| | | | |
|---|---|---|---|
| **MAP NO.:** | **ASSESSMENT REPORT** X | **DOCUMENT NO:** | 092702 |
| | **PROSPECTUS** | **MINING DISTRICT:** | Whitehorse |
| | **CONFIDENTIAL** X | **TYPE OF WORK:** | Diamond Drilling |
| 105D 3 | **OPEN FILE** | | |

**REPORT FILED UNDER:** Berglynn Resources Inc., Skukum Gold Inc.

**DATE PERFORMED:** 9 September - 20 October, 1989 **DATE FILED:** 13 March, 1989

**LOCATION:** **LAT.:** 60 11'N **AREA:** Wheaton River

**LONG.:** 135 15'W **VALUE $:** 90 000.00

**CLAIM NAME & NO.:** POP 19-104(YA81472,5,6-7,9,482-91,500,502-515,518-23,YA86196-205,208-227); MOM 15-26,31,32,39-44,47,48,50-53,56,57,62,63,68-9,76-81,82-89(YA81781-92,797-8,805-810,813-14, 816-19,22,23,28,29,34-5,42-47,YA82000-07,BERG 1-95,152-162(YB07446-540,YB07597-607),STEN 1-45 (YA92922-66);MBI-3(YA94610-12)

**WORK DONE BY:** J. Baril

**WORK DONE FOR:** Berglynn Resources Inc., Skukum Gold Inc.

**DATE TO GOOD STANDING:**

**REMARKS:** #24 GODDELL

Drilling of the GODDELL structure in 1988 revealed a zone of extreme shearing and alteration with associated rhyolite and andesite dykes. High gold values are associated with acicular arsenopyrite horizons. Two mineralized zones were recognized. The best results were obtained from the lower zone with intersections up to 44.4 g/t Au over 11.24 m (4.20 m true thickness.)

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
MAR 0 1 1990
WHITEHORSE
YUKON TERRITORY

M.R. file no. 340-13-2
R.M.M.R. file no.
Date forwarded 1 March 1990

# TRANSMITTAL FORM

From ▶ Mining Recorder at: Whitehorse

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- ☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name
- ☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name — Lease no.
- ☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name — Lease no.
- ☐ SECURITY DEPOSIT
- ☐ FINANCIAL ABILITY
- ☐ ASSIGNMENT OF PLACER LEASE NO. — From — To
- ☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner
- ☐ DIAMOND DRILL LOGS — Claims — Claim sheet no.
- ☑ QUARTZ ASSESSMENT REPORT — Claims: VAIL 1-30, Colton 1-14 — Claim sheet no.
  - Type of report: Prosp, Sampling, Mapping
  - Submitted by: Noranda Expl. | Ron Stack
  - Cls. work performed on: Colton, Vail
  - $ req. for ren. application: 41400.00

M Southwick
Signature

REPLY ACTION — Date returned

Signature

802-6027-26 (6-86)

OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
MAR 13 1989
WHITEHORSE
YUKON TERRITORY

# Assessment Report on the

# Geology and

# Diamond Drilling

# of the

# POP, MOM, BERG, STEN and MB CLAIMS

| | |
|---|---|
| POP 19,22,23,24,26 | YA81472, 475, 476, 477, 479 |
| POP 29-38,47 | YA81482-491, 500 |
| POP 49-62,65-70 | YA81502-515, 518-523 |
| POP 73-82,85-104 | YA86196-205, 208-227 |
| MOM 15-26,31,32 | YA81781-792, 797, 798 |
| MOM 39-44,47,48 | YA81805-810, 813, 814 |
| MOM 50-53,56,57,62 | YA81816-819, 822, 823, 828 |
| MOM 63,68,69,76-81 | YA81829, 834, 835, 842-847 |
| MOM 82-89 | YA82000-007 |
| BERG 1-12,15,16,21 | YB07446-457, 460, 461, 466 |
| BERG 22,29-45,54,56 | YB07467, 474-490, 499,501 |
| BERG 58,60,62,64,66 | YB07503, 505, 507, 509, 511 |
| BERG 68,70,72,74,76 | YB07513, 515, 517, 519, 521 |
| BERG 78,80,82,84,86 | YB07523, 525, 527, 529, 531 |
| BERG 88,90,92,94,95 | YB07533, 535, 537, 539, 540 |
| BERG 152-154,156-160 | YB07597-599, 601-605 |
| BERG 161,162 | YB07606, 607 |
| STEN 1-17,19-45 | YA92922-938, 940-966 |
| MB 1-3 | YA94610-612 |

September 9 to October 20, 1988
Whitehorse Mining District
N.T.S. 105 D-3
Latitude 60 11' N
Longitude 135 15' W

for:

BERGLYNN RESOURCES INC.
SKUKUM GOLD INC.
706 - 595 Howe Street
Vancouver, B.C.
V6C 2T5

by:

John Baril, B.Sc.

092702

February, 1989

This report has been examined
the Geological Evaluation Unit
under Section 53 (4) Yukon
Mining Act and is allowed as
representation work in the amo
of $ 90 000 00 .

Regional Manager, Exploration
Geological Services for Commis
of Yukon Territory.

Physical Work

090560

## TABLE OF CONTENTS


| | | Page |
|---|---|---|
| I | INTRODUCTION | 1-2 |
| II | LOCATION AND ACCESS | 2 |
| III | PROPERTY AND CLAIM STATUS | 2-3 |
| IV | REGIONAL GEOLOGY | 4 |
| V | HISTORY AND PREVIOUS EXPLORATION | 4-6 |
| VI | 1988 WORK - GODDELL GULLY DIAMOND DRILLING | |
| | i) LOGISTICS | 6 |
| | ii) GEOLOGY AND STRUCTURE | 7-9 |
| | iii) ALTERATION | 10 |
| | iv) MINERALIZATION | 11-12 |
| VII | SUMMARY AND CONCLUSIONS | 17-19 |
| | RECOMMENDATIONS | 20 |
| | REFERENCES | 21-22 |


## LIST OF APPENDICES

APPENDIX


| | |
|---|---|
| I | PERSONNEL |
| II | ANALYTICAL RESULTS FROM DIAMOND DRILLING |
| III | MINIMUM DIRECT DRILLING COSTS - ASSESSMENT BREAKDOWN |
| IV | DIAMOND DRILL LOGS (PG-88-1 TO PG-88-4) |
| V | PETROGRAPHIC REPORT ON TWO DRILL CORE SAMPLES FROM DRILL HOLE PG-88-2 |
| VI | STATEMENT OF QUALIFICATIONS |

## LIST OF TABLES


| TABLE | | Page |
|---|---|---|
| 1 | CLAIMS COVERED BY THIS ASSESSMENT REPORT | 3 |
| 2 | PERTINENT FACTS ON THE 1988 GODDELL DRILLING PROGRAM | 6 |
| 3 | IMPORTANT ELEVATION LIMITS FOR SPECIFIC TYPES OF MINERALIZATION | 13 |
| 4 | ELEVATION LIMITS AND ASSAY RESULTS FOR ECONOMIC, ZONE 2 MINERALIZATION | 13 |
| 5 | EDITED DRILL CORE SAMPLE RESULTS | 14-16 |
| 6 | MINIMUM DIRECT DRILLING COSTS - ASSESSMENT BREAKDOWN | APPENDIX III |


## LIST OF FIGURES


| FIGURE | | Scale |
|---|---|---|
| 1 | PROPERTY LOCATION MAP | 1:1,000,000 |
| 2 | GODDELL GULLY PLAN MAP: GEOLOGY; DIAMOND DRILL HOLE PLAN; SAMPLE LOCATIONS | 1:1,000 |
| 3 | DIAMOND DRILL HOLE CROSS SECTION 8 + 02 W (PG-88-1 AND PG-88-2) | 1:1,000 |
| 4 | DIAMOND DRILL HOLE CROSS SECTION 8 + 74 W (PG-88-3) | 1:1,000 |
| 5 | DIAMOND DRILL HOLE CROSS SECTION 9 + 32 W (PG-88-4) | 1:1,000 |
| 6 | VERTICAL LONGITUDINAL SECTION | 1:1,000 |
| 7 | MINERAL RIGHTS MAP - 105D-3 QUARTZ AND PLACER | 1:30,000 |

# I INTRODUCTION

During 1988, a very significant drilling program was carried out on the Goddell Gully section of the POP claims.The POP claims form part of the "Wheaton Gold Property", which is owned jointly (50:50) by BERGLYNN RESOURCES INC. and SKUKUM GOLD INC. The Carbon Hill area encompassing the POP property, has been known historically for its antimony potential (ie: the Becker-Cochran, Porter and Goddell veins) but only recently for its gold potential. The 1986 and 1987 exploration programs on the POP property were successful in delineating several targets of severe alteration, gold-silver mineralization and/or anomalous soil geochemistry. As well, in 1987, extensive follow up diamond drilling was carried out on the Goddell Gully, Horseshoe Gulch and Goldpan Gully sections of the POP claims.

The purpose of the 1988 exploration program was to diamond drill very deeply into the Goddell Structure. In all, 4 holes were drilled totalling 6484 ft. (1976m). These 4 holes revealed new and important information about the geology of the Goddell Structure at depth. Primarily, 2 separate zones of mineralization were distinguished, one being ore grade and the other being sub-ore grade. The most significant intersections were encountered in holes PG-88-2 and PG-88-3. In hole PG-88-2, the best intersections were as follows: 16.82 m at 0.202 oz/t Au including 6.45 m at 0.394 oz/t Au ; 7.60 m at 0.181 oz/t Au including 3.04 m at 0.298 oz/t Au. In hole PG-88-3, the best intersection was 11.24 m at 0.610 oz/t Au including 4.20 m at 1.295 oz/t Au. Gold:silver ratios are generally very high at depth within the Goddell Structure. Trace element geochemistry from core samples in holes PG-88-1 to PG-88-4 has revealed the following generalities: As concentrations are extremely high; Sb concentrations are high to very high; Zn concentrations are moderate to high; Cu and Pb concentrations are low; Bi concentrations are very low; Hg concentrations are extremely low. In general, high Hg and As concentrations (and occasionally high Sb concentrations) are associated with high Au values. Hg is a slightly more accurate indicator element than As is.

Aside from the diamond drilling, there was a minimal amount of other work carried out on the POP property in 1988. On July 24 and July 26, the area just north of

Antimony Creek was briefly examined and prospected. Also, some of the 1987 drill core was check-sampled from the following drill holes: 87-PHS1, 87-PHS2, 87-PG1, 87-PG4, 87-PG5, 87-PG6, 87-PG7 and 87-PG9. The results of this check-sampling are included at the end of appendix 2. Finally, 2 drill core samples were sent to the University of British Columbia for petrographic study. The report on these 2 drill core samples is included in appendix 3.

## II LOCATION AND ACCESS

The POP property is situated approximately 60 air km. south of Whitehorse, Yukon on NTS sheet 105 D-3 at latitude 60 11' north and longitude 135 15' east.

Access to the property is provided by the all weather road running along the south side of the Wheaton River (a continuation of the Annie Lake road), which also links the recently shut-down Mt. Skukum Gold Mining Corporation's Au, Ag mine with the South Klondike Highway. A rough 4W DRIVE road strikes south from the Wheaton River road at the Becker Creek bridge, follows the creek south for 12 km., then trends westerly past the old Becker-Cochrane adits and across the top of Carbon Hill (and through the property) to the old Porter Adit. Distance by road from Whitehorse to the center of the property is approximately 84 km.

## III PROPERTY AND CLAIM STATUS

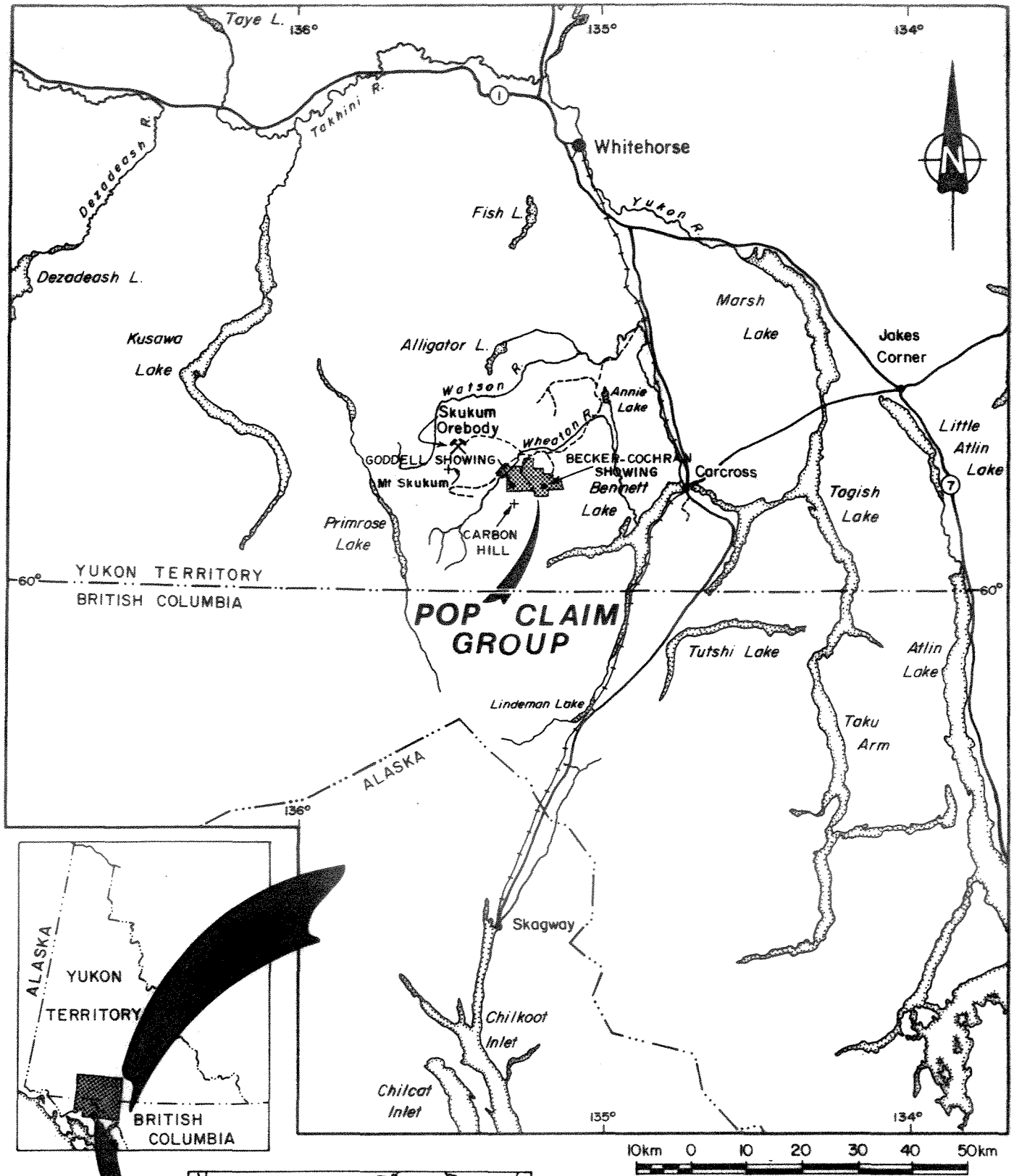
The claims discussed in this report consist of 224 contiguous two post, unsurveyed mineral claims staked under the Yukon Quartz Mining Act. These claims total approximately 11,570 acres . Claim data is illustrated below in table 1.

TABLE 1: CLAIMS COVERED BY THIS ASSESSMENT REPORT.

| CLAIM NAME | GRANT NUMBERS | EXPIRY DATE * | # OF CLAIMS |
|---|---|---|---|
| POP 19,22 | YA81472,475 | 01 Dec.1998 | 2 |
| POP 23,24,26,29-38 | YA81476,477,479,482-491 | 01 Dec.1999 | 13 |
| POP 47,49-62,65-70 | YA81500,502-515,518-523 | 01 Dec.1999 | 21 |
| POP 73-82 | YA86196-205 | 01 Dec.1998 | 10 |
| POP 85-104 | YA86208-227 | 01 Dec.1999 | 20 |
| MOM 15-26,31 | YA81781-792,797 | 01 Dec.1995 | 13 |
| MOM 32,39-44 | YA81798,805-810 | 01 Dec.1995 | 7 |
| MOM 47,48,50-53 | YA81813,814,816-819 | 01 Dec.1995 | 6 |
| MOM 56,57,62,63 | YA81822,823,828,829 | 01 Dec.1995 | 4 |
| MOM 68,69,76-81 | YA81834,835,842-847 | 01 Dec.1995 | 8 |
| MOM 82-89 | YA82000-007 | 01 Dec.1995 | 8 |
| BERG 1-12,15,16,21 | YB07446-457,460,461,466 | 01 Dec.1996 | 15 |
| BERG 22,29-45,54, 56 | YB07467,474-490,499, 501 | 01 Dec.1996 | 20 |
| BERG 58,60,62,64, 66 | YB07503,505,507,509, 511 | 01 Dec.1996 | 5 |
| BERG 68,70,72,74, 76 | YB07513,515,517,519, 521 | 01 Dec.1996 | 5 |
| BERG 78,80,82,84, 86 | YB07523,525,527,529, 531 | 01 Dec.1996 | 5 |
| BERG 88,90,92,94, 95 | YB07533,535,537,539, 540 | 01 Dec.1996 | 5 |
| BERG 152-154,156-160 | YB07597-599,601-605 | 01 Dec.1996 | 8 |
| BERG 161,162 | YB07606,607 | 01 Dec.1989 | 2 |
| STEN 1-17,19-45 | YA92922-938,940-966 | 01 Dec.1996 | 44 |
| MB 1-3 | YA94610-612 | 01 Dec.1998 | 3 |
| | | TOTAL: | 224 |

* Pending acceptance of this assessment report.

The registered owner of the claims is BERGLYNN RESOURCES INC. of Vancouver, B.C. who have entered into a 50:50 joint venture agreement on the property with SKUKUM GOLD INC. of Vancouver, B.C.. The claims are shown on the D.I.A.N.D. Quartz and Placer Sheet 105 D-3.




SKUKUM GOLD INC.
BERGLYNN RESOURCES INC.-JOINT VENTURE

# POP CLAIM GROUP
# LOCATION

| | |
|---|---|
| MINING DISTRICT: WHSE | SCALE: 1:1,000,000 |
| | DATE: Feb 89 |
| DRAWN BY: NH | FIGURE: 1 |

## IV REGIONAL GEOLOGY

The POP property lies on the eastern edge of the Cretaceous Coast Plutonic Belt, near the boundary with folded Mesozoic and Paleozoic volcanic and sedimentary rocks of the Whitehorse Trough (Intermontaine Belt). The region was mapped in detail by D.D. Cairnes (1912) and J.O. Wheeler (1961). The Mount Skukum Volcanic Complex, which lies immediately west of the POP property, was mapped in detail by M.J. Pride (1986). In general, Wheeler concludes that this part of the Coast Plutonic Belt comprises foliated Mesozoic (Cretaceous) granitoid rocks flanked by metamorphosed and unmetamorphosed sedimentary and volcanic rocks. Irregular belts of metavolcanic and metasedimentary rocks of Mesozoic, Paleozoic and Precambrian age occur as roof pendants. The geology described above is overlain and intruded by a coeval suite of Tertiary rhyolitic to andesitic flows, dikes and stocks at Montana Mountain, Mount Macauley and Mount Skukum. A significant Au, Ag epithermal vein deposit is associated with the Mount Skukum volcanic complex. This complex is Paleocene-Eocene in age, covers roughly 140 square km., and is elliptical in shape (Pride, 1986).

The geology underlying the POP property consists mainly of Cretaceous quartz monzonite to granodiorite intrusions of the Coast Plutonic Complex. Several roof pendants are associated with these intrusions including, late Proterozoic Yukon Group schist and gneiss, Jurassic Tantalus formation conglomerates and Mesozoic Hutshi group intermediate volcanics. These Coast Intrusives and associated roof pendants are locally overlain and intruded by Eocene Mount Skukum Group rhyolites (Doherty, 1986 b).

## V HISTORY AND PREVIOUS EXPLORATION

Exploration began in the Wheaton River area in the late 1800's with the discovery and staking of gold bearing veins on Mt. Anderson, Chieftan Hill and Carbon Hill by Frank Corwin and Thomas Rickman. A staking rush evolved in 1906 with the discovery of high grade gold and gold telluride bearing veins on Gold Hill. By the First World War, adits had been driven into structures on Gold Hill, Tally Ho Mountain, Mount Stevens and Carbon Hill. Higher grade gold bearing zones on Tally Ho Mountain, Mount Stevens and Gold Hill saw "limited production" until the mid 1920's. From the mid 1920's to the mid 1970's, the Wheaton River area saw only sporatic exploration activity, this activity being mainly directed at base metals.

In 1981, AGIP CANADA LTD. discovered a high grade gold-silver deposit near Mt. Skukum that soon developed into a reported 165,000 tons grading 0.73 opt Au, 0.63 opt Ag. Production of this deposit began in early 1986. The consequence of this discovery has been a dramatic increase in claims staked and in exploration work being performed in the Wheaton River area.

In 1985, OMNI RESOURCES INC. announced the discovery of a Au-Ag deposit at Skukum creek. Reserves to November 1987 are reported at 600,000 tons of 0.39 opt Au equivalent.

Stibnite veins were first discovered on Carbon Hill in 1893, but little work was done initially due to the discovery of the Klondike in 1897. The Goddell antimony showing was discovered and staked by Charles Goddell prior to 1909. A short adit was driven at this time, about which little is known. The Porter antimony showing also had a short adit driven, sometime in the early 1900's. Both the Porter and Goddell adits have sloughed in. The Becker-Cochran antimony showing was worked intermittently between 1906 and 1940, including some bulldozer trenching and the driving of a 95 foot adit at the 5300 foot level. In 1964, Yukon Antimony Corporation (NPL) acquired the ground and started development. Extensive diamond drilling as well as the driving of three adits defined a mineralized antimony bearing shear zone containing possible and probable reserves of approximately 140,000 tons of 4% antimony (Holcepek, 1974). Yukon Antimony also performed some bulldozer trenching between 1964 and 1967 at the head of the Goddell Gully. In 1974 the Becker-Cochran showing was re-staked by Ernest T. Bergvinson as the POP 1 -14 claims and these were optioned to Belmoral Mines Ltd (NPL). Belmoral Mines Ltd. dropped the option after a preliminary investigation. In 1976 the ground was optioned to Con Am Resources Ltd., who undertook a diamond drill program (17 holes) on the Becker-Cochran zone as well as on the Porter showing. Unfortunately, no data is available on this undertaking. The option by Con Am Resources was eventually dropped as well. During 1984 and 1985, additional ground was acquired on Carbon Hill by Ernest Bergvinson (president of Berglynn Resources), of which 126 claims form the POP property. In August 1985, an extensive soil geochemical program was performed on the POP claim group, which outlined five separate areas anomalous in gold and/ or indicator elements (Doherty, 1987a). In 1986, Geological mapping and sampling as well as some re-sampling of previous soil geochemical anomalies defined at least five separate targets for further exploration. These include the Goddell Gully, Horseshoe Gulch, Goldpan Gully, the Becker-Cochrane area, the Antimony Creek area and the eastern gold geochemical anomaly.

In 1987, an extensive surface exploration program was carried out on the POP property. This exploration was concentrated in three areas: Goddell Gully, Horseshoe Gulch and Goldpan Gully. In the Goddell Gully, detailed mapping (including float mapping), V.L.F.-E.M. surveying and diamond drilling were carried out. In Horseshoe Gulch, trenching and diamond drilling were performed. In Goldpan Gully, V.L.F.-E.M. surveying and diamond drilling were carried out. In addition to the three areas just described, other areas which were briefly looked at on the POP property include the area north of Antimony Creek and the eastern gold geochem soil anomaly.

## VI 1988 WORK - GODDELL GULLY DIAMOND DRILLING

### i) LOGISTICS

A total of 4 holes were drilled into the main Goddell shear structure covering a strike length of approximately 425 ft.(130m). The drilling of these 4 holes was done from a drill pad which was blasted out of the steep slope, located on the north side of the Goddell shear zone. This drill pad (called pad 3) has an approximate elevation of 4193 ft. (1278m) and has approximate grid coordinates of 8+96 W, 1+23 N. The drill and crews were mobilized to and from this pad via helicopter. All of the drill core is stored on site, at the Skukum Creek Property's mining camp and offices.The following table (table 2) lists pertinent facts on the Goddell drilling:

TABLE 2: PERTINENT FACTS ON THE 1988 GODDELL DRILLING PROGRAM.

| HOLE | LENGTH (FEET) | AZIMUTH (DEG) | DIP (DEG) | LONGITUDINAL SECTION INTERSECTION ELEVATIONS (METERS) ZONE 1 | ZONE 2 |
|---|---|---|---|---|---|
| 88-PG-1 | 1273 | 147 | -62 | 1029.8 to 1023.5 | 1000.8 to 942.9 |
| 88-PG-2 | 1747 | 147 | -75 | 879.9 to 877.6 | 834.0 to 783.7 |
| 88-PG-3 | 1767 | 174.5 | -75 | 899.1 to 871.4 | 839.7 to 762.1 |
| 88-PG-4 | 1697 | 200.5 | -75 | 948.7 to 929.6 | 901.0 to 843.5 |

TOTAL: 6484 ft.

## ii) GEOLOGY AND STRUCTURE

The geology of the Goddell Structure is very complex, and some aspects of this geology are still unresolved. In 1987, surface mapping and diamond drilling outlined one major zone of mineralization within the Goddell Stucture. The 1988 diamond drilling has outlined a second major mineralized zone (presently referred to as zone 2) which occurs at a depth greater than the zone outlined in 1987 (now referred to as zone 1). The geology of zone 2 will be discussed in greater detail in the section on mineralization.

The Goddell Gully represents part of an approximately 50 m wide, intensely sheared, brecciated and altered zone which strikes between 090 and 115 degrees. The general overall orientation of this structure is 105 degrees. The Goddell Structure has a known extent of greater than 5 kilometers. On surface, this fault dips either vertically or steeply to the south. This major shear structure appears to be the same one which hosts the Becker-Cochrane stibnite occurrence, located 5.5 km to the east of Goddell Gully. It is probably pre-Tertiary in age. In the Goddell Gully itself, the shear zone strikes between 090 and 110 degrees, with an overall general orientation of 095 degrees. It is possible that this Goddell Structure is related to the east-west trending Berney Creek Fault, located on the west side of the Wheaton River Valley. This same Berney Creek Fault is responsible for the Skukum Creek orebody of Omni Resources Inc./Skukum Gold Inc.

The Goddell shear zone is bounded to the north and south by large sigmoidal rhyolite quartz-feldspar porphyry dykes, which also dip vertically or steeply to the south on surface. These two dykes are being used as important marker horizons due to their unmistakable identification, and are referred to as the north and south QFP respectively.

Surface mapping in 1987 has shown that in between the north and south QFP dykes, there are three main zones of shearing and brecciation. These sheared and brecciated zones often host the black breccias, which are discussed in more detail below.

Several rhyolite and andesite dykes have intruded the quartz monzonite between the north and south QFP marker dykes. 1987 surface mapping indicated that the "interior" rhyolite dykes generally strike 105 degrees, and the "interior" andesite dykes generally strike between 110 and 140 degrees.

On surface, the north and south QFP dykes are terminated on the east side of Goddell Gully by a fault which strikes roughly 160 degrees. This same fault has offset other dykes in the area as well. In 1987, a subsurface geology plan map

was compiled, based on diamond drilling data, for the 3870 ft. (1180 m) elevation. From this map, it is evident that at depth, the north and south QFP dykes continue, at least partly, to the east of the 160 degrees trending fault. The offset of the north and south QFP at the 3870 ft. level, as well as the offset of other geological features, suggests that this 160 degrees trending fault is a normal fault dipping to the NE. There may also be an oblique slip component to the NW along this fault.

The north QFP rhyolite dyke can be described as follows: roughly 10% rounded quartz eyes are present between 1-2 mm in diameter, and roughly 10% euhedral, white feldspar phenocrysts are present between 1-4 mm in diameter. Locally, pink potassium feldspar phenocrysts do exist. The colour is generally greenish-buff, but locally it is reddish-brown. Within the north QFP, 8-10% xenoliths of almost identical (resorbed ?) rhyolitic quartz-feldspar material is present. These xenoliths are slightly lighter in colour, and have a slightly lower density of quartz eyes and feldspar phenocrysts than the main part of the dyke. Occasional thin quartz-carbonate stringers can be found cross-cutting this dyke.

The south QFP rhyolite dyke can be described as follows: roughly 1-3% rounded quartz eyes are present between 1-3 mm in diameter. Roughly 20% euhedral, white feldspar phenocrysts are present between 2-6 mm in diameter. The colour is generally greyish-green, but may be locally pink. Occasional minor quartz-carbonate stringers can be found cross-cutting this dyke. The upper and lower contacts of this dyke are usually flow banded and spherulitic. The 1987 drilling indicates that this south QFP dyke appears to pinch out to the east. The most easterly drill holes (87PG-6, 87PG-7 and 87PG-9) did not intersect the south QFP at all.

The Goddell Structure, as well as the north and south QFP dykes, change their dip direction at depth. As mentioned earlier, the Goddell Structure and the north and south QFP dykes dip vertically or steeply to the south on surface. Somewhere between the 1150 m and 1250 m elevations, a transition occurs, and these structures begin to dip steeply to the north. The exact cause of this change in orientation is unknown, however, high level flat faulting is one possibility. Another possibility is that these structures are bent or folded slightly.

