | | | | | | | |
| 5.0 | | | | 4.2-6.9 ALTERED ANDESITE TAN BROWN INTENSE CRACKLE TEXTURE CUT BY NUMEROUS qtz STRINGERS @ VARIOUS ATTITUDES TE CA. | | | | | | | |
| | | | | 6.9-7.6 ANDESITE TUFF (CARBONATIZED) GREEN GREEN, + 20% COULDED SILICA GLASS ROUGHLY ALIGNED @ 10-20° CA. Te py | | | | | | | |
| 10.0 | | | | 7.6-10.6 ANDESITE (BRECCIATED) PALE GREEN, APLATHITIC SUB- BRECCIATED AND FLOW. ZONING NOTED LOCALLY @ 30° CA WITHIN BRECCIATED ZONES THIS IS A PRIMARY FEATURE. LOWER CONTACT @ 40° CA | | | | | | | |
| 15.0 | | | | 10.6-12.4 ANDESITE FLOW DARK GREEN, EPIDOTE NEAR FRACTURES | | | | | | | |
| | | | | 12.4-15.2 ANDESITE TUFF (CARBONATIZED) BROOD INTO FLOW FROM OVERLYING FLOW. 12.6-13.5 FAULT - FAULT ZONE. | | | | | | | |
| | | | | 15.2-16.2 ALTERED ANDESITE 15.6-15.8 qtz VEIN @ 40° CA TE TSS, py, sp, graphite | | | | | | | |
| | | | | 16.2-17.1 FAULT ZONE (CARBONATIZED) | | | | | | | |
| 20.0 | | | | 17.1-19.8 ANDESITE TUFF (CARBONATIZED) TE EPIDOTE ALONG qtz CARB VEINLETS. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|---|----------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Ag | Ag |
| 4.2-4.9 20% py along fractures | | | | | | | |
| 4.9-5.2 2% DISS ENRICHED py | | 4.2 | 5.4 | 1.2 | 1663 | .019 | .1 |
| 5.2-5.4 20% DISS py | | | | | | | |
| 5.4-6.9 2% DISS. py | | 5.4 | 6.9 | 1.5 | 1664 | .008 | .07 |
| 6.9-6.9 10% 1-5mm coarse ENRICHED DISS. py. | | | | | | | |
| 10.2-12.4 1% py | | | | | | | |
| 15.2-15.6 5% py | | 15.2 | 15.6 | 0.4 | 1665 | .024 | .13 |
| 15.6-15.8 g.v. to take 1/2 py | | 15.6 | 15.8 | 0.2 | 1666 | .006 | .16 |
| 15.8-16.2 2% py | | 15.8 | 16.2 | 0.4 | 1667 | .034 | .13 |
| 15.4 2cm. 9/2 py stringer (4150) work 5-1/2 carb att. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|---|---|--------------|--------------|-------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | Au | Ag |
| <i>19.8-20.4 20% F.g. DISS. py.</i> |  | <i>19.8</i> | <i>20.4</i> | <i>0.6</i> | <i>1668</i> | <i>.037</i> | <i>.21</i> |
| <i>20.1 Fe v.g (?) fine in gfs</i> <i>STRINGER @ 70ca.</i> |  | | | | | | |
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| <i>26.6-28.0 Fe-1% py.</i> |  | | | | | | |
| |  | | | | | | |
| <i>32.0 33.05 15% py</i> |  | | | | | | |
| |  | <i>32.0</i> | <i>33.05</i> | <i>1.05</i> | <i>1669</i> | <i>.019</i> | <i>.10</i> |
| |  | <i>33.05</i> | <i>33.7</i> | <i>0.65</i> | <i>1670</i> | <i>.002</i> | <i>.07</i> |
| <i>33.7-34.8 15-20% py</i> |  | <i>33.7</i> | <i>34.8</i> | <i>1.1</i> | <i>1671</i> | <i>.008</i> | <i>.10</i> |
| |  | <i>34.8</i> | <i>36.3</i> | <i>1.5</i> | <i>1672</i> | <i>.002</i> | <i>.09</i> |
| <i>34.8-37.7 Fe-1% py</i> |  | <i>34.8</i> | <i>37.7</i> | <i>2.9</i> | <i>1673</i> | <i>.002</i> | <i>.07</i> |
| |  | | | | | | |
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| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|-------------------|------------|----------|-------------|---|--------------------|-------------|
| | | | | | A CHLOR. EPID. | B CARB. | C PY. | D SILICA | E | | |
| 40.0 | | | | 37.7-49.8 ANDESITE FLOW. (loc. to basaltic) green glaucous, aphanitic, mod cracked texture 38.6-41.1 FRACTURED, FINE MOD SEAMS 1/6. TR HEMATITE | | | | | | | |
| 45.0 | | | | 47.6-49.5 UNIT SEPARATED BY A SANDY TEXTURED FLOW. | | | | | | | |
| 50.0 | | | | 49.5-58.9 ALTERED ANDESITE GREEN-BROWN → BLACK (CHLOR.) | | | | | | | |
| | | | | 48.9 5cm qtz CHLOR CARB V @ 60°N 50.25 2cm qtz CHLOR CARB V @ 30°N | | | | | | | |
| | | | | 52.0-58.9 BULK, LOCALLY CHERTY, MOD. SILICEOUS | | | | | | | |
| 55.0 | | | | 56.3 10cm qtz py (90°N) V @ 40°N | | | | | | | |
| | | | | 56.9-57.15 q.v. to fella. 5% py | | | | | | | |
| 60.0 | | | | 55.9-61.3 ANDESITE FLOW (CARBONATIZED) and green, sandy texture. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|---|----------------|--------------|--------------|-------------|---------------|-------------|-------------|--------------------------|--|
| | | FROM | TO | WIDTH | | Ac | Ag | | |
| <i>49.3-52.0 10 ft</i> | | | | | | | | | |
| <i>52.9-54.3 3% py</i> | | <i>52.9</i> | <i>54.3</i> | <i>1.4</i> | <i>1674</i> | <i>.004</i> | <i>.10</i> | | |
| <i>54.3-54.5 1/2 py IN g.v.</i> | | <i>54.3</i> | <i>54.5</i> | <i>0.2</i> | <i>1675</i> | <i>.001</i> | <i>.06</i> | | |
| <i>54.5-55.8 10% py</i> | | <i>54.5</i> | <i>55.8</i> | <i>1.3</i> | <i>1676</i> | <i>.007</i> | <i>.06</i> | | |
| <i>55.8-56.9 15% py</i> | | <i>55.8</i> | <i>56.9</i> | <i>1.1</i> | <i>1677</i> | <i>.048</i> | <i>1.63</i> | | |
| <i>56.9-57.15 g.v. to tetra. 5% py</i> | | <i>56.9</i> | <i>57.15</i> | <i>0.25</i> | <i>1678</i> | <i>.005</i> | <i>.45</i> | } <i>485 oz Au .9 ml</i> | |
| <i>57.15-57.7 3% py</i> | | <i>57.15</i> | <i>57.7</i> | <i>0.55</i> | <i>1679</i> | <i>.347</i> | <i>.10</i> | | |
| <i>57.7-58.7 SHEARED. 9 1/2 veins @ 30CA</i> <i>1/10 30% py IN BANDS</i> | | <i>57.7</i> | <i>58.7</i> | <i>1.0</i> | <i>1680</i> | <i>.02</i> | <i>.11</i> | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------------|-----------|---------|------------|---|--------------------|-------------|
| | | | | | CHLOR EPIDOTE | B CAMP | C py | D s.l.c | E | | |
| 60.0 | | | | 61.3-77.4 ALTERED ANDESITE TAN BROWN TO GREEN BROWN, MODERATE CRACKLE TEXTURE 7/6 SECTION. TR Qtz STRINGERS 7/6 AT RANDOM ORIENTATION TO C.A. NO LEASE Zn VEINS NOTED. 64.4 2cm q.v. NO ATTITUDE. CONTAINS NGC 7/6 py | | | | | | | |
| 65.0 | | | | 67.1-67.4 FREGILLATED BY CAMP. P. TR Qtz STRINGERS | | | | | | | |
| 70.0 | | | | | | | | | | | |
| 75.0 | | | | 75.9-77.4 GREEN BROWN, DOES NOT HAVE TYPICAL TAN BROWN CALCINATION OF UNDIFFERENTIATED OR UNTIRED ROCK. | | | | | | | |
| 80.0 | | | | ? 77.4-82.3 ANDESITE FLOW (CARBONATIZED) INTENSE CRACKLE TEXTURE. 90% GREEN, APHANTIC. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|--|----------------|---------|------|-------|---------------|--------|-----|--|--|
| | | FROM | TO | WIDTH | | Ag | Ag | | |
| 61.3-62.6 8% Flg py ALONG fractures | | 61.3 | 62.6 | 1.3 | 1681 | .002 | .02 | | |
| 62.6-64.2 1% py | | 62.6 | 64.2 | 1.6 | 1682 | .001 | .02 | | |
| 64.2-64.9 1% py TR to STRINGS | | 64.2 | 64.9 | 0.7 | 1683 | .001 | .01 | | |
| 64.9-66.5 6% py | | 64.9 | 66.5 | 1.6 | 1684 | .001 | .02 | | |
| 66.5-68.0 10% py | | 66.5 | 68.0 | 1.5 | 1685 | .002 | .04 | | |
| 68.0-70.8 TR-1% py | | | | | | | | | |
| 70.8-72.0 10% py | | 70.8 | 71.9 | 1.1 | 1686 | .003 | .06 | | |
| | | 71.9 | 72.0 | 1.1 | 1687 | .009 | .03 | | |
| 73.0-71.4 TR 1% py | | | | | | | | | |
| 77.4-82.2 TR py | | | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|----------------------------|----------------|-------------|-------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | <i>Ac</i> | <i>Ag</i> |
| <i>82.3-82.7 Tr py</i> | | | | | | | |
| <i>82.7-83.5 1-2% py</i> | | <i>82.7</i> | <i>83.5</i> | <i>1.1</i> | <i>1685</i> | <i>.001</i> | <i>.02</i> |
| <i>83.8-84.5 tr py</i> | | | | | | | |
| <i>84.5-90.5 Tr py</i> | | | | | | | |
| <i>90.5 END OF HOLE</i> | | | | | | | |

DRILL LOG

| | |
|---|--|
| PROJECT <i>Mc Dome 3150</i> | GROUND ELEV. <i>939.409 m</i> |
| HOLE NO. <i>MDC 81-5</i> | BEARING <i>140° (SURVEYED) 170.22</i> |
| LOCATION <i>LAKEVIEW / F. G. HILL LG+9005: 3+905 N (4.366532.174) E (461462.324)</i> | DIP <i>-45°</i> |
| LOGGED BY <i>Carl EVERETT</i> | TOTAL LENGTH <i>129.8 m</i> |
| DATE <i>July 28, 1981</i> | HORIZONTAL PROJECT <i>? + m</i> |
| CONTRACTOR <i>D.I. DIAMOND DRILLING</i> | VERTICAL PROJECT <i>92 - m</i> |
| CORE SIZE <i>BQ</i> | ALTERATION SCALE 0 1 2 3 absent slight moderate intense |
| DATE STARTED <i>24/01/81</i> | TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10% |
| DATE COMPLETED <i>27/01/81</i> | |
| DIP TESTS <i>ACID TESTS 64.0 m -45° 122.2 m -45°</i> | |
| COMMENTS | LEGEND <i>v v ANDESITE A ANDESITE BRECCIATED ... ALTERED ANDESITE q.v. QUARTZ VEIN q.bx. QUARTZ BRECCIA</i> |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. | | |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|--|--|
| | | | | | A | B | C | D | E | | | | |
| 0 | | | | 0-2.3 OVERSANDEN | | | | | | | | | |
| 45 | | | | 2.3-4.7 ANDESITE FLOW (CARBONATIZED) OLIVE GREEN, SANDY TEXTURED 2.8-7.7 FRACTURED OXIDIZED, UMONITE STAINING ON FRACTURES. | | | | | | | | | |
| 50 | | | | 4.7-9.7 ALTERED ANDESITE - TAN OXIDIZED, FRACTURED, MED- ERRIC CRACKLE TEXTURE. Te-190 py 7.8-7.9 q.v. @ 5% Ca 5% py tr tetra. | | | | | | | | | |
| 66 | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | |
| 98 | | | | 9.7-10.3 QUARTZ VEIN - FRACTURED (NO ATTITUDE) to tetra- py, qpy. | | | | | | | | | |
| 103 | | | | 10.3-13.1 ALTERED ANDESITE SIMILAR TO ABOVE 4.7-9.7 SECTION - q.v. STRINGERS 7/6 | | | | | | | | | |
| 110 | | | | 13.1-13.8 QUARTZ VEIN - 5% py, tetra? | | | | | | | | | |
| | | | | 13.8-14.6 QUARTZ BRECCIA - grey black, 65% ANGLE 9/4 JUGA CEMENTED 30 D 100% | | | | | | | | | |
| | | | | 14.6-15.8 ALTERED ANDESITE CONG. BLACK PYRITIC 190, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000 | | | | | | | | | |
| | | | | 15.8-16.1 QUARTZ BRECCIA (AS ABOVE) | | | | | | | | | |
| | | | | 16.1-17.4 ALTERED ANDESITE | | | | | | | | | |
| | | | | 17.4-17.7 QUARTZ BRECCIA | | | | | | | | | |
| | | | | 17.7-18.8 ALTERED ANDESITE (BRECCIATED BY py (15%) STRINGERS) | | | | | | | | | |
| | | | | 18.8-20.5 QUARTZ VEIN (SHIMMERS) FRACTURED CEMENTED BY BANDS OF py & tetra 19.8 & 20.1 gouge | | | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|--------------------------------------|-------------------|---------|------|-------|------------------|--------|-----|--|--|
| | | FROM | TO | WIDTH | | Au. | Ag | | |
| 47-5.6 T ₂ M ₂ | | | | | | | | | |
| 5.6-10.2 1% py | | 5.6 | 6.8 | 1.2 | 1689 | .001 | .04 | | |
| | | 6.8 | 7.8 | 1.1 | 1690 | .001 | .03 | | |
| 7.8-7.9 g.v. to total. 5% py | | 7.8 | 7.9 | 0.1 | 1691 | .001 | .02 | | |
| | | 7.9 | 8.9 | 1.0 | 1692 | .001 | .02 | | |
| | | 8.8 | 9.7 | 0.9 | 1693 | .001 | .03 | | |
| 12-10.2 gtz vein to total. 4% py | | 7.7 | 10.2 | 0.5 | 1694 | .001 | .01 | | |
| 10.2-11.7 5% py | | 10.2 | 11.7 | 1.5 | 1695 | .001 | .04 | | |
| 11.7-13.1 5% py | | 11.7 | 13.1 | 1.4 | 1696 | .003 | .02 | | |
| 13.1-13.8 gtz vein 5% py | | 13.1 | 13.8 | 0.7 | 1697 | .037 | .04 | | |
| 13.8-14.6 gtz breccia 35% py | | 13.8 | 14.6 | 0.8 | 1698 | .010 | .03 | | |
| 14.6-15.8 5% py | | 14.6 | 15.8 | 1.2 | 1699 | .001 | .02 | | |
| 15.8-16.1 35% py gtz breccia | | 15.8 | 16.1 | 0.3 | 1700 | .001 | .02 | | |
| 16.1-17.4 5% py | | 16.1 | 17.4 | 1.3 | 1501 | .011 | .02 | | |
| 17.4-17.7 gtz breccia 25% py | | 17.4 | 17.7 | 0.3 | 1502 | .010 | .03 | | |
| 17.7-18.8 20% py | | 17.7 | 18.8 | 1.1 | 1503 | .022 | .04 | | |
| 18.8-20.5 g.v. py 5% total. | | 18.8 | 19.8 | 1.0 | 1504 | .010 | .02 | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------------------|-----------|---------|-------------|---|--------------------|-------------|
| | | | | | A CHLOR LEP/DOLE | B CARB | C py | D SILICA | E | | |
| 20.0 | | q.v. | | 20.5-21.9 Qtz Breccia - 30% py matrix - fragments are 95% qtz and 5% altered andesite | | | | | | | |
| | | q.bx | | | | | | | | | |
| | | q.v. | | 21.9-24.6 ALTERED ANDESITE AS IN ABOVE ALTERED SECTIONS. - 21.98 20m qtz py tetra. v. @ 30°C - 22.7 5cm qtz py v. @ 50°C 24.0-26.2 ANDESITE FLOW (Periplutic) 115% 4mm black xstals in a gray green, sandy, pebbly textured matrix | | | | | | | |
| 25.0 | | ? | | 26.2-27.2 ANDESITE FLOW (SUBBRECCIATED) 0.5% green, aphanitic, intense circular feature | | | | | | | |
| | | ? | | 27.0-27.8 CROSSCUT BY NUMEROUS CARBONATE 1-3mm STRUCTURE FILLINGS @ 0-20°C. | | | | | | | |
| 30.0 | | ? | | 27.7-28.75 ANDESITE FLOW - PERIPLUTIC - AS ABOVE 24.0-26.2 SECTION - PHENOCRYSTS PARTIALLY REPLACED BY qtz | | | | | | | |
| | | ? | | 28.75-31.0 ANDESITE FLOW - SUB-BRECCIATED - BRECCIATION @ 25°C. AT 30.0 | | | | | | | |
| | | ? | | - SIMILAR TO 26.2-27.2 SECTION - CONTACT @ 70°C. | | | | | | | |
| | | ? | | 31.0-32.8 ALTERED ANDESITE | | | | | | | |
| | | ? | | 32.8-34.6 ANDESITE FLOW - SUB BRECCIATED. | | | | | | | |
| 35.0 | | + | | 33.6-36.1 ALTERED ANDESITE - PYRITE BRECCIA - 90% ALTERED ANDESITE AND 10% ANDESITE 1-20mm qtz crystals in a pyrite (40%) matrix | | | | | | | |
| | | ? | | 36.1-38.0 ANDESITE BRECCIA - WITH ALTERED GREEN BROWN 2-1% py | | | | | | | |
| | | ? | | 38.0-38.6 ANDESITE BRECCIATED | | | | | | | |
| | | ? | | 38.6-39.0 ALTERED ANDESITE - BRECCIATED - ALTERATION CONTACT @ 30°C. | | | | | | | |
| 40.0 | | | | 39.0-40.3 ANDESITE - BRECCIATED. | | | | | | | |

* ANDESITE BRECCIATED - BRECCIATION
APPEARS TO BE A PRIMARY FEATURE
OF VOLCANIC DEPOSITION - NOT DUE TO
q.v. EXTRUSION *

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|---------------------------------|----------------|------------|------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | Au | Ag |
| <i>TR py³</i> | | | | | | | |
| <i>43.1-44.1 5% py.</i> | | <i>751</i> | <i>441</i> | <i>1.0</i> | <i>1512</i> | <i>.001</i> | <i>.03</i> |
| <i>44.1-53.0 42 py to base.</i> | | | | | | | |
| <i>53.0-55.2 10 py</i> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|------------------------------|----------------|--------------|--------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | Au | Ag |
| <i>66.35-66.65 g 5% / 24</i> | | <i>66.35</i> | <i>66.65</i> | <i>0.3</i> | <i>1513</i> | <i>.010</i> | <i>.06</i> |
| <i>66.65-67.8 12-170P</i> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | |
|--|----------------|--------------|--------------|-------------|---------------|-------------|------------|------------------------|
| | | FROM | TO | WIDTH | | Au | Ag | |
| <i>82.9-87.8 Te-1% ass py</i> | | | | | | | | |
| <i>87.8-89.5 3% py</i> | | | | | | | | |
| | | <i>87.8</i> | <i>89.5</i> | <i>1.7</i> | <i>1514</i> | <i>.001</i> | <i>.06</i> | |
| <i>89.5-90.65 5% py</i> | | | | | | | | |
| <i>90.65-90.75 9% vein Te py tetra</i> | | <i>90.65</i> | <i>90.75</i> | <i>1.15</i> | <i>1515</i> | <i>.400</i> | <i>.01</i> | <i>1.15 m 0.400 9%</i> |
| | | <i>90.65</i> | <i>90.75</i> | <i>0.10</i> | <i>11.0</i> | <i>.008</i> | <i>.05</i> | |
| <i>90.75-91.9 5% to 55% py</i> | | <i>90.75</i> | <i>91.9</i> | <i>1.15</i> | <i>1517</i> | <i>.025</i> | <i>.09</i> | |
| <i>91.9-92.7 30% py</i> | | <i>91.9</i> | <i>92.7</i> | <i>0.8</i> | <i>1518</i> | <i>.022</i> | <i>.06</i> | |
| <i>92.7-94.2 5% py</i> | | <i>92.7</i> | <i>94.2</i> | <i>1.5</i> | <i>1519</i> | <i>.012</i> | <i>.03</i> | |
| <i>94.2-95.3 3-5% py</i> | | <i>94.2</i> | <i>95.3</i> | <i>1.1</i> | <i>1520</i> | <i>.059</i> | <i>.04</i> | |
| <i>95.3-104.5 Te-1% ass py</i> | | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|------------|
| | | | | | A | B | C | D | E | | |
| 100.0 | | | | | | | | | | | |
| ? | ? | | | 102.8-103.9 Porphyritic Andesite Flow - phenocrysts replaced by calcite 103.9-106.7 Andesite Flow - completely altered. | | | | | | | |
| 105.0 | | | | 106.7-107.1 Altered Andesite - 10% to 25% py | | | | | | | |
| | | | | 107.5-109.5 Andesite Flow - 10-15% py | | | | | | | |
| | | | | 109.5-111.6 Pillowed Andesite Flows - 25% green amphibole - 111.2-111.5 altered: 2 cm gts. chert clasts visible at 111.4 | | | | | | | |
| 110.0 | | | | pillows 111.6-115.5 Andesite Flow - sandy texture. 10% py 113.1-114.6 grades into an apophytic breccia saturated flow unit thin bed. | | | | | | | |
| | | | | 115.5-124.0 Altered Andesite - tan brown, mod green py 115.6-116.5 py breccia 25% py | | | | | | | |
| 115.0 | | | | | | | | | | | |
| 120.0 | | | | | | | | | | | |
| | | | | * EPIDOTE ALTERATION APPEARS TO BE RELATED TO A METAMORPHIC ORIGINEAL SOURCE * | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--|----------------|--------------|--------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | As | Ag |
| <i>102.8-103.9 Tr. py</i> | | | | | | | |
| <i>106.7-107.1 10% py</i> | | <i>106.7</i> | <i>107.1</i> | <i>0.4</i> | <i>1521</i> | <i>.002</i> | <i>.03</i> |
| <i>107.1-109.5 Tr-1% py</i> | | | | | | | |
| <i>109.5-115.8 Tr. py</i> | | | | | | | |
| <i>115.6-116.5 pyrite breccia 20% py</i> | | <i>115.6</i> | <i>116.5</i> | <i>0.9</i> | <i>1522</i> | <i>.001</i> | <i>.03</i> |
| <i>116.5-121.5 Tr-1% py</i> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|---------------------------------------|----------------|--------------|--------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | <i>Ag</i> | <i>Ag</i> |
| <i>121.5-124.0 5% DISS ELIMINATED</i> | | | | | | | |
| <i>pc.</i> | | <i>121.5</i> | <i>123.8</i> | <i>2.3</i> | <i>1523</i> | <i>.019</i> | <i>.06</i> |
| <i>124.0-129.8 TR 14</i> | | | | | | | |
| <i>129.8 END OF HOLE</i> | | | | | | | |

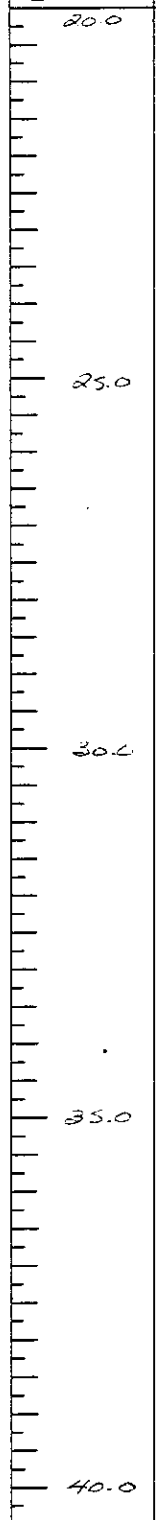
DRILL LOG

| | |
|---|--|
| PROJECT <i>Mt. Dome 2150</i> | GROUND ELEV. <i>732.50</i> |
| HOLE NO. <i>MBC 81-6</i> | BEARING <i>150° (140.43° SURVEY)</i> |
| LOCATION <i>KILKUIEW FOLDHILL</i> <i>L 7425W: 34005</i> <i>N (4,566,621.288) E (461,435.414)</i> | DIP <i>-45°</i> |
| LOGGED BY <i>Col Everett</i> | TOTAL LENGTH <i>71.6m.</i> |
| DATE <i>July 30 1981</i> | HORIZONTAL PROJECT <i>31.7.</i> |
| CONTRACTOR <i>D.V. DIAMOND DRILLING</i> | VERTICAL PROJECT <i>32.5m</i> |
| CORE SIZE <i>3.0</i> | ALTERATION SCALE |
| DATE STARTED <i>27/08/81</i> | <p>absent slight moderate intense</p> |
| DATE COMPLETED <i>28/08/81</i> | TOTAL SULPHIDE SCALE |
| DIP TESTS <i>AVG TEST 71.6m -42°</i> | <p>traces only < 1% 1% - 3% 3% - 10% > 10%</p> |
| COMMENTS | LEGEND |
| | <p><i>v</i> ANDESITE</p> <p><i>*</i> ANDESITE BRECCIATED</p> <p><i>∴</i> BASALTIC DYKE</p> <p><i>⋮</i> ALTERED ANDESITE</p> <p><i>Q.V.</i> QUARTZ VEIN</p> |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|------------|
| | | | | | A | B | C | D | E | | |
| 0.0 | | | | 0.4-0 OVERBURDEN | | | | | | | |
| 4.0 | | | | 4.0-12.5 ANDESITE FLOW - VARIAB. ALTERATION - ALTERED BASIC FLOW WITH CRACKLE TEXTURE TO 4.0-4.9, 5.5-7.7, 11.1-12.5; GREEN BROWN WITH SILICIFICATION, SANDY TEXTURE | | | | | | | |
| 5.6 | | | qv | 5.6-8.63 $\frac{1}{2}$ VEIN top @ 55°C | | | | | | | |
| 12.5 | | | qv | 12.5-13.6 ALTERED ANDESITE - TAN BROWN, INTENSE CRACKLE TEXTURE - 12.82 1.5 cm $\frac{1}{2}$ VEINLET @ 45°C | | | | | | | |
| 13.6 | | | | 13.6-15.8 ANDESITE FLOW - CARBONATIZED - LIGHT GOLD, WEAKLY FLOW | | | | | | | |
| 15.8 | | | | 15.8-16.3 ANDESITE FLOW - SUB BRECCIATED | | | | | | | |
| 16.3 | | | | 16.3-17.3 ANDESITE FLOW - SIMILAR TO 13.6-15.8 SECTION | | | | | | | |
| 17.3 | | | 1/60 | 17.3-19.4 ANDESITE BRECCIATED - LOCALLY INTENSELY BRECCIATED WITH ABX STRATIGRAPHICALLY BELOW THE 16.3-17.3 FLOW UNIT. CONTACT WEARILY CALCITIZED & BRECCIATED. | | | | | | | |
| 18.6 | | | qv | 18.6 - GRADUALLY INTO A FLOW (NO BRECCIATION) | | | | | | | |
| 19.6 | | | | 19.6-19.9 ALTERED ANDESITE - 20% py | | | | | | | |
| 19.8 | | | | 19.8-20.3 QUARTZ BRECCIA - 40% Nt AND GRIDS, 60% qtz, FOLDS IN A BLUE GRAY $\frac{1}{2}$ IN 15% MATRIX | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|----------------------------|----------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Ag | Ag |
| 40-49 12% py | | | | | | | |
| 49-55 1% py | | | | | | | |
| 55-77 12% py | | | | | | | |
| 77-90 5% DIS. py | | | | | | | |
| | | 8.0 | 9.0 | 1.0 | 1524 | .018 | .10 |
| 90-11.1 12-17% py | | | | | | | |
| | | | | | | | |
| 12.5-13.6 3% DIS. py | | 12.5 | 13.6 | 1.1 | 1525 | .001 | .07 |
| | | | | | | | |
| | | | | | | | |
| 19.6-19.8 20% py | | 19.6 | 19.8 | 0.2 | 1526 | .001 | .05 |
| 19.8-20.3 15% py | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 20.0 | | | | 20.3-21.7 ALTERED BRECCIATED ANDESITE - cemented by fine Qtz stringers - 10-15% py 21.7-23.2 ANDESITE - BRECCIATED - te py | | | | | | | |
| 23.2-24.7 | | | | ALTERED ANDESITE 23.7-23.8 q.v. @ 50° C - te biotite WITHIN VEIN STRUCTURE | | | | | | | |
| 24.7-29.0 | | | | ANDESITE - SUB BRECCIATED. GRAY-GREEN APHANTIC - BRECCIATION & PARTIAL ROTATION OF FRAGMENTS IN A DARK GREEN CHLORITIC MATRIX VARIES FROM WK TO INT. - overlies lower flow unit. CONTACT IS SHARP WITH FLOW SLIGHTLY BRECCIATED AND ALTERED ALONG CONTACT. | | | | | | | |
| 29.0-32.7 | | | | ANDESITE FLOW PALE GREEN APHANTIC - WEAK CRACKLE TEXTURE. Te py. | | | | | | | |
| 32.7-38.7 | | | | ANDESITE - BRECCIATED - te py | | | | | | | |
| 35.5 | | | | 3.2 cm Qtz vein 250C | | | | | | | |
| 38.7-45.0 | | | | BASALT (locally talc/sericitized) - deep green, f.l., locally phoned, soft, talc-like greasy feel along fractures. NO VISIBLE SULFIDE. | | | | | | | |



| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 40.0 | | | | - to carb. along fine fractures | | | | | | | |
| 45.0 | | | | 45.0-48.8 ANDESITE FLOW (CARBONATIZED) - fine grains, sandy textured, - locally porphyritic with phenocrysts replaced by carbonate | | | | | | | |
| | | | | 47.9-48.8 weakly silicified | | | | | | | |
| 50.0 | | | | 48.8-64.2 ALTERED ANDESITE - tan brown silicified, carb., moderately pyritized, cut by a II series of .01-.5 ml. qtz veins @ 45-50° ca. Mod-intense chlorite. Fe. | | | | | | | |
| | | | q.v. | - 49.2 1.5cm q.v. @ 45° ca. py. qtz. tetra. | | | | | | | |
| | | | q.v. | - 49.6 1.2cm q.v. @ 50° ca. py. | | | | | | | |
| | | | q.v. | - 49.94 1 cm q.v. @ 45° ca. py. tetra. | | | | | | | |
| | | | q.v. | - 53.6-54.12 q.v. @ 45° ca. py. qtz. tetra. | | | | | | | |
| 55.0 | | | | | | | | | | | |
| | | | q.v. | 57.5 2.5 cm q.v. @ 45° ca. tetra. py. qtz. | | | | | | | |
| | | | q.v. | 57.7 2cm q.v. @ 50° ca. py. tetra. qtz. | | | | | | | |
| | | | q.v. | 57.9-58.04 q.v. @ 50° ca. py. tetra. qtz. | | | | | | | |
| | | | q.v. | 58.4 3.5cm q.v. @ 45° ca. py. tetra. | | | | | | | |
| | | | q.v. | 58.55-58.68 q.v. @ 45° ca. py. tetra. | | | | | | | |
| 60.0 | | | | 59.0-59.0E q.v. @ 45° ca. py. tetra. | | | | | | | |
| | | | | 59.27 1cm q.v. @ 70° ca. py. qtz. | | | | | | | |
| | | | | 59.35-43 3 1/2 cm q.v.s @ 50° ca. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|------------------------------------|----------------|--------------|--------------|-------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | As | Ag |
| <i>45.0-48.2 1% py</i> | | | | | | | |
| <i>48.8-50.3 3% py</i> | | <i>48.8</i> | <i>50.3</i> | <i>1.5</i> | <i>1530</i> | <i>.005</i> | <i>.07</i> |
| <i>50.3-52.5 1% py</i> | | <i>50.3</i> | <i>52.5</i> | <i>1.7</i> | <i>1531</i> | <i>.001</i> | <i>.03</i> |
| <i>52.5-53.6 5% py</i> | | <i>52.0</i> | <i>52.8</i> | <i>0.8</i> | <i>1532</i> | <i>.002</i> | <i>.03</i> |
| <i>53.6-54.12 g.v. py 4% to 1%</i> | | <i>52.5</i> | <i>53.6</i> | <i>0.8</i> | <i>1533</i> | <i>.015</i> | <i>.05</i> |
| <i>54.12-55.6 4% py</i> | | <i>53.6</i> | <i>54.12</i> | <i>0.52</i> | <i>1534</i> | <i>.003</i> | <i>.03</i> |
| <i>55.6-57.4 5% py</i> | | <i>54.12</i> | <i>55.6</i> | <i>1.48</i> | <i>1535</i> | <i>0.10</i> | <i>.06</i> |
| <i>57.4-58.8 5-8% py AS</i> | | <i>55.6</i> | <i>57.4</i> | <i>1.8</i> | <i>1536</i> | <i>.001</i> | <i>.07</i> |
| <i>COURSE CLHCDRL 2-10mm DIS</i> | | <i>57.4</i> | <i>58.8</i> | <i>1.4</i> | <i>1537</i> | <i>.020</i> | <i>.26</i> |
| <i>58.8-60.3 3% py</i> | | <i>58.8</i> | <i>60.3</i> | <i>1.5</i> | <i>1538</i> | <i>.029</i> | <i>.12</i> |