The "interior" rhyolite dykes, occurring between the north and south QFP dykes are of 4 main types. First of all, there are several quartz-feldspar porphyry dykes which contain anywhere from 2-5% feldspar phenocrysts, and 5-10% quartz eyes. These dykes are generally light grey to greenish-grey and are usually crackle fractured. The second type of rhyolite dyke which may be encountered are crackle fractured quartz eye porphyries. This type is not very common. The third type consists of flow banded quartz

porphyries, or flow banded quartz-feldspar porphyries. This type has alternating greyish-white and green bands, and are sometimes crackle fractured. Finally, the fourth type of rhyolite dyke was encountered in hole PG-88-4, and is actually a feldspar porphyritic rhyodacite dyke. This dyke contains about 10% feldspar phenocrysts, and is medium grey and crackle fractured. Rhyolite dykes do occasionally occur outside of the area enclosed by the north and south QFP dykes, but this is not common.

The "interior" andesite dykes, occurring between the north and south QFP dykes vary in texture all the way from fine grained, to sub-porphyritic, to porphyritic. They are generally greyish-green to dark green in colour. These dykes are highly altered and commonly bleached, and are occasionally crackle fractured or sheared. Anywhere from 1-8% quartz-carbonate whisps, blebs and gash infillings exist and occasionally, quartz-carbonate stringers are present as well. Andesite dykes are relatively common to the north of the north QFP, however, to the south of the south QFP, these dykes are extremely common and usually occur in swarms (zone 2). These andesite dykes occurring to the south of the south QFP, are essentially the same as the "interior" andesite dykes with the exception of the included mineralization (acicular arsenopyrite needles). This arsenopyrite mineralization is discussed in the section on mineralization.

The black breccias have been mentioned earlier and they can be described as follows: First of all, these breccias are intensely sheared and brecciated zones which have been, at least, partially healed. The breccia fragments vary from being rounded, to being very stretched out and sheared. The black breccias can either be monolithic or polymictic. In drill holes PG-88-1 to PG-88-4, monolithic black breccias have been observed with either quartz monzonite, andesite or quartz-carbonate fragments. In these same drill holes, polymictic varieties have been observed with fragment combinations of quartz monzonite + rhyolite; rhyolite + quartz; quartz monzonite + andesite; quartz monzonite + quartz; rhyolite + quartz + quartz monzonite; and rhyolite + quartz + andesite. The fragment types which are included in these breccias depend upon the lithologies in which they occur. The black, fine grained matrix appears to be ground up sulphides (probably pyrite) which have been re-cemented or healed. This black matrix can make up anywhere from 15% to 95% of the black breccia matrix. Often, fine grained pyrite can be seen within the black matrix. The fragments which occur with these black breccias are almost always bleached to a certain degree. Commonly, high densities of black shear bands will occur without the breccia fragments being present. These have been referred to as black sulphide bands in the 1988 drill core logs.

### iii) ALTERATION

Hydrothermal alteration will be described for the quartz monzonite, the north and south QFP (rhyolitic) dykes, the other rhyolite dykes and the andesite dykes.

The quartz monzonite which occurs to the north of the north QFP dyke is mainly propyllitically altered. As well, this rock contains minor phyllic alteration and local patches of argillic alteration. The alteration minerals in this section of quartz monzonite are chlorite, calcite, quartz-serecite (phyllic), leucoxene, local hematite, local clay (argillic) and minor local epidote.

Between the north and south QFP dykes, the quartz monzonite is intensely to very intensely phyllically altered. As well, pervasive ankerite alteration and local patches of silicification exist. The phyllic alteration is expressed by a secondary quartz-serecite assemblage. In some places, the quartz monzonite has been entirely replaced by quartz and serecite.

To the south of the south QFP, the quartz monzonite is basically altered the same as it is between the north and south QFP dykes. The one exception to this is that towards the end of the drill holes, occasional patches of argillic alteration (clay altered feldspar phenocrysts) begin to appear.

The north QFP dyke has pervasive ankerite alteration as well as local serecite, and local hematite alteration. The south QFP is basically altered the same as the north QFP, however, local patches of silicification occur here as well.

The rhyolite dykes, other than the north and south QFP dykes, all have relatively similar alteration. These dykes all have serecite alteration to some degree. Also, the rhyolite dykes may or may not have varying amounts of calcite (altered feldspars), ankerite (pervasive) or chlorite (in fractures) alteration.

The andesite dykes in the Goddell Zone are all intensely altered. All of these andesite dykes have pervasive ankerite alteration, as well as the characteristic apple green coloured serecite alteration of feldspar phenocrysts. Also, many of these dykes have very small specs of a bright green mica mineral which may be fuchsite, or it may simply be a brighter coloured variety of serecite. Several of the andesite dykes have hematite alteration, either along fractures, or along the quartz-carbonate stringer selvages. Finally, some of the andesite dykes towards the end of drill hole PG-88-4 contained local minor epidote alteration.

## iv) MINERALIZATION

On surface, the Goddell fault structure contains many small veins of quartz + barite +/- calcite +/- stibnite +/- galena +/- sphalerite +/- arsenopyrite +/- jamesonite. These veins also fill splay faults associated with the Goddell Structure. The veins have been found anywhere between approximately the 1500 m and 1200 m elevations. Some of these veins contain greater than 50% massive, coarsely crystalline stibnite, and have widths between 3 and 60 cm . The quartz in these veins is often vuggy and comb textured. Sampling of these quartz-sulphide veins on surface have returned values up to 0.38 oz/t Au and 2.40 oz/t Ag.

In addition to the quartz-sulphide veins mentioned above, two varieties of quartz-carbonate vein occur on surface within the Goddell Structure. These quartz-carbonate veins generally strike around 140 degrees (ie: similar to the andesite dyke trend). The first variety of quartz-carbonate vein is a sparry or translucent type, hosting traces of sphalerite, galena and pyrite. Sampling of this variety has returned values up to 0.498 oz/t Au and 6.32 oz/t Ag (from a 10 cm wide grab sample). The other variety of quartz-carbonate vein occurring in the Goddell Structure on surface, is a greenish-grey type which is barren of sulphides. Sampling of this greenish-grey variety has returned values up to 0.131 oz/t Au and 0.25 oz/t Ag (from a 10 cm wide grab sample).

As mentioned earlier, the 1988 drilling program has outlined 2 separate zones of mineralization. Zone 1 is a segment of predominantly black breccia which occurs just above the hanging wall of the south QFP marker dyke. The elevations at which this zone was encountered in drill holes PG-88-1 to PG-88-4 is shown in table 3. Significant assay results for the zone 1 black breccias were only encountered in drill hole PG-88-2. These results occur between the 885.5 m and 877.6 m elevations and consist of 6.99 m at 0.120 oz/t Au and 0.05 oz/t Ag including 3.95 m at 0.157 oz/t Au and 0.05 oz/t Ag. Black breccias and black sulphide bands do occur sporadically throughout the Goddell Structure at depth, however, zone 1 is the main area of their occurrance. The longitudinal section (figure 6) which is included with this report, contains the 1987 and 1988 drill hole intersections of zone 1. In drill holes 87PG-6 to 87PG-9, it is not certain whether the black breccia intersections which were recorded, are part of zone 1 or not.

Zone 2 occurs below the footwall of the south QFP marker dyke. This zone basically consists of a swarm of altered and mineralized andesite dykes which intrude the altered quartz monzonite. A unique feature of zone 2 is the appearance of tiny acicular arsenopyrite needles. These arsenopyrite needles occur in both the andesite dykes and the quartz

monzonite, and are usually only identifiable with a hand lens. The levels at which acicular arsenopyrite occurs in drill holes PG-88-1 to PG-88-4, is shown in table 3. The existance of the arsenopyrite needles is associated with high gold values and, generally, higher concentrations of arsenopyrite needles coincides with higher gold values. The arsenopyrite needles are much more prominent in the andesite dykes (up to 15% total content) than they are in the quartz monzonite (up to 2% total content). The highest assay value recorded from a zone 2 andesite dyke was 1.22 m at 2.030 oz/t Au and 0.22 oz/t Ag (from drill hole PG-88-3). The highest assay value recorded from quartz monzonite in zone 2 was 0.82 m at 0.338 oz/t Au and 0.05 oz/t Ag. Usually, the quartz monzonite in zone 2 contains only sub-economic gold values. In drill holes PG-88-2 and PG-88-3, the andesite dykes contain economic amounts of gold between certain elevations. These elevations are listed in table 4. It appears that the andesite dykes in drill holes PG-88-1 and PG-88-4 are not at a deep enough elevation to contain Au mineralization. A study of table 4 shows that in addition to andesite dykes, local small intervals of black breccia or quartz-sulphide stringers are economically mineralized within zone 2.

A final type of mineralization worthy of mention, which occurs at depth within the Goddell Structure, consists of small quartz-sulphide or quartz-sulphide breccia stringers and veinlets. In drill holes PG-88-1 to PG-88-4, quartz-sulphide breccia veinlets between 4 cm and 1.5 m in width have been noted. These veinlets consist of brecciated quartz + pyrite +/- sphalerite +/- stibnite. The most significant assay value observed from a quartz-sulphide breccia veinlet was 1.5 m at 0.213 oz/t Au and 1.14 oz/t Ag (from drill hole PG-88-3). Small quartz-sulphide stringers between 1/4 cm and 4 cm have been noted as well. These stringers consist of quartz +/- pyrite +/- sphalerite +/- stibnite +/- acicular arsenopyrite needles. The most significant assay value was recorded from 4, 2 cm wide quartz-sulphide stringers plus some quartz-sulphide fragments, all within 0.46 m of quartz monzonite. The assay values within this interval were 0.724 oz/t Au and 0.05 oz/t Ag.

TABLE 3: IMPORTANT ELEVATION LIMITS FOR SPECIFIC TYPES OF MINERALIZATION.

| HOLE | ELEVATION LIMITS OF ZONE 1 MINERALIZATION (meters) | ELEVATION LIMITS OF ZONE 2 ANDESITE DYKE SWARM (meters) | ELEVATION LIMITS OF ACICULAR ARSENOPYRITE OCCURRANCE (meters) |
|---|---|---|---|
| PG-88-1 | 1029.8 - 1023.5 | 1000.8 - 942.9 | 1008.9 - 1004.7 |
| PG-88-2 | 897.9 - 877.6 | 834.0 - 783.7 | 850.0 - 775.9 |
| PG-88-3 | 899.1 - 871.4 | 839.7 - 762.1 | 841.8 - 771.0 |
| PG-88-4 | 948.7 - 929.6 | 901.0 - 843.5 | 831.1 - 818.0 |

TABLE 4: ELEVATION LIMITS AND ASSAY RESULTS FOR ECONOMIC, ZONE 2 MINERALIZATION.

| HOLE | ELEVATION LIMITS OF ECONOMIC, ZONE 2 MINERALIZATION (m) | ROCK TYPE | INTERSECTION WIDTH ALONG CORE AXIS(m) | PEAK VALUES WITHIN INTERSECTION | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Au oz/t | Ag oz/t | WIDTH (m) | Au oz/t | Ag oz/t |
| PG-88-2 | 815.0 - 807.2 | ANDS | 7.60 | .181 | .07 | 3.04 | .298 | .08 |
| PG-88-2 | 800.8 - 785.7 | ANDS | 16.82 | .202 | .11 | 6.45 | .394 | .16 |
| PG-88-3 | 833.1 - 827.3 | BLBX | 5.66 | .112 | .13 | 0.18 | .684 | 1.63 |
| PG-88-3 | 805.1 - 795.0 | ANDS | 11.24 | .610 | .08 | 4.20 | 1.295 | .15 |
| | | | | | | and | | |
| | | | | | | 2.46 | .411 | .04 |
| PG-88-3 | 779.8 - 778.5 | BLBX + QZSX | 1.25 | .354 | .06 | 0.46 | .724 | .05 |

TABLE 4 LEGEND:

ANDS = Andesite dyke swarm
BLBX = Black breccia
QZSX = Quartz-sulphide stringers

TABLE 5: EDITED DRILL CORE SAMPLE RESULTS.

| HOLE | FROM/ TO (ft.) | WIDTH (ft.) | Au oz/t | Ag oz/t | As ppm | Sb ppm | Hg ppm | LITHOLOGY |
|---|---|---|---|---|---|---|---|---|
| PG-88-1 | 1005.5 -1008.5 | 3.0 | 0.222 | 0.02 | 13,613 | | | 4 |
| PG-88-1 | 1018.5 -1023.5 | 5.0 | 0.050 | 0.01 | | | | 4 |
| PG-88-2 | 1343.3 -1346.3 | 3.0 | 0.139 | 0.03 | 2,137 | | | 5a,b |
| PG-88-2 | 1346.3 -1351.3 | 5.0 | 0.164 | 0.05 | 5,084 | | | 5a,b |
| PG-88-2 | 1351.3 -1356.3 | 5.0 | 0.160 | 0.06 | 4,344 | | | 5a,b |
| PG-88-2 | 1356.3 -1361.3 | 5.0 | 0.044 | 0.05 | 387 | | | 5a,b |
| PG-88-2 | 1361.3 -1366.3 | 5.0 | 0.097 | 0.04 | 571 | | | 5a,b |
| PG-88-2 | 1495.6 -1501.3 | 5.7 | 0.093 | 0.15 | 5,604 | | | 1a |
| PG-88-2 | 1577.0 -1581.2 | 4.2 | 0.069 | 0.05 | 3,721 | 97 | 0.70 | 7 |
| PG-88-2 | 1585.2 -1590.2 | 5.0 | 0.382 | 0.15 | 12,233 | | | 1a,2,2a |
| PG-88-2 | 1590.2 -1595.2 | 5.0 | 0.214 | 0.01 | 10,646 | | | 1,2a |
| PG-88-2 | 1605.2 -1610.2 | 5.0 | 0.291 | 0.12 | 7,611 | | | 1,2 |
| PG-88-2 | 1635.2 -1638.2 | 3.0 | 0.189 | 0.01 | 5,310 | | | 1,2a |
| PG-88-2 | 1638.2 -1643.8 | 5.6 | 0.062 | 0.05 | 3,260 | 200 | | 1 |
| PG-88-2 | 1643.8 -1648.8 | 5.0 | 0.070 | 0.04 | 3,137 | 72 | | 1 |
| PG-88-2 | 1653.8 -1658.8 | 5.0 | 0.170 | 0.08 | 5,037 | 2,301 | | 1 |
| PG-88-2 | 1666.4 -1669.3 | 2.9 | 0.143 | 0.09 | 3,667 | 1,315 | | 1 |
| PG-88-2 | 1669.3 -1674.3 | 5.0 | 0.610 | 0.57 | 7,318 | 4,209 | | 1 |
| PG-88-2 | 1680.5 -1685.5 | 5.0 | 0.540 | 0.03 | 5,462 | 1,046 | | 1,2,7 |
| PG-88-2 | 1685.5 -1690.5 | 5.0 | 0.510 | 0.02 | 7,262 | 322 | | 2,7 |
| PG-88-3 | 1026.1 -1028.9 | 2.8 | 0.077 | 0.20 | 2,878 | 28 | 0.76 | 2 |

TABLE 5: CONTINUED

| HOLE | FROM/ TO (ft.) | WIDTH (ft.) | Au oz/t | Ag oz/t | As ppm | Sb ppm | Hg ppm | LITHOLOGY |
|---|---|---|---|---|---|---|---|---|
| PG-88-3 | 1369.1 -1370.6 | 1.5 | 0.213 | 1.14 | 1,120 | | | 4 |
| PG-88-3 | 1379.1 -1383.3 | 4.2 | 0.085 | 0.35 | 1,754 | 7,172 | 3.00 | 5a,b |
| PG-88-3 | 1521.7 -1522.3 | 0.6 | 0.684 | 1.63 | 2,853 | 62,706 | 35.00 | 5a |
| PG-88-3 | 1522.3 -1527.3 | 5.0 | 0.080 | 0.08 | 7,820 | 3,296 | 0.88 | 5a |
| PG-88-3 | 1527.3 -1532.3 | 5.0 | 0.108 | 0.04 | 5,928 | 71 | 0.40 | 5a |
| PG-88-3 | 1532.3 -1536.3 | 4.0 | 0.095 | 0.16 | 7,105 | 1,284 | 0.70 | 5a |
| PG-88-3 | 1536.3 -1540.3 | 4.0 | 0.089 | 0.07 | 6,976 | 107 | 0.78 | 5a |
| PG-88-3 | 1557.3 -1562.3 | 5.0 | 0.063 | 0.01 | 1,186 | 106 | 0.50 | 1a |
| PG-88-3 | 1600.5 -1605.5 | 5.0 | 0.095 | 0.02 | 7,798 | 30 | 0.27 | 2 |
| PG-88-3 | 1619.2 -1624.3 | 5.1 | 0.203 | 0.02 | 5,086 | 19 | 0.27 | 1 |
| PG-88-3 | 1624.3 -1627.3 | 3.0 | 0.766 | 0.07 | 16,514 | 92 | 1.20 | 2 |
| PG-88-3 | 1632.5 -1633.8 | 1.3 | 0.411 | 0.07 | 15,031 | 34 | 1.90 | 2 |
| PG-88-3 | 1638.3 -1642.3 | 4.0 | 0.179 | 0.07 | 4,732 | 32 | 0.88 | 1 |
| PG-88-3 | 1642.3 -1644.0 | 1.7 | 1.908 | 0.11 | 17,011 | 43 | 2.40 | 1 |
| PG-88-3 | 1644.0 -1646.7 | 2.7 | 0.338 | 0.05 | 7,805 | 32 | 1.50 | 1 |
| PG-88-3 | 1646.7 -1649.3 | 2.6 | 0.472 | 0.21 | 9,606 | 5,628 | 1.90 | 1 |
| PG-88-3 | 1649.3 -1653.3 | 4.0 | 2.030 | 0.22 | 20,754 | 2,447 | 8.30 | 2 |
| PG-88-3 | 1653.3 -1656.1 | 2.8 | 1.550 | 0.12 | 25,338 | 72 | 3.90 | 2 |
| PG-88-3 | 1711.4 -1714.0 | 2.6 | 0.138 | 0.06 | 6,242 | 144 | 0.24 | 5a,b |
| PG-88-3 | 1714.0 -1715.5 | 1.5 | 0.724 | 0.05 | 10,984 | 55 | 0.65 | 4a |
| PG-88-3 | 1715.5 -1719.9 | 4.4 | 0.065 | 0.02 | 3,090 | 98 | 0.22 | 5a,b |
| PG-88-3 | 1724.2 -1727.4 | 3.2 | 0.056 | 0.09 | 3,738 | 819 | 0.40 | 5a,b |

TABLE 5: CONTINUED

| HOLE | FROM/ TO (ft.) | WIDTH (ft.) | Au oz/t | Ag oz/t | As ppm | Sb ppm | Hg ppm | LITHOLOGY |
|---|---|---|---|---|---|---|---|---|
| PG-88-3 | 1727.4 -1730.6 | 3.2 | 0.074 | 0.11 | 3,031 | 1,315 | 0.33 | 5a,b |
| PG-88-4 | 1623.5 -1625.2 | 1.7 | 0.140 | 0.06 | 2,633 | 60 | 0.56 | 1 |

TABLE 5 LEGEND

Lithology:

1 : Altered quartz monzonite.
1a: Altered quartz monzonite breccia.
2 : Andesite dyke.
2a: Brecciated andesite dyke.
4 : Quartz-sulphide breccia veinlet.
4a: Quartz-sulphide stringer or stringers.
5a: Black sulphide banding.
5b: Black breccia.
7 : Fault/shear/clay zones.

## VII SUMMARY AND CONCLUSIONS

The Goddell Structure represents a zone where extreme shearing, brecciation and alteration have occurred. Some of these shears and breccias have been at least partially healed, and are filled with ground up and re-cemented, fine grained sulphides (probably mainly pyrite). These healed shears and breccias have been called black breccias, and black sulphide bands (the latter name represents shear bands where no breccia fragments are present). Many rhyolite and andesite dykes have been emplaced along shears within the Goddell Structure. Several of the andesite dykes at depth contain extensive acicular arsenopyrite mineralization, and also possess extremely high gold values.

Alteration associated with the mineralized portion of the Goddell Structure can be generally described in terms of an outer halo and a central core. Surrounding the mineralized area of zones 1 and 2 is a propyllitic alteration halo, with minor phyllic and minor local argillic components. The alteration minerals associated with this halo are chlorite, calcite, leucoxene, minor local epidote, quartz-serecite (phyllic), local hematite and local clay (argillic). Within the area of zones 1 and 2 is a central core of intense to very intense phyllic, (quartz-serecite) and Fe-carbonate (ankerite) alteration. Included in this central core is minor local hematite alteration as well as local patches of silicification. Also, a very bright green mica mineral is found in addition to the apple green coloured serecite, within the andesite dykes of the central core. This bright green mica may be fuchsite, or it may just ba a brighter colour of serecite.

High Fe-carbonate contents in fault zones probably indicate a high CO2 content, and records a period of boiling of a gas rich hydrothermal fluid. Additionally, it suggests that gold mineralization should occur at a deep level within the strtucture (which has been confirmed by 1988 diamond drilling).

Zone 1 was encountered at different elevations in drill holes PG-88-1 to PG-88-4 as illustrated in table 3. The deepest elevation at which this zone was encountered was in drill hole PG-88-2 (between 897.9 m and 877.6 m elevation). Incidentally, PG-88-2 was the only 1988 drill hole in which significant Au values were encountered in zone 1. Zone 1 has never been intersected below the 877.6 m elevation and it is possible that the Au values will continue to increase with depth. Future diamond drilling and/or underground work will confirm whether or not Au values will increase further within zone 1, below the 877.6 m elevation.

Zone 2, as well, was encountered at different elevations in drill holes PG-88-1 to PG-88-4 as illustrated in table 3. Significant Au values within zone 2, however, were only

encountered in drill holes PG-88-2 and PG-88-3. These significant Au values occur within a limited horizon. This Au horizon is the same as the acicular arsenopyrite horizon. For instance, the gold horizon occurs between the 833.1 m and 778.5 m elevations. The acicular arsenopyrite horizon, with the exception of drill hole PG-88-1, occurs between the 850.0 m and 771.0 m elevations. The arsenopyrite horizon which exists in drill hole PG-88-1 can be considered erroneous, because the concentration of arsenopyrite needles present in this hole is negligible. The correlation between the Au and acicular arsenopyrite horizons is very convenient because it provides a simple, visual method of determining the presence or absence of Au, based on the presence or absence of arsenopyrite needles. The Au horizon in zone 2 described above, included the ore shoot within the andesite dyke swarm, as well as the outlying black breccias and quartz-sulphide stringers. Considering drill holes PG-88-2 and PG-88-3 together, the andesite dyke swarm ore shoot occurs between the 815.0 m and 785.7 m elevations. This ore shoot almost definitely continues laterally, roughly between these elevations, in the general 105 degrees strike direction of the Goddell Structure. Since the Goddell Shear Zone is such a huge structure, the potential for a very large and high grade ore body is extremely high here. It is also possible that one or more ore shoots exist at deeper elevations, however, diamond drilling to date has not penetrated below the 764.0 m elevation. A word of caution is needed here because as the andesite dykes continue down dip, they head into the direction of the south QFP dyke. From here, they are either truncated by or pass right through the south QFP. To date, cross-cutting relationships are unknown for these dykes. Future diamond drilling and/or underground work will confirm the lateral continuation of this ore shoot, as well as the possible existance of ore shoots at deeper elevations within zone 2.

The hydrothermal regime for the Goddell Structure mineralization has been postulated in the past as being epithermal, and also mesothermal for different reasons. On surface, the open space textures (ie: vuggy and comb textured quartz) associated with veining as well as the mineralogy of these veins (ie: abundant stibnite and barite), suggest an epithermal environment. On the other hand, Craig Leitch, in his petrographic report on the 2 drill core samples from hole PG-88-2 (see appendix V), argues that the hydrothermal regime for the Goddell Structure may be upper mesothermal. For instance, a quartz-carbonate vein cross-cutting an andesite dyke was analyzed by polished thin section. This vein possessed a "whispy" texture characteristic of the mesothermal environment. Also, the presence within this vein of abundant trails of secondary/pseudosecondary fluid inclusions crossing the grains, along with the presence of a few larger (5 micron) fluid inclusions with possible 3-phase

(CO2) compositions, indicate an upper mesothermal environment. Clearly, a more detailed study will be required in order to determine the exact hydrothermal environment associated with the Goddell Structure.

## RECOMMENDATIONS

It is recommended that the following work be carried out on the Goddell Project in the future:

1) Surveying, for the purpose of tieing the existing grid located on Goddell Gully, into the standardized U.T.M. coordinate system.

2) Detailed mapping at 1:500 scale of the Goddell Gully and surrounding area, in order to gain a clearer picture of the surficial geology.

3) Petrographic study of more drill core samples in order to gain a better understanding of the metallogeny, mineralogy, alteration and hydrothermal regime associated with the Goddell Structure.

4) Installation of a grid in the Wheaton River Valley floor, and on strike with the Goddell Structure. Subsequently, geophysical surveys (E.M. and V.L.F.) should be carried out on this grid, to determine a possible western extension to the Goddell Structure.

5) Surface diamond drilling of 2 or 3 holes in order to determine the following:
   (a) to confirm the lateral extension of the andesite dyke swarm ore shoot of zone 2.
   (b) to test whether or not one or more ore shoots exist at depth in zone 2, at elevations below that of the present ore shoot.
   (c) to test the amount of Au mineralization in zone 1, at elevations below that which has already been tested (ie: below the 878.9 m elevation).

6) Upon the success of the diamond drilling mentioned above, underground access to the orebody should be carried out. This underground access will permit precise definition of the orebody via underground tunnelling and diamond drilling.

7) If underground access is obtained, a feasibility study, including a preliminary ore reserve estimate may be carried out.

Respectfully submitted,

John Baril.

JOHN F. BARIL, B.Sc.

## REFERENCES


Bostock, H.S. 1957 — Selected Field Reports of the Geological Survey of Canada; Yukon Territory; 1898 to 1933 : G.S.C. Memoir 284

Coster, Ian P.D.A. March 24, 1988 — Report on the Geology, Geophysics, Trenching and Diamond Drilling of the POP CLAIMS (POP 1-14, 15-70, 71-104, 101fr-116fr, 117-122 mineral claims) : Private company report for Skukum Ventures Inc./Berglynn Resources Inc.

Doherty, R. Allen May 1986a — Soil Geochemical Survey on the POP 15-70 and TECH 1-40 Mineral Claims : Assessment Report by Aurum Geological Consultants Inc. for Berglynn Resources Inc.

Doherty, R. Allan May 14, 1986b — Preliminary Geological Evaluation on the POP Claim Group : Private report by Aurum Geological Consultants Inc. for Berglynn Resources Inc.

Doherty, R. Allen Aug. 24, 1986c — Summary Report of Field Activities on the POP property : Private report by Aurum Geological Consultants Inc. for Berglynn Resources Inc.

Garagan, T. Apr., 1987 — Summary Report on the Wheaton Gold Property : Skukum Ventures Inc./ Berglynn Resources Inc. - Engineering report for Skukum Ventures Inc.

Holcepec, F. 1974 — Report on the POP 1-14 Mineral Claims, Whitehorse Mining District, Y.T. : Private company report for Belmoral Mines Ltd. (NPL).

Holcepec, F. 1976 — Geological, Geophysical and Evaluation Report on the POP, DIANNE, and CARBON Claim Group, Wheaton River District : Private report by Agilis Engineering Ltd. for Con-Am Resources Inc.

Holcepec, F. Apr., 1986 — Report on the DIANNE 1-8 Mineral Claims, Wheaton River District, Yukon : for Con-Am Resources Ltd.

## REFERENCES CONTINUED


Hulstein, Roger
Apr. 7, 1986
Geological, Geochemical and Air Photo Interpretation Report on the POP 71-104 Claims : Assessment Report by Aurum Geological Consultants Inc. for Berglynn Resources Inc.

Leitch, Craig H.B.
Oct. 17, 1988
Petrographic Report on Two Drill Core Samples : Private Report by Craig Leitch of the University of British Columbia for Skukum Gold Inc./Berglynn Resources Inc.

Morin, J.A.
1982
Elemental Distribution in Selected Yukon Gold Silver Deposits : in Precious Metals in the Northern Cordillera; The Association of Exploration Geochemists.

Robertson, R.C.R.
Mar., 1987
Assessment Report; Geology and Geochemistry (POP 23-70); Adit Rehabilitation and Sampling (POP 10); Backhoe Trenching and Sampling (POP 25, 26, 27, 49) : for Berglynn Resources Inc.

Strain, D.M.
1986
Report on the Backhoe Trenching Program on the POP Mineral Claims : Private report for Berglynn Resources Inc.

Wheeler, J.O.
1961
Whitehorse Map Area, Yukon Territory, 105 D; Geological Survey of Canada, Memoir 312.

# APPENDIX I

PERSONNEL

## PERSONNEL

TERRY ELLIOT - Senior Geologist

STEPHEN MARKELL - Chief Geologist

DAVID STRAIN - Project Geologist

JOHN BARIL - Geologist

MARK NEVIN - Core Splitter and Helper

D.W. COATS ENTERPRISES LTD. - Diamond Drilling Contractor
(numerous employees)

TRANS NORTH TURBO AIR - Helicopter Support
Pilot: Spring Harrison

M.J. MOREAU ENTERPRISES LTD. - Diamond Drill Pad Blasting
(3 blasters)

# APPENDIX II

## ANALYTICAL RESULTS FROM DIAMOND DRILLING

BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD. WHITEHORSE, YUKON Y1A 2V1 PHONE: (403) 667-6523

Recorded

# Certificate of Analysis

TO Skukum Gold Inc.

Proj. 2a (POP - GOODELL)

REPORT NO. W88-7910

DATE Sept 19, 1988

I hereby certify that the following are the results of analyses made by us upon the herein described drill core samples

| MARKED | oz/ton Au | oz/ton Ag |
|---|---|---|
| 59726 ✓ | 0.01 | 0.18 |
| 59727 ✓ | L0.01 | 0.02 |
| 59728 ✓ | L0.01 | 0.04 |
| 59729 ✓ | L0.01 | 0.03 |
| 59730 ✓ | L0.01 | 0.08 |
| 59731 ✓ | L0.01 | L0.01 |
| 59732 ✓ | L0.01 | L0.01 |
| 59733 ✓ | L0.01 | L0.01 |
| 59734 ✓ | 0.01 | 0.02 |
| 59735 ✓ | L0.01 | 0.05 |
| 59736 ✓ | L0.01 | 0.02 |
| 59737 ✓ | L0.01 | L0.01 |
| 59738 ✓ | L0.01 | 0.02 |

PG-88-1

BONDAR-CLEGG & COMPANY LTD.

BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD. WHITEHORSE, YUKON Y1A 2V1 PHONE: (403) 667-6623

Recorded

# Certificate of Analysis

TO Skukum Gold Inc.

Proj. #2a

REPORT NO. W88-7918

DATE Sept 21, 1988

I hereby certify that the following are the results of analyses made by us upon the herein described drill core samples

| MARKED | | oz/ton Au | oz/ton Ag | |
|---|---|---|---|---|
| PG-88-1 | 59739 ✓ | 0.03 | 0.06 | |
| | 59740 ✓ | L0.01 | 0.06 | |
| | 59741 ✓ | L0.01 | 0.02 | |
| | * 59742 ✓ | 0.17 | 0.04 | * |
| | 59743 ✓ | L0.01 | 0.01 | |
| | 59744 ✓ | L0.01 | L0.01 | |
| | 59745 ✓ | 0.05 | 0.01 | |
| | 59746 ✓ | L0.01 | 0.03 | |

BONDAR-CLEGG & COMPANY LTD.

SEP-21-88 WED 12:11 URENI KEG WHITEHORSE P.02/03

BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 2V1 PHONE: (403) 667-6523

Recorded

# Certificate of Analysis

TO Skukum Gold Inc.

Proj. #2A

REPORT NO. W88-7931

DATE Sept 27, 1988

I hereby certify that the following are the results of analyses made by us upon the herein described drill core samples

| MARKED | oz/ton Au | oz/ton Ag |
|---|---|---|
| 59658 ✓ | 0.02 | 0.13 |
| 59659 | 0.30 | 0.17 |
| 59660 | 0.16 | 0.01 |
| 59661 ✓ | L0.01 | 0.02 |
| 59662 ✓ | 0.01 | 0.03 |
| 59663 | 0.20 | 0.15 |
| 59664 ✓ | L0.01 | 0.01 |
| 59665 ✓ | L0.01 | 0.02 |
| 59666 ✓ | 0.01 | 0.04 |
| 59667 ✓ | L0.01 | 0.03 |
| 59668 ✓ | L0.01 | L0.01 |
| 59669 | 0.15 | 0.29 |

88-PG 2

BONDAR-CLEGG & COMPANY LTD.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CRUSHED CORE -100 MESH AU BY FIRE ASSAY FROM 1 A.T.

DATE RECEIVED: SEP 30 1988 DATE REPORT MAILED: Oct 4/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A File # 88-4909 Page 1

| SAMPLE# | Cu PPM | Pb PPM | Zn PPM | Ag PPM | As PPM | SAMPLE WT GM | AU-100 OZ/T | NATIVE AU MG | AVG. OZ/T |
|---|---|---|---|---|---|---|---|---|---|
| C 59651 | 20 | 16 | 163 | 1.0 | 2137 | 650 | .135 | ND | .135 |
| C 59652 | 20 | 19 | 149 | 1.8 | 5084 | 650 | .171 | ND | .171 |
| C 59653 | 23 | 34 | 286 | 1.6 | 4344 | 650 | .153 | ND | .153 |
| C 59654 | 14 | 41 | 193 | 1.6 | 387 | 670 | .045 | ND | .045 |
| C 59655 | 13 | 37 | 173 | 1.5 | 571 | 600 | .103 | ND | .103 |
| C 59656 | 8 | 67 | 347 | .9 | 6319 | 870 | .050 | ND | .050 |
| C 59657 | 15 | 96 | 449 | 4.8 | 5604 | 650 | .084 | ND | .084 |
| C 59659 | 49 | 35 | 297 | 3.7 | 12233 | 710 | .450 | ND | .450 |
| C 59660 | 15 | 17 | 146 | .6 | 10646 | 840 | .226 | ND | .226 |
| C 59663 | 57 | 54 | 128 | 3.4 | 7611 | 650 | .287 | ND | .287 |
| C 59669 | 17 | 18 | 197 | .7 | 5310 | 620 | .183 | ND | .183 |
| C 59742 | 33 | 47 | 300 | 1.2 | 13613 | 520 | .210 | ND | .210 |

88. PG2

88. PG1

Recorded

Recorded

SKUKUM GOLD INC. PROJECT 2A FILE # 88-4909 Page 2

88-PG2

| SAMPLE# | Cu PPM | Pb PPM | Zn PPM | Ag PPM | As PPM | Au* PPB |
|---|---|---|---|---|---|---|
| C 59658 | 64 | 70 | 159 | 5.5 | 3134 | 1340 |
| C 59661 | 122 | 14 | 779 | 1.2 | 6155 | 62 |
| C 59662 | 28 | 19 | 104 | .6 | 7101 | 520 |
| C 59664 | 28 | 10 | 150 | .2 | 4539 | 55 |
| C 59665 | 21 | 17 | 127 | .3 | 8762 | 95 |
| C 59666 | 62 | 65 | 231 | .5 | 6452 | 390 |
| C 59667 | 54 | 28 | 97 | .6 | 4445 | 18 |
| C 59668 | 21 | 17 | 130 | .1 | 5101 | 33 |

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 7 1988
DATE REPORT MAILED: Oct. 14/88

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CRUSHED CORE. AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. AG** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: C. Leong. D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5065 Page 1

| SAMPLE# | Cu PPM | Pb PPM | Zn PPM | As PPM | Sb PPM | Au* PPB | Ag** OZ/T |
|---|---|---|---|---|---|---|---|
| 59670 | 44 | 48 | 96 | 3260 | 200 | 1810 | .05 |
| 59671 | 36 | 46 | 123 | 3137 | 72 | 2330 | .04 |
| 59672 | 45 | 15 | 77 | 2863 | 47 | 1210 | .13 |
| 59674 | 69 | 28 | 80 | 2604 | 63 | 92 | .05 |
| 59675 | 164 | 46 | 253 | 2387 | 212 | 980 | .30 |
| 59678 | 29 | 14 | 95 | 2969 | 53 | 310 | .04 |
| 59681 | 3 | 7 | 51 | 1731 | 19 | 82 | .01 |
| STD C/AU-R | 58 | 38 | 132 | 42 | 19 | 490 | - |

88-PG2

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CRUSHED CORE -100 MESH AU BY FIRE ASSAY FROM 1 A.T.

DATE RECEIVED: OCT 7 1988 DATE REPORT MAILED: Oct 14/88 ASSAYER C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A File # 88-5065 Page 2

88-PG2

| SAMPLE# | Cu PPM | Pb PPM | Zn PPM | As PPM | Sb PPM | Ag** OZ/T | SAMPLE WT GM | AU-100 OZ/T | NATIVE AU MG | AVG. OZ/T |
|---|---|---|---|---|---|---|---|---|---|---|
| 59673 ✓ | 29 | 40 | 600 | 5037 | 2301 | .08 | 1100 | .170 | ND | .170 |
| 59676 ✓ | 43 | 21 | 147 | 3667 | 1315 | .09 | 1060 | .143 | ND | .143 |
| 59677 ✓ | 102 | 61 | 307 | 7318 | 4209 | .57 | 1070 | .610 | ND | .610 |
| 59679 ✓ | 9 | 12 | 94 | 5462 | 1046 | .03 | 1050 | .540 | ND | .540 |
| 59680 ✓ | 10 | 13 | 651 | 7262 | 322 | .02 | 900 | .510 | ND | .510 |

Assay required for correct result for Sb >1000 ppm.

Recorded

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 13 1988
DATE REPORT MAILED: Oct. 17. 1988

# GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY. B. Chan . D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5179

| SAMPLE# | Cu PPM | Pb PPM | Zn PPM | Ag PPM | As PPM | Au* PPB |
|---|---|---|---|---|---|---|
| C 59696 | 4 | 23 | 36 | .1 | 293 | 118 |
| C 59697 | 11 | 10 | 43 | .2 | 264 | 75 |
| C 59698 | 4 | 8 | 36 | .1 | 33 | 2 |
| C 59699 | 14 | 14 | 53 | .1 | 241 | 25 |
| C 59700 | 4 | 16 | 60 | .1 | 160 | 67 |
| C 59715 | 3 | 25 | 38 | .1 | 911 | 8 |
| C 59716 | 3 | 34 | 42 | .1 | 1750 | 9 |
| C 59717 | 3 | 31 | 47 | .1 | 893 | 23 |
| C 59718 | 19 | 165 | 491 | 1.1 | 156 | 440 |
| C 59719 | 39 | 25 | 94 | .1 | 23 | 3 |
| C 59720 | 40 | 41 | 98 | .1 | 9 | 1 |
| C 59721 | 48 | 56 | 56 | .2 | 14 | 2 |
| C 59751 | 4 | 11 | 52 | .1 | 66 | 34 |
| C 59752 | 122 | 13 | 105 | 1.0 | 19 | 5 |
| STD C/AU-R | 58 | 41 | 132 | 6.8 | 38 | 470 |

PG-88-2

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 13 1988
DATE REPORT MAILED: Oct 17/88

# GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY. C. Leong D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 3 FILE # 88-5180

88-P13

| SAMPLE# | Cu PPM | Pb PPM | Zn PPM | Ag PPM | As PPM | Au* PPB |
|---|---|---|---|---|---|---|
| C 59753 | 32 | 97 | 226 | 1.1 | 3164 | 910 |
| C 59754 | 114 | 174 | 296 | 1.8 | 361 | 88 |
| C 59755 | 50 | 87 | 493 | 1.1 | 233 | 490 |
| C 59756 | 12 | 13 | 48 | .1 | 11 | 2 |
| C 59757 | 32 | 28 | 74 | .3 | 11 | 4 |
| C 59758 | 6 | 20 | 117 | .2 | 1061 | 250 |
| C 59759 | 9 | 9 | 46 | .1 | 11 | 12 |
| C 59760 | 16 | 47 | 75 | .3 | 690 | 80 |
| C 59761 | 9 | 20 | 104 | .7 | 1369 | 1260 |
| C 59762 | 27 | 44 | 112 | 3.6 | 573 | 880 |
| C 59763 | 8 | 17 | 92 | .5 | 191 | 1360 |
| C 59764 | 6 | 11 | 43 | .3 | 62 | 210 |
| C 59765 | 9 | 26 | 108 | 1.0 | 565 | 1220 |
| C 59766 | 4 | 10 | 35 | .1 | 71 | 51 |
| C 59767 | 41 | 1695 | 7702 | 35.8 | 1120 | 6350 |
| STD C/AU-R | 63 | 43 | 132 | 6.8 | 41 | 530 |

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 17 1988
DATE REPORT MAILED: Oct 20/88.

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 CRUSHED CORE P2 CORE PULP HG BY FLAMLESS AA. AG** + AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5239 Page 1

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| C 59682 | 2 | 41 | 1474 | 11 | 2 | 110 | .01 | .001 |
| C 59683 | 42 | 410 | 2405 | 81 | 2 | 830 | .06 | .092 |
| C 59684 | 19 | 45 | 459 | 14 | 2 | 150 | .01 | .002 |
| C 59685 | 41 | 111 | 794 | 16 | 2 | 360 | .01 | .007 |
| C 59686 | 30 | 70 | 180 | 24 | 2 | 220 | .01 | .002 |
| C 59687 | 19 | 45 | 468 | 19 | 2 | 170 | .02 | .001 |
| C 59688 | 13 | 43 | 472 | 10 | 2 | 180 | .02 | .001 |
| C 59689 | 10 | 52 | 12 | 8 | 2 | 70 | .01 | .001 |
| C 59690 | 14 | 45 | 175 | 12 | 2 | 160 | .01 | .001 |
| C 59691 | 30 | 60 | 661 | 41 | 2 | 130 | .03 | .003 |
| C 59692 | 45 | 158 | 288 | 602 | 2 | 380 | .04 | .012 |
| C 59693 | 31 | 187 | 96 | 160 | 2 | 400 | .02 | .004 |
| C 59694 | 20 | 212 | 568 | 50 | 2 | 520 | .02 | .006 |
| C 59695 | 17 | 92 | 1858 | 48 | 2 | 230 | .03 | .012 |
| STD C | 40 | 134 | 42 | 16 | 23 | 1300 | - | - |

88-PG2

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 17 1988
DATE REPORT MAILED: Oct. 21/88

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA. AG** & AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5238 Page 1

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| C 59768 | 20 | 102 | 1302 | 183 | 2 | 240 | .03 | .032 |
| C 59769 | 42 | 157 | 1436 | 647 | 2 | 380 | .04 | .029 |
| C 59770 | 96 | 1618 | 1754 | 7172 | 2 | 3000 | .35 | .085 |
| C 59771 | 34 | 192 | 1112 | 123 | 4 | 180 | .06 | .016 |
| C 59772 | 112 | 192 | 65 | 186 | 3 | 550 | .09 | .001 |
| C 59773 | 27 | 91 | 299 | 64 | 2 | 130 | .01 | .002 |
| C 59774 | 15 | 106 | 1881 | 85 | 2 | 250 | .06 | .001 |
| C 59775 | 18 | 131 | 7082 | 226 | 3 | 120 | .01 | .001 |
| C 59776 | 20 | 88 | 1632 | 35 | 2 | 130 | .02 | .001 |
| C 59777 | 14 | 121 | 4472 | 31 | 2 | 230 | .01 | .019 |
| C 59778 | 35 | 135 | 5542 | 80 | 5 | 380 | .09 | .023 |
| C 59779 | 29 | 168 | 7798 | 30 | 2 | 270 | .02 | .095 |
| C 59780 | 17 | 127 | 3630 | 28 | 5 | 140 | .02 | .001 |
| C 59781 | 12 | 94 | 1697 | 62 | 2 | 290 | .01 | .001 |
| C 59782 | 9 | 151 | 324 | 47 | 2 | 130 | .01 | .001 |
| C 59783 | 17 | 149 | 3752 | 30 | 2 | 160 | .01 | .009 |
| C 59784 | 19 | 89 | 5086 | 19 | 2 | 270 | .02 | .219 |
| C 59785 | 14 | 184 | 16514 | 92 | 2 | 1200 | .07 | .725 |
| C 59786 | 12 | 130 | 7370 | 19 | 2 | 560 | .01 | .010 |
| C 59787 | 14 | 77 | 637 | 8 | 2 | 310 | .01 | .006 |
| C 59788 | 11 | 323 | 15031 | 34 | 2 | 1900 | .07 | .432 |
| C 59791 | 5 | 356 | 17011 | 43 | 2 | 2400 | .11 | 1.650 |
| C 59792 | 4 | 210 | 7805 | 32 | 2 | 1500 | .05 | .430 |
| STD C | 38 | 132 | 42 | 16 | 23 | 1300 | - | - |

88-P63

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 17 1988
DATE REPORT MAILED: Oct. 21/88.

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA, AG** + AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC PROJECT 2A FILE # 88-5240

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| 88-P63 A 59559 | 52 | 394 | 3738 | 819 | 2 | 400 | .09 | .056 |
| A 59560 | 68 | 276 | 3031 | 1315 | 2 | 330 | .11 | .074 |
| A 59561 | 19 | 142 | 1897 | 59 | 2 | 180 | .03 | .022 |
| 88-P62 C 59722 | 30 | 114 | 102 | 27 | 2 | 230 | .02 | .010 |
| C 59793 | 49 | 225 | 9606 | 5628 | 2 | 1900 | .21 | .468 |
| C 59794 | 52 | 942 | 20754 | 2447 | 2 | 8300 | .22 | 1.980 |
| C 59795 | 11 | 474 | 25338 | 72 | 2 | 3900 | .12 | 1.540 |
| C 59796 | 5 | 141 | 5716 | 41 | 2 | 540 | .02 | .014 |
| 88-P63 C 59797 | 166 | 170 | 6242 | 144 | 2 | 240 | .06 | .138 |
| C 59798 | 15 | 269 | 10984 | 55 | 2 | 650 | .05 | .700 |
| C 59799 | 27 | 213 | 3090 | 98 | 2 | 220 | .02 | .065 |
| C 59800 | 18 | 166 | 1381 | 193 | 2 | 160 | .03 | .011 |

- ASSAY REQUIRED FOR CORRECT RESULT for As > 1%

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE AS CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AN DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU** BY FIRE ASSAY FROM 1 A.T.

DATE RECEIVED: OCT 17 1988 DATE REPORT MAILED: Oct 21/88 SIGNED BY. . . . . D.TOYE, C.LEUNG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A File # 88-5238 Page 2

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | SAMPLE WT GM | AU-100 OZ/T | NATIVE AU MG | AVG. OZ/T |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 88-PG3 59769 ✓ | 2 | 85 | 2925 | 17 | 2 | 350 | .05 | 720 | .011 | ND | .011 |
| 59790 ✓ | 2 | 142 | 4732 | 32 | 2 | 880 | .07 | 740 | .179 | ND | .179 |

Recorded

NOV-18-88 FRI 11:07 OBI RES. MNGT. INC. P.06

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 6 1988
DATE REPORT MAILED: Oct. 24/88

# ASSAY CERTIFICATE

-100 MESH AU BY FIRE ASSAY FROM 1 A.T.
SAMPLE TYPE: REJECT

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT-2A FILE # 88-4909R

| SAMPLE# | Ag** OZ/T | SAMPLE WT GM | AU-100 OZ/T | NATIVE AU MG | AVG. OZ/T |
|---|---|---|---|---|---|
| C 59651 | .03 | 570 | .139 | ND | .139 |
| C 59652 | .05 | 600 | .164 | ND | .164 |
| C 59653 | .06 | 570 | .160 | ND | .160 |
| C 59654 | .05 | 530 | .044 | ND | .044 |
| C 59655 | .04 | 640 | .097 | ND | .097 |
| C 59656 | .02 | 720 | .048 | ND | .048 |
| C 59657 | .15 | 600 | .093 | ND | .093 |
| C 59659 | .15 | 620 | .382 | ND | .382 |
| C 59660 | .01 | 670 | .214 | ND | .214 |
| C 59663 | .12 | 600 | .291 | ND | .291 |
| C 59669 | .01 | 640 | .189 | ND | .189 |
| C 59742 | .02 | 600 | .222 | ND | .222 |

88-PG2

88-PG1

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 24 1988
DATE REPORT MAILED: Oct 25/88

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA. AG** + AU** BY FIRE ASSAY FROM 1 A.T.

SIGNED BY. C. Leong D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5376

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| C 59723 | 17 | 53 | 34 | 19 | 2 | 20 | .02 | .001 |
| C 59724 | 19 | 79 | 5 | 9 | 2 | 60 | .01 | .001 |
| C 59725 | 29 | 51 | 18 | 13 | 2 | 70 | .01 | .001 |
| C 59747 | 22 | 93 | 633 | 55 | 3 | 160 | .01 | .007 |
| C 59748 | 6 | 89 | 1886 | 41 | 2 | 110 | .02 | .006 |
| C 59749 | 19 | 105 | 547 | 24 | 2 | 130 | .02 | .004 |
| C 59750 | 38 | 57 | 301 | 32 | 2 | 100 | .01 | .001 |
| C 59554 | 178 | 193 | 680 | 87 | 2 | 260 | .03 | .001 |
| C 59555 | 91 | 198 | 156 | 50 | 2 | 350 | .03 | .001 |
| C 59556 | 21 | 69 | 584 | 34 | 2 | 130 | .01 | .011 |
| C 59557 | 46 | 66 | 1343 | 54 | 2 | 250 | .04 | .020 |
| C 59558 | 64 | 145 | 3721 | 97 | 2 | 700 | .05 | .069 |
| C 59562 | 9 | 55 | 26 | 5 | 2 | 120 | .02 | .001 |
| C 59563 | 8 | 53 | 20 | 11 | 2 | 460 | .01 | .001 |
| C 59581 | 23 | 62 | 872 | 80 | 2 | 50 | .01 | .002 |
| C 59582 | 56 | 291 | 3611 | 71 | 2 | 350 | .02 | .010 |
| C 59583 | 63 | 223 | 3753 | 67 | 2 | 300 | .01 | .017 |
| C 59584 | 45 | 142 | 592 | 36 | 2 | 260 | .01 | .002 |
| C 59585 | 83 | 285 | 1838 | 60 | 2 | 500 | .01 | .002 |
| STD C | 37 | 132 | 36 | 18 | 19 | 1300 | - | - |

88-P62
88-P63
88-P64

Attn: Dave Shaw

OCT 28 '88 19:25 ACME LABS Recorded 280 P01

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: OCT 25 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: Oct. 27/88.

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core MG BY FLAMELESS AA, AG** + AU** BY FIRE ASSAY FROM 1 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5418

f.g. aspy (blebs)

| SAMPLE# | | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T | |
|---|---|---|---|---|---|---|---|---|---|---|
| C 59564 | And. | 14 | 157 | 8 | 3 | 2 | 20 | .01 | .001 | 967.0'-970.0' |
| C 59565 | dyke | 15 | 116 | 7 | 27 | 2 | 100 | .01 | .001 | 970.0'-973.0' |
| C 59566 | | 22 | 95 | 9 | 8 | 5 | 30 | .01 | .001 | 973.0'-974.2' |
| C 59567 | 15-20% | 17 | 59 | 628 | 13 | 2 | 980 | .04 | .018 | 982.9'-986.5' |
| C 59568 | py in | 20 | 51 | 1168 | 14 | 3 | 600 | .03 | .008 | 986.5'-990.0' |
| C 59569 | Q.Mem. | 119 | 469 | 944 | 17 | 2 | 4600 | .04 | .003 | 990.0-993.2' |
| C 59570 | Q.M. | 42 | 212 | 522 | 5 | 2 | 780 | .06 | .039 | 1023.5'-1026.1' |
| C 59571 | AND. DYKE | 112 | 196 | 2878 | 28 | 4 | 760 | .20 | .077 | 1026.1'-1028.9' |
| C 59586 | | 32 | 88 | 555 | 51 | 2 | 160 | .02 | .010 | 1174.6'-1179.6' |
| C 59587 | | 11 | 73 | 376 | 36 | 3 | 170 | .01 | .022 | 1179.6'-1184.1' |
| C 59588 | | 28 | 51 | 106 | 56 | 2 | 60 | .01 | .001 | 1184.1'-1186.9' |
| C 59589 | | 23 | 54 | 832 | 70 | 3 | 60 | .03 | .001 | 1186.9'-1189.6' |
| C 59590 | | 39 | 125 | 1572 | 77 | 2 | 210 | .02 | .008 | 1189.6'-1190.7' |
| C 59591 | | 18 | 53 | 575 | 70 | 4 | 110 | .01 | .005 | 1190.7'-1194.0' |
| C 59592 | | 21 | 113 | 310 | 314 | 2 | 290 | .02 | .005 | 1194.0'-1196.6' |
| C 59593 | | 39 | 94 | 492 | 670 | 2 | 160 | .04 | .011 | 1196.6'-1200.2' |
| C 59594 | | 18 | 36 | 678 | 85 | 2 | 150 | .01 | .003 | 1200.2'-1205.3' |
| C 59595 | | 24 | 41 | 140 | 40 | 2 | 80 | .01 | .001 | 1205.3-1210.4' |
| STD C | | 38 | 132 | 40 | 20 | 19 | 1300 | - | - | |

S. of N-QFP 70'4'71

88-P63

4 cm. wide Q-Sz bla stringer Minor Sl.

60% Py

20% Py

88-P64

88-P64

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 24 1988
DATE REPORT MAILED: Oct. 27/88.

# ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1 A.T.

SIGNED BY. C. Leong D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT-2A FILE # 88-5065R

88-962

| SAMPLE# | AU** oz/t |
|---|---|
| 59670 ✓ | .062 |
| 59671 ✓ | .070 |
| 59672 ✓ | .033 |
| 59674 ✓ | .003 |
| 59675 ✓ | .030 |
| 59678 ✓ | .011 |
| 59681 ✓ | .004 |

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 25 1988
DATE REPORT MAILED: Oct. 27/88.

# ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** AND AG** BY FIRE ASSAY FROM 1 A.T.

SIGNED BY..... C. Leong D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 3 FILE # 88-5180R

88-863

| SAMPLE# | Ag** OZ/T | Au** OZ/T |
|---|---|---|
| C 59753 | .05 | .027 |
| C 59754 | .05 | .005 |
| C 59755 | .03 | .015 |
| C 59756 | .01 | .001 |
| C 59757 | .01 | .001 |
| C 59758 | .01 | .009 |
| C 59759 | .01 | .001 |
| C 59760 | .01 | .005 |
| C 59761 | .03 | .041 |
| C 59762 | .11 | .021 |
| C 59763 | .01 | .039 |
| C 59764 | .01 | .008 |
| C 59765 | .02 | .037 |
| C 59766 | .01 | .003 |
| C 59767 | 1.14 | .213 |

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 25 1988
DATE REPORT MAILED: Nov. 1/88

# ASSAY CERTIFICATE

-100 MESH AU BY FIRE ASSAY FROM 1 A.T.
SAMPLE TYPE: REJECT

SIGNED BY. . . . . D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT-2A FILE # 88-5240R

88-P63

| SAMPLE# | SAMPLE wt. gm | AU-100 oz/t | NATIVE Au mg | AVG. oz/t |
|---|---|---|---|---|
| C 59793 | 1150 | .472 | ND | .472 |
| C 59794 | 1930 | 2.030 | ND | 2.030 |
| C 59795 | 1360 | 1.550 | ND | 1.550 |
| C 59798 | 760 | .724 | ND | .724 |

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 25 1988
DATE REPORT MAILED: Nov. 1/88

# ASSAY CERTIFICATE

-100 MESH AU BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: REJECT

SIGNED BY C. Leong D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5238R

88-P63

| SAMPLE# | SAMPLE wt. gm | AU-100 oz/t | NATIVE Au mg | AVG. oz/t |
|---|---|---|---|---|
| ✓C 59784 | 970 | .203 | ND | .203 |
| ✓C 59785 | 1130 | .766 | ND | .766 |
| ✓C 59788 | 460 | .411 | ND | .411 |
| ✓C 59791 | 820 | 1.908 | ND | 1.908 |
| ✓C 59792 | 1000 | .338 | ND | .338 |

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 28 1988
DATE REPORT MAILED: Nov. 1/88

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA, AG** & AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5508

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| 88-P63 | | | | | | | | |
| C 59572 | 53 | 226 | 16 | 17 | 2 | 140 | .04 | .001 |
| C 59573 | 36 | 186 | 3 | 34 | 2 | 380 | .02 | .001 |
| C 59574 | 26 | 147 | 8 | 76 | 2 | 1600 | .02 | .001 |
| C 59575 | 62 | 59 | 2 | 30 | 2 | 820 | .02 | .001 |
| C 59576 | 29 | 52 | 345 | 14 | 2 | 280 | .01 | .004 |
| C 59577 | 38 | 186 | 6 | 38 | 2 | 820 | .02 | .001 |
| C 59578 | 30 | 35 | 1154 | 61 | 2 | 430 | .05 | .009 |
| C 59579 | 20 | 55 | 410 | 105 | 2 | 220 | .01 | .007 |
| C 59580 | 44 | 36 | 809 | 59 | 2 | 250 | .04 | .032 |
| C 59596 | 26 | 44 | 54 | 20 | 2 | 130 | .01 | .001 |
| 88-P64 | | | | | | | | |
| C 59597 | 24 | 52 | 648 | 28 | 2 | 120 | .02 | .003 |
| C 59598 | 45 | 178 | 295 | 123 | 2 | 360 | .02 | .011 |
| C 59599 | 16 | 69 | 102 | 65 | 2 | 170 | .02 | .003 |
| C 59600 | 8 | 28 | 5 | 9 | 3 | 40 | .01 | .001 |
| C 59601 | 15 | 70 | 30 | 13 | 2 | 60 | .01 | .001 |
| C 59602 | 77 | 289 | 241 | 55 | 2 | 380 | .10 | .027 |
| STD C | 40 | 132 | 41 | 16 | 21 | 1300 | - | - |

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 28 1988
DATE REPORT MAILED: Nov. 1/88...