DRILL LOG

| | |
|--|---|
| PROJECT <i>McDerm 2150</i> | GROUND ELEV. <i>(207,601 m)</i> |
| HOLE NO. <i>MBC 81-7</i> | BEARING <i>330° (322.48 SURVEYED)</i> |
| LOCATION <i>CALLISON CREEK BRECCIA ZONE</i> <i>12+00W E+285</i> <i>N(6566753.443) E(460,988.310)</i> | DIP <i>-45°</i> |
| LOGGED BY <i>Carl Everett</i> | TOTAL LENGTH <i>89.6 m.</i> |
| DATE <i>July 31, 1981</i> | HORIZONTAL PROJECT <i>...</i> |
| CONTRACTOR <i>D.I. Diamond Drilling</i> | VERTICAL PROJECT <i>...</i> |
| CORE SIZE <i>BQ</i> | ALTERATION SCALE 0 1 2 3 absent slight moderate intense |
| DATE STARTED <i>28/07/81</i> | TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10% |
| DATE COMPLETED <i>30/07/81</i> | |
| DIP TESTS <i>ACID TEST. 89.6 m -45°</i> | |
| COMMENTS <i>The intense alteration in the extremely silicified sections may be "intense" dolomitization of these andesitic rocks or complete reduction of the original rock assemblage to clay and minor carbonate. It is difficult to powder the rock and get a reaction from 10% HCl.</i> | LEGEND ✓ ✓ ANDESITE FLOWS/TUFFS ✓ ✗ ANDESITE BRECCIATED ⋯ ALTERED ANDESITE ▲ BRECCIA - SILICIFIED SHEAR ZONE Q.V. QUARTZ VEIN |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 0 | | | | 0-6.7 OVERBURDEN | | | | | | | |
| 50 | | | | | | | | | | | |
| 50 | | | | 6.7-9.4 ANDESITE Flow weakly altered, green brown andesite flow carb. stringers to local carbonate alteration - 6.7-14.3 fractured ground. | | | | | | | |
| 77 | | | | 9.4-13.7 ALTERED ANDESITE - green brown, fine gr. stringers to - 111 3cm g.v. @ 20 cm. to 111 | | | | | | | |
| 100 | | | | 13.7-14.3 ANDESITE Flow (CARBONATIZED) - fine green, shaly | | | | | | | |
| 150 | | | | 14.3-17.5 ANDESITE (weak ALTERATION) green brown, weakly siliceous, shaly to | | | | | | | |
| 200 | | | | 17.5-19.0 ALTERED ANDESITE - INTENSE - orange brown, intensely silicified, to gr. and coarse gr. stringers to 30cm | | | | | | | |
| 20.0 | | | | 19.0-19.9 ANDESITE Flow check features top, green brown color index. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|----------------------------|----------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Au | Ag |
| <i>6.7-7.4 12 py</i> | | | | | | | |
| <i>7.4-13.7 570 py</i> | | | | | | | |
| | | 9.4 | 12.0 | 2.6 | 1541 | .638 | .07 |
| | | 12.0 | 13.7 | 1.7 | 1542 | .03 | .06 |
| <i>14.3-17.5 12 py</i> | | | | | | | |
| <i>17.5-19.0 370 py</i> | | 17.5 | 19.0 | 1.5 | 1543 | .001 | .07 |
| <i>19.0-19.9 12 py</i> | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 19.9-23.7 | | | | - the patches of feldspar in section - 5-10% py. locally 25%, locally shattered by fine qtz and py stringers. | | | | | | | |
| 23.7-28.4 | | | | Andesite flow with green aphanitic flow, intense crackle texture fine qtz veins (2-30% w/4) (no) alteration selvages | | | | | | | |
| 28.4-29.8 | | | | Breccia - 85% fragments (95% alt. and 10% 5% qtz) within a blue grey aphanitic (5-10%) matrix (light tan) a violent, disruptive natural | | | | | | | |
| 29.8-34.7 | | | | Altered Andesite - contact @ 45°C, contains minor pyritic (80%) in sections intense crackle texture | | | | | | | |
| 34.7-36.6 | | | | Andesite flow intense crackle texture, 36.6-36.6 sub brecciated by matrix similar to 28.4-29.8 section. | | | | | | | |
| 36.6-38.0 | | | | Altered Andesite - tan-orange colour, intense silicification, intense to shattered crackling texture. | | | | | | | |
| 38.0-40.0 | | | | | | | | | | | |

* ALTERATION (B) may be carbonatization or production to cubic minerals and minor carbonates*



| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|---|----------------|-------------|-------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | Ag | As |
| <i>199-23.7 5-10% in locally 25% py 15 Flg. subhedron, no. fine typical gold's - fundamental disseminated variety. noted in DDH 81-176 peripheral to quartz veins</i> | | <i>19.9</i> | <i>21.2</i> | <i>1.3</i> | <i>1544</i> | <i>.07</i> | <i>.04</i> |
| | | <i>21.2</i> | <i>23.3</i> | <i>2.1</i> | <i>1545</i> | <i>.002</i> | <i>.03</i> |
| <i>23.7-28.4 Tl py</i> | | | | | | | |
| <i>28.4-29.8 5-15% py</i> | | <i>28.4</i> | <i>29.8</i> | <i>1.4</i> | <i>1546</i> | <i>.002</i> | <i>.02</i> |
| <i>29.8-34.7 1-3% py</i> | | <i>29.8</i> | <i>32.5</i> | <i>3.7</i> | <i>1547</i> | <i>.003</i> | <i>.02</i> |
| | | <i>33.5</i> | <i>34.7</i> | <i>1.2</i> | <i>1548</i> | <i>.001</i> | <i>.01</i> |
| | | <i>36.2</i> | <i>38.0</i> | <i>1.8</i> | <i>1549</i> | <i>.002</i> | <i>.02</i> |
| <i>38.0-40.3 1-2% py</i> | | <i>38.0</i> | <i>40.3</i> | <i>2.3</i> | <i>1550</i> | <i>.001</i> | <i>.01</i> |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 40.0 | | | | 41.6-41.7 @ 4 th CA; 43.1-43.3 @ 30-50 th CA; 44.2-46.0 @ 2 nd CA; 46.4 @ 3 rd CA -- BRECCIA; SIMILAR TO 28.4-29.8 SECTION | | | | | | | |
| 75.0 | | | | 46.7 post BRECCIATION / SILICIFICATION 8mm qtz py dark STRINGER CROSS-CUTTING SILICEOUS BRECCIA MATRIX | | | | | | | |
| 50.0 | | | | 52.0-55.5 BRECCIA - AS IN 28.4-29.8. CONTAINS 60% SHATTERED ALKAL AND GRAS @ 35% MATRIX. 10-25% py, locally to 25% py. - 54.3-55.0 FRACTURED MICH 2009 | | | | | | | |
| 55.0 | | | | 55.5-57.9 ALTERED ANDESITE - matrix TAN BROWN, SILICIFIED, 10-15% py OCCURRING IN A PATCHY FASHION. TO THE SECTION. | | | | | | | |
| 60.0 | | | | 57.1-61.4 ANDESITE FLOW - Periphytic - dark green, contains 10-20% 5-7mm dark PHENOCRYSTS (PYROXENE?) WHICH EARLIER WERE FORMING IN AREAS OF WERE CURRENTLY FLOODING → 59.4-59.4; 60.0-60.2, 61.2-62.8. | | | | | | | |

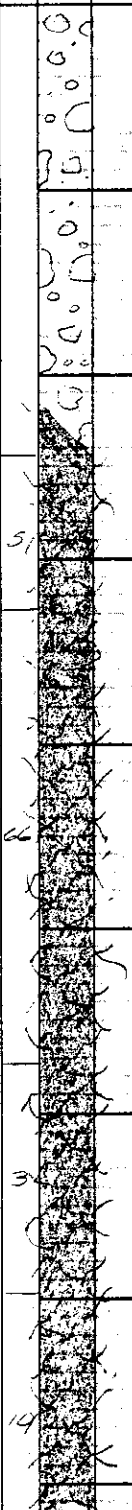
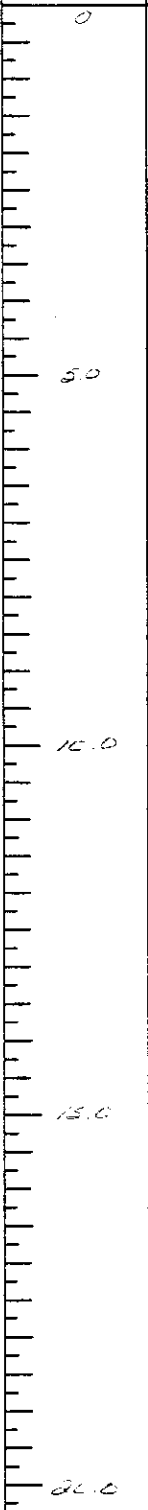
| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|--|----------------|-------------|-------------|------------|---------------|-------------|------------|--|--|
| | | FROM | TO | WIDTH | | Ag | Ag | | |
| <i>40.3-41.5 10% pyrite</i> | | <i>40.3</i> | <i>41.5</i> | <i>1.2</i> | <i>1551</i> | <i>.001</i> | <i>.02</i> | | |
| <i>41.5-43.0 1-2% py</i> | | <i>41.5</i> | <i>43.0</i> | <i>1.5</i> | <i>1552</i> | <i>.001</i> | <i>.03</i> | | |
| <i>43.0-44.5 2-3%⁵⁷ py</i> | | <i>43.0</i> | <i>44.5</i> | <i>1.5</i> | <i>1553</i> | <i>.001</i> | <i>.02</i> | | |
| <i>44.5-46.0 20% py</i> | | <i>44.5</i> | <i>46.0</i> | <i>1.5</i> | <i>1554</i> | <i>.001</i> | <i>.04</i> | | |
| <i>46.0-49.0 1% py</i> | | <i>46.0</i> | <i>49.0</i> | <i>3.0</i> | <i>1555</i> | <i>.001</i> | <i>.03</i> | | |
| <i>49.0-52.0 1% py</i> | | <i>49.0</i> | <i>52.0</i> | <i>3.0</i> | <i>1556</i> | <i>.001</i> | <i>.02</i> | | |
| <i>52.0-53.5 10-15%⁵⁷ py → 25% py</i> | | <i>52.0</i> | <i>53.5</i> | <i>1.5</i> | <i>1557</i> | <i>.001</i> | <i>.02</i> | | |
| | | <i>53.5</i> | <i>55.0</i> | <i>1.5</i> | <i>1558</i> | <i>.001</i> | <i>.04</i> | | |
| | | <i>55.0</i> | <i>56.5</i> | <i>1.5</i> | <i>1559</i> | <i>.001</i> | <i>.03</i> | | |
| <i>55.5-57.9 10% py</i> | | <i>56.5</i> | <i>57.9</i> | <i>1.4</i> | <i>1560</i> | <i>.001</i> | <i>.06</i> | | |
| <i>57.9-61.6 1% py</i> | | | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|----------------------|----------------------|----------------|---------------------|---|--------------------|-------------|
| | | | | | A <i>CHL. EP.</i> | B <i>CHL. EP.</i> | C <i>py</i> | D <i>S. / Ca</i> | E | | |
| 65.0 | | | | | | | | | | | |
| 65.0 | | | | <p>64.6-65.5 ALTERED ANDESITE FLOW.</p> <p>- CUT BY FINE 1-2mm qtz and py stringers 1/2 TR-100% ALTERATION CONTACT @ 70°C.</p> | | | | | | | |
| 70.0 | | | | <p>65.5-69.6 ANDESITE FLOW - PORPHYRITIC</p> <p>- SIMILAR TO 57.9-64.4 SECTION.</p> <p>FROM 65.5-69.6 UNIT FLOW INTO AN ANDRESITE, LOCALLY PORPHYRITIC FLOW.</p> <p>- FINE STRONG LINE TRACES</p> <p>POPHY INCL @ 69.1-69.4</p> <p>1 VEINLET PL. 2 METERS</p> | | | | | | | |
| 75.0 | | | | | | | | | | | |
| 75.0 | | | | <p>75.0-75.2 INTENSE ALTERATION</p> <p>TR-100%</p> | | | | | | | |
| 80.0 | | | | <p>78.2-78.2 qtz, py, chl. stringers</p> <p>VEIN @ 45°C.</p> | | | | | | | |





DRILL LOG

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|--|--|
| PROJECT <i>McDermid 250</i> | GROUND ELEV. <i>403.93 m</i> |
| HOLE NO. <i>MBC 21-B</i> | BEARING <i>360° (50° ... -0°)</i> |
| LOCATION <i>SKY VEIN L. 9+75W: 1+85E</i> <i>(N 656 270° 30' E 461321.476)</i> | DIP <i>-45°</i> |
| LOGGED BY <i>Cal Everett</i> | TOTAL LENGTH <i>492 m.</i> |
| DATE <i>Sept 6/1981</i> | HORIZONTAL PROJECT <i>...</i> |
| CONTRACTOR <i>D.V. Diamond Drilling</i> | VERTICAL PROJECT <i>-12 m.</i> |
| CORE SIZE <i>30 DRILL-17A</i> | ALTERATION SCALE 0 1 2 3 absent slight moderate intense |
| DATE STARTED <i>1/3/81</i> | TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10% |
| DATE COMPLETED <i>4/2/81</i> | DIP TESTS <i>NONE - 1.12 slipped in 3rd interval</i> |
| COMMENTS <i>Drill hole clogged in fault zone at footwall of Sky Vein Core recovery is poor.</i> | LEGEND  SEDIMENTARY BRECCIA q.v.  ARGILLITE |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|------------|
| | | | | | A | B | C | D | E | | |
| 0 | | | | <i>0-6.1 OVERBURDEN</i> | | | | | | | |
| 5.0 | | | | | | | | | | | |
| 5.1 | | | | <i>6.1-29.6 BLACK GRAPHIC ARGILLITE - SHEARED. SHEARED / BRECCIATED BLACK GRAPHIC ARGILLITE. CARBONATE NOTED @ 20cm. MINOR 1-2mm SECTIONS OF SILICIFIED ARGILLITE. Most of this section is SHEARED AND BRECCIATED. CARBONATE BULLS OF 1-6mm. STRINGERS NOTED 7/5</i> | | | | | | | |
| 10.0 | | | | | | | | | | | |
| 15.0 | | | | | | | | | | | |
| 20.0 | | | | | | | | | | | |



DRILL LOG

| | |
|---|---|
| PROJECT <i>McDermid 2150</i> | GROUND ELEV. |
| HOLE NO. <i>81-9</i> | BEARING <i>180°</i> |
| LOCATION <i>LINE 9+75W · 216.5 Sky Field</i> | DIP <i>-60°</i> |
| | TOTAL LENGTH <i>156.1</i> |
| LOGGED BY <i>Col Everett</i> | HORIZONTAL PROJECT <i>82.8 m</i> |
| DATE <i>Sept 8 '91</i> | VERTICAL PROJECT <i>112.5 m</i> |
| CONTRACTOR <i>DJ Diamond Drilling</i> | ALTERATION SCALE 0 1 2 3  absent slight moderate intense |
| CORE SIZE <i>BQ</i> <i>-17A</i> | |
| DATE STARTED <i>Sept 4 '91</i> | TOTAL SULPHIDE SCALE 0 1 2 3 4  traces only < 1% 1% - 3% 3% - 10% > 10% |
| DATE COMPLETED <i>5: 11/31</i> | |
| DIP TESTS <i>76.2 m 57°</i> <i>NO ACID TEST AT 156.1m. HOLE LOST IN BAD GROUND</i> | |
| COMMENTS <i>The interformational shale breccia may be caused by a sudden shift of facies of distributary streams from an environment of high organic matter (i.e. carbonaceous nature of shale, argillite unit) subsequently eroding unconsolidated sandstone - minor calcareous siltstone and dipping into black mud-sandstone load in a stagnant near shore environment.</i> | LEGEND  SEDIMENTARY BRECCIA  ARGILLITE <i>Q.V.</i> QUARTZ VEIN |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|------------|
| | | | | | A | B | C | D | E | | |
| 0.0 | | | | <p>0.0-91 <i>overburden</i></p> <p>- DRILL CASING TRIED THROUGH</p> <p>9.1 m of <i>grey</i> argillaceous <i>shale</i></p> <p>sandstone is <i>present</i> in <i>lower</i></p> <p>of <i>the</i> <i>section</i></p> | | | | | | | |
| 5.0 | | | | | | | | | | | |
| 10.0 | | | | <p>91-653 <i>intermittent shale</i> <i>bedding</i></p> <p><i>lent.</i> contains <i>variable</i> <i>amounts</i></p> <p><i>of</i> <i>quartz</i> <i>in</i> <i>the</i> <i>matrix</i> <i>(5-10%</i></p> <p><i>in</i> <i>places)</i> <i>of</i> <i>quartz</i> <i>in</i> <i>the</i> <i>matrix</i></p> <p><i>of</i> <i>the</i> <i>matrix</i> <i>is</i> <i>not</i> <i>well</i> <i>developed</i></p> <p><i>(fine</i> <i>grained</i> <i>sandstone</i> <i>(10%)</i> <i>matrix</i></p> <p><i>of</i> <i>the</i> <i>matrix</i> <i>is</i> <i>not</i> <i>well</i> <i>developed</i></p> <p><i>is</i> <i>in</i> <i>the</i> <i>matrix</i> <i>of</i> <i>the</i> <i>matrix</i></p> | | | | | | | |
| 15.0 | | | | <p><i>and</i> <i>is</i> <i>not</i> <i>well</i> <i>developed</i> <i>sandstone</i></p> <p><i>beds</i> <i>commonly</i> <i>contain</i> <i>pre-oxidation</i></p> <p><i>of</i> <i>iron</i> <i>and</i> <i>calcium</i> <i>and</i> <i>Fe-1% diss.</i></p> <p><i>71</i></p> <p><i>91-15.0</i> <i>thin</i> <i>block</i> <i>sandstone</i></p> <p><i>5% argillaceous</i> <i>matrix</i> <i>occurs</i> <i>in</i></p> <p><i>fragments</i> <i>of</i> <i>the</i> <i>sandstone</i> <i>block</i></p> <p><i>15.0-18.0</i> <i>50% sandstone</i> <i>frag.</i> <i>in</i> <i>the</i></p> <p><i>of</i> <i>bedding</i> <i>@</i> <i>50°</i> <i>CA.</i></p> | | | | | | | |
| 20.0 | | | | <p><i>CL 30°</i></p> <p><i>18.0-30.1</i> <i>~10-15% 1-cm argillaceous</i></p> <p><i>sandstone</i> <i>frag.</i> <i>intermittent</i></p> <p><i>45°</i> <i>Ca. Fe-1% low</i> <i>in</i> <i>the</i> <i>matrix</i></p> <p><i>19.5-20.7</i> <i>fractured</i> <i>minor</i> <i>argillaceous</i></p> | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 60.0 | | | | | | | | | | | |
| 65.0 | | | | <p><i>65.3-73.7 Thin, Black Sandstone (rac?)</i> <i>- cut by numerous qtz 1-20mm</i> <i>stringers @ 38°. 5° angular</i> <i>frag. noted approaching wackes.</i> <i>10-15% py</i></p> | | | | | | | |
| 70.0 | | | | | | | | | | | |
| 75.0 | | | | | | | | | | | |
| 80.0 | | | | <p><i>75.1-80.8 Fine grained</i> <i>- only mod. ind. quartz (1-2mm)</i> <i>contains ~ 95% fine ind. quartz</i> <i>angular qtz, 100% calc? frag. cemented</i> <i>by a fine mod. ind. quartz 1-2mm</i> <i>10-15% py</i></p> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | |
|--|----------------|---------|----|-------|---------------|--------|--|--|
| | | FROM | TO | WIDTH | | | | |
| <i>80-85's 1% py</i> | | | | | | | | |
| <i>85-5-100 L 1% sulphide py</i> | | | | | | | | |
| <i>occurring in patches and is disseminations within py only</i> | | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 100.0 | | | | 100.6-111.3 Breccia - Pentacrill AR. LUCIFEROUS, CONTAINS 12-5% angular to rounded fragments. Locally frags have been dissolved parallel to the CA. | | | | | | | |
| 105.0 | | | | 104.7 BRECCIATION ATTITUDE @ 30° CA. | | | | | | | |
| 110.0 | | | | 110.9-117.0 Breccia - increase in fragment content to 5-10%. py noted in brecciated material. Traces of feldspar to | | | | | | | |
| 115.0 | | | | - 111.6 9mm post brecciation grt stringer @ 20° CA - to py. CA - 112.0 BRECCIATION ATTITUDE @ 20° CA - 114.6 BRECCIATION ATTITUDE @ 20° CA - 115.2 cleavage 11° CA. | | | | | | | |
| 120.0 | | | | 117.0-156.1 Breccia - as in previous sections - 70% frags.; 20% gray blk. sandstone; 15% gray banded siltstone; 5% granular. to andesite (?). - 1% py % 117.0-117.5 Andesite flow frag | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 120.0 | 93 | | | | | | | | | | |
| 125.0 | | | | | | | | | | | |
| 130.0 | | | | 129.8-130.5 fractured - minor quartz | | | | | | | |
| 135.0 | | | | | | | | | | | |
| 140.0 | | | | 132.3-136.1 Sky vein hanging wall - Frag. zone - 132.3-133.3 moderate fine grained cut by post brecciated quartz stringers. - 133.3-135.3 moderate quartz (3-4 mm) stringers. + stringers are mensural vuggy and may imply an epithermal-type for the Sky vein system. 14.2. - 136.8 brecciated material in situ 11 to C.A. 139.5-139.6 quartz | | | | | | | |

BRITCA ↑



| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|--|----------------|--------------|--------------|------------|---------------|-------------|------------|--|--|
| | | FROM | TO | WIDTH | | <i>Au</i> | <i>Ag</i> | | |
| <i>→ 132.3 Tr-19/04</i> | | | | | | | | | |
| <i>132.3 - 135.3 MANGINIKUW STRINGER ZONE Tr-19/04</i> | | <i>132.3</i> | <i>133.8</i> | <i>1.5</i> | <i>0547</i> | <i>.001</i> | <i>.01</i> | | |
| | | <i>133.8</i> | <i>135.3</i> | <i>1.5</i> | <i>0548</i> | <i>.001</i> | <i>.01</i> | | |
| <i>135.3 - 139.6 Tr-19/04</i> | | | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 140.0 | 51 | | | 147.6-156.1 Stringer zone - qtz py - TR CURB / L. D. P. IN SCALINGS. NO PREVIOUS MTD. TO MINING. FRACTURED - FAULT ZONE. | | | | | | | |
| 145.0 | 66 | | | 143.3 TO SPH AND V.G. IN qtz STRINGER. | | | | | | | |
| 150.0 | 89 | | | 147.2-148.1 60% qtz 50 | | | | | | | |
| 155.0 | 89 | | | 149.6-156.1 qtz STOCKWORK - MINOR SP. DISS. CONCENTR. py. - 150.9-154.5 ~ 60% qtz IN F. qtz GRAPHITE BLENDED TO 152.7 stockwork - 154.5-156.1 qtz zone. may be present a variety of Sil. vein | | | | | | | |
| 160.0 | | | | 156.1 END OF HOLE - HOLE STOPPED - HEDS STUCK IN FLUID STRINGER ZONE. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | |
|---|----------------|---------|-------|-------|---------------|--------|-----|---|
| | | FROM | TO | WIDTH | | Ag | Ag | |
| | | 139.6 | 141.7 | 2.1 | 6549 | .001 | .01 | SECTION 1 SECTION 2 SECTION 3 SECTION 4 SECTION 5 SECTION 6 SECTION 7 SECTION 8 SECTION 9 SECTION 10 |
| <i>139.6 - 149.6 19% py</i> | | | | | | | | |
| | | 141.7 | 143.6 | 1.9 | 6550 | .001 | .01 | |
| | | 143.6 | 144.5 | 0.9 | 6501 | .001 | .01 | |
| | | 144.5 | 146.0 | 1.5 | 6502 | .001 | .01 | |
| | | 146.0 | 147.2 | 1.2 | 6503 | .001 | .01 | |
| | | 147.2 | 147.8 | 0.6 | 6504 | .001 | .01 | |
| | | 147.8 | 148.1 | 0.3 | 6505 | .001 | .01 | |
| | | 148.1 | 149.6 | 1.5 | 6506 | .001 | .01 | |
| | | 149.6 | 150.9 | 1.3 | 6507 | .003 | .01 | |
| <i>149.6 - 156.1 5% DISS py OCCURRING IN ARGILLITES AND IN pyz STRAGERS</i> | | 150.9 | 152.7 | 1.8 | 6508 | .009 | .01 | |
| | | 152.7 | 154.5 | 1.8 | 6509 | .005 | .01 | |
| | | 154.5 | 156.1 | 1.6 | 6510 | .001 | .01 | |
| <i>156.1 END OF HOLE - LOST IN BAD GROUND</i> | | | | | | | | |

DRILL LOG

| | |
|---|---|
| <p>PROJECT 71' L. C. 2150</p> | <p>GROUND ELEV. 123 m</p> |
| <p>HOLE NO. MBC 51-10</p> | <p>BEARING 090°</p> |
| <p>LOCATION 67805 : 2+265 20 metres west of a large surface exposure of the Stone Vein</p> | <p>DIP -45°</p> |
| | <p>TOTAL LENGTH 43.2 m</p> |
| <p>LOGGED BY CAL EVERETT</p> | <p>HORIZONTAL PROJECT 37 m</p> |
| <p>DATE Sept 15, 1981</p> | <p>VERTICAL PROJECT -10</p> |
| <p>CONTRACTOR D-I Diamond Drilling</p> | <p>ALTERATION SCALE</p> <p>absent slight moderate intense</p> |
| <p>CORE SIZE EQ DRILL - 38</p> | <p>TOTAL SULPHIDE SCALE</p> <p>traces only < 1% 1% - 3% 3% - 10% > 10%</p> |
| <p>DATE STARTED 5 10</p> | |
| <p>DATE COMPLETED Sept 23</p> | |
| <p>DIP TESTS 43.2 m -45°</p> | <p>LEGEND</p> <p>∇ VOLCANICS - ANDESITE</p> <p>⊠ VOLCANICS - BRECCIATED</p> <p>⋯ ALTERED ANDESITE</p> <p>Q.V. QUARTZ VEIN</p> |
| <p>COMMENTS</p> <p>py content in andesite is expressed as 10% for the Stone Vein structure</p> | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 0 | | | | 1-6.6 OVERBURDEN | | | | | | | |
| 5.0 | | | | | | | | | | | |
| 6.6-10.5 | | | | Andesite flow - carbonatized. green, green, med. crackle textures. sandy textured flow. 1% coarse py. disseminations noted along cleavage fractures. | | | | | | | |
| 10.5-11.6 | | | | ALTERED ANDESITE - ORGY BROWN, FE STAINING, PY SPINDERS @ 90% 8-10% DISSEMINATED PY. | | | | | | | |
| 11.6-12.2 | | | | ANDESITE FLOW - CARBONATIZED - SIMILAR TO 6.6-10.5 SECTION. - BREAKING OF VEINLINES FROM 10.5-11.6. | | | | | | | |
| 12.2-14.4 | | | | ALTERED ANDESITE - ORGY BROWN, MED. CRACKLE TEXTURE. LOW PY CONTENT. REPRESENT HANDLING WITH ALTERATION ZONE FOR SMALL VEINS. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--|----------------|-------------|-------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | Ag | As |
| <i>0-2.6 OVERBURDEN</i> | | | | | | | |
| <i>6.6-10.3 1% Pb</i> | | | | | | | |
| <i>10.3-11.6 8-10% Pb</i> | | <i>10.3</i> | <i>11.6</i> | <i>1.3</i> | <i>6501</i> | <i>.02</i> | <i>.03</i> |
| <i>11.6-17.2 1% Pb</i> | | | | | | | |
| <i>17.2-19.3 4-5% Pb</i> | | <i>17.2</i> | <i>18.5</i> | <i>1.3</i> | <i>6511</i> | <i>.001</i> | <i>.01</i> |
| | | <i>18.5</i> | <i>19.8</i> | <i>1.3</i> | <i>6523</i> | <i>.002</i> | <i>.01</i> |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 20.0 | | | | <i>20.3-20.45 qtz vein intersecting @ 45°.</i> | | | | | | | |
| 25.0 | | | | <i>22.3-23.3 SIMILE VEIN - SILENT RICH VEIN. FROM 23.4 → 24.65 VEIN APPEAR TO BE qtz VEIN FRAGS CEMENTED IN A QUARTZ ASPY (1%) TRICLY MSTRX. FROTHING NOTED TO ALONG FRACTURES. VEIN IS EXTREMELY VUGAL AND MAY BE EPITHERMAL.</i> | | | | | | | |
| 30.0 | | | | <i>29.3-31.5 A-CID FERRUGENOUS BRECCIA. SH. CRACKS NOTED IN C-2D IN 5 FRAGS (1-20g, 20g) ... ENRICHING MTRX qtz MTRX.</i> | | | | | | | |
| 35.0 | | | | <i>31.5-33.6 H-CID H-CID - SIMILAR TO 23.4 SECTION - 32.9 qtz vein @ 65°</i> | | | | | | | |
| 36.0 | | | | <i>33.6-35.5 ANDESITE FLOW PRE-GRANULITE ... FRACTURE ... DE. 18-190g. INTENSIVE CEMENTATION TO 34.2 m.</i> | | | | | | | |
| 40.0 | | | | <i>35.5-37.5 ANDESITE FLOW - BRECCIATED ... ON (10g) IN A DE GRANULITE ... MTRX. - CONTAINS 1% QTZ.</i> | | | | | | | |
| 45.0 | | | | <i>37.5-40.25 SIMILAR TO 33.6-35.5 SECTION.</i> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | |
|---|----------------|---------|-------|-------|---------------|--------|-----|----|
| | | FROM | TO | WIDTH | | Au | Ag | As |
| 19.8-20.3 15% py | | 19.8 | 20.3 | 0.5 | 6571 | .02 | .02 | |
| 20.4-21.0 15% py | | 20.4 | 21.0 | 0.55 | 6572 | .009 | .02 | |
| 21.0-22.4 7-10% py | | 21.0 | 22.4 | 1.2 | 6572 | .002 | .02 | |
| | | 22.2 | 23.4 | 1.2 | 6572 | .002 | .01 | |
| 23.4-23.95 30% py, 5% sph, 7% ch, 7% cpj | | 23.4 | 23.95 | 0.55 | 6572 | .004 | .03 | |
| 23.95-24.65 70% sph, 30% ch, 30% cpj | | 23.95 | 24.65 | 0.7 | 6575 | .003 | .02 | |
| 24.65-25.2 10% sph, 2% sph, 5% cpj | | 24.65 | 25.2 | 0.55 | 6576 | .009 | .02 | |
| 25.2-25.9 30% ch, 1% sph, 1% cpj, 1% sph | | 25.2 | 25.9 | 0.7 | 6577 | .008 | .02 | |
| 25.9-26.9 5-10% sph, 1% sph, 1% cpj, 1% sph | | 25.9 | 26.9 | 0.9 | 6578 | .01 | .02 | |
| ALBAGL M. ES 2% sph | | 26.8 | 27.9 | 1.0 | 6579 | .013 | .03 | |
| 27.8-29.1 5% py, 1% sph, 1% cpj | | 27.8 | 29.1 | 1.3 | 6600 | .011 | .01 | |
| 29.1-29.3 50% py, 1% sph | | 29.1 | 29.3 | 0.2 | 6601 | .05 | .12 | |
| 29.3-30.0 15% sph | | 29.3 | 30.0 | 0.7 | 6602 | .032 | .05 | |
| 30.0-30.6 1-2% py | | 30.0 | 30.6 | 0.6 | 6603 | .025 | .03 | |
| 30.6-31.5 15-20% py | | 30.6 | 31.5 | 0.9 | 6604 | .036 | .07 | |
| 31.5-32.8 7-10% py | | 31.5 | 32.8 | 1.3 | 6605 | .031 | .02 | |
| 32.8-33.6 2% py | | 32.8 | 33.6 | 0.8 | 6606 | .004 | .01 | |
| 33.6-33.8 7-10% py | | | | | | | | |
| 33.8-37.3 1-10% py, 1% sph, 1% cpj, 1% sph | | | | | | | | |
| 37.3-40.0 10% py | | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 44.0 | | | | 40.25-42.7 Andesite flow - similar to section - more epic along fractures | | | | | | | |
| | | | | 42.7-43.8 Andesite flow - similar to 35.5-39.3 section but less the brecciated character - previously noted. | | | | | | | |
| 45.0 | | | | 43.8-46.8 ALTERED ANDESITE - some of the brown 45.25-45.35 qtz vein to top of section ~1% of 76 | | | | | | | |
| | | | | 46.8-49.6 Sandstone and flow - white c.t. 110% py | | | | | | | |
| | | | | 48.6 END OF HOLE | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | |
|------------------------------|----------------|-------------|-------------|------------|---------------|-------------|------------|--|
| | | FROM | TO | WIDTH | | Ag | As | |
| <i>42.25-42.8 12-1902/24</i> | | | | | | | | |
| <i>43.8-46.8 120/1</i> | | <i>43.8</i> | <i>45.3</i> | <i>1.5</i> | <i>6427</i> | <i>.004</i> | <i>.01</i> | |
| <i>46.8-48.5 12-1902/24</i> | | <i>45.3</i> | <i>46.8</i> | <i>1.5</i> | <i>6428</i> | <i>.003</i> | <i>.01</i> | |
| <i>48.6 51000 LUR</i> | | | | | | | | |