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H20 AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA. AG** + AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5510

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| C 59603 | 8 | 127 | 29 | 2 | 2 | 20 | .02 | .001 |
| C 59604 | 3 | 66 | 67 | 3 | 2 | 40 | .03 | .001 |
| C 59605 | 5 | 99 | 164 | 2 | 2 | 30 | .01 | .001 |
| C 59606 | 9 | 105 | 101 | 2 | 2 | 40 | .02 | .001 |
| C 59607 | 2 | 89 | 35 | 2 | 3 | 30 | .03 | .001 |
| C 59608 | 6 | 97 | 66 | 2 | 2 | 70 | .02 | .001 |
| C 59609 | 7 | 102 | 9 | 2 | 2 | 30 | .01 | .001 |
| C 59610 | 9 | 87 | 11 | 2 | 2 | 20 | .01 | .001 |
| C 59611 | 6 | 88 | 17 | 2 | 2 | 30 | .01 | .001 |
| C 59612 | 5 | 102 | 5 | 2 | 2 | 10 | .01 | .001 |
| C 59613 | 7 | 108 | 9 | 2 | 2 | 40 | .02 | .001 |
| C 59614 | 4 | 75 | 19 | 2 | 2 | 20 | .01 | .001 |
| C 59615 | 8 | 80 | 123 | 2 | 6 | 60 | .01 | .001 |
| C 59616 | 2 | 90 | 94 | 2 | 2 | 30 | .01 | .001 |
| C 59617 | 3 | 78 | 8 | 2 | 2 | 70 | .01 | .001 |
| C 59618 | 12 | 95 | 28 | 2 | 2 | 50 | .01 | .001 |
| C 59619 | 8 | 95 | 6 | 2 | 2 | 10 | .02 | .001 |
| C 59620 | 5 | 88 | 6 | 2 | 4 | 20 | .01 | .001 |
| C 59621 | 10 | 90 | 79 | 2 | 3 | 20 | .01 | .001 |
| C 59622 | 14 | 98 | 734 | 2 | 2 | 90 | .01 | .003 |
| C 59623 | 10 | 91 | 62 | 2 | 3 | 40 | .01 | .001 |
| C 59837 | 15 | 116 | 10 | 6 | 2 | 120 | .02 | .001 |
| C 59838 | 6 | 155 | 8 | 2 | 3 | 260 | .01 | .001 |
| STD C | 37 | 132 | 37 | 17 | 20 | 1400 | - | - |

88-P64

88-P61

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: OCT 28 1988
DATE REPORT MAILED: Nov. 1/88

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA, AG** + AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5509

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| C 59624 | 4 | 45 | 1991 | 9 | 2 | 210 | .04 | .001 |
| C 59625 | 8 | 98 | 763 | 8 | 2 | 280 | .03 | .001 |
| C 59626 | 6 | 105 | 866 | 18 | 3 | 80 | .03 | .001 |
| C 59627 | 8 | 71 | 922 | 5 | 2 | 90 | .03 | .001 |
| C 59628 | 11 | 100 | 2196 | 22 | 2 | 100 | .05 | .001 |
| C 59629 | 3 | 60 | 1556 | 51 | 2 | 430 | .03 | .001 |
| C 59630 | 3 | 52 | 449 | 30 | 2 | 150 | .04 | .001 |
| C 59631 | 8 | 72 | 1436 | 25 | 2 | 180 | .01 | .001 |
| C 59632 | 5 | 50 | 1132 | 39 | 2 | 180 | .05 | .001 |
| C 59633 | 5 | 65 | 1202 | 73 | 2 | 130 | .02 | .001 |
| C 59634 | 6 | 79 | 2284 | 24 | 2 | 140 | .01 | .001 |
| C 59635 | 5 | 86 | 2273 | 29 | 2 | 130 | .02 | .005 |
| C 59636 | 4 | 67 | 1561 | 14 | 2 | 110 | .03 | .004 |
| C 59839 | 21 | 135 | 9 | 17 | 3 | 320 | .03 | .001 |
| C 59840 | 11 | 56 | 31 | 12 | 2 | 500 | .01 | .001 |

88-P63

88-P61

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 3 1988
DATE REPORT MAILED: Nov. 7/88

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H20 AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA, AG** + AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5636

88-P61

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| C 59841 | 49 | 126 | 13 | 27 | 2 | 230 | .01 | .001 |
| C 59842 | 65 | 96 | 775 | 15 | 2 | 90 | .02 | .001 |
| C 59843 | 35 | 47 | 273 | 13 | 2 | 100 | .01 | .001 |
| C 59844 | 60 | 123 | 1207 | 98 | 2 | 250 | .01 | .001 |
| C 59845 | 94 | 342 | 10 | 52 | 2 | 460 | .01 | .001 |
| C 59846 | 18 | 85 | 8 | 36 | 2 | 410 | .01 | .001 |
| C 59847 | 15 | 68 | 8 | 35 | 2 | 1500 | .01 | .001 |
| C 59848 | 27 | 88 | 185 | 45 | 2 | 260 | .01 | .001 |
| C 59849 | 29 | 67 | 77 | 20 | 2 | 140 | .02 | .001 |
| C 59850 | 74 | 113 | 861 | 23 | 2 | 130 | .01 | .001 |
| STD C | 45 | 133 | 41 | 19 | 19 | 1300 | - | - |

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 9 1988
DATE REPORT MAILED: Nov. 15/88

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA, AG** + AU** BY FIRE ASSAY FROM 1/2 A.T. AU** BY FIRE ASSAY FROM 1 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5740

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| C 59637 | 14 | 30 | 8 | 15 | 2 | 70 | .01 | .001 |
| C 59638 | 11 | 27 | 12 | 14 | 2 | 30 | .01 | .001 |
| C 59639 | 5 | 37 | 11 | 16 | 2 | 30 | .01 | .001 |
| C 59640 | 3 | 36 | 5 | 17 | 2 | 40 | .01 | .001 |
| C 59641 | 9 | 42 | 5 | 20 | 2 | 60 | .01 | .001 |
| C 59642 | 12 | 38 | 22 | 33 | 2 | 160 | .01 | .001 |
| C 59643 | 25 | 111 | 1922 | 64 | 2 | 230 | .01 | .016 |
| C 59644 | 236 | 267 | 999 | 39 | 2 | 830 | .06 | .001 |
| C 59645 | 202 | 31251✓ | 2853 | 62706✓ | 75 | 35000 | 1.63 | .684 |
| C 59646 | 90 | 432 | 7820 | 3296 | 2 | 880 | .08 | .080 |
| C 59647 | 8 | 178 | 5928 | 71 | 2 | 400 | .04 | .108 |
| C 59648 | 51 | 343 | 7105 | 1284 | 2 | 700 | .16 | .095 |
| C 59649 | 72 | 387 | 6976 | 107 | 4 | 780 | .07 | .089 |
| C 59650 | 252 | 176 | 533 | 201 | 2 | 510 | .10 | .006 |
| C 59901 | 20 | 52 | 22 | 45 | 2 | 110 | .01 | .001 |
| C 59902 | 104 | 78 | 195 | 58 | 2 | 220 | .01 | .001 |
| C 59903 | 128 | 65 | 612 | 101 | 2 | 150 | .03 | .011 |
| C 59904 | 148 | 121 | 1186 | 106 | 2 | 500 | .01 | .063 |
| C 59905 | 46 | 91 | 307 | 61 | 2 | 460 | .01 | .001 |
| C 59906 | 48 | 85 | 227 | 76 | 2 | 400 | .04 | .002 |
| C 59907 | 21 | 59 | 128 | 66 | 2 | 120 | .01 | .001 |
| C 59908 | 8 | 58 | 160 | 29 | 2 | 80 | .01 | .004 |
| C 59909 | 8 | 57 | 253 | 14 | 2 | 90 | .01 | .001 |
| C 59910 | 22 | 123 | 1815 | 90 | 2 | 430 | .04 | .001 |
| C 59911 | 14 | 65 | 131 | 28 | 2 | 130 | .01 | .001 |
| C 59912 | 10 | 66 | 263 | 22 | 2 | 40 | .01 | .001 |
| C 59913 | 5 | 99 | 59 | 5 | 2 | 60 | .01 | .001 |
| C 59914 | 4 | 42 | 29 | 4 | 2 | 120 | .01 | .001 |
| C 59915 | 7 | 108 | 13 | 3 | 2 | 30 | .01 | .001 |
| C 59916 | 7 | 72 | 9 | 5 | 2 | 40 | .01 | .001 |
| C 59917 | 7 | 109 | 21 | 4 | 2 | 160 | .01 | .001 |
| STD C | 41 | 134 | 41 | 16 | 20 | 1300 | - | - |

88-P63

✓ - ASSAY REQUIRED FOR CORRECT RESULT

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 14 1988
DATE REPORT MAILED: Nov. 17/88

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H20 AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA. AG** + AU** BY FIRE ASSAY FROM 1 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5795

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| C 59918 | 19 | 40 | 1197 | 10 | 2 | 460 | .01 | .008 |
| C 59919 | 44 | 104 | 255 | 17 | 2 | 560 | .01 | .001 |
| C 59920 | 32 | 95 | 64 | 15 | 2 | 280 | .01 | .001 |
| C 59921 | 17 | 218 | 9 | 23 | 2 | 450 | .01 | .001 |
| C 59922 | 18 | 119 | 25 | 55 | 2 | 1600 | .02 | .001 |
| C 59923 | 33 | 61 | 36 | 21 | 2 | 620 | .01 | .001 |
| C 59924 | 17 | 46 | 161 | 8 | 2 | 320 | .01 | .001 |
| C 59925 | 19 | 94 | 43 | 10 | 2 | 260 | .01 | .001 |
| C 59926 | 38 | 102 | 5 | 16 | 2 | 80 | .01 | .001 |
| C 59927 | 28 | 124 | 6 | 26 | 2 | 850 | .01 | .001 |
| C 59928 | 29 | 78 | 10 | 51 | 2 | 1200 | .01 | .001 |
| C 59929 | 4 | 52 | 2 | 20 | 2 | 280 | .01 | .001 |
| C 59930 | 5 | 52 | 4 | 29 | 2 | 820 | .01 | .001 |
| C 59931 | 18 | 42 | 6 | 11 | 2 | 220 | .01 | .001 |
| C 59932 | 45 | 124 | 4 | 51 | 2 | 360 | .01 | .001 |
| C 59933 | 11 | 55 | 13 | 39 | 2 | 270 | .01 | .001 |
| C 59934 | 28 | 123 | 115 | 39 | 2 | 210 | .02 | .001 |
| C 59935 | 79 | 111 | 106 | 22 | 2 | 330 | .02 | .001 |
| C 59936 | 19 | 52 | 31 | 16 | 2 | 300 | .01 | .001 |
| C 59937 | 45 | 197 | 53 | 38 | 2 | 500 | .01 | .001 |
| C 59938 | 103 | 331 | 28 | 88 | 2 | 540 | .02 | .001 |
| C 59939 | 19 | 59 | 19 | 8 | 2 | 200 | .01 | .001 |
| C 59940 | 32 | 61 | 130 | 27 | 2 | 210 | .02 | .001 |
| C 59941 | 33 | 36 | 263 | 17 | 2 | 90 | .01 | .001 |
| C 59942 | 39 | 39 | 1065 | 24 | 2 | 70 | .01 | .003 |
| C 59943 | 28 | 31 | 449 | 15 | 2 | 120 | .01 | .001 |
| STD C | 41 | 132 | 42 | 17 | 21 | 1400 | - | - |

88-P64

Recorded

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5239 Page 2

88-P62

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| ✓C 59681 | 3 | 44 | 1388 | 28 | 2 | 200 | .03 | .002 |
| ✓C 59682 | 7 | 41 | 1389 | 13 | 2 | 130 | .02 | .001 |
| ✓C 59683 | 44 | 399 | 2155 | 73 | 2 | 960 | .08 | .127 |
| ✓C 59684 | 13 | 42 | 437 | 17 | 3 | 110 | .02 | .001 |
| ✓C 59685 | 35 | 97 | 669 | 15 | 5 | 300 | .02 | .008 |
| ✓C 59686 | 21 | 64 | 167 | 24 | 2 | 170 | .01 | .001 |
| ✓C 59687 | 14 | 42 | 409 | 13 | 2 | 130 | .03 | .001 |
| ✓C 59688 | 19 | 39 | 434 | 11 | 2 | 140 | .04 | .001 |
| ✓C 59689 | 14 | 47 | 12 | 10 | 2 | 70 | .02 | .001 |
| ✓C 59690 | 14 | 38 | 165 | 11 | 2 | 130 | .02 | .002 |
| ✓C 59691 | 28 | 49 | 553 | 40 | 2 | 100 | .01 | .002 |
| ✓C 59692 | 40 | 145 | 255 | 584 | 2 | 350 | .06 | .011 |
| ✓C 59693 | 28 | 181 | 90 | 242 | 2 | 360 | .03 | .004 |
| ✓C 59694 | 8 | 199 | 487 | 46 | 2 | 450 | .03 | .005 |
| ✓C 59695 | 26 | 101 | 1765 | 48 | 2 | 250 | .05 | .013 |
| STD C | 38 | 133 | 42 | 16 | 22 | 1300 | - | - |

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 21 1988
DATE REPORT MAILED: Nov. 23/88.

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core HG BY FLAMLESS AA, AG** + AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5950

| SAMPLE# | Pb PPM | Zn PPM | As PPM | Sb PPM | Bi PPM | Hg PPB | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|---|
| C 38151 ✓ | 2 | 30 | 4 | 2 | 2 | 40 | .01 | .001 |
| C 38152 ✓ | 15 | 121 | 18 | 2 | 2 | 80 | .01 | .001 |
| C 38153 ✓ | 21 | 116 | 26 | 4 | 2 | 70 | .01 | .001 |
| C 38154 ✓ | 18 | 133 | 13 | 10 | 2 | 100 | .01 | .001 |
| C 38155 ✓ | 11 | 106 | 4 | 2 | 2 | 10 | .01 | .001 |
| C 38156 ✓ | 7 | 93 | 4 | 2 | 2 | 10 | .01 | .001 |
| C 38157 ✓ | 12 | 107 | 7 | 2 | 2 | 20 | .01 | .001 |
| C 38158 ✓ | 9 | 87 | 8 | 2 | 2 | 40 | .01 | .001 |
| C 38159 ✓ | 11 | 121 | 34 | 2 | 3 | 50 | .01 | .001 |
| C 38160 ✓ | 11 | 110 | 67 | 2 | 2 | 120 | .01 | .001 |
| C 38161 ✓ | 21 | 221 | 2633 | 60 | 2 | 560 | .06 | .140 |
| C 38162 ✓ | 10 | 96 | 678 | 15 | 2 | 90 | .01 | .001 |
| C 38163 ✓ | 28 | 82 | 1755 | 66 | 2 | 360 | .07 | .024 |
| C 59944 ✓ | 8 | 48 | 78 | 2 | 2 | 80 | .02 | .001 |
| C 59945 ✓ | 16 | 135 | 159 | 8 | 2 | 230 | .01 | .001 |
| C 59946 ✓ | 17 | 25 | 55 | 2 | 2 | 70 | .02 | .001 |
| C 59947 ✓ | 14 | 42 | 11 | 2 | 2 | 60 | .01 | .001 |
| C 59948 ✓ | 13 | 52 | 24 | 27 | 2 | 220 | .02 | .001 |
| C 59949 ✓ | 39 | 108 | 26 | 36 | 2 | 210 | .04 | .001 |
| C 59950 ✓ | 20 | 107 | 24 | 4 | 3 | 110 | .01 | .001 |
| STD C | 38 | 133 | 42 | 19 | 24 | 1300 | - | - |

88-P64

(Recorded)

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: JUN 21 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: June 28/88.

# GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H20 AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AG** + AU** BY FIRE ASSAY FROM 1/2 A.T. 87' HORSESHOE CORE

ASSAYER: C. Leong D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT-2A File # 88-2159

| SAMPLE# | Cu PPM | Pb PPM | Zn PPM | As PPM | Sb PPM | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|---|---|---|---|
| C 59951 | 14 | 10 | 69 | 11 | 2 | .03 | .001 |
| C 59952 | 4 | 26 | 273 | 3 | 2 | .02 | .007 |
| C 59953 | 11 | 23 | 92 | 6 | 2 | .02 | .001 |
| C 59954 | 68 | 32 | 127 | 5 | 2 | .05 | .015 |
| C 59955 | 16 | 11 | 54 | 9 | 2 | .01 | .001 |
| C 59956 | 15 | 12 | 47 | 11 | 2 | .01 | .003 |
| C 59957 | 15 | 19 | 76 | 3 | 2 | .06 | .001 |
| C 59958 | 3 | 24 | 69 | 27 | 3 | .02 | .001 |
| C 59959 | 1 | 22 | 73 | 14 | 2 | .03 | .001 |
| C 59960 | 2 | 23 | 17 | 9 | 2 | .02 | .001 |
| C 59961 | 10 | 13 | 129 | 8 | 2 | .01 | .001 |
| C 59962 | 20 | 22 | 117 | 4 | 2 | .06 | .001 |
| C 59963 | 9 | 18 | 113 | 8 | 2 | .05 | .001 |
| C 59964 | 12 | 18 | 161 | 2 | 2 | .01 | .001 |
| C 59965 | 11 | 15 | 235 | 2 | 2 | .01 | .001 |
| C 59966 | 28 | 17 | 177 | 2 | 2 | .01 | .001 |
| C 59967 | 7 | 35 | 271 | 5 | 2 | .03 | .001 |
| C 59968 | 6 | 77 | 720 | 2 | 2 | .07 | .001 |
| C 59969 | 29 | 122 | 466 | 2 | 2 | .05 | .001 |
| C 59970 | 19 | 35 | 97 | 2 | 2 | .04 | .001 |
| C 59971 | 6 | 13 | 87 | 2 | 2 | .04 | .001 |
| C 59972 | 9 | 13 | 78 | 2 | 2 | .02 | .001 |
| C 59973 | 11 | 5 | 47 | 2 | 2 | .03 | .001 |
| C 59974 | 9 | 11 | 54 | 7 | 2 | .01 | .001 |
| C 59975 | 41 | 8 | 74 | 16 | 2 | .06 | .001 |
| C 59976 | 8 | 34 | 76 | 61 | 5 | .03 | .003 |
| C 59977 | 7 | 35 | 72 | 35 | 2 | .04 | .004 |
| C 59978 | 4 | 32 | 76 | 26 | 2 | .04 | .001 |
| C 59979 | 4 | 31 | 62 | 15 | 3 | .05 | .008 |
| C 59980 | 32 | 24 | 61 | 22 | 2 | .08 | .005 |
| C 59981 | 14 | 15 | 68 | 13 | 2 | .03 | .001 |
| C 59982 | 9 | 32 | 48 | 28 | 3 | .08 | .049 |
| C 59983 | 10 | 25 | 74 | 11 | 2 | .05 | .001 |
| C 59984 | 14 | 34 | 39 | 19 | 5 | .07 | .005 |
| C 59985 | 8 | 33 | 38 | 13 | 2 | .02 | .002 |
| C 59986 | 3 | 25 | 17 | 2 | 2 | .04 | .001 |
| STD C | 59 | 40 | 132 | 40 | 16 | - | - |

87-PHS1 & 87-PHS2

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 14 1988
DATE REPORT MAILED: Nov. 18/88

# ASSAY CERTIFICATE

- SAMPLE TYPE: Core AU** AND AG** BY FIRE ASSAY FROM 1 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2a FILE # 88-5794

| | SAMPLE# | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|
| 87-PG1 | C 59801 ✓ | .04 | .001 |
| | C 59802 ✓ | .03 | .001 |
| | C 59803 ✓ | .07 | .001 |
| | C 59804 ✓ | .02 | .001 |
| | C 59805 ✓ | .03 | .001 |
| | C 59806 ✓ | .02 | .003 |
| | C 59807 ✓ | .03 | .001 |
| | C 59808 ✓ | .02 | .001 |
| | C 59809 ✓ | .01 | .001 |
| 87-PG4 | C 59810 ✓ | .01 | .001 |
| | C 59811 ✓ | .02 | .001 |
| | C 59812 ✓ | .01 | .001 |
| | C 59813 ✓ | .01 | .001 |
| | C 59814 ✓ | .03 | .001 |
| | C 59815 ✓ | .05 | .001 |
| | C 59816 ✓ | .02 | .004 |
| | C 59817 ✓ | .02 | .001 |
| | C 59818 ✓ | .09 | .001 |
| 87-PG5 | C 59819 ✓ | .04 | .001 |
| | C 59820 ✓ | .03 | .002 |

Recorded

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 21 1988
DATE REPORT MAILED: Nov. 23/88

# ASSAY CERTIFICATE

- SAMPLE TYPE: Core
AU** AND AG** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY. C. Leong. D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 2A FILE # 88-5949

| | SAMPLE# | Ag** OZ/T | Au** OZ/T |
|---|---|---|---|
| 87-PG5 | C 59821✓ | .06 | .001 |
| | C 59822✓ | .08 | .001 |
| | C 59823✓ | .07 | .001 |
| 87-PG6 | C 59824✓ | .09 | .001 |
| | C 59825✓ | .08 | .001 |
| 87-PG7 | C 59826✓ | .07 | .001 |
| | C 59827✓ | .04 | .001 |
| | C 59828✓ | .01 | .001 |
| | C 59829✓ | .06 | .001 |
| | C 59830✓ | .08 | .001 |
| | C 59831✓ | .05 | .001 |
| 87-PG9 | C 59832✓ | .07 | .001 |
| | C 59833✓ | .07 | .001 |
| | C 59834✓ | .07 | .001 |
| | C 59835✓ | .05 | .001 |
| | C 59836✓ | .03 | .001 |

# APPENDIX III

## TABLE 6: MINIMUM DIRECT DRILLING COSTS - ASSESSMENT BREAKDOWN

TABLE 6: MINIMUM DIRECT DRILLING COSTS - ASSESSMENT BREAKDOWN.

| HOLE | FEET OF CASING | CASING COST | FEET OF NQ CORE | COST OF NQ CORE | TOTAL COST FOR ASSESSMENT |
|---|---|---|---|---|---|
| PG-88-1 | 6 | $18.00 | 1273.0 | $22,914.00 | $22,932.00 |
| PG-88-2 | 2 | $ 6.00 | 1747.0 | $31,446.00 | $31,452.00 |
| PG-88-3 | 4 | $12.00 | 1767.0 | $31,806.00 | $31,818.00 |
| PG-88-4 | 12 | $60.00 | 1697.0 | $30,546.00 | $30,606.00 |
| | | | | TOTAL: | $116,808.00 |

NOTES TO TABLE 6 :

1) The above diamond drilling costs are based on the minimum, as laid out in the Yukon Quartz Mining Act. These costs are as follows:
   (a) Where the total length of the hole is 100 feet or more, and the drill core is between 1 1/2 inches and 2 inches in diameter (NQ core = 1 15/16 inches diameter) - $18.00 for each foot of core.
   (b) Where the total length of the casing is 10 feet or less - $3.00 for each foot of casing.
   (c) Where the total length of the casing is over 10 feet - $5.00 for each foot of casing.

2) All PG-88 holes were drilled on the POP 67 claim (grant number YA81520).

# APPENDIX IV

DIAMOND DRILL LOGS
(PG-88-1 TO PG-88-4)

# DIAMOND DRILL HOLE LOG

| | |
|---|---|
| PROJECT | POP - GODDELL |
| COORDINATE N. | |
| E. | |
| ELEVATION | 1278m |
| DATE STARTED | SEPT 9, 1988 |
| COMPLETED | SEPT 14, 1988 |
| HOLE SURVEY | |
| HOLE No. | 88 PG-1 |
| DEPTH | 1273' (388.0 m) |
| AZIMUTH | 147° |
| INCLINATION | -62° |
| DRILLED BY | COATES DD |
| ASSAYED BY | ACME ANAL. |
| LOGGED BY | TME, DMS, JB |

Reason for Drilling: Test for mnz'n between 87-PG-2 and 87 PG 4

Explanation of Results:

LEGEND: QM Dyke; Rhyl; Rhyl (SFP); Clay; Ser; Stwn - Bx; >5% sx Veins

| BOX | Run | Core | %R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERCEPT | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: O.P.T Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 6' CASING<br>ALTERED QUARTZ MONZONITE (6.00 – 640.3)<br>C.g.ed, equigranular; colour is generally mottled & varies from light green to dark green to white to pink to brown to cream coloured; Alt'n is sil, cc, ser, leucoxene, loc hem specs & loc int org alt'n of fsp pheno's; Loc mod to int Feo stn, especially on frac's & shear zones; Loc ANOI dykes; occasional xenoliths present; loc shears & shear zones occur; locally, black sulfide gouge is present in shears; frequent qtz/carb str's & qtz str's & occasional qtz/py str's are present; Py content is < 1% overall & occurs as blebs, diss'd or conc'ed on frac's & str's. | 0<br>20<br>40<br>60<br>80<br>100 < 1% py (blebs, diss'd & conc'ed on frac's).<br>120<br>140<br>160<br>180<br>200<br>220<br>240 | cl, cc, ser, leucoxene, loc hem & clay. | | | | | | |

OMNI RESOURCES INC. PROJECT POP GODDELL DIAMOND DRILL HOLE No. 88-PG1 SHEET 2 of 8

| BOX | Run | Core | %R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERSECT | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: O.P.T. Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 240 | | | | | | | |
| | | | | | | 260 | | | | | | | |
| | | | | | | 280 | | | | | | | |
| | | | | | | 300 | | | | | | | |
| | | | | | | 320 | | | | | | | |
| | | | | | | 340 | | | | | | | |
| | | | | | | 360 | | | | | | | |
| | | | | | | 380 | <1% py (blebs, diss'd + conc'd on frac's). | | | | | | |
| | | | | | | 400 | | | | | | | |
| | | | | | | 420 | | | | | | | |
| | | | | | | 440 | | | | | | | |
| | | | | | | 460 | | | | | | | |
| | | | | | | 480 | | | | | | | |
| | | | | | | 500 | | | | | | | |
| | | | | | | 520 | | | | | | | |
| | | | | | | 540 | | | | | | | |

SCALE CHANGE

clay, cly, ser, locserp, loc hem + clay.

PROJECT Pop - Goodell

DIAMOND DRILL HOLE No. 88-P41 Sheet 3 of 8

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| 31 | | | | |
| 32 | | | | |
| 33 | | 99 | .85 | |
| 34 | | 100 | .87 | |
| | | 99 | .80 | |
| | | 98 | .78 | |

**LITHOLOGY, ALTERATION, STRUCTURE**

586.5 – Many of the fractures healed by quartz-carbonate.

623.6 – 2 cm wide gouge, chlorite-sericite-pyrite shear w/ bleached envelope @ 10° t.c.a.

633.7-636 – a number of blk. bx. zones @ 5° t.c.a. up to 2 cm wide.

640.3 – 658' Mineralized Grey Rhyolite Crackle Bx. Light grey, locally w/ very pale green colouration from sericite, aphanitic, fairly massive, crackle brecciated or fractured, local qtz veining and/or flooding.

658 – 679.25 Pyritic, Carbonatized Intermediate Dyke

**MINERALIZATION**

Scale change to 1" = 20'

Scale Change ..... 1" = 20'
3% py. 1" = 10'

3% blk. sulphide-clay bx. 15% py in blk. bx., 3-4% py overall.

641.6 – 2, 1 cm qtz – py veinlets (2% py), minor sph. and fg. blk. mineral.

2-3% fg. diss. py

**GRAPHIC LOG**

**FT.**

560
580
600
620
630
640
650

| SAMPLE | | | ANALYTICAL (PPM) | |
|---|---|---|---|---|
| Sample No. | INTERVAL | CORE LENGTH | O.P.T. Au | O.P.T. Ag |
| 59726 | 633.7-638.7 | 5' | .01 (wet assay) | .18 (wet assay) |
| 59727 | 638.7-642.7 | 4' | <.01 (wet assay) | .02 (wet assay) |
| 59728 | 642.7-647.7 | 5' | <.01 (wet assay) | .04 (wet assay) |
| 59729 | 647.7-652.7 | 5' | <.01 (wet assay) | .03 (wet assay) |
| 59730 | 652.7-657.7 | 5' | <.01 (wet assay) | .08 (wet assay) |
| 59731 | 657.7-660.5 | 2.8' | <.01 (wet assay) | <.01 (wet assay) |

| Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|

PROJECT POP - GODDELL — DIAMOND DRILL HOLE No. 88-PG1 — Sheet 4 of 8

| BOX | Run | Core | %R | RQD |
|---|---|---|---|---|
| 35 | | | 98 | .78 |
| 734.7 | | | 100 | .63 |
| 36 | | | 100 | .58 |
| 736.75 | | | 100 | .63 |
| 37 | | | 95 | .80 |
| | | | 105 | .92 |
| 739.2 | | | 95 | .83 |
| 38 | | | 98 | .73 |
| 742.9 | | | 100 | .82 |

**LITHOLOGY, ALTERATION, STRUCTURE**

658 - 679.25' - Pyritic, Carbonatized Intermediate Dyke (cont.)

Light brownish grey green, iron carbonatized, w/ 5-15% m.g. disseminated pyrite (speckled) and 2-5% "mariposite-green" specs or clots. 1-3% irregular qtz-carb. stringers. Fractures coated w/ grey graphitic-looking film.

679.25 - 684.8 - Altered Quartz Monzonite

Coarse grained, pale grey green, w/ weakly sheared contacts, locally hematitic (tiny red grains & weak hematization of mafics).

684.8 - 695.1 - Weakly Carbd Intermediate Dyke

Pale to dk. grn., variable appearance but generally spotted (chlorite, sericite, pyrite), cut by ankerite-quartz stringers. Greater degree of alteration at contacts and pyritization. A few very straight joints @ 10° t.c.a.

695.1 - 716.7 Altered Quartz Monzonite

Same as 679.25 - 684.8 except more hematite and locally brecc., and occasional quartz veinlet at high angle t.c.a. From 715 - 716.7 has different appearance ie - finer grained and grey in color. 1 cm wide banded mylonitized QFP marks lower contact.

716.7 - 726 - QFP - Rhyolite

Light earthy brownish grey to greenish grey, very uniform appearance. 10-15% qtz eyes (2-3 mm), 5-15% carb'd and/or clay alt'd. plag. phenos. Plag. locally has orange coloration. Occasional chalcedonic qtz. gashes. Lower contact mobile.

726 - 733.7' - Grey Flow-banded ± Brec. Rhyolite

Very distinct from surrounding QFP. Quite variable appearance from flow-banded and crackle fractured (upper contact), to matrix supported (grey grn. qtz) angular brx., to swirly, contorted flow textured, mottled brx. (long* w/ rogue outlines), to f.g. massive (lower contact).

**MINERALIZATION**

5-15% evenly disseminated py; fractures coated w/ grey sulphidic? film.

3 cm wide, blue; friable grey/green.

< 1% pyrite

4-7% pyrite as med. grad. diss. blebs. Irregular ankerite-qtz. stringers.

1% unevenly disseminated py.