DRILL LOG

| | |
|--|--|
| PROJECT <i>McDermid 2150</i> | GROUND ELEV. <i>115 m</i> |
| HOLE NO. <i>MBL 81-10A</i> | BEARING <i>090°</i> |
| LOCATION <i>6+79 W = 2+66 S</i> | DIP <i>65°</i> |
| | TOTAL LENGTH <i>53.6 m.</i> |
| LOGGED BY <i>Cal Everett</i> | HORIZONTAL PROJECT |
| DATE <i>11/4/81</i> | VERTICAL PROJECT |
| CONTRACTOR <i>D.V. DIAMOND DRILLING</i> | ALTERATION SCALE <p>absent slight moderate intense</p> |
| CORE SIZE <i>30 DRILL - 38</i> | |
| DATE STARTED <i>Sept 12</i> | TOTAL SULPHIDE SCALE <p>traces only < 1% 1% - 3% 3% - 10% > 10%</p> |
| DATE COMPLETED <i>Sept 13</i> | |
| DIP TESTS <i>53.6 m - 65°</i> | LEGEND V V ANDESITE V ANDESITE BRECCIATED |
| COMMENTS | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 20.0 | | | | 20.1-20.7 PILLSB IN ALKALI MUD | | | | | | | |
| 21.0 | | | | 230-2455 SHATTERED; INTENSE CRACKS SUB-BRECCIATED TEXTURE 24.3-24.65 Qtz py-ALT ANDERSON BRECCIA (PP) INTERLACED | | | | | | | |
| 28.0 | | | | 28.8-23.6 SHATTERED AS IN 230-2465 SECTION. 2.4m 3cm dia. CHALCITE - py vein @ 10cm AT 29.5 m. | | | | | | | |
| 31.0 | | | | 31.4-3.77 qv @ 6cm - 1.5m long 2cm 3loges. 1 py. 1.5m | | | | | | | |
| 32.0 | | | | 31.5 2cm qv @ 2cm | | | | | | | |
| 33.0 | | | | 32.6 qv - 1.5m with chalcite vein NORTHWARD | | | | | | | |
| 34.0 | | | | 32.95-33.05 BRECCIATED qv py ANDERSON - graphite vein | | | | | | | |
| 38.0 | | | | 38.0-39.6 INTENSE SHATTERED CROSS CUT BY FINE PYRITIC VEINS | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|----------------------------|----------------|---------|-------|-------|---------------|------------|------------|
| | | FROM | TO | WIDTH | | <i>1.2</i> | <i>1.0</i> |
| <i>19.5-21.0 1-2% py</i> | | 19.6 | 21.0 | 1.4 | 6618 | .008 | .02 |
| <i>21.0-23.0 2-1% py</i> | | 21.0 | 23.0 | 2.0 | 6619 | .003 | .01 |
| <i>23.0-24.65 3-6% py</i> | | 23.0 | 24.3 | 1.3 | 6620 | .019 | .01 |
| <i>24.6-25.6 2% py</i> | | 24.3 | 24.65 | 0.35 | 6621 | .009 | .01 |
| <i>25.6-30.5 1-1% py</i> | | 24.65 | 25.6 | 0.95 | 6622 | .011 | .02 |
| | | 27.6 | 28.3 | 0.7 | 6623 | .004 | .01 |
| | | 28.8 | 30.5 | 1.7 | 6624 | .009 | .01 |
| <i>30.5-31.6 1-2% py</i> | | 30.5 | 31.6 | 1.1 | 6625 | .015 | .01 |
| <i>31.6-33.2 1% py</i> | | 31.6 | 33.2 | 1.6 | 6626 | .174 | .1 |
| <i>33.2-35.8 1-1% py</i> | | 33.2 | 35.8 | 2.6 | 6627 | .002 | .02 |
| <i>35.8-37.2 1-1% py</i> | | 35.8 | 37.2 | 1.4 | 6628 | .002 | .02 |
| | | 37.2 | 38.0 | 0.8 | 6629 | .002 | .01 |
| | | 38.0 | 39.5 | 1.5 | 6630 | .002 | .01 |
| | | 39.5 | 40.0 | 0.5 | 6631 | .002 | .01 |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|--------------------------------------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 40.0 | | | | | | | | | | | |
| 42.3-44.5 | | <i>Qtz Alt Andesite - Py Breccia</i> | <i>DR</i> | <i>ANDERITE WITH (ANDERITE BRECCIA) AND Qtz (20%) frags composed of Pyrite matrix.</i> | | | | | | | |
| 44.5-45.0 | | <i>Altered Andesite</i> | | | | | | | | | |
| 45.0-53.6 | | <i>Andesite flow Carbonated.</i> | | <i>- from green mod crackle textures variable degree of carbonation.</i> | | | | | | | |
| 53.6 | | | | <i>END of Hole</i> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|----------------------------|----------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Ag | Ag |
| | | 40.0 | 41.4 | 1.4 | 6632 | .004 | .02 |
| | | 41.4 | 42.8 | 1.4 | 6633 | .008 | .01 |
| 42.8-43.6 30-40% py | | 42.8 | 43.6 | 0.8 | 6634 | .009 | .05 |
| 43.6-44.5 10-15% py | | 43.6 | 44.5 | 0.9 | 6635 | .01 | .05 |
| 44.5-45.0 3% py | | 44.5 | 45.0 | 0.5 | 6636 | .001 | .02 |
| 45.0-53.6 12.1% | | | | | | | |
| SEE END OF HOLE | | | | | | | |

DRILL LOG

| | |
|--|---|
| PROJECT <i>Mc Dome 2150</i> | GROUND ELEV. <i>2110 m</i> |
| HOLE NO. <i>MBC 91-11</i> | BEARING <i>C90</i> |
| LOCATION <i>5 MILE VEIN GTSW: 2465</i> | DIP <i>-75°</i> |
| | TOTAL LENGTH <i>540 m</i> |
| LOGGED BY <i>Cal Everett</i> | HORIZONTAL PROJECT <i>38.1 m</i> |
| DATE <i>Apr 21 / 1991</i> | VERTICAL PROJECT <i>43.2 m</i> |
| CONTRACTOR <i>D.V. Diamond Drilling - Drilling - 30</i> | ALTERATION SCALE <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense |
| CORE SIZE <i>30</i> | |
| DATE STARTED <i>Apr 21 / 1991</i> | |
| DATE COMPLETED <i>May 14 / 91</i> | TOTAL SULPHIDE SCALE <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10% |
| DIP TESTS <i>540 m -45.5°</i> | |
| COMMENTS | LEGEND <ul style="list-style-type: none"> ✓ VOLCANICS - ANDESITE ✗ ANDESITE - BRECCIATED ⋯ ALTERED ANDESITE Q.V. QUARTZ VEIN |

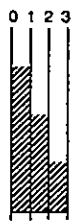
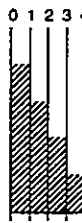

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ |
|-----------|------------|-----------|-----------|--|---------------|--------------|-------------|----------------|---|--------------------|------------|
| | | | | | CHLORITE A | EPIDOTE B | QUARTZ C | ANhydrite D | E | | |
| 0-4.5 | | | | OVERBURDEN. | | | | | | | |
| 4.5-9.3 | | | | ALTERED ANDESITE - BEG TO YELLOW BROWN MODERATE CRACKLE TEXTURE. OXIDIZED TO 23.6m. WITH LIMONITE STAINING ALONG FRACTURES. 58 59 90 @ 60%. | | | | | | | |
| 9.3-11.7 | | | | ANDESITE FINE-CARBONATIZED. - SANDY SANDY TEXTURED TR Pyrite. No crackle texture | | | | | | | |
| 11.7-13.0 | | | | ANDESITE FINE FINE GREEN DAPHNITE, CONTAINS 170 ANGULAR - CHLORITE (5mm) FROG ROCKS, UNIT HAS A SUB- PARALLEL CONTACT. - 13.0 FROG CONTACT @ 50%. | | | | | | | |
| 13.0-19.9 | | | | ANDESITE FINE - SIMILAR TO 9.3-11.7 SECTION. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|----------------------------|----------------|---------|------|-------|---------------|--------|-----|--|--|
| | | FROM | TO | WIDTH | | Ag | Cu | | |
| <i>19-21 12-15%</i> | | | | | | | | | |
| <i>21-21 12-15%</i> | | 21.9 | 23.5 | 1.6 | 6641 | .003 | .02 | | |
| | | 23.5 | 25.6 | 2.1 | 6642 | .006 | .02 | | |
| | | 25.6 | 28.0 | 2.4 | 6643 | .002 | .02 | | |
| | | 28.0 | 30.1 | 2.1 | 6644 | .003 | .01 | | |
| <i>30-34 10%</i> | | 30.1 | 30.4 | 0.3 | 6645 | .022 | .04 | | |
| <i>34-31 15%</i> | | 30.4 | 31.1 | 0.7 | 6646 | .002 | .01 | | |
| <i>31-33 15%</i> | | 31.1 | 32.3 | 1.2 | 6647 | .011 | .04 | | |
| <i>33-32 1-3%</i> | | 32.3 | 32.9 | 0.6 | 6648 | .013 | .01 | | |
| <i>32-34 2%</i> | | 32.9 | 34.2 | 1.3 | 6649 | .003 | .01 | | |
| <i>34-35 2%</i> | | 34.2 | 35.7 | 1.5 | 6650 | .007 | .01 | | |
| <i>35-36 10%</i> | | 35.7 | 36.9 | 1.2 | 6651 | .003 | .01 | | |
| <i>36-38 2-5%</i> | | 36.9 | 38.2 | 1.3 | 6652 | .006 | .01 | | |
| <i>38-39 1%</i> | | 38.2 | 39.5 | 1.3 | 6653 | .008 | .01 | | |
| <i>39-40 3%</i> | | 39.5 | 40.1 | 0.6 | 6654 | .007 | .01 | | |

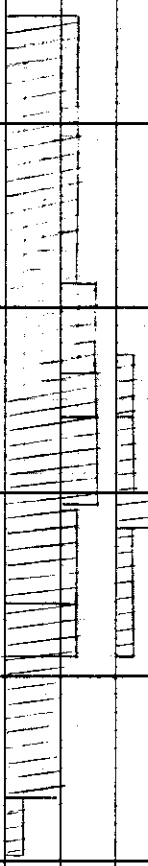
| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 40.0 | | | | SMILE VEIN 42.55-42.25 <i>Ch. of ...</i> | | | | | | | |
| 45.0 | | | | <i>Similar to 017-354 section to 44.5 m</i> | | | | | | | |
| 50.0 | | | | 48.5-54.0 ANDESITE flow - Various Alteration - include CARBONATE FLOODING ENTIRE SECTION - <i>300-400</i> BASIC FLOW OCCURS FROM 49.0-49.6; 50.1-50.6; 51.1-51.5; 52.3-52.9; AND 53.3-53.6 m To 27.5 m | | | | | | | |
| 54.0 | | | | 54.0 END OF HOLE | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--|----------------|---------|-------|-------|---------------|-----------|-----------|
| | | FROM | TO | WIDTH | | <i>Au</i> | <i>Ag</i> |
| | | 40.1 | 40.8 | 0.7 | 6655 | .012 | .02 |
| 40.1-40.8 5% <i>py</i> | | 40.8 | 41.8 | 1.0 | 6656 | .023 | .15 |
| 40.8-41.8 15-20% <i>py</i> | | 41.8 | 42.55 | 0.75 | 6657 | .018 | .17 |
| 41.8-42.55 30% <i>py</i> <i>ep. telra.</i> | | 42.55 | 43.25 | 0.7 | 6658 | .019 | .13 |
| 42.55-43.25 5-20% <i>py</i> | | 43.25 | 45.7 | 2.45 | 6659 | .013 | .02 |
| 43.25-45.7 1-2% <i>py</i> | | 45.7 | 48.2 | 2.5 | 6660 | .004 | .02 |
| 45.7-48.2 1% <i>py</i> | | | | | | | |
| 48.2-55.0 2-2% <i>py</i> | | | | | | | |
| 55.0 END OF HOLE | | | | | | | |

DRILL LOG

| | |
|--|--|
| PROJECT <i>M. ...</i> | GROUND ELEV. <i>...</i> |
| HOLE NO. <i>...</i> | BEARING <i>090°</i> |
| LOCATION <i>...</i> | DIP <i>-65°</i> |
| | TOTAL LENGTH <i>53.5 m.</i> |
| LOGGED BY <i>...</i> | HORIZONTAL PROJECT <i>37 + m.</i> |
| DATE <i>27 Sept. 1981</i> | VERTICAL PROJECT <i>81.2 m.</i> |
| CONTRACTOR <i>D.V. DIAMOND DRILLING</i> | ALTERATION SCALE  |
| CORE SIZE <i>BQ</i> <i>DRILL 38</i> | TOTAL SULPHIDE SCALE  |
| DATE STARTED <i>...</i> | |
| DATE COMPLETED <i>Sept 12 '81</i> | |
| DIP TESTS <i>...</i> | |
| COMMENTS | LEGEND <i>V</i> ANDESITE <i>*</i> ANDESITE - BRECCIATED  ALTERED ANDESITE <i>q.v.</i> QUARTZ VEIN |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. | |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|--|
| | | | | | A | B | C | D | E | | | |
| 0.0 | | | | 0-3.3 <i>overburden</i> | | | | | | | | |
| 5.0 | | | | 3.6-12.0 <i>Altered Andesite</i> <i>tan to brown, intense -</i> <i>crackled texture, lower</i> <i>alteration contact @ 300cm.</i> | | | | | | | | |
| | | | | <i>oxidized to 11.7 m</i> <i>-7.6-8.1 of 2-4 mm py stringers @</i> <i>300cm</i> | | | | | | | | |
| 12.0 | | | | <i>-9.0-9.3 Qtz vein, limonite</i> <i>stained by py contacts @</i> <i>350cm</i> | | | | | | | | |
| | | | | 12.0-16.0 <i>Andesite Flow</i> <i>light grey to tan, massive, fine</i> <i>to medium grained, "No" crackle</i> <i>texture, lower, py contact</i> <i>@ 900cm</i> | | | | | | | | |
| 15.0 | | | | 16.0-16.9 <i>Andesite - Sph. granitic</i> <i>pearl green, medium gr., fine</i> <i>rotation of grains, dark to</i> <i>green, quartzite film, lower</i> <i>contact @ 150cm</i> | | | | | | | | |
| | | | | 16.9-17.6 <i>Andesite Flow</i> <i>- similar to 16.0-16.9</i> | | | | | | | | |
| | | | | 17.6-19.5 <i>Andesite - Sph. granitic</i> <i>similar to 16.9 section</i> | | | | | | | | |



| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--|----------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Au | Ag |
| <i>3.5 - 3.6 10% py</i> | | 3.6 | 5.5 | 1.9 | 6661 | .03 | .04 |
| <i>5.0 - 7.2 TR-19% py</i> | | 5.5 | 7.2 | 1.7 | 6662 | .002 | .01 |
| <i>7.2 - 8.4 4% py</i> | | 7.2 | 8.4 | 1.2 | 6663 | .007 | .02 |
| <i>8.4 - 9.0 2-3% py</i> | | 8.4 | 9.0 | 0.6 | 6664 | .017 | .02 |
| <i>9.0 - 9.3 4% py</i> | | 9.0 | 9.3 | 0.3 | 6665 | .016 | .01 |
| <i>9.3 - 10.2 4% py (CHECKED RE: (COURSE 2'-6" MIN))</i> | | 9.3 | 10.2 | 0.9 | 6666 | 0.32 | .02 |
| <i>10.2 - 12.0 TR-1% py</i> | | 10.2 | 12.0 | 1.8 | 6667 | .006 | .02 |
| <i>12.0 - 21.5 TR py</i> | | | | | | | |


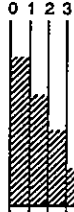

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 20.0 | | | | 19.5-24.3 ANDESITE flow - as in 12.0-16.0 section | | | | | | | |
| 25.0 | | | | 24.3-27.5 ANDESITE flow - CARBONATIZED - BROWN-GREEN COLOUR - INDEX WEAK SILICIFICATION. TRPY 26.5-27.2 WEAK SHEARING. | | | | | | | |
| 30.0 | | | | 27.5-31.7 ALTERED ANDESITE BEIGE TO LIGHT BROWN; MOD TO INTENSE CRACKLE TEXTURE. CRACKING OF VOLCANICS TO HERE APPEARS TO BE RELATED TO HYDRO THERMAL INTRUSION. | | | | | | | |
| 35.0 | | | | 31.7-35.3 ANDESITE FLOW - CARBONATIZED Olive GREEN MASSIVE. Part. SIMM Faint stringers of INTENSE CARBONATE FLOODING; TRPY | | | | | | | |
| 40.0 | | | | 35.7-38.0 ALTERED ANDESITE - COLORED (BROWN TO GRAY) BROWN, VARIABLE PURITY CONTENT. R. QTY STRINGERS TO - 37.2 phos. spon. | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--|----------------|-------------|-------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | <i>Au</i> | <i>Ag</i> |
| <i>27.4-29.4 5-10% DISSEMINATED TR. 1/2 STRIPES @ 1:2-4:00</i> | | <i>27.5</i> | <i>29.4</i> | <i>1.9</i> | <i>6665</i> | <i>.012</i> | <i>.01</i> |
| <i>29.4-31.7 1/2-1% DISSEMINATED</i> | | <i>29.4</i> | <i>31.7</i> | <i>2.3</i> | <i>6669</i> | <i>.006</i> | <i>.03</i> |
| <i>31.7-35.7 1/2-1% DISSEMINATED</i> | | | | | | | |
| <i>35.7-36.2 2-4% 1/2% DISSEMINATED STRUCTURES</i> | | <i>35.7</i> | <i>36.2</i> | <i>.5</i> | <i>6670</i> | <i>.001</i> | <i>.01</i> |
| <i>36.2-38.2 1/2-1% DISSEMINATED</i> | | <i>36.2</i> | <i>38.2</i> | <i>2.0</i> | <i>6671</i> | <i>.001</i> | <i>.01</i> |
| <i>38.2-39.6 1-2% DISSEMINATED</i> | | <i>38.2</i> | <i>39.6</i> | <i>1.4</i> | <i>6672</i> | <i>.012</i> | <i>.02</i> |
| <i>39.6-40.8 2-5% COARSE DISSEMINATED STRUCTURES</i> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--|----------------|---------|-------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Au | Ag |
| | | 39.6 | 40.8 | 1.2 | 6673 | .022 | .01 |
| 40.8 - 41.3 2 1/2 ft | | 40.8 | 41.3 | 0.5 | 6674 | .007 | .02 |
| | | 41.3 | 42.1 | 0.8 | 6675 | .009 | .01 |
| 41.3 - 42.1 1 9/16 ft | | 42.1 | 43.6 | 1.5 | 6676 | .045 | .03 |
| 42.1 - 43.6 5 8/16 CSC. DISS. PY | | | | | | | |
| 15.6 ft from 43.6 - 46.9 in - SECCIA ZONE | | 43.6 | 46.9 | 3.3 | 6677 | .009 | .02 |
| 46.9 - 48.2 1 1/2 ft | | 46.9 | 48.2 | 1.3 | 6678 | .002 | .01 |
| 48.2 - 50.9 2 5/16 ft | | 48.2 | 50.9 | 2.7 | 6679 | .007 | .01 |
| 50.9 - 52.2 1 1/4 ft - SECCIA ZONE 5 - 1/2 ft | | 50.9 | 52.2 | 1.3 | 6680 | .015 | .01 |
| 52.2 - 55.0 2 - 3/8 ft | | 52.2 | 55.0 | 2.8 | 6681 | .006 | .01 |
| 55.0 - 56.0 1 0 ft | | 55.0 | 56.0 | 1.0 | 6682 | .006 | .01 |
| 56.0 - 56.7 0.7 ft | | 56.0 | 56.7 | 0.7 | 6683 | .002 | .01 |
| 56.7 - 57.4 10 9/16 ft, 70 7/16 ft from 56.7 - 57.0 | | 56.7 | 57.4 | 0.7 | 6684 | .011 | .03 |
| 57.4 - 58.2 10 0/16 ft | | 57.4 | 58.2 | 0.8 | 6685 | .018 | .02 |
| 58.2 - 58.45 5 1/16 ft 11 9/16 ft | | 58.2 | 58.45 | 0.25 | 6686 | .075 | .02 |
| 58.45 - 61.6 2 - 5/16 ft | | 58.45 | 61.6 | 3.15 | 6687 | .014 | .02 |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|---|----------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Au | Ag |
| <i>61.6-63.6 1-2% Cu IN QZ.</i> | | 61.6 | 63.6 | 2.0 | 6682 | .005 | .01 |
| <i>63.6-65.4 5% Cu</i> | | 63.6 | 65.4 | .8 | 6687 | .016 | .02 |
| <i>65.4-65.9 1% Cu IN QZ (SEE N.)</i> | | 65.4 | 65.9 | 0.5 | 6688 | .079 | .02 |
| <i>65.9-67.4 5-10% Cu</i> | | 65.9 | 67.4 | 1.5 | 6691 | .021 | .10 |
| <i>67.4-68.0 1% Cu IN QZ (SEE N.)</i> | | 67.4 | 68.0 | 0.6 | 6692 | .010 | .20 |
| <i>68.0-68.5 10% Cu</i> | | 68.0 | 68.5 | 0.5 | 6693 | .022 | .21 |
| <i>68.5-69.7 15% COARSE PYRITIC DRUSE</i> | | 68.5 | 69.7 | 1.2 | 6694 | .026 | .03 |
| <i>69.7-71.1 1% Cu IN QZ (SEE N.)</i> | | 69.7 | 71.1 | 1.4 | 6695 | .002 | .01 |
| <i>71.1-72.2 1% Cu IN QZ (SEE N.)</i> | | 71.1 | 72.2 | 1.1 | 6696 | .002 | .01 |
| <i>72.2-73.1 3% Cu</i> | | 72.2 | 73.1 | 0.9 | 6697 | .017 | .01 |
| | | 73.1 | | 1.6 | 6698 | .008 | .01 |
| <i>73.1-74.7 1% Cu</i> | | 73.1 | 74.7 | 1.6 | 6699 | .003 | .01 |
| | | 74.7 | | 1.3 | 6700 | .001 | .01 |
| | | 76.2 | 78.3 | 2.1 | 6701 | .001 | .01 |
| | | 78.3 | 81.4 | 3.1 | 6702 | .001 | .01 |

DRILL LOG

| | |
|--|---|
| PROJECT <i>M. Division 2180</i> | GROUND ELEV. <i>1945 m</i> |
| HOLE NO. <i>MCC 81-12</i> | BEARING <i>360°</i> |
| LOCATION <i>0+92E : 0+60N Preliminary Drilling</i> <i>01</i> | DIP <i>-45°</i> |
| LOGGED BY <i>Carl Everett</i> | TOTAL LENGTH <i>55.3 m</i> |
| DATE <i>Sept 18, 1981</i> | HORIZONTAL PROJECT <i>0.5 m</i> |
| CONTRACTOR <i>D.V. Division? Drilling</i> | VERTICAL PROJECT <i>54.8 m</i> |
| CORE SIZE <i>29</i> | ALTERATION SCALE |
| DATE STARTED <i>Sept 18/81</i> |  <p>absent slight moderate intense</p> |
| DATE COMPLETED <i>Sept 23</i> | TOTAL SULPHIDE SCALE |
| DIP TESTS <i>73.8 m -42°</i> |  <p>traces only < 1% 1% - 3% 3% - 10% > 10%</p> |
| COMMENTS | LEGEND |
| |  <p>ANDESITE ANDESITE - BRECCIATED PILLOWED ANDESITE ALTERED ANDESITE Q.V. QUARTZ VEIN</p> |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 10.0 | | | | 20.2 3 cm qtz, calc chlor v @ 80°C. NO CARBONATE ALTERATION ASSOCIATED. | | | | | | | |
| 20.0 | | | | 22.1 15 gts carb. calc chlor v 45°C. with intensely chloritic sulfides. | | | | | | | |
| 30.0 | | | | 31.2-32.1 Flow Breccia 23-40% Aquatic and flow clasts in sandy cemented flow matrix. No evidence of bedding. Distal sandstone top. | | | | | | | |
| 35.0 | | | | 33.1-44.1 Altered Andesite with coarse texture. Color varies from white to brownish - grey block, similar to the 4.0-5.0 section located in MBC 81-4 33.1-33.2 gts calcite @ 50°C | | | | | | | |
| 40.0 | | | | 37.1-37.4 gts-pH breccia @ 80°C in calcite matrix. possible 37.4-40.2 gts calcite to pH matrix. Distal sandstone | | | | | | | |

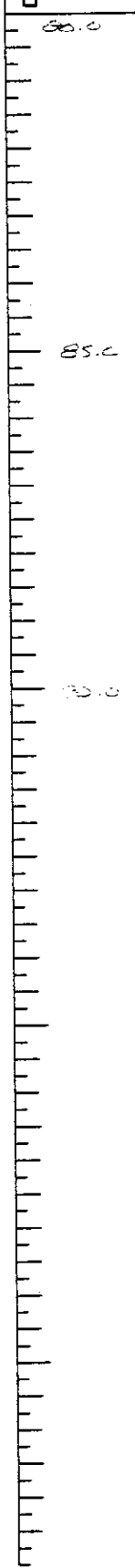
| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|----------------------------|----------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Au | Ag |
| <i>321 - 31.2 To Au</i> | | | | | | | |
| | | 321 | 345 | 0.7 | 6557 | .001 | .07 |
| <i>331 - 360 To Au</i> | | | | | | | |
| | | 345 | 360 | 15 | 6558 | .001 | .03 |
| <i>34 - 372 10% Au</i> | | | | | | | |
| <i>372 - 35.2 1% Au</i> | | 340 | 372 | 12 | 6559 | .008 | .08 |
| | | | | | | | |
| | | | 38.2 | 1.0 | 6560 | .021 | .04 |
| <i>35.1 - 39.1 3% Au</i> | | | | | | | |
| | | 38.2 | 39.1 | 0.9 | 6561 | .002 | .05 |
| <i>37.4 - 39.9 5% Au</i> | | | | | | | |
| | | 39.1 | 39.4 | 0.3 | 6562 | .023 | .09 |
| <i>39.9 - 46.2 1% Au</i> | | | | | | | |
| | | 39.4 | 39.9 | 0.5 | 6563 | .071 | .16 |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-------------------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 40.0 | | | qv. qv. qv. | 40.6-40.7 qtz @ 65°C. 40.7-41.2 qtz from 40.9-41.05 @ 65°C minor qtz stringers @ 50-55°C 3-5% py | | | | | | | |
| | | | qv. qv. | 41.1-41.6 qtz 41.6-41.2 qtz stringers zones 44.1-45.3 Andesite flow-carbonated - similar to 44.4-45.3 section of andesite 45.3-51.1 Altered Andesite - similar to 44.4-45.3 section | | | | | | | |
| 45.0 | | | qv. qv. | 45.1-47.5 qtz 47.5-47.93 qtz - quartzite texture 70°C 47.9-48.17 qtz py minor pyrite @ 45°C. | | | | | | | |
| 50.0 | | | | 50.0-51.1 Tuffonic Breccia - shattering and cementing of altered volcanic by pyrite & graphite. Fe banding @ 100°C 51.1-55.3 Andesite flow-carbonated. - similar to 44.4-45.3 section. | | | | | | | |
| 55.0 | | | | 55.3-59.0 Andesite flow apartite fine grained and coarse texture to py - similar to 44.4-45.3 section | | | | | | | |
| 60.0 | | | | 59.0-60.0 Altered Andesite to qtz stringers @ 45°C to 50% py | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|-----------------------------------|------------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | AL | Ag |
| 402-41.7 AuKAgS 3% py | [Vertical Scale] | 37.1 | 40.2 | 0.3 | 6564 | .009 | .07 |
| | | 40.2 | 40.6 | 0.4 | 6565 | .011 | .10 |
| | | 40.6 | 40.7 | 0.1 | 6566 | .002 | .03 |
| | | 40.7 | 41.2 | 0.5 | 6567 | .012 | .03 |
| 412-42.0 5% AgS py | [Vertical Scale] | 41.2 | 42.0 | 0.8 | 6568 | .003 | .04 |
| 42.0-42.6 5% AgS py 18 71-114 py | [Vertical Scale] | 42.0 | 42.6 | 0.6 | 6569 | .004 | .00 |
| 42.6-44.1 3-5% py | [Vertical Scale] | 42.6 | 44.1 | 1.5 | 6570 | .017 | .03 |
| 44.1-45.8 2-1% py | [Vertical Scale] | 44.1 | 45.8 | 1.7 | 6571 | .001 | .07 |
| 45.8-46.6 1% py | [Vertical Scale] | 45.8 | 46.6 | 0.8 | 6572 | .001 | .02 |
| 46.6-47.4 3-5% py 12 97-100-105 | [Vertical Scale] | 46.6 | 47.4 | 0.8 | 6573 | .006 | .06 |
| 47.4-48.3 10% py | [Vertical Scale] | 47.4 | 48.3 | 0.9 | 6574 | .031 | .13 |
| 48.3-49.5 2-8% py (unmineralized) | [Vertical Scale] | 48.3 | 49.5 | 1.2 | 6575 | .036 | .09 |
| 49.5-51.1 7-10% py | [Vertical Scale] | 49.5 | 51.1 | 1.6 | 6576 | .032 | .05 |
| 51.1-55.3 1% py | [Vertical Scale] | | | | | | |
| 55.3-57.0 1% py | [Vertical Scale] | | | | | | |
| 57.0-60.9 1-2% py | [Vertical Scale] | 57.0 | 60.9 | 1.9 | 6577 | .001 | .07 |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--|----------------|---------|------|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | 1.0 | Ag |
| 61.2-62.0 10% flg py | | 61.2 | 62.0 | 2.8 | 6578 | .001 | .03 |
| 62.0-63.7 5-10% py | | 62.0 | 63.7 | 1.7 | 6579 | .001 | .04 |
| 63.7-69.5 1% py | | | | | | | |
| 68.5-70.0 1-2% py | | 68.5 | 70.0 | 1.5 | 6580 | .005 | .03 |
| 70.0-70.6 2-5% py | | 70.0 | 70.6 | 0.6 | 6581 | .004 | .03 |
| 70.6-71.2 4-2% 5% 10% 2. zone @ 4:22 2:50 py | | 70.6 | 71.2 | 0.6 | 6582 | .023 | .09 |
| 71.2-71.6 2% py | | 71.2 | 71.6 | 0.4 | 6583 | .008 | .01 |
| 71.6-75.5 1% py | | | | | | | |
| 75.5-77.0 1-5% py | | 75.5 | 77.0 | 1.5 | 6584 | .002 | .03 |
| 77.0-78.5 1-2% py | | 77.0 | 78.5 | 1.5 | 6585 | .004 | .02 |
| 78.5-85.3 1% py | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 85.0 | | | | | | | | | | | |
| | | | | 85.7-89.6 SUB-EROSIONED - MOD. ALTERATION | | | | | | | |
| 85.2 | | | | 85.3m END OF HOLE | | | | | | | |
| | | | | | | | | | | | |
| 85.6 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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DRILL LOG

| | |
|--|--|
| PROJECT <i>Mt. Doris 215.</i> | GROUND ELEV. <i>1003 m (953 457 560 - 1000)</i> |
| HOLE NO. <i>MBC 81-13</i> | BEARING <i>340°</i> |
| LOCATION <i>45° hole drilled from corner of 81-4</i> <i>LOCATION: O+72E:O+59N</i> <i>N(6527009.220)</i> <i>E(462168:290)</i> | DIP <i>-45°</i> |
| LOGGED BY <i>Carl Dick</i> | TOTAL LENGTH <i>117 m</i> |
| DATE <i>OCT 5, 1981</i> | HORIZONTAL PROJECT <i>437 m</i> |
| CONTRACTOR <i>DV Diamond Drilling 357</i> | VERTICAL PROJECT <i>10.2 m</i> |
| CORE SIZE <i>89</i> | ALTERATION SCALE 0 1 2 3 absent slight moderate intense |
| DATE STARTED <i>Sept 18, 1981</i> | TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10% |
| DATE COMPLETED <i>Sept 20, 1981</i> | |
| DIP TESTS <i>5.10 72-57E</i> <i>54 m</i> <i>4°</i> <i>11.9 m</i> <i>...</i> | |
| COMMENTS | LEGEND |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|--------------------------------|----------------|------------|------------|------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | Au | Ag |
| <i>3.0 - 4.9 3-3% Diss. Py</i> | | <i>3.0</i> | <i>4.9</i> | <i>1.9</i> | <i>6703</i> | <i>.017</i> | <i>.02</i> |
| <i>4.1 - 12 12.29</i> | | | | | | | |
| <i>11.2 - 11.3 15% Py</i> | | | | | | | |
| <i>11.3 - 15.2 14.17</i> | | | | | | | |
| <i>12.4 - 12.6 17% Py</i> | | | | | | | |
| <i>15.2 - 18.4 14.04</i> | | | | | | | |
| <i>15.4 - 15.6 19% Py</i> | | | | | | | |
| <i>18.5 - 19 23%</i> | | | | | | | |
| <i>19.1 - 19.4 23.5%</i> | | | | | | | |
| <i>19.4 - 22.4 18.1%</i> | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 60.0 | | | | 62.0-63.1 SHEAR ZONE (facing) | | | | | | | |
| 65.0 | | | | 64.2-66.2 ANDESITE FLOW - UNDEVELOPED. SIMILAR TO 91.9-94.8 SECTION | | | | | | | |
| | | | | 66.7-70.4 ANDESITE FLOW 66.7-70.4 YELLOW-GREEN, INT. C.T. FOLIATED, SERRATED, NO. 100, 200, 300 INTENSIVE Fe-100ppm 70.4-71.0 GRAY-BROWN, INT. C.T., 5-8% coarse diss. py - 10.6 70.7-71.0 WHITE VEIN @ 65° 71.0-72.7 Qtz in STRINGS @ 60° AT 72.14, 72.3, AND 72.45. | | | | | | | |
| | | | qv. | | | | | | | | |
| | | | | 75.45-75.5 (BRECCIATING py 20%) qtz (30%) VEIN @ 45° 75.2-75.5 CROSSCUT BY GRW MINOR STRUCTURES, SEE 75.2 | | | | | | | |
| | | | qv. | | | | | | | | |
| | | | | 77.4-79.4 AND. FLOW pale green - yellow green, INT. C.T. FOLIATED, SERRATED, NO. 100, 200, 300 SERRATED, NO. 100, 200, 300 | | | | | | | |
| | | | | 78.4-79.5 AND. FLOW pale green, INT. C.T., STRAIGHT @ | | | | | | | |
| | | | | 78.65 AND 79.06 AND 79.4 40° | | | | | | | |
| | | | | 79.5-79.9 AND. FLOW SANDY texture to py. lower content FOLIATED, SERRATED, NO. 100, 200, 300 | | | | | | | |



| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|-------------------------------------|----------------|---------|------|-------|---------------|-----------|-----------|
| | | FROM | TO | WIDTH | | <i>Au</i> | <i>Ag</i> |
| <i>60.4-61.5 20% cu</i> | | 60.4 | 61.5 | 1.1 | 6715 | .025 | .02 |
| <i>61.5-63.1 10% DISSE cu</i> | | 61.5 | 63.1 | 1.6 | 6716 | .025 | .01 |
| <i>63.1-64.5 10.5% cu</i> | | 63.1 | 64.5 | 1.4 | 6717 | .030 | .01 |
| <i>64.5-66.2 3% cu</i> | | | | | | | |
| | | 66.2 | 68.2 | 2.0 | 6718 | .002 | .01 |
| <i>68.2-70.4 12-19% cu</i> | | 68.2 | 70.4 | 2.2 | 6719 | .002 | .01 |
| <i>70.4-71.0 1.5% Cu - DISSE cu</i> | | 70.4 | 71.0 | 0.6 | 6720 | .019 | .02 |
| <i>71.0-72.7 1-5% cu</i> | | 71.0 | 72.7 | 1.7 | 6721 | .026 | .02 |
| <i>72.7-73.8 1-3% cu</i> | | 72.7 | 73.8 | 1.1 | 6722 | .002 | .01 |
| <i>73.8-75.2 10-11% cu</i> | | 73.8 | 75.2 | 1.4 | 6723 | .002 | .01 |
| <i>75.2-76.2 5% cu</i> | | 75.2 | 76.2 | 1.0 | 6724 | .011 | .03 |
| | | 76.2 | 77.0 | 0.8 | 6725 | .003 | .01 |
| <i>77.4-78.4 12% cu</i> | | | | | | | |
| <i>78.4-79.5 5% Fe/2 DISSE cu</i> | | 78.4 | 79.5 | 1.1 | 6726 | .02 | .04 |
| <i>79.5-82.5 4% cu</i> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|----------------------------|----------------|-------------|-------------|------------|---------------|-------------|------------|--|--|
| | | FROM | TO | WIDTH | | Au | Ag | | |
| <i>82.8-83.5 5% Py</i> | | <i>82.8</i> | <i>83.5</i> | <i>0.7</i> | <i>6711</i> | <i>.001</i> | <i>.01</i> | | |
| <i>83.5-86.7 12% Py</i> | | | | | | | | | |
| <i>85.7-88.7 3-7 Py</i> | | <i>85.7</i> | <i>88.7</i> | <i>3.0</i> | <i>6712</i> | <i>.001</i> | <i>.01</i> | | |
| <i>88.7-96.8 1-12% Py</i> | | | | | | | | | |
| <i>96.8-99.2 8-10% Py</i> | | <i>96.8</i> | <i>99.2</i> | <i>1.3</i> | <i>6713</i> | <i>.001</i> | <i>.01</i> | | |
| <i>99.2-98.1 60% Py</i> | | <i>98.1</i> | <i>99.2</i> | <i>1.1</i> | <i>6714</i> | <i>.001</i> | <i>.01</i> | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 100.0 | | | | <p>99.2-111.9 ANDESITE FLOW</p> <p>massive nonstratified to dyke</p> <p>TEXTURED BASIC FLOW. pale green; crackling. JARVIS FROM CURVE IN STRIKE. To dyke along fractures.</p> | | | | | | | |
| 105.0 | | | | <p>104.1 and 107.35 - 111.9</p> <p>@ 30°C. WERE BULKY</p> <p>APPEARING FROM 107.35 - 111.9</p> | | | | | | | |
| 110.0 | | | | <p>110.75-111.9 A-AND. CONTAINS A</p> <p>SMALL Qtz. FIBROSE. 10°C</p> <p>CARBONATE. 5 SPOTS Qtz</p> <p>VISIBLE</p> | | | | | | | |
| 115.0 | | | | <p>111.9 AND X-FLW.</p> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | |
|----------------------------|----------------|---------|----|-------|---------------|--------|----|--|
| | | FROM | TO | WIDTH | | | | |
| 192-111.9 | | | | | | | | |
| 118 20:25 21:45 @ 98' | | | | | | | | |
| CONTAINS 5 FUSIONS V.G. | | | | | | | | |
| 119 5:20 5:40 H.C. | | | | | | | | |
| | | | | | | 232 | 07 | |

DRILL LOG

| | |
|--|---|
| PROJECT <i>MCDONNELL 2150</i> | GROUND ELEV. <i>2532 m</i> |
| HOLE NO. <i>ABC 81-14</i> | BEARING <i>360°</i> |
| LOCATION <i>PERLITE VEIN ST 2.3 31491</i> | DIP <i>-75°</i> |
| | TOTAL LENGTH <i>872 m</i> |
| LOGGED BY <i>Carl ESKOTT</i> | HORIZONTAL PROJECT <i>5 m</i> |
| DATE <i>OCT 7, 1981</i> | VERTICAL PROJECT <i>2 m</i> |
| CONTRACTOR <i>D-V DIAMOND DRILLING</i> | ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense |
| CORE SIZE <i>2C</i> <i>DIAM. - 38</i> | |
| DATE STARTED <i>SEPT 23, 1981</i> | |
| DATE COMPLETED <i>SEPT 25, 1981</i> | TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10% |
| DIP TESTS <i>NE 16.5° 78.3 m. 42°</i> | |
| COMMENTS | LEGEND <ul style="list-style-type: none"> <i>V</i> VOLCANICS - ANDESITE <i>X</i> ANDESITE - BRECCIATED <i>⋯</i> ALTERED ANDESITE <i>q.v.</i> quartz vein |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|-----------|------------|-----------|-----------|---|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 20.0 | | | | 20.0-21.0 AND. 10% flow - 20.0-21.0 AND. 10% flow - 20.0-21.0 AND. 10% flow | | | | | | | |
| 21.0 | | | | 21.0-22.1 AND. 10% flow - 21.0-22.1 AND. 10% flow - 21.0-22.1 AND. 10% flow | | | | | | | |
| 22.0 | | | | 22.0-23.1 AND. 10% flow - 22.0-23.1 AND. 10% flow - 22.0-23.1 AND. 10% flow | | | | | | | |
| 23.0 | | | | 23.0-24.4 AND. 10% flow - 23.0-24.4 AND. 10% flow - 23.0-24.4 AND. 10% flow | | | | | | | |
| 24.0 | | | | 24.0-25.0 AND. 10% flow - 24.0-25.0 AND. 10% flow - 24.0-25.0 AND. 10% flow | | | | | | | |
| 25.0 | | | | 25.0-26.9 AND. 10% flow - 25.0-26.9 AND. 10% flow - 25.0-26.9 AND. 10% flow | | | | | | | |
| 26.0 | | | | 26.0-27.4 AND. 10% flow - 26.0-27.4 AND. 10% flow - 26.0-27.4 AND. 10% flow | | | | | | | |
| 27.0 | | | | 27.0-28.5 AND. 10% flow - 27.0-28.5 AND. 10% flow - 27.0-28.5 AND. 10% flow | | | | | | | |
| 28.0 | | | | 28.0-29.5 AND. 10% flow - 28.0-29.5 AND. 10% flow - 28.0-29.5 AND. 10% flow | | | | | | | |
| 29.0 | | | | 29.0-30.5 AND. 10% flow - 29.0-30.5 AND. 10% flow - 29.0-30.5 AND. 10% flow | | | | | | | |
| 30.0 | | | | 30.0-31.5 AND. 10% flow - 30.0-31.5 AND. 10% flow - 30.0-31.5 AND. 10% flow | | | | | | | |
| 31.0 | | | | 31.0-32.5 AND. 10% flow - 31.0-32.5 AND. 10% flow - 31.0-32.5 AND. 10% flow | | | | | | | |
| 32.0 | | | | 32.0-33.5 AND. 10% flow - 32.0-33.5 AND. 10% flow - 32.0-33.5 AND. 10% flow | | | | | | | |
| 33.0 | | | | 33.0-34.5 AND. 10% flow - 33.0-34.5 AND. 10% flow - 33.0-34.5 AND. 10% flow | | | | | | | |
| 34.0 | | | | 34.0-35.5 AND. 10% flow - 34.0-35.5 AND. 10% flow - 34.0-35.5 AND. 10% flow | | | | | | | |
| 35.0 | | | | 35.0-36.5 AND. 10% flow - 35.0-36.5 AND. 10% flow - 35.0-36.5 AND. 10% flow | | | | | | | |
| 36.0 | | | | 36.0-37.5 AND. 10% flow - 36.0-37.5 AND. 10% flow - 36.0-37.5 AND. 10% flow | | | | | | | |
| 37.0 | | | | 37.0-38.5 AND. 10% flow - 37.0-38.5 AND. 10% flow - 37.0-38.5 AND. 10% flow | | | | | | | |
| 38.0 | | | | 38.0-39.5 AND. 10% flow - 38.0-39.5 AND. 10% flow - 38.0-39.5 AND. 10% flow | | | | | | | |
| 39.0 | | | | 39.0-40.5 AND. 10% flow - 39.0-40.5 AND. 10% flow - 39.0-40.5 AND. 10% flow | | | | | | | |
| 40.0 | | | | 40.0-41.5 AND. 10% flow - 40.0-41.5 AND. 10% flow - 40.0-41.5 AND. 10% flow | | | | | | | |

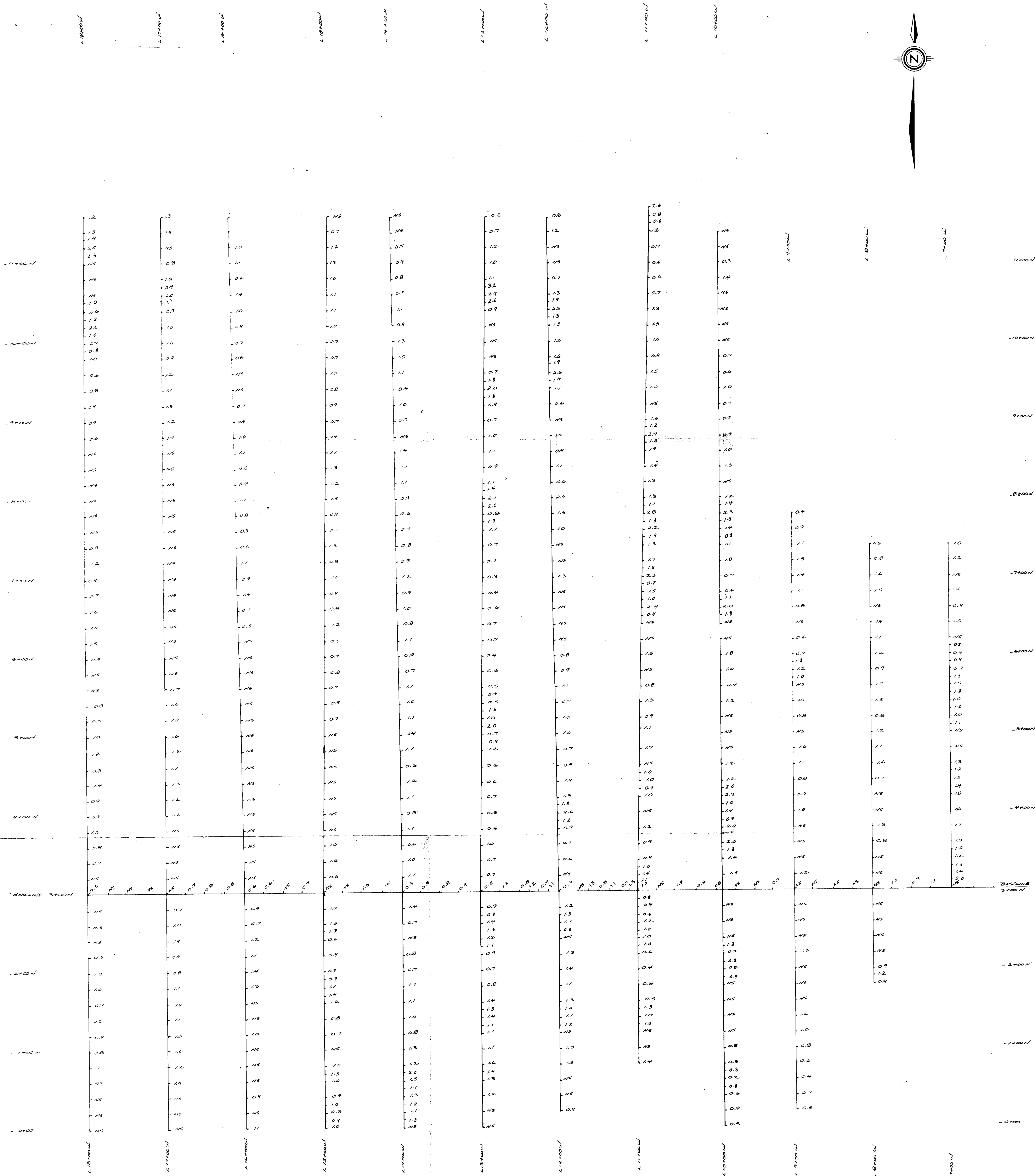
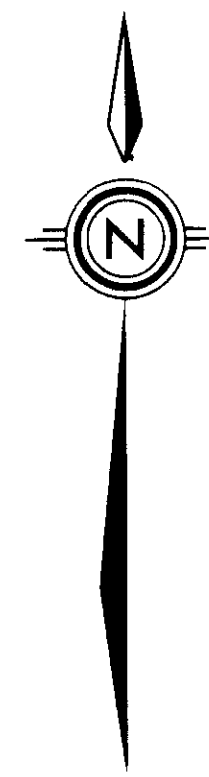
| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|---------------------------------|----------------|---------|-----|-------|---------------|--------|-----|
| | | FROM | TO | WIDTH | | Au | Ag |
| 252.5 - 256.4 Tc p ₂ | | | | | | | |
| 244 - 26.3 to p ₂ | | | | | | | |
| 263 - 267 15/10 p ₂ | | 263 | 269 | 06 | 5773 | .007 | .02 |
| 267 - 274 10/10 p ₂ | | 269 | 274 | 05 | 5774 | .02 | .07 |
| 274 - 310 39/0 p ₂ | | | | | | | |
| | | 274 | 289 | 15 | 5775 | .007 | .02 |
| | | 289 | 310 | 21 | 6743 | .002 | .01 |
| 289 - 310 to p ₂ | | | | | | | |
| | | 303 | 325 | 12 | 6739 | .001 | .01 |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|------------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 40.0 | | | | | | | | | | | |
| 42.3-42.7 | | | | 42.3-42.7 Qtz veins with $CaSO_4$ in veins - mod siliceous - no $CaSO_4$ or Fe associated | | | | | | | |
| 43.7-44.7 | | | | 43.7-44.7 ANDESITE - similar to 53-55 unit - upper contact @ 45.00 | | | | | | | |
| 46.0-50.3 | | | | 46.0-50.3 ANDESITE Tuff - carbonated - to 48.00 | | | | | | | |
| 50.3-54.97 | | | | 50.3-54.97 ALTERED ANDESITE - frequent siliceous and iron staining - 50.3-53.0 (1.7 brown, w.c.t.) T2-1%Qtz | | | | | | | |
| 54.97-56.3 | | | | 54.97-56.3 ANDESITE - siliceous - 54.97-56.3 (1.7 brown, w.c.t.) T2-1%Qtz - 54.97-56.3 (1.7 brown, w.c.t.) T2-1%Qtz - 54.97-56.3 (1.7 brown, w.c.t.) T2-1%Qtz | | | | | | | |
| 56.3-58.9 | | | | 56.3-58.9 ANDESITE - siliceous - 56.3-58.9 (1.7 brown, w.c.t.) T2-1%Qtz | | | | | | | |
| 58.9-60.0 | | | | 58.9-60.0 ANDESITE - siliceous - 58.9-60.0 (1.7 brown, w.c.t.) T2-1%Qtz | | | | | | | |

| DEPTH (m) | % CORE REC | LITHOLOGY | STRUCTURE | GEOLOGICAL DESCRIPTION | ALTERATION | | | | | FRACTURE INTENSITY | % VEIN QTZ. |
|------------|------------|-----------|-----------|--|------------|---|---|---|---|--------------------|-------------|
| | | | | | A | B | C | D | E | | |
| 60.0 | | | | 60.1-60.8 ANX-SITE FLOW - CARBONATED. 60.8-62.95 ALKALINE ANDESITE. - BEIGE SILICIFIED - HAS INT. ALTERATION WITH VEINING. INT. ALTERATION; COMPLETE REDUCTION OF ORIGINAL ROCK TEXTURES. 1% QZ. | | | | | | | |
| 62.95-66.2 | | | | 62.95-66.2 ANDESITE Tuff | | | | | | | |
| 66.2-67.2 | | | | 66.2-67.2 ALTERED ANDESITE. - SIMILAR TO 60.8-62.95 SECTION. - ALTERED CONTACTS ARE SHARP | | | | | | | |
| 67.2-71.0 | | | | 67.2-71.0 ANDESITE Tuff - MODERATE - CRACKLE TX. Tuff | | | | | | | |
| 71.0-73.5 | | | | 71.0-73.5 ANDESITE FLOW. - SHARP TEXTURE OF ORIGINAL CONTACT FROM BASIC TUFF LIP- - 73.5 50m of core via 100m - 2 METRES OF LEACHING AS ALT. ENVELOPES. | | | | | | | |
| 73.5-74.4 | | | | 73.5-74.4 ALKALINE ANDESITE - SOME SLIGHTLY CRACKED - 75.4-76.0 qtz + 1% QZ. Tuff | | | | | | | |
| 74.4-82.0 | | | | 74.4-82.0 ANDESITE FLOW - MODERATE CRACKLE TX. | | | | | | | |
| 76.2-78.0 | | | | 76.2-78.0 ANDESITE FLOW - MODERATE CRACKLE TX. | | | | | | | |