< 1% py

< 1% v.f.g. py

**GRAPHIC LOG**

**FT.**

660, 670, 680, 690, 700, 710, 720, 730

| SAMPLE | | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERCEPT | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | Mo | Sb | Bi | Hg |
| 59832 | 660.5-665.5 | 5' | < .01 (wet assay) | < .01 (wet assay) | | | | | | | |
| 59837 | 665.5-670.5 | 5' | .001 | .02 | | 15 | 116 | 10 | 6 | 2 | .320 |
| 59838 | 670.5-675.5 | 5' | .001 | .01 | | 6 | 155 | 9 | 2 | 3 | .260 |
| 59839 | 675.5-679.25 | 3.75' | .001 | .03 | | 21 | 135 | 9 | 17 | 3 | .32 |
| 59840 | 679.25-684.8 | 5.55' | .001 | .01 | | 11 | 56 | 31 | 12 | 2 | .50 |
| 59841 | 691.75-695.1 | 3.35' | .001 | .01 | | 49 | 126 | 13 | 27 | 2 | .23 |
| 59842 | 726-729.8' | 3.8' | .001 | .02 | | 65 | 96 | 775 | 15 | 2 | .09 |
| 59843 | 729.8-733.7 | 3.9' | .001 | .01 | | 35 | 47 | 273 | 13 | 2 | .10 |
| 59844 | 733.7-736.1 | 2.4' | .001 | .01 | | 60 | 143 | 1147 | 19 | 2 | .25 |

PROJECT Pop - Goodall — DIAMOND DRILL HOLE No. 88-PG1 Sheet 5 of 8

| BOX | Run | Core | %R | R.Q.D. |
|---|---|---|---|---|
| | | | 100 | .82 |
| 39 | | | 98 | .77 |
| 748 | | | 102 | .93 |
| 40 | | | | |
| 41 | | | | |
| 42 | | | | |
| 43 | | | | |
| 44 | | | | |
| 45 | | | | |
| 46 | | | 100 | .92 |
| | | | 90 | .70 |
| | | | 80 | .75 |
| | | | 93 | .10 |

**LITHOLOGY, ALTERATION, STRUCTURE**

Grey Flow-banded & Brecc. Rhyolite (cont.)

Irregular foliations

733.7 - 736.1 Carb$^{ed}$ Intermediate Dyke

Beige colored, mottled and spotted, intensely carb$^{ed}$ andesite. Badly deformed (vague sandy appearance). Green fuchsite specks.

736.1 - 810 - QFP - Rhyolite (North QFP)

Same as 716.7 - 726. except here are sub-rounded QFP frags of same composition as host but slightly greener in color; frags range in size from a few mm's to a few cm's.

- At 748.5, 751.5, 752.15 - Fractures w/ drusy f.g. xtline qtz and f.g. cubic (ramachandron twins) py.
- 755 - 763 - Irregular, narrow ankerite - qtz. gashes.
- 770 - 775 - QFP has maroon color from pervasive hematization.
- 784 - 787 - weakly clay alt$^{ed}$ around 2 small shears.
- Above mentioned QFP frags more abund. w/ depth.

810 - 824.75 - Intermediate Dyke

Grey green w/ darker green chlorite spots, occasional QM chunk; criss-crossed by abundant qtz-ankerite gashes, otherwise only weakly carb$^{ed}$. RQD drops in this unit as compared to QFP.

824.75 - 825.4 - Altered Quartz Monzonite

825.4 - 856.7 - QFP - Rhyolite

Distinct from N & S QFP. Pale grey green, fine-grained, porphyritic (both minerals less abund. here than in N & S QFP). Generally w/ massive, uniform appearance but locally banded. 5-10% qtz-eyes (2 mm range), 3-10% flow plagioclase (7-10% less altered than N & S QFP's).

856.7 - 860.5 - Altered Quartz Monzonite

Carb$^{ed}$, sericitized, e.g., crackle fract$^{d}$.

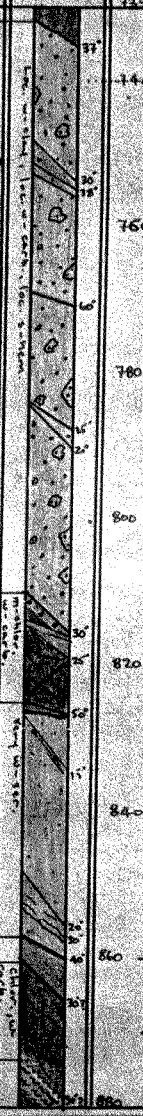
860.5 - 873.5 - Intermediate Dyke

Same as 810 - 824.75

**MINERALIZATION**

- 2% diss. py.
- SCALE CHANGE TR. 1" = 20'
- Frac's w/ drusy qtz & pyrite →
- Trace py
- Core badly broken →
- Upper contact of int. dyke sheared & broken for 10".
- 1-2% py. mostly around QM frags.
- 1% coarsely disseminated py.
- Straight fract. w/ black mixture of MnO$_2$ and Hematite. →
- 1% diss. py
- 2-4% diss. py.
- Trace bright red min. associated w/ carb & other minerals giving sulph.
- 2% py.

**GRAPHIC LOG**



**FT.**

720, 740, 760, 780, 800, 820, 840, 860, 880

| SAMPLE | | | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERCEPT | CORE LENGTH | O.P.T. Au | O.R.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo | |
| 59844 | | | .001 | .01 | | 60 | 123 | 107 | 15 | 2 | .25 | |
| | Scale change | | | | | | | | | | | |
| 59845 | 810 - 816 | 6.0' | .001 | .01 | | 94 | 342 | 10 | 52 | 2 | .46 | |
| 59846 | 860.5 - 866 | 5.5' | .001 | .01 | | 18 | 95 | 8 | 36 | 2 | .41 | |
| 59847 | 866 - 870.3 | 4.3' | .001 | .01 | | 15 | 69 | 8 | 75 | 2 | .50 | |
| 59848 | 870.3 - 873.5 | 3.2' | .001 | .01 | | 27 | 88 | 185 | 45 | 2 | .26 | |
| 59849 | 873.5 - 878.5 | 5.0 | .001 | .02 | | 29 | 67 | 77 | 20 | 2 | .14 | |

PROJECT Pop-Gomeli — DIAMOND DRILL HOLE No. 88-PG1 — Sheet 6 of 8

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| | | | 93 | .10 |
| | | | 97 | |
| | | | 98 | |
| | | | 99 | |
| | | | 100 | |

**LITHOLOGY, ALTERATION, STRUCTURE**

873.5 - 882.6 - Intense Shear Zone

Mixed lithologies: 873.5 - 875.5 - Brec. qm; 875.5 - 876.5 - Pale green, flow-banded rhyolite (banding @ ± 35° t.c.a.); 876.5 - 878.2 - intensely carb'd intermediate dyke (pale green to beige w/ green spots and tiny qtz-carb geodes. Streaming at ± 30° t.c.a. minor gouge seams; 878.2 - 882.5 - sheared qm. w/ blk. bx comprising 20% of rock.

882.5 - 921.4 - Sheared, Brec., Altered QM

C.g., light greyish grn., core mainly rubble w/ some sections of totally shattered rock held together by gouge. Low angle sense to shearing, 10 - 20° t.c.a., becoming steeper towards end of interval - 25° - 40° t.c.a.

921.4 - 922.4 Banded Quartz Porphyry - Rhyolite

Pale grey green w/ light grey bands (3-7 mm), 5% vague qtz-phenos, locally crackle brx. (fracs with dk. grey film. More or less the same as QFP at 825.4'. 2% v.f.g. diss. py and within dk. grey frac. coating.

922.4 - 930.5 Black Fault Breccia

30% of interval comprised of blk. f.g. brx. w/ QM. and rhyolite fragments. Foliation @ 30-45° t.c.a.

930.5 - 941.0' - Quartz Porphyry - Rhyolite

Same as rhyolites at 825.4 & 921.4. Crackle fractured, w/ dk. grey film on fracs variably sericitized

941.0 - 945.5 - Black Fault Breccia

25% of interval blk. brx. the remainder is QM.

945.5 - 951.3 - Green Feldspar Porphyry (South QFP)

Apple green color from strong sericitization, banded plag. phenos vary in size (1-4 mm) and density (10-30%). Abrupt change in appearance at 948.5'; very sharp contact @ 40° t.c.a. across which phenos change from very large to very small. This unit is part of the unit to follow but has distinct appearance due to contact effects. (Part of South Porphyry).

951.3 - 995.5 - Feldspar Porphyry - Rhyolite (South QFP)

South QFP. Pale green, very uniform appearance

(over)

**MINERALIZATION**

1-3% py. 2-3% blk. brx.

1-2% diss. py.

2% diss. py.

5-7% f.g. py

1% v.f.g. py

1-3% py

tr. py

Tr. py

2 cm wide qtz-py brx → veins w/ 3% py. 3% arsp.

Qtz-Sx Bx w/ 1-2% py → and 1% arsp. needles.

**GRAPHIC LOG**

**SAMPLE**

| Sample No. | INTERVAL | CORE LENGTH | ANALYTICAL (PPM) G.P.T. Au | G.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 59746 | 878.5 - 882.5 | 4.0' | <.01 (wet assay) | .03 (wet assay) | | | | | | | |
| 59733 | 9174 - 922.4 | 5' | <.01 (wet assay) | <.01 (wet assay) | | | | | | | |
| 59734 | 922.4 - 927.4 | 5' | .01 (wet assay) | .02 (wet assay) | | | | | | | |
| 59735 | 927.4 - 930.5 | 3.1' | <.01 (wet assay) | .05 (wet assay) | | | | | | | |
| 59736 | 930.5 - 935.5 | 5.0' | <.01 (wet assay) | .02 (wet assay) | | | | | | | |
| 59737 | 935.5 - 940.5 | 5.0' | <.01 (wet assay) | <.01 (wet assay) | | | | | | | |
| 59738 | 940.5 - 945.5 | 5.0' | <.01 (wet assay) | .02 (wet assay) | | | | | | | |
| 59739 | 987.5 - 989 | 1.5 | .03 (wet assay) | .06 (wet assay) | | | | | | | |
| 59740 | 995.5 - 1000.5 | 5' | <.01 (wet assay) | .06 (wet assay) | | | | | | | |
| 59741 | 1000.5 - 1005.5 | 5' | <.01 (wet assay) | .02 (wet assay) | | | | | | | |
| 59742 | 1005.5 - 1008.5 | 3' | .222 | .02 | 33 | 47 | 300 | 12,418 | | | |
| 59743 | 1008.5 - 1013.5 | 5' | <.01 (wet assay) | .01 (wet assay) | | | | | | | |
| 59744 | 1013.5 - 1018.5 | 5' | <.01 (wet assay) | <.01 (wet assay) | | | | | | | |
| 59745 | 1018.5 - 1023.5 | 5' | .05 (wet assay) | .01 (wet assay) | | | | | | | |

951.3 - 995.5 - Feldspar Porphyry - Rhyolite (S QFP)

Non-foliated, large, abnt. plagioclase phenos (10% of rock), also abnt., smaller brown grains (carbon feldspar?) evenly disseminated through rock; qtz-eyes very sparse.

987.6-988.8 - Large inclusion of Q.M. with blk. silicification at both ends.

993-994 - Narrow qtz-carb. stringers cutting bleached (devitrified) rhyolite w/ large (1 cm) spherical, glassy blobs, grey.

994 - 995.5 - Sheared bright green mtx.

995.5 - 1198 - Highly Altered & Brxx. Quartz Monzonite

Dark grey, white and green; 1% py for 2' from contact; phyllic alt° (qtz-ser-py).

1005.5' - 1005.6' - 2 cm wide qtz-py bx. vein (3% py) @ 45° t.c.a.

* 1005.5 - 1008.5 - Qtz-Sx-Bx - shearing and lower contact @ 25° t.c.a.; frag's rounded (1-4 cm); 3-4% tiny circular blebs (<1 mm) of py; 2-3% silver assoy needles (<1mm long).

1008.5 - 1013 - 2 narrow zones (1mm - 1cm) of blk. bx. run up core axis and at 25° t.c.a.

1018.5 - 1020' - Black Qtz-Sx.Bx. w/ 1-2% py and 1/4% assoy needles. Contacts at 25° & 45° t.c.a.

PROJECT Pep-Goodeli

DIAMOND DRILL HOLE No. 88-P91 SHEET 7 of 8

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERSECT | SAMPLE CORE LENGTH | ANALYTICAL (PPM) O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | | | | | 995.5 - 1198 - Highly Altered & Brxx. Q.M. (cont.) | | | 1040 | | | | | | | | | | | | |
| 1054.5 | | | | | 1020 - 1198 - Light gray w/ irregular 1-5mm. grn. | | | | | | | | | | | | | | | |
| 56 | | | | | sericitic partings and narrow 1-2mm., creamy | | | | | | | | | | | | | | | |
| 1056.5 | | | | | light brn. carbonate clots, wisps and stringers. | | | | | | | | | | | | | | | |
| | | | | | Originally e.g. hvt alt'n was, for the most part, | | | | | | | | | | | | | | | |
| | | | | | obliterated texture (moderate - intense silicification). | | | 1060 | | | | | | | | | | | | |
| 57 | | | | | Interval contains highly deformed and altered | | | | | | | | | | | | | | | |
| 1058.4 | | | | | intermediate dykes. - 1030.1 - 1032.9, 1058 - 1059.3, | | | | | | | | | | | | | | | |
| | | | | | 1080.4 - 1083.1, 1133.3 - 1137, 1145.3 - 1149.75, - 1153.7 - 1160.95, | | | | | | | | | | | | | | | |
| | | | | | 1162.9 - 1165.1, | | | | | | | | | | | | | | | |
| 58 | | | | | | Tr. py. | | 1080 | | | | | | | | | | | | |
| 1063 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 3% py., tr. asp as stubby grains, qtz. carb. stringers. | | | 52850 | 1080.4 - 1083.1 | 2.7' | .001 | .01 | | 74 | 113 | 861 | 23 | 2 | .13 |
| 59 | | | | | | | | | | | | | | | | | | | | |
| 1067.2 | | | | | | Tr. py | | 1100 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | 1120 | | | | | | | | | | | | |
| 1071.4 | | | | | | < 1% py, tr. hem. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 61 | | | | | | | | 1140 | | | | | | | | | | | | |
| 1075.75 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Tr. py, chal. hem. and qtz. carb. stringers. | | | | | | | | | | | | | | |
| | | | | | | Tr. py & ccp. | | 1160 | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | | | | | | | | | |
| 1079.7 | | | | | | Tr. py | | | | | | | | | | | | | | |
| | | | | | | | | 1180 | | | | | | | | | | | | |

OMNI RESOURCES INC. PROJECT Pop-Goodell DIAMOND DRILL HOLE No. 88-PG1 Sheet 8 of 8

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERVAL | SAMPLE CORE LENGTH | ANALYTICAL O.P.T. Au | ANALYTICAL O.P.T Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | | | | | 1198 - 1210.25 Moderately Sheared, Weakly Boxx Quartz Monzonite. Change from above unit to this unit gradational. Can recognized e.g. texture but individual minerals still quite altered (sericite and carb.) Appearance is mottled, color is light buff to pale green. Sericitic partings (shears) still abnt. | Tr. py | | 1200 | | | | | |
| 64 | | | | | 1210.25 - 1221.25 Carbed Intermediate Dyke. Brownish gray green, deformed, locally crackle fracd w/ abnt. qtz-carb. gashes. | Tr. py. | | 1220 | | | | | |
| 65 | | | | | 1221.25 - 1235.5 Altered Quartz Monzonite. Light cream colored, c.g., sericitized and carbed plag., carbed round hematized anglics, still quite fracd (fracs sericitic) and locally coated w/ dk. gray film. | 1-2% v.f.g. py. | | 1240 | | | | | |
| 66 | | | | | 1235.5 - 1245.1 Carbed Intermediate Dyke. Same as 1210.25 - 1221.25 but w/ locall bright red hematite. | Tr. py | | 1260 | | | | | |
| 67 | | | | | 1245.1 - 1273 Altered Quartz Monzonite. Same as 1221.25 - 1235.5 but becomming less altered w/ depth. Occasional qtz-carb stringer. | Tr - 1% py | | | | | | | |
| | | | | | | EOH 1273' → | | 1273 | | | | | |

# DIAMOND DRILL HOLE LOG

| | |
|---|---|
| PROJECT | POP - GOODELL |
| COORDINATE N. | |
| E. | |
| ELEVATION | 1278 m |
| DATE STARTED | SEPT 14/88. |
| COMPLETED | SEPT 24/88. |
| HOLE SURVEY | 1747' Corrected dip = -72.5° (dip tests) |
| HOLE No. | 88-PG-2 |
| DEPTH | 1747.0 ft. (532.5 m) |
| AZIMUTH | 147° |
| INCLINATION | -75° |
| DRILLED BY | COATS |
| ASSAYED BY | BONDAR CLEGG & ACME. |
| LOGGED BY | TERRY ELLIOTT & JOHN BARR |

Reason for Drilling: Test for min'n between 87-PG2 & 87-PG4, but at a greater depth than 88-PG1.

Explanation of Results:

LEGEND

ALT° ARGIL
RHYL DYKE
QFP
AMDS DYKE
Qtz vein or str or MOSTLY
Breccia
shearing
Fracture / other

| BOX | Run | Core | %R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT | SAMPLE Sample No. | SAMPLE INTERCEPT | SAMPLE CORE LENGTH | ANALYTICAL O.P.T. Au | ANALYTICAL O.P.T. Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | ALTERED QUARTZ MONZONITE (2.00 - 1066.6') e.g.ed, equigranular; colour is generally mottled & varies from light green to dark green to white to pink to red to brown to cream coloured; Alt'n is chl, ec, qtz/ser, leucoxene, loc hem specs & loc int arg alt'n of fsp pheno's; From 2.00 - 272.0, mod to int fco stn is common, especially on frac's & shear zones; Loc AMDS dykes; Occasional xenoliths present; minor loc aplite dykelets present; Loc shears & shear zones occur; locally, black sulfide gouge is present in shears; Frequent qtz/carb stk's & qtz str's & occasional qtz/py str's are present; py content is < 1% overall & occurs as blebs, diss'd or conc'ed on frac's & str's; Rare Ep specs exist. | < 1% py (blebs, diss'd & conc'ed on frac's). | chl, ec, qtz/ser, leucoxene, loc hem & clay; rare Ep. | Scale 1" = 40' 20 40 60 80 100 120 140 160 180 200 220 240 | | | | | |
| | | | | | 57.9 - 82.1 E.g.ed to locally porphyritic, dark green AMDS dyke; where dyke is porphyritic, fsp pheno's are generally 1/8 - 1/4 mm; Upp & Low contacts are irregular; several qtz/carb veinlets, str's & gash infillings are present. | | | | | | | | |

OMNI RESOURCES INC. PROJECT Pop - Goodell DIAMOND DRILL HOLE No. PF P62 PAGE 2 of 15

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERVAL | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: O.P.T. Ag | ANALYTICAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | <1% py (blebs, diss'd or conc'd on frac's). | cl / sc / fg ser, incr vcx's / bcm & clyey mat'x fg. | 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 | | | | | | |

PROJECT Pop - GODDELL

DIAMOND DRILL HOLE No. 89 P62 Sheet 3 of 15

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERVAL | CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: GRT Au |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 629.0 4 cm brec'd zone of qtz + azmn @ 25° to c/A; 1 cm of black sx gouge is present. | <1% py (blebs, diss'd or conc'ed on fract's). | | 560 | | | | | |
| | | | | | 626.5 - 627.2 sheared azmn + white qtz veinj; upp° contact @ 45° to c/A; low° contact @ 25° to c/A. | | | 580 | | | | | |
| | | | | | | | | 600 | | | | | |
| | | | | | | | | 620 | | | | | |
| | | | | | | | | 640 | | | | | |
| | | | | | | | | 660 | | | | | |
| | | | | | | | | 680 | | | | | |
| | | | | | | | | 700 | | | | | |
| | | | | | | | | 720 | | | | | |
| | | | | | | | | 740 | | | | | |
| | | | | | | | | 760 | | | | | |
| | | | | | | | | 780 | | | | | |
| | | | | | | | | 800 | | | | | |
| | | | | | | | | 820 | | | | | |
| | | | | | 830.0 Int sericite alt° begins. | | | 840 | | | | | |

OMNI RESOURCES INC. PROJECT Pat-GODDELL DIAMOND DRILL HOLE No. PG-86-2 SHEET 4 of 15

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| 105' | | | | |
| | 10.0 | 9.8 | 98% | .88 |
| 115' | | | | |
| | 10.0 | 10.0 | 100% | .87 |
| 125' | | | | |

**LITHOLOGY, ALTERATION, STRUCTURE**

SCALE CHANGE

**ALTERED QUARTZ MONZONITE – Black bryx and banding** (1062.6 – 1066.8)

Rounded or stretched out e.g.$^{ed}$ frag$^{s}$ of bleached qtzMM or qtz in a black, f.g.$^{ed}$ sx matrix; these frag$^{s}$ and/or in brec$^{d}$ bands and mylonitic bands in between undeformed segments of qtzMM; Alt$^{n}$ is pot qtz/ser; Upr$^{r}$ contact @ 15° to c/A; Lwr$^{r}$ contact @ (35°↓) to c/A + is ∫ irregular; mylonitic bands are @ 25°, 30°, 35°, 45° + 70° to c/A; ≈ 3% visible py.

**RHYL RYKE – Quartz eye porphyry** (1066.8 – 1091.2)

Light greenish-white + porphyritic w/ f.g.$^{ed}$ groundmass i.e. ≈ 4% qtz eyes from 1-2 mm; lesser amounts of fsp phenos from 1-7 mm; Alt$^{n}$ is lac ser on frac$^{s}$; Upr$^{r}$ contact irregular + @ 15° to c/A;

| MINERALIZATION | GRAPHIC LOG | FT. |
|---|---|---|
| 840 | | |
| 860 | | |
| 880 | | |
| 900 | | |
| 920 | | |
| 940 | | |
| 960 | | |
| 980 | | |
| 1000 | | |
| 1020 | | |
| 1040 | | |
| 1060 (1" = 40' / 1" = 10') | | |
| 3% py. | | |
| 1% py. | | |
| 1070 | | |
| 1% py. | | |
| 1080 | | |

| SAMPLE Sample No. | INTERVAL | CORE LENGTH |
|---|---|---|
| 59694 | 1062.6 – 1066.8 | 4.2 |
| 59695 | 1066.8 – 1068.3 | 1.5 |
| 59715 | 1075.0 – 1080.0 | 5.0 |

| ANALYTICAL (PPM) O.P.T. Au | O.R.T Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|
| .001 | .02 | 19 | 45 | 459 | 14 | 2 | .15 | |
| .008 | .02 | 41 | 111 | 794 | 16 | 2 | .36 | |
| Tr (6 inches) | .003 (6 inches) | 3 | 25 | 38 | 911 | | | |

OMNI RESOURCES INC. PROJECT POP GODDELL DIAMOND DRILL HOLE No. BG-P62 SHEET 5 of 15

| BOX | Run | Core | % R | RQD |
|---|---|---|---|---|
| | 10.0 | 9.9 | 99 % | .94 |
| | 10.0 | 10.0 | 100 % | .89 |
| | 10.0 | 9.9 | 99 % | .95 |
| | 10.0 | 10.0 | 100 % | .68 |

**LITHOLOGY, ALTERATION, STRUCTURE**

- Low° contact @ 70° to C/A.
- 1068.8 – 1069.3 Black brec bands consisting of rounded to sub-rounded frag's of RHYL, gtz± loc bleached qtzmv + loc black frag's of unknown identity, all in a frag's and black is matrix; 1% py; low° contact @ 25° to C/A.
- 1075.0 – 1091.2 Crackle fractured + brec'd.
- 1090.5 4 cm qtz/py brec.

**NORTH QUARTZ-FELDSPAR PORPHYRY (RHYL dyke)**
**(1091.2 – 1142.2)**

Porphyritic in a frag'd matrix; 10% gtz eyes, generally 1-3 mm; 10% fsp phens', generally 1-4 mm; colour is greenish-buff to locally reddish-brown; Alt'n is loc ben + loc ser + minor kaol; 1% QFP xenoliths present; the xenoliths have a lower density of fsp phens' + gtz eyes; minimal thin gtz/carb stg's.

- 1137.9 – 1139.7 Brec'd + crackle fractured; finally, black sx gouge exists between brec frag's; from 1139.2 – 1139.8 is a dense inclusion; low° contact @ 70° to C/A.

**ALTERED QUARTZ MONZONITE (1142.2 – 1234.5)**

As before; Alt'n is int stelzner; upp° contact @ 42° to C/A; loc sil'n; loc crackle frag's.

- 1148.4 – 1152.4 Loc brec'd + sheared mylonitic bands containing rounded to stretched out frag's of gtz + bleached qtzmv within a black frag'd sx matrix; loc gtz stg's, black sx bands are @ 25° to C/A.
- 1153.4 – 1156.4 Loc shears @ black sx gouge + loc minor qtz stg's.

**MINERALIZATION**

1080
1% py.
1090
1100
1110
~NONE.
1120
1130
<< 1% py.
1140
1% py
1150 3% py.
1155 4% py.

**GRAPHIC LOG**

FT.

| SAMPLE | | | ANALYTICAL (ppm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERVAL | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
| 59716 | 1080.0 – 1085.0 | 5.0 | Tr (Leachex) | .003 (Leachex) | 3 | 34 | 42 | 175 | | | |
| 59717 | 1085.0 – 1090.0 | 5.0 | .001 (Leachex) | .003 (Leachex) | 3 | 31 | 47 | 173 | | | |
| 59718 | 1090.0 – 1091.2 | 1.2 | .013 (Leachex) | .03 (Leachex) | 19 | 165 | 491 | 156 | | | |
| 59686 | 1137.7 – 1139.7 | 2.0 | .001 | .01 | | 30 | 70 | 130 | 24 | 2 | .22 |
| 59687 | 1148.4 – 1152.4 | 5.0 | .001 | .03 | | 19 | 45 | 469 | 19 | 2 | .17 |
| 59688 | 1153.4 – 1156.4 | 3.0 | .001 | .04 | | 13 | 43 | 472 | 10 | 2 | .15 |

PROJECT POP - GOODELL

DIAMOND DRILL HOLE No. 82-P62 SHEET 6 of 15

| BOX | Run | Core | % R | RQD |
|---|---|---|---|---|
| 1157 | | | | |
| | 9.0 | 4.0 | 100 % | .90 |
| 1161 | | | | |
| | 10.0 | 10.0 | 100 % | .77 |
| 1171 | | | | |
| 1207 | | | | |
| | 10.0 | 10.0 | 100 % | .83 |
| | 10.0 | 10.0 | 100 % | .58 |
| 1221 | | | | |

**LITHOLOGY, ALTERATION, STRUCTURE**

1152.7 – 1156.9 Int silica flooding.

1156.9 – 1159.4 s.i.f. + sheared & sheared & sheared veins are generally @ 25° to c/A + are filled w. blk or gouge.

1159.4 – 1164.4 shears are common @ 30° – 25° to c/A; shears are filled w either blk. or sx. gouge or sev + gouge; 1159.4 – 1160.9 has int silica flooding.

1185.5 – 1186.1 3 gtz/py stv° from ½ mm to 2½ mm; orientations are 65°, 75° + 85° to c/A.

1206.1 – 1210.2 Sub-porphyritic ANDS DYKE; 1% ss, subcrite + green mica (fuchsite?); Upp° contact @ 70° to c/A; Low° contact irregular + @ 45°(?) to c/A; 3% gtz/carb whisps, blebs + gash infillings.

1218.4 Mod shear @ 50° to c/A; 1 ½ mm gtz/py stv gds within this shear.

1219.7 ½ cm gtz/py stv @ 40° to c/A.

ANDS DYKE (1224.5 – 1237.7)

Porphyritic – f.g.-md matrix; Colour is grey/dk-green w bright green specs & white streaks; 1% ss, subcrite + green mica (fuchsite?); Upp° contact @ 70° to c/A; Low° contact @ 20° to c/A; 5% gtz/carb whisps, blebs + gash infillings.

**MINERALIZATION**

6% py.

3% py.

< 1% py.

**GRAPHIC LOG**

**FT.**

**SAMPLE**

| Sample No. | INTERCEPT | CORE LENGTH |
|---|---|---|
| 59689 | 1156.4 – 1159.4 | 3.0 |
| 59690 | 1159.4 – 1164.4 | 5.0 |
| 59719 | 1206.1 – 1210.2 | 4.1 |
| 59720 | 1224.5 – 1229.5 | 5.0 |

**ANALYTICAL (PPM)**

| O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|
| .001 | .02 | | 10 | 52 | 12 | 8 | 2 | .007 |
| .002 | .02 | | 14 | 45 | 175 | 12 | 2 | .12 |
| Tr (Geochem) | .003 (Geochem) | 39 | 25 | 94 | 23 | | | |
| Tr (Geochem) | .003 (Geochem) | 40 | 41 | 98 | 9 | | | |

PROJECT POP – GODDELL DIAMOND DRILL HOLE No. 88-142 SHEET 7 of 15

| BOX | Rim | Core | % R | R.Q.D. |
|---|---|---|---|---|
| | 10.0 | 10.0 | % 100 | .78 |
| 1237 | | | | |
| | 10.0 | 10.0 | % 100 | .49 |
| 1247 | | | | |
| | 10.0 | 10.0 | % 100 | .97 |
| 1257 | | | | |
| | 6.0 | 5.8 | % 97 | .35 |
| 1263 | | | | |

**LITHOLOGY, ALTERATION, STRUCTURE**

1233.2 – 1234.5 Inclusion of QZMN.

**ALTERED QUARTZ MONZONITE (1237.7 – 1246.6)**

As before; Alt$^n$ is ser + epidote minor tr. chl + loc s/f$^s$.

1237.7 – 1242.1 + 1244.7 – 1246.6 Int shear zones; shearing is @ 25°, 30°, 35°, 50°, 65° + 70° to c/A.

**RHYL DYKE – Porphyritic (1246.6 – 1296.4)**

Porphyritic = f-g$^{ed}$ matrix; 5% qtz eyes, generally 1–2 mm; 5% fsp phen$^s$, generally ½ – 2 mm; Colour is greyish-green w white specs; Alt$^n$ is ser + loc minor chl; Upp$^r$ contact @ 50° to c/A; Low$^r$ contact @ 40° to c/A; Loc patches of FeO stn.

1247.9 – 1268.5 Int SH zone; Low$^r$ contact @ 55° to c/A.

1287.1 – 1296.4 High density of thin fract$^d$ veins; fract$^s$ have either ser or black sx material in between.

**MIXED ZONE OF ALT$^D$ QZMN, AND DYKES + RHYL DYKES (qtz eye porphyry) – (1296.4 – 1342.3)**

1296.4 – 1301.6 Rhyl; upr contact irregular + @ 40° to c/A; Low$^r$ contact @ 50° to c/A.

1338.0 – 1339.6 Int SH zone + thick gouge + brec; shears are @ 20°, 30°, 40° + 60° to c/A.

1340.1 – 1341.2 Sx-veined, brec$^d$ + mylonite banded + rock block in matrix; bands are @ 25°, 30° + 60° to c/A.

1341.6 – 1342.7 Fg-m$^d$ dyke(?); Low$^r$ contact @ 55° to c/A; 2% py as fracture fillings.

**MINERALIZATION**

1230 | 1240 | 1250 | 1260 | 1270 | 1280 | 1290

<1% py.

1% py.

2% py.

GRAPHIC LOG

| FT. | Sample No. | Interval | Core Length | Au (FA) g/t | Au (AA) g/t | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Sb ppm | Bi ppm | Hg ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 59721 | 1237.7 – 1242.1 | 4.4 | Tr (Goechem) | .006 (Goechem) | 48 | 56 | 52 | 14 | | | |
| | 59691 | 1296.4 – 1299.7 | 3.3 | .002 | .01 | 70 | 60 | 661 | 41 | 2 | .13 | |
| | 59692 | 1299.7 – 1304.7 | 5.0 | .011 | .06 | 45 | 168 | 288 | 602 | 2 | .38 | |

PROJECT POP-GODDELL DIAMOND DRILL HOLE No. 89-B2 SHEET 8 of 15

| BOX | Run | Core | % R | RQD |
|---|---|---|---|---|
| | 10.0 | 10.0 | % 100 | .86 |
| | 10.0 | 9.9 | % 99 | .63 |
| | 4.0 | 3.5 | % 88 | .63 |
| | 10.0 | 9.8 | % 99 | .84 |
| | | | 97 | .57 |
| | | | 98 | .97 |
| | | | 100 | .88 |
| | 2.0 | 2.0 | 100% | .20 |
| | 8.0 | 7.4 | 93% | .16 |
| | 4.0 | 3.1 | 78% | .09 |

## LITHOLOGY, ALTERATION, STRUCTURE

1312.7 – 1313.2 Alt'n: ASMD.

1313.2 – 1319.7 F.g.ᵉᵈ dyke; lwr gtz/musc alt'n; lwr contact @ 15° to c/A; low" contact @ 20° to c/A.

1319.7 – 1319.7 Zst'y sheared, brec'd + locally mylonite banded; mylonite bands are @ 10° to c/A + have black ex gouge; shearing is @ 25° to c/A.

1319.7 – 1323.0 F.g.ᵉᵈ RHYL DYKE – gtz eye porphyry; several thin frac" have black ex material in between.

1323.0 – 1337.7 Brec'd qtz monzonite.

1323.0 – 1326.2 Zst'y sheared + brec'd; shears are @ 25° to c/A.

1326.2 – 1332.7 Brec'd + mylonite banded; mylonite bands are @ 25° + 35° to c/A + are commonly filled w black ex gouge.

1332.7 – 1336.1 F.g.ᵉᵈ RHYL DYKE – gtz eye porphyry; several thin frac" have black ex material in between; Upr" contact @ 20° to c/A; low" contact irregular + @ 25° to c/A.

1336.1 – 1343.3 Alt'd QZMN; brec'd + mylonite banded; Mylonite bands are @ 40° + 50° to c/A + are commonly filled w black ex gouge.

1340.8 – 1343.3 Zst'y sheared here, as well.

1343.3 FAULT ZONE (HEALED) of QUARTZ MONZONITE BRECCIA w. BROWN TO BLACK MATRIX
- occas. frags to 20cm. Mainly <3cm.
- Upper contact 10° to c.a
- lwr. contact 30° to c.a.
- Banding mainly 30° to c.a.
- matrix supported (60% black or brown)

1346.3 – 1351.3 = Occas. silver needles /<0.3mm
1351.3' – 1356.3' = shearing 5-10° to c. axis.
1356.3' – 1361.3' = banding 20° to c.a

**South QUARTZ-FELDSPAR PORPHYRY (RHYL DYKE) (1366.3 – 1463.4)**

Porphyritic = f.g.ᵉᵈ groundmass; 20% fsp phens, generally 2-4 mm; 1% gtz eyes, generally 1-2 mm; Colour is generally greyish-green but locally pinky, all = white speckled. Fsp phens are pink + smaller in size than the white ones; all fsp are subedral; not as fsp + less + more dark (generally ferromagnesian) Occasional qtz/carb veins. Moderate.

1366.3 – 1368.2 Zst'y sheared + brec'd; APP frag's + dark minerals frag's (82 wt%) are present in a light grey or green matrix; shears are only occasional + are @ 15°, 45° + 75° to c/A; also, one qtz frag present.

## MINERALIZATION

1% PY.

<1% PY.

2% PY.

3% PY.

4% PY.

<<1% PY.

2-3 % PY.

3% PY.

<1% PY.

<<1% PY.

1-2% PY

1346.5 – 1347.9 = 5% PY
Overall 20% PY
1350.8 – 1351.3 (very Q. vn (5mm – 1cm))
1351.3 – 1352.5 Strong (10%) diss PY. Silver specks
Overall PY = 3-4%

1-2% py

1 cm vein of soft (H=2) grey mineral (sulphosalt?)

<1% PY

1370

tr PY

1380

GRAPHIC LOG

FT.

| SAMPLE Sample No. | INTERVAL | CORE LENGTH | ANALYTICAL (PPM) OPT Au | GRT Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 59693 | 1304.7 – 1309.7 | 5.0 | .004 | .03 | | 31 | 137 | 96 | 160 | 2 | .40 |
| 59694 | 1309.7 – 1314.7 | 5.0 | .005 | .03 | | 20 | 212 | 528 | 50 | 2 | .52 |
| 59695 | 1314.7 – 1319.7 | 5.0 | .013 | .05 | | 17 | 92 | 1858 | 48 | 2 | .23 |
| 59696 | 1319.7 – 1323.0 | 3.3 | .003 (Geochem) | .003 (Geochem) | 4 | 23 | 36 | 293 | | | |
| 59697 | 1323.0 – 1326.2 | 3.2 | .002 (Geochem) | .01 (Geochem) | 11 | 10 | 43 | 264 | | | |
| 59698 | 1326.2 – 1330.0 | 3.8 | Tr (Geochem) | .003 (Geochem) | 4 | 9 | 36 | 33 | | | |
| 59699 | 1330.0 – 1333.7 | 3.7 | .001 (Geochem) | .003 (Geochem) | 14 | 14 | 53 | 241 | | | |
| 59700 | 1333.7 – 1336.1 | 2.4 | .002 (Geochem) | .003 (Geochem) | 4 | 16 | 60 | 160 | | | |
| 59751 | 1336.1 – 1339.7 | 3.6 | .001 (Geochem) | .003 (Geochem) | 4 | 11 | 52 | 66 | | | |
| 59752 | 1339.7 – 1343.3 | 3.6 | Tr (Geochem) | .03 (Geochem) | 122 | 13 | 105 | 19 | | | |
| C59651 | 1343.3 – 1346.3 | 3' | .139 | .03 | 20 | 16 | 163 | 2137 | | | |
| C59652 | 1346.3 – 1351.3 | 5' | .164 | .05 | 20 | 19 | 149 | 5894 | | | |
| C59653 | 1351.3 – 1356.3 | 5' | .160 | .06 | 23 | 34 | 296 | 4344 | | | |
| C59654 | 1356.3' – 1361.3' | 5' | .044 | .05 | 14 | 41 | 193 | 367 | | | |
| C59655 | 1361.3' – 1366.3' | 5' | .097 | .04 | 13 | 37 | 175 | 571 | | | |
| 59722 | 1363 – 1368.2 | 1.9 | .010 | .02 | | 30 | 114 | 102 | 27 | 2 | .32 |
| 59723 | 1375.7 – 1377.5 | 1.8 | .001 | .02 | | 17 | 53 | 34 | 19 | 2 | .02 |
| 59724 | 1377.5 – 1381.6 | 4.1 | .001 | .01 | | 19 | 79 | 5 | 9 | 2 | .06 |

PROJECT POP - GODDELL

DIAMOND DRILL HOLE No. 88-PG2 Sheet 2 of 15

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERCEPT | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: GRT Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1381 | | | | | 1365.2 – 1381.8 matrix has a generally pervasive pink colouration (Fe-ox? hem ?). | 1380 | | | | | | | |
| | | | | | 1771.8 – 1365.2 Core is bleached & has a generally washed out texture. | | | | | | | | |
| | | | | | 1375.7 – 1381.6 Elevated & locally abundant hrs[p] locally, shears have black gouge which runs almost parallel C.A. | 1390 | | | | | | | |
| | | | | | | 1400 | | | | | | | |
| | | | | | | 1410 | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | 1420 | | | | | | | |
| | | | | | | 1430 | | | | | | | |
| | | | | | | 1440 | | | | | | | |
| | | | | | | 1450 | | | | | | | |
| | | | | | | 1456 | | | | | | | |

PROJECT POP - GODFELL DIAMOND DRILL HOLE No. 88-PG-2 Sheet 10 of 15

| BOX | Run | Core | % R | RQD | LITHOLOGY, ALTERATION, STRUCTURE |
|---|---|---|---|---|---|
| | | | | | 1459.2 – 1461.6 Int'd silt + sphaerulitic contacts. |
| | | | | | 1461.6 – 1463.4 Int'd sheared + concentrated; sheaving is @ 15° to C/A. |
| | | | 99 | .73 | 1463.4 ± 1" Contact 15° to core axis MAINLY BRECCIATED QTZ MONZ. and BLACK BRECCIA w. 5% Q – Sx – Bxg. – banding 20° to C.A; Pervasive smoky fracturing exists. |
| 1467 | | | | | |
| | 10.0 | 10.0 | 100 % | .89 | |
| | | | | | 1474.8 – 1480.2 Loc fragmental qtz inclusions + loc black sx bands. |
| 1477 | | | | | |
| | 10.0 | 10.0 | 100 % | .95 | |
| 1482 | | | | | |
| | | | | | BRECCIATED QUARTZ MONZONITE 1497 – 199.5 = 1 cm. stringer of Qtz – Stibnite – sphalerite running up core axis. |
| | | | 99 | .98 | |
| 1492 | | | | | 1501.3 – 1504.8 one black sx brx band present. |
| | | | | | 1507.0 – 1507.7 5% qtz frag's; 1% galena blebs + gash infillings. |
| | 10.0 | 10.0 | 100 % | .87 | |
| 1502 | | | | | |
| | | | | | 1515.9 – 1520.8 Fg'd, dark grey/gr – green AMDS DYKES; Upp^r contact irregular + @ (90°?) to C/A; Low^r contact irregular + @ (40°?) to C/A. 5% qtz/dark chips, blebs + gash infillings; loc vfg's = black sx gouge. |
| | 10.0 | 8.9 | 89 % | .69 | |
| 1522 | | | | | |
| | | | | | 1525.4 – 1525.6 Fg'd AMDS dyklet @ 10° to C/A; 5% qtz/dark chips, blebs + gash infillings. |
| | | | | | 1527.0 – 1527.4 Int'd silt. |
| | | | | | 1528.4 – 1528.7 Fragmental qtz inclusion (makes up ±4% of this sub-interval). |

| MINERALIZATION | GRAPHIC LOG | FT. |
|---|---|---|
| 1465 Tr PY. | | |
| 1460 | | |
| 1466.5 – 1471' 1-2% very needles Overall PY = 2-4% | | |
| 1470 | | |
| 1480 2-3% PY. | | |
| 1490 | | |
| Q – $Sb_2S_3$ – S1 3% PY; Patchy 1500 very needles | | |
| 2-3% PY. | | |
| 2-3% PY, <1% very needles 1510 | | |
| 2% PY. | | |
| 2% PY. 1520 | | |
| 2% PY. | | |
| 1530 | | |

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERCEPT | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Hg |
| 59725 | 1459.2 – 1461.6 | 2.4 | .001 | .01 | | 29 | 51 | 19 | 17 | 2 | .47 |
| 59747 | 1461.6 – 1463.4 | 1.8 | .007 | .01 | | 22 | 92 | 573 | 85 | 3 | .16 |
| C59656 | 1463.4' – 1468.7' | 5.3' | .048 | .02 | 8 | 67 | 347 | 6319 | | | |
| 59748 | 1474.8 – 1479.2 | 5.4 | .006 | .02 | | 6 | 89 | 1846 | 41 | 2 | .11 |
| C59657 | 1495.6' – 1501.3' | 5.7' | .093 | .15 | 15 | 76 | 449 | 5644 | | | |
| 59749 | 1501.3 – 1504.8 | 3.5 | .004 | .02 | | 11 | 105 | 547 | 24 | 2 | .13 |
| 59750 | 1507.0 – 1509.7 | 2.7 | .001 | .01 | | 28 | 57 | 301 | 72 | 2 | .10 |
| 59554 | 1515.9 – 1520.8 | 4.9 | .001 | .03 | | 178 | 193 | 680 | 87 | 2 | .26 |
| 59555 | 1521.0 – 1528.7 | 1.7 | .001 | .03 | | 91 | 178 | 156 | 56 | 2 | .35 |

PROJECT ROP - GOODELL DIAMOND DRILL HOLE No. 88-PG-2 Sheet 11 of 15

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| | 10.0 | 10.0 | 100 | .83 |
| | 10.0 | 10.0 | 100 | .98 |
| | 10.0 | 10.0 | 100 | .69 |
| | | | | .74 |
| | | | 100 | |
| | | | | |
| | | | 100 | |

**LITHOLOGY, ALTERATION, STRUCTURE**

1539.4 – 1542.5 Int$^{ly}$ silica flooded.

1545.5 – 1547.5 Int$^{ly}$ silica flooded.

1556.8 – 1566.5 Mod$^{ly}$ sil$^{d}$.

1569.5 – 1570.4 Mod sil zone.

1570.4 – 1575.3 Fsp porphyritic RHYL DYKE; 15% euhedral fsp phens; occasional qtz eyes; Hem specs common; wk ser alt$^{n}$; fsp phens have int arg alt$^{n}$; upr contact @ (65°?) to c/a; Low contact @ 70° to c/a.

1575.3 – 1576.0 Sheared & brx$^{d}$ RHYL DYKE; Much black ex material present.

1576.0 – 1581.2 Sil$^{d}$ & int$^{ly}$ crackle fractured @ loc shearing

1581.2 – 1585.2 = QTZ MONZONITE BRECCIA
– strongly alt$^{d}$ Lwr contact ~ sharp at 25° to c.a.
– 5% Black gouge/banding 50° to core axis.

1585.2 MIXED ZONE OF MINERALIZED ANDESITE and ALT'D QTZ MONZ
– Andesite is gray and clys. 10% bright green sericitic specks ¼–1 mm. across
1585.2 – 86.4' = And. Strongly mnz'd w. 20% Py & 1% Aspy; 1–2% aspy needles. 8 mm. Qvn. at lwr contact
1586.4 – 1589.2 = Q.M. bxa. Lwr cont. 45° c.a.
2% Bi. gauge @ 1588.4 = Str. mnz'd frag of Q.M. BXATED w 10% sl, 10% Py, 3% aspy
1589.2 – 1594.2' = AND. DYKE – lwr cont. 75° to c.a. FRAGS NOED w. 10–50% sulphides

**MINERALIZATION**

1530

1540

1550 2–3% Py, Trace aspy needles.

1560

1570 Trace Py.

2% Py, ¼% aspy needles.

1580 2–3% Py, ¼% aspy needles.

2% Py; < ½% aspy needles; minor aspy & sl.

1585 20% Py; 1% Aspy; 1–2% aspy needles. Minor sl.

Patchy lwr. circ. blebs of py (1%) across aspy needles.

1590 Str. mnz$^{n}$ frags at contact

Patches of 5% – 10% aspy needles

1592.5'

**GRAPHIC LOG**

**FT.**

1" = 10'

Scale change

1" = 5'

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERCEPT | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
| 59556 | 1539.4 – 1542.5 | 3.1 | .011 | .01 | | 21 | 69 | 584 | 34 | 2 | .12 |
| 59557 | 1575.3 – 1577.0 | 1.7 | .020 | .04 | | 46 | 66 | 1343 | 54 | 2 | .25 |
| 59558 | 1577.0 – 1581.2 | 4.2 | .069 | .05 | | 64 | 145 | 3721 | 97 | 2 | .70 |
| C59658 | 1581.2 – 1585.2 | 4' | .02 (wet assay) | .13 (wet assay) | 64 | 70 | 159 | 3184 | | | |
| C59659 | 1585.2 – 1590.2' | 5' | .382 | .15 | 49 | 35 | 297 | 12% 2.93 | | | |
| C59660 | 1590.2 – 1595.2' | 5' | .214 | .01 | 15 | 17 | 146 | 1% 146 | | | |

PROJECT ROP GODDELL — DIAMOND DRILL HOLE No. 88-PG-2 — Sheet 12 of 15

| BOX | Run | Core | %R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERCEPT | SAMPLE: CORE LENGTH | ANALYTICAL (PPM): O.P.T. Au | ANALYTICAL (PPM): O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2 events of mineln: (1) Early MS: sulphide frags & later Qtz. - carb. - aspy needle - Py. AND cut by Q-carb vns. | 1592.5 3-5% sulphides incl. clusters of radiating aspy needles. | | | | | | | | | | | | | | |
| | | | | .88 | 1594.2 - 1596.9' = ALT'D QTZ. MONZ. - Lwr. contact 35-40° to c.a. → LOW GRADE (<1% Py) | 1595 | | | | | | | | | | | | | | |
| | | | | | 1596.9 - 1601.4 = MINZ'D. ANDESITE. | 2-4% Py <½% aspy needles | | | | | | | | | | | | | | |
| 84 | | | | | 1598.5' - 1599.2' = FRAG of QTZ. MONZ. | 1600 Weakly mine'd +1/2% Py | | | | | | | | | | | | | | |
| | | | 99 | .78 | 1601.4' = Q. MONZ. Lwr. contact 10-20° to c.a. | 5% Py; ½% aspy needles | | | | | | | | | | | | | | |
| | | | | | 1603.5 = ANDESITE - 10% Q-Carb. gashes & pockets Lwr contact ground at 80° to c.a.; Contact bleached | 1605 | | | | | | | | | | | | | | |
| | | | | | 1605.8' = ALT'D QTZ. MONZ. 1606.7 - 1607' = Minor Black Bio Gouge | 3% Py Minor Cpy & Au 3 specks | | | | | | | | | | | | | | |
| 85 | | | | | Lwr contact 20° to c.a. 1611.2' = AND DYKE - 1613.3 | 1% Py arsenic or sulphide | | | | | | | | | | | | | | |
| | | | 99 | .94 | Lwr contact 40° to c.a. 1615.3' = ALT'D QTZ MONZ | 5-10% white Q-carb 5% Py; ½% aspy needles | | | | | | | | | | | | | | |
| | | | | | Lwr. contact 30° to c.a. 1616.2' = Q-CARB VNED ANDESITE DYKE - 1627.8' | 1615 1-2% Py Some aspy needles | | | | | | | | | | | | | | |
| | | | | | Replacement of sulphides along irreg fract. Very fine sulphides 10% Qtz. - Carb. BEST GRADE ZONE! | 1620 5-7% Py 2-3% aspy needles, black sphalerite ? % | | | | | | | | | | | | | | |
| | | | 99 | .94 | | 1625 Minor Cpy. | | | | | | | | | | | | | | |
| 86 | | | | | Lwr contact 30° to c.a. 1627.8' = Qtz Monz | Minor as at 1615' | | | | | | | | | | | | | | |
| | | | 99 | .72 | | 1630 | | | | | | | | | | | | | | |

| SAMPLE: Sample No. | SAMPLE: INTERCEPT | SAMPLE: CORE LENGTH | ANALYTICAL (PPM): O.P.T. Au | ANALYTICAL (PPM): O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C59661 | 1595.2' - 1600.2' | 5' | <.01 (wet assay) | .02 (wet assay) | 122 | 14 | 779 | 1655 | | | |
| C59662 | 1600.2 - 1605.2 | 5' | .01 (wet assay) | .03 (wet assay) | 28 | 19 | 104 | 7101 | | | |
| C59663 | 1605.2 - 1610.2 | 5' | .291 | .12 | 57 | 84 | 128 | 761 | | | |
| C59664 | 1610.2' - 1615.2' | 5' | <.01 (wet assay) | .01 (wet assay) | 28 | 10 | 150 | 4539 | | | |
| C59665 | 1615.2' - 1620.2' | 5' | <.01 (wet assay) | .02 (wet assay) | 21 | 17 | 127 | 8762 | | | |
| C59666 | 1620.2 - 1625.2' | 5' | .01 (wet assay) | .04 (wet assay) | 62 | 65 | 231 | 6952 | | | |
| C59667 | 1625.2 - 1630.2 | 5 | <.01 (wet assay) | .03 (wet assay) | 54 | 28 | 97 | 4495 | | | |

PROJECT POP - GODDEN

DIAMOND DRILL HOLE No. 88-PG-2 SHEET 13 of 15

| BOX | Run | Core | %R | RQD |
|---|---|---|---|---|
| 1637 | | | | |
| | 10.0 | 9.6 | 96% | .73 |
| 1647 | | | | |
| | 10.0 | 10.0 | 100% | .99 |
| 1657 | | | | |
| | 10.0 | 10.0 | 100% | .92 |
| 1667 | | | | |

## LITHOLOGY, ALTERATION, STRUCTURE

1630 Contact 20° to c.a.

1631.3 – 1636.5 = MINZ'D ANDESITE DYKE /inclusion of Qtz. Monz. from 1633.9 – 1634.2' – BRECCIATED & Mineralized

1635

ALTERED QUARTZ MONZONITE (1636.5 – 1682.0)

f.g.ed, equigranular; Colour is mottled light green to white to dark grey; Alt'n is int stelser; loc gbo-stibnite str'g; loc fract filled & black sx gouge.

1640

1643.9 – 1644.5 f.g.ed Andes dykelet; Low° contact @ 20° to c/A.

1645

1645.5 ½ cm fracture @ 15° to c/A containing black sx gouge.

1649.7 – 1649.2 High concentration of sx' lets; 5% py; 5% aspy needles & 10% unknown f.g.ed black sx.

1650

1650.7 ½ cm gtz/sx str @ 80° to c/A; 1% aspy needles, 10% py balls, 30% unknown black sx.

1653.4 – 1654.3 f.g.ed Andes dykelet; Upp° contact @ 50° to c/A; Low° contact is v irregular.

1654.6 ¼ cm gtz/stibnite str @ 75° to c/A; 40% stibnite; 5% brown s/l.

1655

1657.0 4 cm gtz/stibnite str @ 65° to c/A; 35° stibnite, 1% brown s/l.

1660

1665

1664.6 ¾ cm gtz/stibnite str @ 90° to c/A; 15% stibnite, 3% py; 3% brown s/l.

1667.0 – 1667.5 F.g.ed Andes dyke inclusion.

## MINERALIZATION

3% Py
½% aspy needles.

2–3% Py
¼% aspy needles

3% py,
1–2% f.g.ed aspy.
¼% aspy needles.

3% py,
2% aspy needles.
3% f.g.ed aspy.

2% py,
1% aspy needles,
1% f.g.ed aspy.

5% py,
5% aspy needles,
<1% s/l;
3% stibnite.

2% py,
1½% aspy needles.

2% py,
1% aspy needles.

GRAPHIC LOG

FT.

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERCEPT | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
| C 59668 | 1630.2' – 1635.2' | 5' | <.01 (wet assay) | <.01 (wet assay) | 21 | 17 | 130 | 5700 | | | |
| C 59669 | 1635.2' – 1638.2' | 3' | .189 | .01 | 17 | 19 | 197 | 5700 | | | |
| C 59670 | 1638.2 – 1643.8 | 5.6 | .062 | .05 | 44 | 48 | 96 | 3200 | 200 | | |
| C 59671 | 1643.8 – 1648.8 | 5.0 | .070 | .04 | 36 | 46 | 123 | 3157 | 72 | | |
| C 59672 | 1648.8 – 1653.8 | 5.0 | .033 | .13 | 45 | 15 | 77 | 2963 | 47 | | |
| C 59673 | 1653.8 – 1658.8 | 5.0 | 0.170 | .08 | 29 | 40 | 600 | 5027 | 2301 | | |
| C 59674 | 1658.8 – 1663.8 | 5.0 | .003 | .05 | 69 | 28 | 80 | 2604 | 63 | | |
| C 59675 | 1663.8 – 1666.4 | 2.6 | .030 | .30 | 164 | 46 | 253 | 23187 | 222 | | |

OMNI RESOURCES INC. PROJECT POP – GODDELL DIAMOND DRILL HOLE No. 88-PG2 Sheet 14 of 15

| ROX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| | 10.0 | 10.0 | % 100 | .92 |
| | 10.0 | 9.8 | % 98 | .60 |
| | 10.0 | 9.4 | % 94 | .66 |
| | 10.0 | 10.0 | % 100 | .84 |

**LITHOLOGY, ALTERATION, STRUCTURE**

1668.5 1¼ cm qtz/stibnite str @ 90° to c/A; 95% stibnite, 3% brown sl, 1% py.

1672.0 ¼ cm qtz/stibnite str @ 85° to c/A; 2% stibnite, 1% brown sl.

1672.2 1½ cm qtz/stibnite str @ 45° to c/A; 80% stibnite, 1% brown sl.

1673.8 3 cm qtz/stibnite str @ 70° to c/A; 20% stibnite, 2% aspy needles, 1% brown sl, 1% py.

1681.6 – 1682.0 Int SH zone @ 70° to c/A.

**ANDS DYKE (1682.0 – 1689.8)**

F.g.ed, dark green; Alt'n is minor ser, ankerite + 5% bright green clay specs (fuchsite?); Upp'r contact @ 70° to c/A; Upp'r & low'r contacts are SH zones; 5% qtz/carb wisps, blebs & gash infillings; 2% py + 15% aspy needles present.

1685.7 – 1686.3 Inclusion of alt'd ASMN.

1689.3 – 1690.7 Int SH zone.

**ALTERED QUARTZ MONZONITE (1689.8 – 1747.0)**

As before; Alt'n is int ser/ser & wk cc.

1694.1 wk shear @ 50° to c/A.

1696.7 wk shear @ 70° to c/A.

**MINERALIZATION**

5% py, 3% f.g.ed aspy
4% aspy needles
1% stibnite.

4% py,
1% aspy needles,
3% f.g.ed aspy,
1% stibnite,
<1% brown sl,
some c.g.ed aspy present.

3% py,
1% aspy needles.

2% py,
16% aspy needles,
1% stibnite.

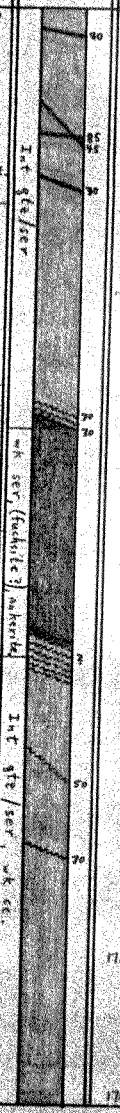
2% py,
16% aspy needles.

2% py,
1% aspy needles.

1% py,
1% aspy needles.

1% py,
1% aspy needles.

**GRAPHIC LOG**


90
85
30
70
SH zone
Intr. qtz/stibnite
Intr. qtz/stibnite
Intr. qtz/stibnite

OMNI RESOURCES INC. PROJECT POR - GODDELL DIAMOND DRILL HOLE No. 88-PG 2 Sheet 15 of 15

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERCEPT | SAMPLE CORE LENGTH | ANALYTICAL O.P.T. Au | ANALYTICAL O.P.T. Ag | ANALYTICAL (PPM) Cu | Pb | Zn | Mo | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1707 | | | | | | 1% py, 1% aspy needles. | | 1710 | | | | | | | | | | | | |
| 1717 | 10.0 | 10.0 | % 100 | .93 | | 1% py. | | 1715 | | | | | | | | | | | | |
| 1727 | 10.0 | 10.0 | % 100 | .85 | 1721.3 – 1723.3 Black brxx & banding; Rounded frag's of bleached QzMon & qtz in black, f.g.ed sx matrix; Band orientations are @ 25°, 40° & 60° to C/A; 2% py balls & <<1% aspy needles present. | 2% py balls, <<1% aspy needles. | | 1720 | C 59683 | 1721.3 – 1723.3 | 2.0 | .127 | .08 | 42 | 410 | 3405 | 81 | 2 | .83 | |
| 1737 | 10.0 | 10.0 | % 100 | .98 | | 1% py. | | 1725 | | | | | | | | | | | | |
| 1747 | 10.0 | 8.8 | % 88 | .82 | E.O.H. 1747.0 ft. | | | 1730 Scale change 1" = 10' 1740 1750 | | | | | | | | | | | | |

# DIAMOND DRILL HOLE LOG

Reason for Drilling: To test for mine" between 87-P64 & 87-P65.