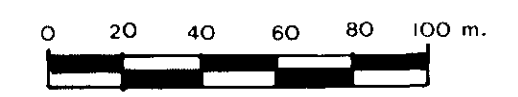
| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | |
|-------------------------------|----------------|------------|--------------|-------------|---------------|-------------|------------|
| | | FROM | TO | WIDTH | | 1. | 2. |
| <i>62 - 12-196 P1A</i> | | | | | | | |
| <i>62 - 95 3 7/8 in</i> | | <i>603</i> | <i>62.75</i> | <i>2.15</i> | <i>6747</i> | <i>.002</i> | <i>.02</i> |
| <i>62 - 2 7/8 in</i> | | | | | | | |
| <i>62 - 2 1/2 in</i> | | <i>667</i> | <i>672</i> | <i>1.0</i> | <i>6748</i> | <i>.001</i> | <i>.01</i> |
| <i>62 - 25.0 1/2 in</i> | | | | | | | |
| <i>73 - 77.4 1 - 2 5/8 in</i> | | <i>73</i> | <i>77.4</i> | <i>1.0</i> | <i>749</i> | <i>.002</i> | <i>.02</i> |
| <i>71 - 22.0 1/2 in</i> | | | | | | | |

| MINERALIZATION DESCRIPTION | TOTAL SULPHIDE | SAMPLES | | | SAMPLE NUMBER | ASSAYS | | | |
|----------------------------|----------------|-------------|-------------|------------|---------------|-------------|------------|--|--|
| | | FROM | TO | WIDTH | | Ag | Ag | | |
| <i>81.0-83.0 S-10% Py</i> | | <i>82.0</i> | <i>83.0</i> | <i>1.0</i> | <i>1150</i> | <i>.001</i> | <i>.01</i> | | |
| <i>87.2 TR Py</i> | | | | | | | | | |
| <i>87.2 END OF HOLE</i> | | | | | | | | | |

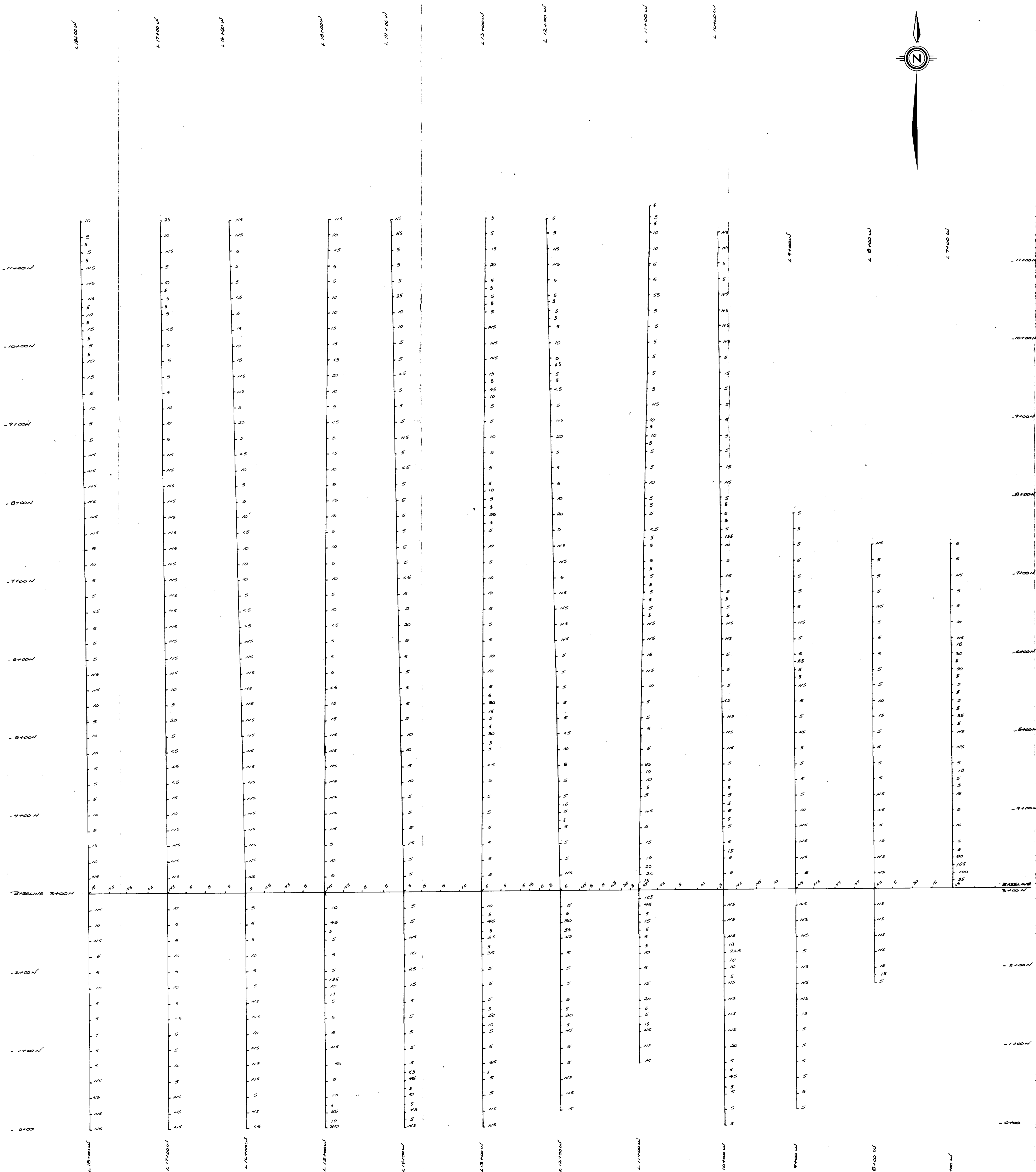
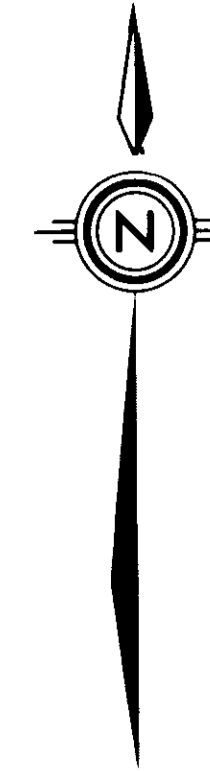


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SILVER GEOCHEM IN PPM.

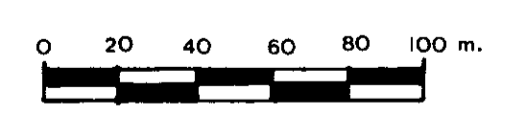


| | |
|---|------------------------------|
| ESSO MINERALS CANADA | |
| McDAME PROJECT | |
| NEWCOAST GRID | |
| Project No. <u>2150</u> | Mining Division <u>Liard</u> |
| Latitude <u>59°15'</u> | Longitude <u>127°37'</u> |
| NTS <u>104P 4E</u> | Scale <u>1:2000</u> |
| To Accompany A Report By: <u>C. Everett</u> | |
| Dated: <u>Nov 1981</u> | |
| Map No. <u>5</u> | |

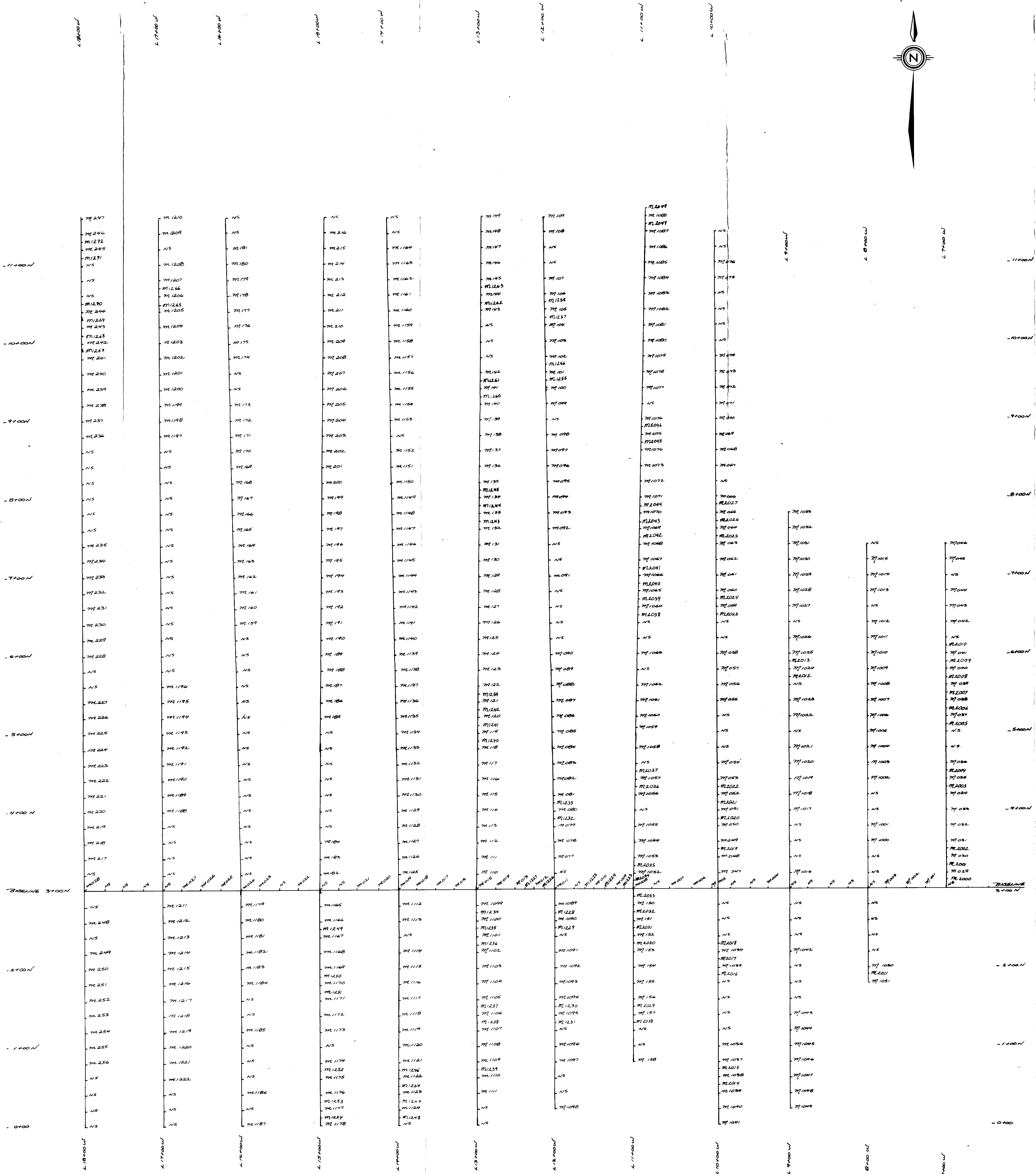
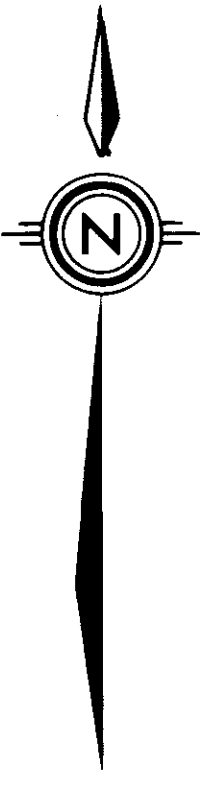


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GOLD GEOCHEM IN P.P.B.



| | |
|---|------------------------------|
| ESSO MINERALS CANADA | |
| McDAME PROJECT | |
| NEWCOAST GRID | |
| Project No. <u>2150</u> | Mining Division <u>Liard</u> |
| Latitude <u>59° 15'</u> | Longitude <u>127° 37'</u> |
| NTS <u>104P 4E</u> | Scale <u>1:2000</u> |
| To Accompany A Report By: <u>C. Everett</u> | |
| Dated: <u>Nov 1981</u> | |
| Map No. <u>4</u> | |



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SAMPLE LOCATION MAP



ESSO MINERALS CANADA

McDAME PROJECT

NEWCAST GRID

Project No. 2150 Mining Division Liard

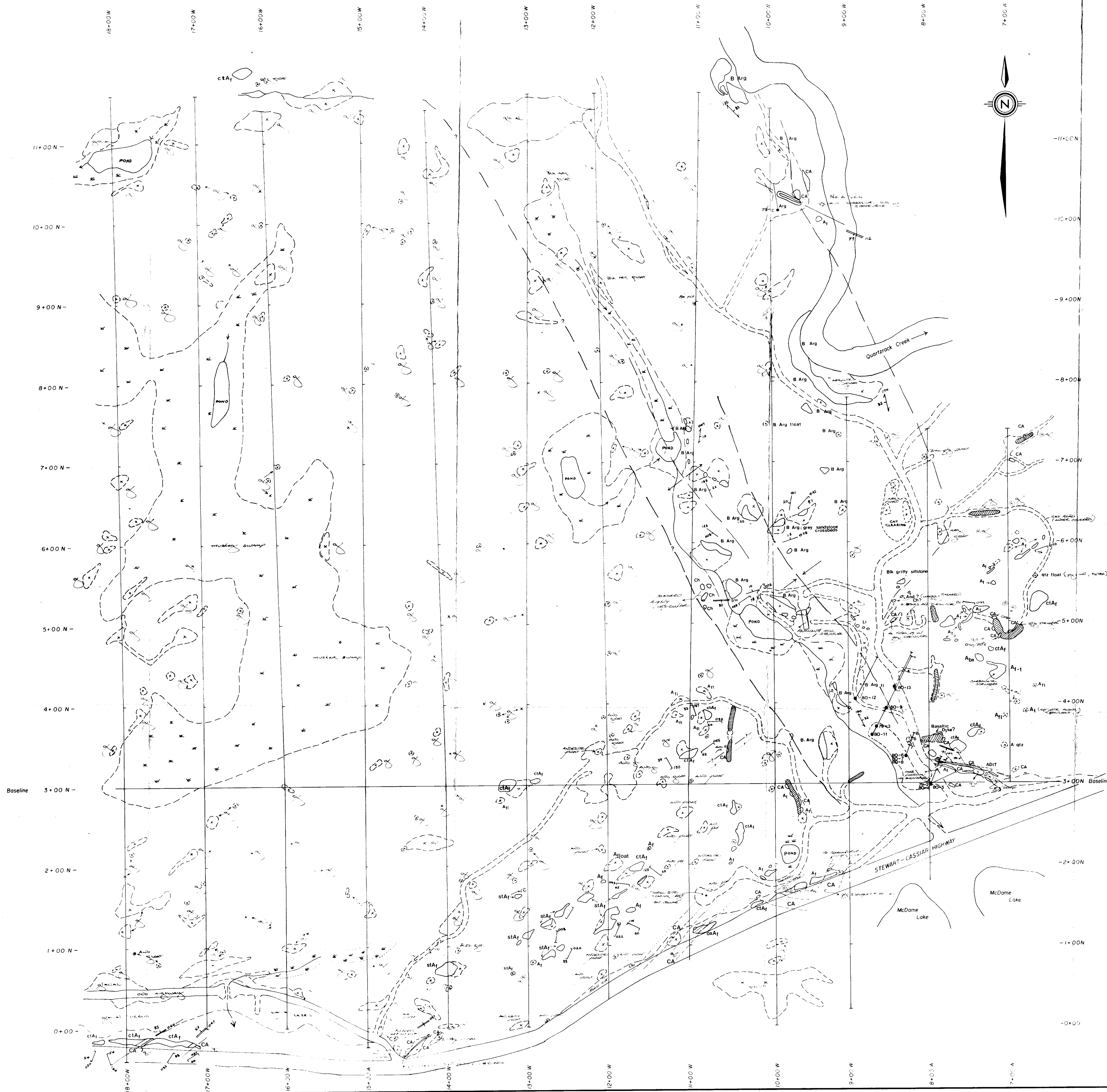
Latitude 59°15' Longitude 127°37'

N.T.S. 104P 4E Scale 1:2000

To Accompany A Report By: C. Everett

Dated: Nov 1981

Map No. 3



STRATIGRAPHIC SECTION

- Li Listwanite: grey to lime green altered ultramafic, variable carbonate,ankerite,talc,quartz, chlorite,mariposite/tuchsite
- Bas Basaltic Dyke
- Arg Argillite: black argillite, minor black siltstone, grey sandstone
- Ch Variable Volcanic Flow: gradational unit along andesite-argillite contact
- A (And) A₁: aphanitic pale green flow, locally tuffaceous (A₁)
ctA₁: cracked to autoclastic fragmental
stA₁: aplitic granular textured flows
Abx: andesite breccia (variations of above basic units)
- q.v. Quartz Vein
- CA Altered Andesite: bleached, carbonalized silicification and pyritization associated

LEGEND

- Outcrop
- ⊙ Float
- Geological boundary: --- defined
--- approximate
--- interpreted
- Quartz vein attitude (inclined, vertical)
- Bedding (inclined, vertical)
- Foliation (inclined, vertical)
- Jointing (inclined, vertical)
- Fault
- Syncline
- Anticline
- Glacial
- Road
- Trail
- Stream (perennial, intermittent)
- Drill hole location
- Adit
- Trench
- Swamp

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ESSO MINERALS CANADA

McDAME PROJECT
Newcast Grid-Geology

SCALE 1 cm = 20 m.

| | |
|------------------|------------------------|
| Project No. 2150 | Mining Division: LIARD |
| Date: 10/4/48 | Drawn by: |
| Scale: 1:40,000 | Map No. 2 |