Explanation of Results:

LEGEND

ALT° QZMN RHYL DYKE
QFP
ANDS DYKE
Qtz vein or str or QSSX BX.
Breccia
shearing
Intensity of alteration, foliation, banding

PROJECT: POP - SUDBELL.
COORDINATE N.
E.
ELEVATION: 1278 m
DATE STARTED: SEPT 28/88
COMPLETED: OCT 7/88.
HOLE SURVEY (dip tests): 767' Corrected dip = -72°; 1267' " " = -76°; 1767' " " = -79°

HOLE No.: 88-P67
DEPTH: 1767.0 ft (538.6m)
AZIMUTH: 174.5°
INCLINATION: -75°
DRILLED BY: COATS
ASSAYED BY: ACME & BONDAR CLEGG
LOGGED BY: JOHN BARIL. John Baril.

| BOX | Run | Core | %R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERCEPT | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: O.P.T Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | * IMPORTANT NOTE : On this hole, the 87' block was accidentally mislabeled as 97'. Therefore, when observing drill core from this hole, you must remember to mentally subtract 10' from each footage block reading (past the 97' block). This core log has already been corrected for the error. Also, there are two boxes which are labelled box 4. | | | | | | | | |
| | | | | | ↓ 4" CASING ↓ ALTERED QUARTZ MONZONITE (4.00 – 933.2) c.g.ed, equigranular; colour is generally mottled & varies from light green to dark green to white to pink to red to brown to cream coloured; Alt" is chl, ec, qtz/ser, leucoxene, loc hem & loc int arg alt" of fsp phenos; From 4.00 – 304.0, mod to int Feo stn is common, especially on frac's & shear zones; Loc ANDS dykes; Occasional xenoliths present; Minor loc aplite dykelets present; loc shears & shear zones occur; Loc minor black sulfide gouge is present in shears; Occasional qtz/carb str's, qtz str's & qtz/py str's are present throughout; Py content is < 1% overall & occurs as blebs, diss'd or conc'ed on frac's & str's; Rare Ep specs exist. | <1% py (blebs, diss'd & conc'ed on frac's & str's). | chl, ec, qtz/ser, leucoxene, loc hem & clay, rare Ep. 55 55 | Scale: 1" = 40' 20 40 60 80 drop 10' from here on. 100 120 140 160 180 | | | | | |
| | | | | | 46.8 – 68.6 F.g.ed to locally porphyritic, dark green ANDS dyke; where dyke is porphyritic, fsp phenos are generally ±1mm; Upp" & low" contacts @ 55° to C/A. | | | | | | | | |

OMNI RESOURCES INC. PROJECT Por - Bordell DIAMOND DRILL HOLE No. 87-243 Sheet 2 of 17

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERVAL | SAMPLE: CORE LENGTH | ANALYTICAL: G.P.T. Au | ANALYTICAL: OZ/T Ag | ANALYTICAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | <1% py (blebs, diss'd + conc'd on frac's + str's). | chl / cc, qtz/ser, leucoxene / lec hem + clays, rare Ep. | 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 | | | | | | |

OMNI RESOURCES INC. PROJECT POP - GODDELL DIAMOND DRILL HOLE No. 87-PG-1 SHEET 2 OF 19

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERCEPT | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: GRT Au |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | <1% py (blebs, diss'd + concd on fracs + stvs). | clay, sericite, leucoxene, loc hem + clay, rare Ep. | 500 520 540 560 580 600 620 640 660 680 700 720 740 760 780 | | | | | |

OMNI RESOURCES INC. PROJECT Lafarge Goodeve DIAMOND DRILL HOLE No. 90-283 Page 4 of 19

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERCEPT | CORE LENGTH | ANALYTICAL (FPM) OPT Au | ANALYTICAL (FPM) OPT Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | <1% py (blebs, diss'd + cons'd on frac's + str's). | chl, ser, fte/ser, tuff, lapilli, loc hem + clay, rare Ep. | 900 | | | | | | | | | | | | |
| | | | | | | | | 920 | | | | | | | | | | | | |
| | | | | | | | | 940 | | | | | | | | | | | | |
| 927 | | | | | | | | 900 Scale change; 1" = 10' | | | | | | | | | | | | |
| | 10.0 | 10.0 | 100% | .70 | ANDS DYKE (933.2 - 941.9) | | | 910 | | | | | | | | | | | | |
| | | | | | slightly porphyritic; 15% m.g.ed chloritized mafic phens in a f.g.ed matrix; Colour is generally dark green but locally is light greyish-green; Alt'n is chl, ser, fuchsite, loc hem, bright green mica specs (fuchsite?) + ankerite; upp" contact is a mod shear @ 10° to c/A; low" contact is a shear @ 50° to c/A; 2% qtz/carb str's; upp" contact margin is bleached for 0.5" + lower margin is bleached for 1.5"; In these bleached margins, the matrix are alt'd to bright green mica instead of chl; Trace | | | | | | | | | | | | | | |
| 937 | | | | | | | | 930 | | | | | | | | | | | | |
| | | | | | | | | | 59562 | 933.2 - 937.6 | 4.4 | .001 | .02 | | 9 | 55 | 26 | 5 | 2 | .12 |
| | 10.0 | 9.8 | 98% | .71 | | ac 1% py (only seen on one str). | | 940 | 59563 | 937.6 - 941.9 | 4.3 | .001 | .01 | | 8 | 53 | 20 | 11 | 2 | .46 |

OMNI RESOURCES INC. PROJECT POP - COPPER DIAMOND DRILL HOLE No. 85-P-3 PAGE 5 OF 17

| BOX | Run | Core | % R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERVAL | CORE LENGTH | ANALYTICAL (PPM): O.P.T. Au | O.R.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | rimd & oval shaped (amygdules ?) are present @ a 5 hard, light brown mineral inside. | | | | | | | | | | | | | | | |
| | | | | | **ALTERED QUARTZ MONZONITE (941.9 - 967.0)** | | | | | | | | | | | | | | | |
| | | | | | As before; Alt° is chl, ser, leucoxene, loc hem, loc wk ser; lo int any alt° of fsp phenos. | | | | | | | | | | | | | | | |
| | | | | | | <1% py (blebs, diss'd + con'd on frac's + str's). | | | | | | | | | | | | | | |
| | | | | | | | | 950 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 960 | | | | | | | | | | | | |
| | | | | | **ANDS DYKE (967.0 - 974.2)** | | | | | | | | | | | | | | | |
| | | | | | porphyritic; 5-6% alt°, f.g.ed fsp phenos in f.g.ed matrix. Colour is dark greyish-green to cream coloured w green specs; Alt° is chl, ep, ser, leucoxene, loc hem, bright green mica specs (fuchsite?) + ankerite; Upp° contact @ 15° to c/a; Low° contact @ 10° to c/a; 2% qtz/carb str's; Upp° contact margin is bleached for 1.6' + low° margin is bleached for 2.5'. | <1% & f.g.ed aspy. | | | | | | | | | | | | | |
| | | | | | | 5% mg.ed & c.g.ed aspy. | | | | | | | | | | | | | | |
| | 10.0 | 10.0 | % 100 | .68 | | | | 970 | 59564 | 967.0 - 970.0 | 3.0 | .001 | .01 | | 14 | 157 | 8 | 3 | 2 | .02 |
| | | | | | | | | | 59565 | 970.0 - 973.0 | 3.0 | .001 | .01 | | 15 | 116 | 7 | 27 | 2 | .10 |
| | | | | | | | | | 59566 | 973.0 - 974.2 | 1.2 | .001 | .01 | | 22 | 95 | 9 | 8 | 5 | .03 |
| | | | | | 967.0 - 967.3 mod sH zone @ 50° to c/a. | | | | | | | | | | | | | | | |
| | | | | | **ALTERED QUARTZ MONZONITE (974.2 - 993.2)** | | | | | | | | | | | | | | | |
| | | | | | As before. | | | | | | | | | | | | | | | |
| | 10.0 | 10.0 | % 100 | .94 | 974.2 - 982.9 Alt° is int gt/ser, loc bright green mica (fuchsite?) + loc hem specs; < 1% py. | <1% py. | | | | | | | | | | | | | | |
| | | | | | 982.9 - 990.0 Alt° is int gt/ser; 15% - 20% f.g.ed py occurring in blebs, as f.g.ed masses; core is generally bleached here. | 15 - 20 % py. | | 990 | 59567 | 982.9 - 986.5 | 3.6 | .018 | .04 | | 17 | 59 | 628 | 13 | 2 | .98 |
| | | | | | | | | | 59568 | 986.5 - 990.0 | 3.5 | .008 | .03 | | 20 | 51 | 1168 | 14 | 3 | .60 |
| | 10.0 | 10.0 | % 100 | .75 | 990.0 - 993.2 Alt° is int gt/ser; 6% py overall (f.g.ed mass's occurring as blebs + also along str's). | 6% py, <1% brown sl. | | | 59569 | 990.0 - 993.2 | 3.2 | .003 | .04 | | 119 | 467 | 944 | 17 | 2 | 4.40 |
| | | | | | 991.2 - 991.6 ~~qtz~~ qtz vein/dot @ 25° to c/a + 4 cm wide; 10% f.g.ed py + 2% brown sl blebs. | | | | | | | | | | | | | | | |
| | | | | | 992.0 - 993.4 wk shear zone @ 20° to c/a; At 992.0, there is a ¼ cm - 2 cm black sx bxy band @ 20° to c/a. | | | | | | | | | | | | | | | |
| | | | | | **NORTH QUARTZ-FELDSPAR PORPHYRY (RHYL Dyke) (993.2 - 1023.5').** | | | | | | | | | | | | | | | |
| | | | | | Porphyritic in a f.g.ed matrix; 10% qtz eyes, generally 1-2mm; 10% fsp phenos, generally 1-4 mm; Colour is greenish-buff + locally reddish brown; Alt° is loc hem, ser + weak 3% REP xenoliths present; The xenoliths, have a lower density of fsp phenos + qtz eyes; Occasional thin qtz/carb + qtz str's; low° contact @ 55° to c/a. | NONE | | 1000 | | | | | | | | | | | | |
| | | | | | 1018.7 - 1019.3 mod sH zone; 2 orientations are @ 15° & 65° to c/a. | | | | | | | | | | | | | | | |
| | | | | | | | | 1010 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 1020 | | | | | | | | | | | | |

OMNI RESOURCES INC. PROJECT Por - Gardell DIAMOND DRILL HOLE No. 89-P&Z Sheet 6 of 17

| BOX | Run | Core | %R | R.Q.D. |
|---|---|---|---|---|
| | 10.0 | 10.0 | 100% | .92 |
| 1027 | | | | |
| | 10.0 | 10.0 | 100% | .97 |
| 1037 | | | | |
| 1047 | 10.0 | 10.0 | 100% | .86 |

## LITHOLOGY, ALTERATION, STRUCTURE

**ALTERED QUARTZ MONZONITE (1023.5 - 1088.5)**

As before; Alt'n is wk low chl, sericite, lex carbonate, lo hem spots & lo mod very wk ↑ of fsp phenos; occasional black MS knots.

1026.1 - 1028.9 F.g.ed, dark green ANDS dykelet; Upp contact @ 5° to c/A; low contact @ 8° to c/A; ≥ 20% py overall which is in blebs, stringers or diss'd; < 1% qtz + qtz/carb whisps, str'g & gash infillings.

1088.2 - 1088.5 F.g.ed, light grey ANDS dykelet; Upp contact is a wk shear ± black gouge @ 55° to c/A; Low contact @ 30° to c/A; ± high density of blk or filled, criss crossing fracs exists; 6% e.g.ed py blebs present.

**ANDS DYKE (1088.5 - 1100.1)**

Porphyritic, med green to greenish-grey ± f.g.ed matrix; fsp phenos are alt'd to either ser or bright green mm flakes of

## MINERALIZATION

NONE.

15% py.

20% py.

1-3% py (blebs, diss'd & conc'ed on fracs).

6% py.

ca 1% py.

GRAPHIC LOG

FT.

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERVAL | CORE LENGTH | G.P.T. Au | GRAV Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
| 59570 | 1023.5 - 1026.1 | 2.6 | .039 | .06 | | 42 | 212 | 522 | 5 | 2 | .78 |
| 59571 | 1026.1 - 1028.9 | 2.8 | .077 | .20 | | 112 | 196 | 4778 | 28 | 4 | .76 |
| 59572 | 1088.2 - 1092.1 | 3.9 | .001 | .04 | | 53 | 226 | 16 | 17 | 2 | .94 |
| 59573 | 1092.1 - 1096.1 | 4.0 | .001 | .02 | | 36 | 186 | 5 | 34 | 2 | .38 |

OMNI RESOURCES INC. PROJECT YSP - GARNET LK DIAMOND DRILL HOLE No. 88-143 SHEET 2 of 19

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| | 10.0 | 10.0 | 100 % | .82 |
| | 10.0 | 9.7 | 97 % | .82 |
| | 10.0 | 10.0 | 100 % | .64 |
| | 10.0 | 10.0 | 100 % | .66 |

**LITHOLOGY, ALTERATION, STRUCTURE**

other alt$^n$ is ankerite + lox hem ; Low$^r$ contact @ 42° to c/A ; 1% gtz/carb str$^s$, whisps, blebs + gash infillings ; 5% hem stained open fx$^s$.

**ALTERED QUARTZ MONZONITE (1100.1 – 1206.5)**

As before ; alt$^n$ is low, mod-int strong + occasional bright green mica specs (fuchsite ?) ; core is generally wk$^{ly}$ to mod$^{ly}$ alt$^d$.

1100.1 – 1102.0 Fg.$^{ed}$, light grey ANDS dykelet ; Low$^r$ contact is irregular ; 3% py filled whisps + blebs present.

1102.2 – 1103.1 ½ alt$^d$ 82mm, ½ f.g.$^{ed}$ light grey ANDS dyke inclusion @ 2% e.g.$^{ed}$ py blebs.

1108.5 – 1109.1 Mylonitized black brn band ; sub-angular to rounded frag$^s$ of alt$^d$ 82mm + gtz, in a black, f.g.$^{ed}$ matrix ; 10% f.g.$^{ed}$ py exists in this matrix ; several of the frag$^s$ are stretched out ; Upp$^r$ contact @ 20° to c/A ; low$^r$ contact irregular + @ 15° to c/A.

1110.3 – 1111.1 Same as 1108.5 – 1109.1 ; Upp$^r$ contact irregular + @ 45° to c/A ; Low$^r$ contact irregular + @ 15° to c/A.

1149.7 – 1147.8 Porphyritic ANDS dyke ; fsp phenos are alt$^d$ to sev ; Upp$^r$ contact @ 55° to c/A ; Low$^r$ contact is a mod shear @ 45° to c/A ; 1% gtz/carb whisps + str$^s$.

1159.4 mod shear @ 20° to c/A.

1160.2 " " " 18° " " .

**MINERALIZATION**

<< 1% py.

8% py.

2% py.

< 1% py.

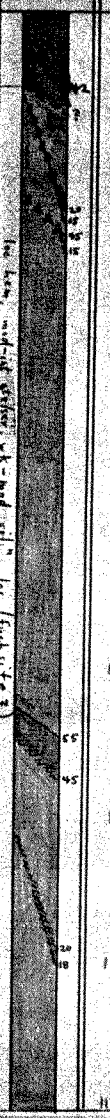
10% py

< 1% py

10% py

< 1% py (blebs, diss$^d$ + conc$^{ed}$ on frac$^s$).

**GRAPHIC LOG**




| FT. |
|---|
| 1100 |
| 1110 |
| 1120 |
| 1130 |
| 1140 |
| 1150 |
| 1160 |
| 1170 |

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERVAL | CORE LENGTH | O.P.T. Au | O.R.T. Au | Cu | Pb | Zn | Ag | Sb | Bi | Mo |
| 59574 | 1096.1 – 1100.1 | 4.0 | .001 | .02 | | 26 | 147 | 8 | 76 | 2 | 1.60 |
| 59575 | 1100.1 – 1103.1 | 3.0 | .001 | .02 | | 62 | 99 | 2 | 39 | 2 | .82 |
| 59576 | 1108.3 – 1111.3 | 3.0 | .004 | .01 | | 29 | 62 | 345 | 14 | 2 | .28 |
| 59577 | 1148.7 – 1147.8 | 3.1 | .001 | .02 | | 38 | 186 | 6 | 38 | 2 | .82 |

OMNI RESOURCES INC. PROJECT Fay-Cordell DIAMOND DRILL HOLE No. 88-FC3 Page 3 of 17

| BOX | From | Core | % R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. |
|---|---|---|---|---|---|---|---|---|
| | | | % | | 1171.0 wk shear @ 45° to c/A. | <1% py. | | |
| | | | | | 1171.4 " " " 50° " " . | | | |
| | 10.0 | 10.0 | 100 | .46 | 1174.3 " " " 70° " " . | 5% py. | | |
| 1172 | | | | | 1174.4 – 1175.9 1% py occurs here in the form of wisps + blebs. | | | |
| | | | % | | 1175.9 – 1180.3 Int, random wk zone; some shear orientations are @ 5°, 15° + 0° to c/A. | 2% py. | | |
| | 10.0 | 10.0 | 100 | .57 | 1179.9 – 1182.4 1-2% xtalline black brn bands; large angular qtz frag's are present; As well, smaller sub-rounded, rounded + stretched out frag's of qtz + alt'd aggr are present in the fg-gd black matrix; brn bands orientations are @ 0°, 10° + 20° to c/A. | 5% py. | | |
| 1187 | | | | | | | | |
| 1190 | | | | | | | | 1190 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | ALTERED QUARTZ MONZONITE BRECCIA (1206.5 – 1231.9) | | | |
| 1207 | 3.0 | 2.9 | 97% | .73 | Rounded to angular frag's of alt'd aggr from 1cm – 7cm in a soft, f-g.m. green matrix; Colour is mottled white to green. Alt'n is v int qtz/ser + sulphides; Upp' contact is @ 40° to c/A; Low' contact is an int shear @ 20° to c/A; Loc int silic exists. | <1% py. | | |
| | 10.0 | 9.9 | 99% | .82 | 1206.5 – 1217.0 Zone of v int brxn'n. | | | |
| | | | | | 1217.6 – 1231.9 Random wk – int shear zone; Some shear orientations are @ 0°, 20°, 30°, 35°, 45°, 50°, 55°, 60° + 65° to c/A. | | | |
| 1217 | | | | | | | | |
| | 10.0 | 10.0 | 100% | .26 | | | | |
| 1227 | | | | | | | | |
| | | | | | RHYL DYKE – Quartz-feldspar porphyry (1231.9 – 1310.5) | | | |
| | 10.0 | 10.0 | 100% | .48 | porphyritic c an aphanitic matrix; 3-4% fsp phen's, generally 1-2 mm; 5% qtz eyes, generally 1-2 mm; Colour is light grey; Alt'n is loc ser alt'n of fsp phen's + loc ser on frac's + loc cc alt'n of fsp phen's; Upp' contact is an int shear @ 30° to c/A; Low' contact is @ 50° to c/A. Loc minor chl exists on frac's; Loc thin graphite/py coated frac's present; Contacts are fine banded + locally flow'd. | 1% py. | | |
| 1237 | | | | | 1237.6 wk shear @ 20° to c/A. | | | |
| | | | | | 1238.9 Int " " 30° " " . | | | |

| SAMPLE | | CORE LENGTH | ANALYTICAL (PPM) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERVAL | | G.P.X. Au | G.M.T. Au | Cu | Pb | Zn | As | Sb | Bi | Mo |
| 59578 | 1174.4 – 1175.9 | 1.5 | .009 | .05 | | 30 | 35 | 1154 | 81 | 2 | .43 |
| 59579 | 1175.9 – 1180.3 | 4.4 | .007 | .01 | | 20 | 55 | 410 | 105 | 2 | .22 |
| 59580 | 1180.3 – 1182.4 | 2.1 | .032 | .04 | | 44 | 36 | 809 | 59 | 2 | .25 |
| 59637 | 1206.5 – 1211.5 | 5.0 | .001 | .01 | | 14 | 30 | 8 | 15 | 2 | .07 |
| 59638 | 1211.5 – 1216.5 | 5.0 | .001 | .01 | | 11 | 27 | 12 | 14 | 2 | .03 |
| 59639 | 1216.5 – 1221.5 | 5.0 | .001 | .01 | | 5 | 37 | 11 | 16 | 2 | .03 |
| 59640 | 1221.5 – 1226.5 | 5.0 | .001 | .01 | | 3 | 36 | 5 | 17 | 2 | .04 |
| 59641 | 1226.5 – 1229.2 | 2.7 | .001 | .01 | | 9 | 42 | 5 | 20 | 2 | .06 |
| 59642 | 1229.2 – 1231.9 | 2.7 | .001 | .01 | | 12 | 38 | 22 | 33 | 2 | .16 |

OMNI RESOURCES INC. PROJECT Poz-Goodeve DIAMOND DRILL HOLE No. 91-P&B SHEET No. 2 of ...

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERVAL | SAMPLE: CORE LENGTH | ANALYTICAL (PPM): O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1239.7 wk shear @ 11° to c/A. | | | | | | | | | | | | | | |
| | | | | | 1242.7 " " " 15° " " . | | | | | | | | | | | | | | |
| | | | | | 1258.7 wk shear @ 19° to c/A. | 1% py. | | 1260 | | | | | | | | | | | |
| | | | | | | | | 1270 | | | | | | | | | | | |
| | | | | | | | | 1280 | | | | | | | | | | | |
| | | | | | 1288.2 wk shear @ 20° to c/A. | | | | | | | | | | | | | | |
| | | | | | 1290.0 " " " 18° " " . | | | 1290 | | | | | | | | | | | |
| | 10.0 | 7.8 | 78% | .75 | 1293.4 – 1293.8 95% black mylonitic brxx @ 25° to c/A; small round + stretched out frag's of grd + RHYL dyke in a f.g.ed black matrix. | 5% py. | | | 59643 | 1293.4 – 1295.0 | 1.6 | .016 | .01 | | 25 | 111 | 1922 | 64 | 2 |
| | | | | | 1294.5 – 1295.0 75% black mylonitic brxx; black brxx bands are @ 25° & 40° to c/A; Rounded, sub-angular & stretched out frag's of RHYL dyke exist in a black, f.g.ed matrix. | | | 1300 | | | | | | | | | | | |
| | | | | | 1302.7 md shear @ 90° to c/A. | 1% py. | | | | | | | | | | | | | |
| | | | | | 1306.0 wk shear @ 35° to c/A. | | | | | | | | | | | | | | |
| | | | | | MIXED ZONE OF ALTERED QUARTZ MONZONITE AND ANDS DYKES — Generally black sulfide banded, brecciated and mylonitized (1310.5 – 1290.6). Core is either crackle free or banded, w black sx gouge in between the bands; Shearing is common throughout; lots black brxx occurs; black brxx consists of mylonitized + brxx'd RHYL or ANDS dyke material; In between the RHYL or ANDS dyke frag's is a f.g.ed black sulfide + gouge mixture | | | 1310 Scale change 1" = 5' | | | | | | | | | | | |
| | 10.0 | 10.0 | 100% | .61 | | 8% py. | | | 59753 | 1310.5 – 1313.3 | 2.8 | .027 | .05 | 32 | 97 | 226 | 3164 | | |

OMNI RESOURCES INC. · PROJECT POP - GODDELL · DIAMOND DRILL HOLE No. 88-P87 · PAGE 10 of 19

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERCEPT | SAMPLE: CORE LENGTH | ANALYTICAL (PPM): O.P.T. Au | ANALYTICAL (PPM): Q.R.T Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1317 | | | | | Black brnx bands ave @ 25°, 30°, 40°, 45° + 50° to c/A; Upp^r contact is @ 50° to c/A; Alt^n is ser/ser, loc cc, loc enkerite + loc bright green mica specs (fuchsite ?); <1%-5% qtz/carb whisps, blebs + gash infillings occur; These infillings have a greater density in the ANDS dykes. | | | 1315 | | | | | | | | | | | |
| | | | | | 1310.8 – 1318.3 Alt^d Qzmv – Loc shearing, black brnx; black sx bands + crackle brnx^n. | 3% py. | | | 59754 | 1313.3 – 1319.3 | 5.0 | .005 | .05 | 114 | 174 | 296 | 361 | | | |
| | | | | | 1318.3 – 1323.1 Int black brnx, black sx banding + loc shearing. | < 1% py. | | 1320 | 59755 | 1318.3 – 1323.1 | 4.8 | .015 | .03 | 50 | 97 | 493 | 233 | | | |
| | 10.0 | 10.0 | 100% | .75 | 1319.3 – 1323.1 F.g.^ed, bleached ANDS DYKE; Upp^r contact @ (50°?) to c/A; Low^r contact @ (50°?) to c/A; 5% qtz/carb whisps, blebs + gash infillings. | | | | | | | | | | | | | | | |
| | | | | | 1323.1 – 1325.2 Alt^d Qzmv. | < 1% py. | | | 59756 | 1323.1 – 1325.2 | 2.1 | .001 | .01 | 12 | 13 | 48 | 11 | | | |
| 1327 | | | | | 1325.2 – 1328.4 F.g.^ed, bleached ANDS DYKE; Upp^r contact @ 55° to c/A; Low^r contact @ 40° to c/A; 5% qtz/carb whisps, blebs + gash infillings. | | | 1325 | | | | | | | | | | | | |
| | | | | | | < 1% py. | | | 59757 | 1325.2 – 1328.4 | 3.2 | .001 | .01 | 32 | 28 | 74 | 11 | | | |
| | | | | | 1328.4 – 1347.4 Alt^d Qzmv. | | | | | | | | | | | | | | | |
| | | | | | 1326.4 – 1330.1 High density of black sx bands. | 1% py. | | 1330 | 59758 | 1328.4 – 1332.4 | 4.0 | .009 | .01 | 6 | 20 | 117 | 1061 | | | |
| | 10.0 | 9.9 | 99% | .78 | 1333.8 – 1334.8 F.g.^ed, bleached ANDS dykelet @ 35° to c/A. | < 1% py. | | 1335 | 59759 | 1332.4 – 1337.4 | 5.0 | .001 | .01 | 9 | 9 | 46 | 11 | | | |
| | | | | | 1340.8 – 1347.4 High density of black brnx + black sx bands. | 3% py. | | 1340 | 59760 | 1337.4 – 1342.4 | 5.0 | .005 | .01 | 16 | 47 | 75 | 690 | | | |
| | 10.0 | 10.0 | 100% | .85 | 1342.8 – 1343.6 F.g.^ed, bleached ANDS dykelet; Upp^r contact @ 60° to c/A; Low^r contact @ 15° to c/A. | | | | | | | | | | | | | | | |
| | | | | | | 3% py. | | 1345 | 59761 | 1342.4 – 1347.4 | 5.0 | .041 | .03 | 9 | 30 | 104 | 1369 | | | |
| 1347 | | | | | 1347.4 – 1364.0 V int^ly mylonitized + black brnx^d; Occasional qtz frag^s are present in the brnx; Upp^r contact @ 25° to c/A; Low^r contact irregular + @ 35° to c/A. | 2% py. | | 1350 | 59762 | 1347.4 – 1351.6 | 4.2 | .021 | .11 | 27 | 44 | 112 | 573 | | | |

OMNI RESOURCES INC. PROJECT Ref – Fenderl DIAMOND DRILL HOLE No. FF-F03 SHEET 11 of 19

| BOX | Run | Core | %R | R.Q.D. |
|---|---|---|---|---|
| | 10.0 | 10.0 | 100% | .83 |
| | 10.0 | 10.0 | 100% | .83 |
| | 10.0 | 10.0 | 100% | .35 |
| | 10.0 | 10.0 | 100% | .68 |

**LITHOLOGY, ALTERATION, STRUCTURE**

1364.0 – 1369.9 alt'd granite; several black sx bands present.

1364.5 – 1366.3 Int silica flooding.

1369.1 – 1370.6 QZ SX BX; brx'd qtz vein w fg'd py & stibnite in the interstices; 5% py + 5% stibnite present; 3% ankerite streaks & specs; Upp' contact @ (15°?) to c/a; Low' contact @ 40° to c/a.

1370.6 – 1387.5 v int'l mylonitized & block brx'd; Occasional qtz frag's present in the brx.

1372.2 – 1374.4 Inclusion of alt'd granite w occasional minor black sx bands; Upp' contact @ 50° to c/a; Low' contact @ 10° to c/a.

1375.3 – 1377.0 Inclusion of alt'd granite w occasional minor black sx bands; Upp' contact @ 20° to c/a; Low' contact @ 30° to c/a.

1381.3 – 1382.1 Inclusion of alt'd granite w occasional minor black sx bands @ 30° to c/a.

1387.5 – 1390.6 Fg'd ANDS DYKE; Upp' contact @ 60° to c/a; Low' contact is a shear @ 20° to c/a; 5% qtz/carb str's, blebs & gash infillings.

**MINERALIZATION**

2% py.

1% py.

2% py, Tr stibnite.

< 1% py.

5% py, 5% stibnite.

< 1% py.

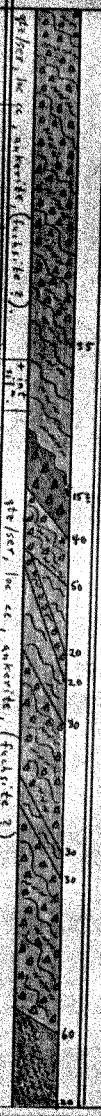
< 1% py.

1% py.

2–3% py.

< 1% py.

**GRAPHIC LOG**




| FT. | Sample No. | Interval | Core Length | Au OPT | Au GMT | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1355 | 59763 | 1351.6 – 1355.8 | 4.2 | .039 | .01 | 8 | 17 | 92 | 191 | | | |
| | 59764 | 1355.8 – 1360.0 | 4.2 | .008 | .01 | 6 | 11 | 43 | 62 | | | |
| 1360 | 59765 | 1360.0 – 1364.0 | 4.0 | .037 | .02 | 9 | 26 | 109 | 565 | | | |
| 1365 | 59766 | 1364.0 – 1369.1 | 5.1 | .003 | .01 | 4 | 10 | 35 | 71 | | | |
| 1370 | 59767 | 1369.1 – 1370.6 | 1.5 | .213 | 1.14 | 41 | 1695 | 7702 | 1120 | | | |
| | 59768 | 1370.6 – 1374.9 | 4.3 | .032 | .03 | | 20 | 102 | 1302 | 183 | 2 | .24 |
| 1375 | 59769 | 1374.9 – 1379.1 | 4.2 | .029 | .04 | | 42 | 157 | 1436 | 647 | 2 | .38 |
| 1380 | 59770 | 1379.1 – 1383.3 | 4.2 | .085 | .35 | | 96 | 1618 | 1754 | 7172 | 2 | 2.00 |
| 1385 | 59771 | 1383.3 – 1387.5 | 4.2 | .016 | .06 | | 24 | 192 | 1112 | 123 | 4 | .18 |
| 1390 | 59772 | 1387.5 – 1390.6 | 3.1 | .001 | .09 | | 112 | 192 | 65 | 186 | 3 | .55 |

OMNI RESOURCES INC. PROJECT POP – GODDELL DIAMOND DRILL HOLE No. 88-P12 Sheet 12 of 19

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERVAL | SAMPLE CORE LENGTH | ANALYTICAL O.P.T. Au | ANALYTICAL O.P.T Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1387.9 – 1390.6 Int shear zone @ 10° to c/a. | | | | | | | | |
| | | | | | SOUTH QUARTZ – FELDSPAR PORPHYRY (RHYL DYKE). (1390.6 – 1492.5') | | | | | | | | |
| | 10.0 | 10.0 | 100 % | .59 | Porphyritic ± f.g.ed groundmass; 20% fsp phens, generally 2-6 mm; 1% qtz eyes, generally 1-2 mm; colour is grey/green ± white specs; AlO is lev ser, moderate to lge ub but pervasive silh; occasional minor gtz/carb ± muscovite str'g. Upp & low contacts are sphenolitic. | Tr py. | Bleaching, lge ser + silh | 1375 1400 scale change 1" = 10' 1410 1420 1430 1440 1450 | | | | | |
| 1397 | | | | | | | | | | | | | |

OMNI RESOURCES INC. PROJECT Pop-Goddell DIAMOND DRILL HOLE No. 91-P63 Sheet 13 of 19

| BOX | Run | Core | %R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERVAL | SAMPLE CORE LENGTH | ANALYTICAL (PPM) O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1488.9 wk shear @ 15° to C/A. | | | 1480 | | | | | | | | | | | | |
| | | | | | 1490.7 wk shear @ 12° to C/A. | | | | | | | | | | | | | | | |
| | | | | | 1491.0 wk shear @ 18° to C/A. | | | 1490 | | | | | | | | | | | | |
| | 10.0 | 10.0 | 100% | .90 | ALTERED QUARTZ MONZONITE (1492.5 – 1547.3) | Tr py. | | | | | | | | | | | | | | |
| | | | | | As before; Alt'n is ø int qtz/ser + loc carbonate; loc black sx bands & mylonitic black bxx; core is badly sil'd. | <1-3% py, <<1% aspy needles. | | | | | | | | | | | | | | |
| | | | | | 1495.1 – 1498.2 f.g.ed, bleached Andos dyke; Upp contact irregular + @ 35° to C/A; Low contact irregular + @ 20° to C/A; 10% qtz/carb whisps, blebs + gash infillings; 4% py, ½% aspy needles. | 4% py, ½% aspy needles. | | 1500 | 59644 | 1495.1 – 1498.2 | 3.1 | .001 | .06 | 236 | 267 | 999 | 39 | 2 | .83 |
| | 10.0 | 10.0 | 100% | .95 | | | | | | | | | | | | | | | | |
| | | | | | | <1-3% py, <<1% aspy needles. | | 1510 | | | | | | | | | | | | |
| | | | | | 1514.5 – 1517.1 f-m'y sil'd + sulfidized (15% py cubes present). | | | | | | | | | | | | | | | |
| | | | | | 1521.7 – 1522.3 70% Int black ox band; fmg's of alt'd qzmz & qtz are present in a f.g.ed black matrix; band orientation is @ 45° to C/A; 80% stibnite, 2% brown sl, 2% py + 1% aspy present). The aspy occurs as needles + f.g.ed blebs. | 50% stibnite, 3% brown sl, 2% py + 1% aspy. 2% py, 1% aspy needles, Tr brown sl blebs. | | 1520 | 59645 | 1521.7 – 1522.3 | 0.6 | .684 | 1.63 | 202 | 34 | 3858 | 68 | 75 | 35.00 |
| | 10.0 | 10.0 | 100% | .86 | | | | | 59646 | 1522.3 – 1527.3 | 5.0 | .080 | .08 | 90 | 432 | 7820 | 3296 | 2 | .88 | |
| | | | | | 1522.3 – 1540.3 Intensity of black ox bands + black bxx increases dramatically (20-25% black ox bands). | 4-5% py, <1% aspy needles. | | | 59647 | 1527.3 – 1532.3 | 5.0 | .108 | .04 | 8 | 178 | 5918 | 71 | 2 | .40 |

OMNI RESOURCES INC. PROJECT POP-GODDELL DIAMOND DRILL HOLE No. 88-P63 SHEET 14 of 19

| BOX | Run | Core | % R | RQD |
|---|---|---|---|---|
| | 10.0 | 10.0 | 100 % | .87 |
| | 10.0 | 10.0 | 100 % | .85 |
| | 10.0 | 9.9 | 99 % | .55 |
| | 10.0 | 10.0 | 100 % | .93 |
| | 10.0 | 10.0 | 100 % | .75 |

**LITHOLOGY, ALTERATION, STRUCTURE**

1545.2 – 1547.3 Porphyritic, int$^{d}$ AMMS dyke; 25% m.g.$^{ed}$ to c.g.$^{ed}$ fsp phens$^{s}$ in aphan. c, int$^{ly}$ ser +clt$^{d}$ matrix; fsp phens$^{s}$ are alt$^{d}$ to carbonate; Upp$^{r}$ contact is an int shear @ 75° to c/A; Low$^{r}$ contact is an int shear zone (from 1547.0 – 1547.3) @ 10° to c/A.

**ALTERED QUARTZ MONZONITE BRECCIA (1547.3 – 1584.5)**

m.g.$^{ed}$ to v c.g.$^{o}$ frag$^{s}$ of qzmm in a f.g.$^{ed}$ greenish matrix (int$^{ly}$ ser alt$^{d}$); Frag$^{s}$ are sub-rounded to rounded; Alt$^{n}$ is v int gte/ser + carbonate; frequent black mylonitic brxx segments & black sx bands.

1548.2 wk shear @ 40° to c/A.

1552.1 – 1552.5 75% mylonitic black brxx @ ≈ 25° to c/A; sub-rounded, rounded & stretched out frag$^{s}$ of qzmm & gte in a f.g.$^{rd}$ black matrix.

1555.8 wk shear @ (30°?) to c/A.

1557.3 – 1558.6 45% mylonitic black brxx; sub-rounded, rounded & stretched out frag$^{s}$ of qzmm & gte in a f.g.$^{ed}$ black matrix; Some brxx band orientations are @ 20°, 40° & 55° to c/A.

1569.9 – 1571.7 Random wk-int shear zone; Some shear orientations are @ 20°, 30° & 40° to c/A.

1574.4 – 1584.5 Brxx$^{n}$ of qzmm becomes more int & mylonitic black brxx + black sx bands become more common.

1580.4 – 1581.2 mod shear @ 30° to c/A.

**MINERALIZATION**

7% py, 1% aspy needles.

2% py; 2-3% aspy (needles & f.g.$^{rd}$ blebs) <1% brown sl.

1-2% py, Tr aspy needles.

Tr py.

<1% py.

2% py, Tr aspy needles.

1% py, Tr aspy needles.

1% py, Tr aspy needles.

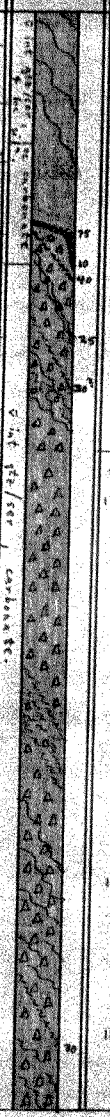
<1% py, Tr aspy needles.

<1% py.

1% py, <<1% f.g.$^{rd}$ aspy.

<1% py, <1% aspy needles.

**GRAPHIC LOG**




**FT.**

1540
1550
1560 Scale change 1"=5'
1565
1570
1575
1580

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERVAL | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
| 59648 | 1532.3 – 1536.3 | 4.0 | .095 | .16 | 51 | 343 | 7105 | 1284 | 2 | .70 | |
| 59649 | 1536.3 – 1540.3 | 4.0 | .089 | .07 | 72 | 387 | 6976 | 107 | 4 | .78 | |
| 59650 | 1540.3 – 1545.2 | 4.9 | .006 | .10 | 352 | 176 | 533 | 201 | 2 | .83 | |
| 59901 | 1545.2 – 1547.3 | 2.1 | .001 | .01 | 20 | 52 | 22 | 45 | 2 | .11 | |
| 59902 | 1547.3 – 1552.3 | 5.0 | .001 | .01 | 104 | 78 | 115 | 53 | 2 | .22 | |
| 59903 | 1552.3 – 1557.3 | 5.0 | .011 | .03 | 128 | 65 | 612 | 101 | 2 | .15 | |
| 59904 | 1557.3 – 1562.3 | 5.0 | .063 | .01 | 148 | 121 | 1186 | 106 | 2 | .50 | |
| 59905 | 1562.3 – 1567.3 | 5.0 | .001 | .01 | 46 | 91 | 307 | 61 | 2 | .46 | |
| 59906 | 1567.3 – 1572.3 | 5.0 | .002 | .04 | 48 | 85 | 227 | 76 | 2 | .40 | |
| 59907 | 1572.3 – 1574.4 | 2.1 | .001 | .01 | 21 | 59 | 128 | 66 | 2 | .12 | |
| 59773 | 1574.4 – 1579.5 | 5.1 | .002 | .01 | 27 | 91 | 299 | 64 | 2 | .13 | |
| 59774 | 1579.5 – 1584.5 | 5.0 | .001 | .06 | 15 | 106 | 188 | 95 | 2 | .25 | |

OMNI RESOURCES INC. PROJECT POP-GODDELL DIAMOND DRILL HOLE No. 88-163 Sheet 15 of 19

| BOX | Run | Core | % R | RQD |
|---|---|---|---|---|
| | 10.0 | 10.0 | 100% | .89 |
| | 10.0 | 10.0 | 100% | .91 |
| | 10.0 | 10.0 | 100% | .93 |
| | 10.0 | 9.8 | 98% | .76 |

**LITHOLOGY, ALTERATION, STRUCTURE**

**ANDS DYKE (1584.5 – 1588.5)**

F.g.ed, greenish-grey; Alt'n is ankerite, wk to strg bright green mica specs (fuchsite?); Upp'r contact is a wk shear @ 15° to c/A; Low'r contact is ū irregular; 4% qtz/carb whisps, blebs & gash infillings.

1586.8 – 1587.0 Small alt'd qzmn inclusion.

**ALTERED QUARTZ MONZONITE BRECCIA (1588.5 – 1595.5)**

As before; Alt'n is ū int qtz/ser, lw ankerite.

1591.4 – 1592.2 ANDS DYKE inclusion.

1594.3 – 1594.7 ANDS DYKE inclusion.

**ANDS DYKE (1595.5 – 1609.3)**

F.g.ed, greenish-grey; Alt'n is ankerite, lw wk ser & bright green mica specs (fuchsite?); Upp'r contact is irregular & @ 35° to c/A; Low'r contact is irregular & @ (30°?) to c/A; 10% qtz/carb whisps, blebs & gash infillings.

1607.6 – 1608.0 Alt'd qzmn boxx inclusion.

**ALTERED QUARTZ MONZONITE (1609.3 – 1612.7)**

As before; Alt'n is ū int qtz/ser.

1609.2 – 1609.7 Mod random shear zone.

**ANDS DYKE (1612.7 – 1619.2)**

As above; Low'r contact @ 35° to c/A; 4% qtz/carb whisps, blebs & gash infillings.

**ALTERED QUARTZ MONZONITE (1619.2 – 1624.3)**

As before; Alt'n is ū int qtz/ser, lw ankerite.

**MINERALIZATION**

3% py, 2% aspy needles.

2-3% py, ½% aspy needles.

3% py, 3% aspy needles.

4% py, 4% aspy needles.

5% py, 6% aspy needles.

3% py, 3% aspy needles.

3% py, 1½% aspy needles.

1% py, Tr aspy needles.

3% py, 3% aspy needles.

**GRAPHIC LOG**

| FT. | Sample No. | Interval | Core Length | Au P.P.T. | Au G.P.T. | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1585 | 59775 | 1584.5 – 1588.5 | 4.0 | .001 | .01 | | 18 | 131 | 7092 | 226 | 3 | .12 |
| 1590 | 59776 | 1588.5 – 1591.5 | 3.0 | .001 | .02 | | 20 | 98 | 1632 | 35 | 2 | .13 |
| | 59777 | 1591.5 – 1595.5 | 4.0 | .019 | .01 | | 14 | 121 | 4472 | 31 | 2 | .23 |
| 1595 | 59778 | 1595.5 – 1600.5 | 5.0 | .023 | .09 | | 35 | 135 | 5542 | 80 | 5 | .38 |
| 1600 | 59779 | 1600.5 – 1605.5 | 5.0 | .095 | .02 | | 29 | 168 | 7798 | 30 | 2 | .27 |
| 1605 | 59780 | 1605.5 – 1609.3 | 3.8 | .001 | .02 | | 17 | 127 | 3630 | 28 | 5 | .14 |
| 1610 | 59781 | 1609.3 – 1612.7 | 3.4 | .001 | .01 | | 12 | 94 | 1697 | 62 | 2 | .29 |
| | 59782 | 1612.7 – 1615.9 | 3.2 | .001 | .01 | | 9 | 151 | 324 | 47 | 2 | .13 |
| 1615 | 59783 | 1615.9 – 1619.2 | 3.3 | .009 | .01 | | 17 | 149 | 3752 | 30 | 3 | .16 |
| 1620 | | | | | | | | | | | | |

OMNI RESOURCES INC. PROJECT PAP-GODDELL DIAMOND DRILL HOLE No. PP-P63 SHEET 18 OF 19

| BOX | Run | Core | % R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1620.8 – 1621.0 f.g.$^{ed}$ ANDS dykelet @ 75° to C/A. | 4% py, 3% aspy needles. | | |
| | | | | | 1621.7 – 1622.1 f.g.$^{ed}$ ANDS DYKE inclusion. | | | |
| | | | | | 1622.3 – 1622.7 f.g.$^{ed}$ ANDS dykelet @ (60°?) to C/A. | | | |
| | 10.0 | 10.0 | 100% | .65 | **ANDS DYKE (1624.3 – 1631.3)** | | | |
| | | | | | As before; Upp$^{r}$ contact @ 90° to C/A; 1-2% gtz/carb whisps, blebs + gash infillings. | 8% py, 6% aspy needles. | | |
| | | | | | 1625.8 – 1626.3 wk shear zone; shears are @ 45°, 40°, 30° + 10° to C/A. | | | |
| | | | | | | 4% py, 1% aspy needles. | | 1630 |
| | | | | | **ALTERED QUARTZ MONZONITE (1631.3 – 1649.3)** | | | |
| | 10.0 | 10.0 | 100% | .64 | As before; Alt$^{n}$ is ∓ int gtz/ser, lcc ankerite + lcc bright green mica specs (fuchsite?); several ANDS dykelets + ANDS dyke inclusions present. | 1% py. | | |
| | | | | | 1632.5 – 1633.8 f.g.$^{ed}$ ANDS dykelet; Upp$^{r}$ contact irregular; Low$^{r}$ contact @ 25° to C/A; 4% py, 3% aspy needles; 4% gtz/carb str$^{s}$. | 4% py, 3% aspy needles. | | |
| | | | | | 1634.8 – 1635.6 f.g.$^{ed}$ ANDS dykelet; Upp$^{r}$ & low$^{r}$ contacts irregular; 3% py, 3% aspy needles; 5% gtz/carb whisps, blebs + gash infillings. | 3% py, 1½% aspy needles, possible v.g. | | 1635 |
| | | | | | 1635.9 – 1636.3 ½ f.g.$^{ed}$ ANDS DYKE inclusion, ½ alt$^{d}$ @2mm. | | | |
| | | | | | 1637.9 – 1638.3 f.g.$^{ed}$ ANDS dykelet; Upp$^{r}$ contact irregular; Low$^{r}$ contact irregular + @ 60° to C/A; 4% py, 3% aspy needles; 4% gtz/carb whisps, blebs + gash infillings. | 4% py, 2% aspy needles, possible v.g. | | 1640 |
| | 10.0 | 10.0 | 100% | .78 | | | | |
| | | | | | 1642.3 – 1644.0 f.g.$^{ed}$ ANDS dykelet; Upp$^{r}$ contact @ 55° to C/A; Low$^{r}$ contact irregular; 7% py, 3% aspy needles; 1% gtz/carb whisps, blebs + gash infillings. | 7% py, 3% aspy needles. | | |
| | | | | | | 4% py, 1% aspy needles, Tr brown sl. | | 1645 |
| | | | | | | 5% py, 5% f.g.$^{ed}$ aspy, 5% aspy needles, 1% stibnite, Tr brown sl. | | |
| | | | | | 1648.6 – 1649.2 ½ f.g.$^{ed}$ ANDS DYKE inclusion, ½ alt$^{d}$ @2mm. | | | |
| | | | | | **ANDS DYKE (1649.3 – 1656.1)** | 3% py, 3% aspy needles, ½% stibnite, ⅛% brown sl. | | 1650 |
| | 10.0 | 10.0 | 100% | .80 | f.g.$^{ed}$, greyish black; Alt$^{n}$ is lcc wk ser, ankerite, lcc bright green mica specs (fuchsite?); Upp$^{r}$ contact @ 70° to C/A; Low$^{r}$ contact @ 25° to C/A; 2% gtz + gtz/stibnite/sl str$^{s}$; the gtz/stibnite/sl str$^{s}$ contain stibnite + brown sl. | | | |
| | | | | | | 7% py, 5% f.g.$^{ed}$ aspy, 5% aspy needles. | | 1655 |
| | | | | | **ANDS DYKE (1656.1 – 1660.8)** | | | |
| | | | | | f.g.$^{ed}$, greyish – green; Alt$^{n}$ is lcc ser, ankerite + lcc bright green mica specs (fuchsite?); Low$^{r}$ contact @ 40° to C/A; 4% | | | |

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERCEPT | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
| 59784 | 1619.2 – 1624.3 | 5.1 | .203 | .02 | | 19 | 89 | 5086 | 19 | 2 | .27 |
| 59785 | 1624.3 – 1627.8 | 3.0 | .766 | .07 | | 14 | 184 | 16,614 | 92 | 2 | 1.20 |
| 59786 | 1627.3 – 1631.3 | 4.0 | .010 | .01 | | 12 | 130 | 7330 | 19 | 2 | .56 |
| 59787 | 1631.3 – 1632.5 | 1.2 | .006 | .01 | | 14 | 77 | 657 | 8 | 2 | .31 |
| 59788 | 1632.5 – 1633.8 | 1.3 | .411 | .07 | | 11 | 323 | 15,881 | 34 | 2 | 1.90 |
| 59789 | 1633.8 – 1638.3 | 4.5 | .011 | .05 | | 2 | 85 | 2325 | 17 | 2 | .35 |
| 59790 | 1638.3 – 1642.3 | 4.0 | .179 | .07 | | 2 | 142 | 4732 | 32 | 2 | .88 |
| 59791 | 1642.3 – 1644.0 | 1.7 | 1.908 | .11 | | 5 | 356 | 12,011 | 43 | 2 | 2.90 |
| 59792 | 1644.0 – 1646.7 | 2.7 | .338 | .05 | | 4 | 210 | 7805 | 32 | 2 | 1.50 |
| 59793 | 1646.7 – 1649.3 | 2.6 | .472 | .21 | | 49 | 225 | 9606 | 5628 | 2 | 1.90 |
| 59794 | 1649.3 – 1653.3 | 4.0 | 2.030 | .22 | | 52 | 942 | 29,754 | 3047 | 2 | 8.20 |
| 59795 | 1653.3 – 1656.1 | 2.8 | 1.550 | .12 | | 11 | 474 | 25,358 | 72 | 2 | 3.90 |

OMNI RESOURCES INC. PROJECT 287 - SIDDELL DIAMOND DRILL HOLE No. 85-163 SHEET 17 OF 19

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| | 10.0 | 10.0 | 100% | .99 |
| | 10.0 | 10.0 | 100% | .98 |
| | 10.0 | 9.8 | 98% | .91 |
| | 10.0 | 10.0 | 100% | .93 |

**LITHOLOGY, ALTERATION, STRUCTURE**

qtz/carb whisps, blebs + gash infillings.

**ALTERED QUARTZ MONZONITE (1660.8 – 1781.4)**

As before; Alt$^n$ is v int qtz/ser, loc small hem specs, loc anhedrite + int avg alt$^n$ of fsp phen$^s$; occasional block or bands. Occasional minor qtz str$^s$.

1666.5 – 1667.7 Sub-porphyritic; bleached MNDS dyke/et ≈ f.g.$^{ed}$ matrix; Upp$^r$ contact irregular + @ ≈ (55°?) to c/A; Low$^r$ contact irregular + @ ≈ (50°?) to c/A; 4% qtz/carb whisps, blebs + gash infillings; 2% py, << 1% aspy needles.

1669.0 – 1671.7 Sub-porphyritic, bleached MNDS dyke/et ≈ f.g.$^{ed}$ matrix; Upp$^r$ contact irregular + @ ≈ (40°?) to c/A; Low$^r$ contact irregular + @ ≈ (25°?) to c/A; 4% qtz/carb whisps, blebs + gash infillings; 1-2 % py, << 1% aspy needles.

1672.6 – 1674.4 Sub-porphyritic, bleached MNDS dyke/et ≈ f.g.$^{ed}$ matrix; Upp$^r$ contact irregular + @ ≈ (35°?) to c/A; 7% qtz/carb whisps, blebs + gash infillings; 1-5 % py, < 1% aspy needles.

1681.2 mod shear @ 25° to c/A.

**MINERALIZATION**

4% py, 3% aspy needles.

2% py, <1% aspy needles.

1-2% py, << 1% aspy needles.

1-2 % py, << 1% aspy needles.

1% py, < 1% aspy needles.

1-5 % py, <1% aspy needles.

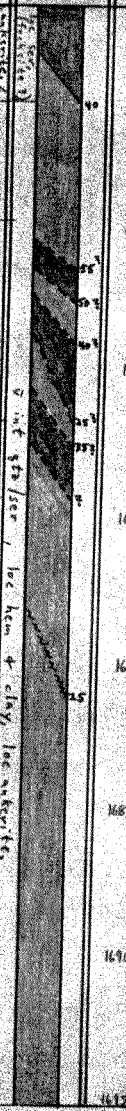
1-2 % py, < 1% aspy needles.

1% py, << 1% aspy needles.

1% py, <1% aspy needles.

<1% – 2% py, << 1% aspy needles.

**GRAPHIC LOG**




| FT. | Sample No. | Interval | Core Length | Au (FPM) | Ag (FPM) | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1660 | 59796 | 1656.1 – 1660.8 | 4.7 | .014 | .02 | | 5 | 141 | 5716 | 41 | 2 | .54 |
| | 59624 | 1660.8 – 1664.9 | 4.1 | .001 | .04 | | 4 | 45 | 1991 | 9 | 2 | .21 |
| 1665 | 59625 | 1664.9 – 1669.0 | 4.1 | .001 | .03 | | 8 | 98 | 763 | 8 | 2 | .28 |
| 1670 | 59626 | 1669.0 – 1671.7 | 2.7 | .001 | .03 | | 6 | 105 | 866 | 18 | 3 | .08 |
| | 59627 | 1671.7 – 1672.6 | 0.9 | .001 | .03 | | 8 | 71 | 922 | 5 | 2 | .09 |
| | 59628 | 1672.6 – 1674.4 | 1.8 | .001 | .05 | | 11 | 100 | 2196 | 22 | 2 | .10 |
| 1675 | 59629 | 1674.4 – 1679.4 | 5.0 | .001 | .03 | | 3 | 60 | 1556 | 51 | 2 | .43 |
| 1680 | 59630 | 1679.4 – 1684.4 | 5.0 | .001 | .04 | | 3 | 52 | 449 | 30 | 2 | .15 |
| 1685 | 59631 | 1684.4 – 1689.4 | 5.0 | .001 | .01 | | 8 | 72 | 1430 | 25 | 2 | .18 |
| 1690 | 59632 | 1689.4 – 1694.4 | 5.0 | .001 | .05 | | 5 | 60 | 1132 | 39 | 2 | .18 |

OMNI RESOURCES INC. PROJECT Pat-Caddell DIAMOND DRILL HOLE No. 88-163 PAGE 13 of 19

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| 1697 | | | | |
| | 10.0 | 9.8 | 98% | .78 |
| 1707 | | | | |
| | 10.0 | 9.7 | 97% | .80 |
| 1717 | | | | |
| | 10.0 | 9.1 | 91% | .80 |
| 1727 | | | | |

**LITHOLOGY, ALTERATION, STRUCTURE**

ALTERED QUARTZ MONZONITE — Generally black sulfide banded, brecciated + mylonitized (1711.4 – 1733.7)

Alt° is int gtz/ser + loc sil"; locally, the qzmnz is brxx'd; frequent black sx bands + black mylonitized brxx bands; black sx + brxx bands are @ 45°, 40°, 30°, 25° + 20° to c/A.

1714.0 – 1715.5 35% gtz str's + frag's; 4 main 2 cm str's exist in orientations of 30°, 35° + 50° to c/A.

1724.2 – 1730.6 zone of v int black sx bands + mylonitic black brxx.

1725.4 – 1725.9 Int pervasive sil" here.

1726.4 – 1727.1 " " " " .

**MINERALIZATION**

1% py, <<1% aspy needles.

1-4% py, <1% aspy needles.

2-5% py, <1% aspy needles.

½-2% py, ¼% aspy needles.

7% py, ¼% aspy needles, 2% f.g.ed aspy.

8% py, 2% aspy needles, 2% f.g.ed aspy, <1% brown sl.

3% py, ⅛% f.g.ed aspy, ½% aspy needles.

1% py, <<1% f.g.ed aspy, <<1% aspy needles, Tr stibnite, Tr brown sl.

3% py, ⅛% f.g.ed aspy, Tr aspy needles.

3% py, ⅛% f.g.ed aspy, Tr stibnite, Tr brown sl.

3% py.

**GRAPHIC LOG**

| FT. | Sample No. | Interval | Core Length | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 59633 | 1694.4 – 1699.4 | 5.0 | .001 | .02 | | 5 | 65 | 1901 | 73 | 2 | .13 |
| 1700 | 59634 | 1699.4 – 1704.4 | 5.0 | .001 | .01 | | 6 | 79 | 2244 | 24 | 2 | .14 |
| 1705 | 59635 | 1704.4 – 1709.4 | 5.0 | .005 | .02 | | 5 | 86 | 2278 | 27 | 2 | .13 |
| 1710 | 59636 | 1709.4 – 1711.4 | 2.0 | .004 | .03 | | 4 | 67 | 1561 | 34 | 2 | .11 |
| | 59797 | 1711.4 – 1714.0 | 2.6 | .138 | .06 | | 166 | 170 | 6242 | 144 | 2 | .24 |
| 1715 | 59798 | 1714.0 – 1715.5 | 1.5 | .724 | .05 | | 15 | 269 | 10,000+ | 55 | 2 | .15 |
| | 59799 | 1715.5 – 1719.9 | 4.4 | .065 | .02 | | 27 | 213 | 3090 | 98 | 2 | .22 |
| 1720 | 59800 | 1719.9 – 1724.2 | 4.3 | .011 | .03 | | 18 | 166 | 1351 | 193 | 2 | .16 |
| 1725 | 59559 | 1724.2 – 1727.4 | 3.2 | .056 | .09 | | 52 | 394 | 3738 | 819 | 2 | .40 |
| | 59560 | 1727.4 – 1730.6 | 3.2 | .074 | .11 | | 68 | 276 | 3021 | 1315 | 2 | .33 |
| 1730 | 59561 | 1730.6 – 1733.7 | 3.1 | .022 | .03 | | 19 | 142 | 1977 | 59 | 2 | .18 |

OMNI RESOURCES INC. PROJECT Pat-Goodell DIAMOND DRILL HOLE No. PG-163 SHEET 17 of 17

| BOX | RUN | CORE | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. |
|---|---|---|---|---|---|---|---|---|
| | | | | | MIXED ZONE OF ALTERED QUARTZ MONZONITE AND ANDESITE DYKES (1733.7 – 1767.0) | | | 1735 |
| | 10.0 | 10.0 | 100 % | .88 | As before; alt$^n$ is int gtz/ser, ankerite, loc hem + loc bright green mica specs (fuchsite?). | 1-2 % py. | | |
| 1737 | | | | | | | | |
| | | | | | 1742.2 – 1744.9 Random wk – mod shear zone; Some shear orientations are @ 0°, 10°, 25°, 35° + 45° to C/A. | 1-2 % py. | | 1740 |
| | 10.0 | 10.0 | 100 % | .95 | 1742.2 – 1744.0 ½ AMOS DYKE inclusion, ± alt$^d$ ppm; 10% py, 2% wispy needles. | 10% py, 2% wispy needles. | | |
| 1747 | | | | | 1748.2 – 1751.4 Random wk-mod shear zone; Some shear orientations are @ 0°, 15°, 20°, 25°, 28°, 30° + 40° to C/A. | <1% – 1% py. | | 1745 |
| | | | | | 1748.7 – 1750.4 Porphyritic, bleached AMOS DYKE; fsp phens$^s$ are alt$^d$ to ser + bright green mica (fuchsite?); Upp$^r$ contact @ 30° to C/A; Low$^r$ contact @ 25° to C/A; 1% gtz/carb whisps, blebs + gash infillings; | 1-3 % py. | | |
| | 10.0 | 10.0 | 100 % | .65 | 1748.7 – 1749.4 Int'l mylonitized + pervasively ser alt$^d$. | | | 1750 |
| | | | | | 1751.3 – 1755.0 Porphyritic, bleached AMOS DYKE; fsp phens$^s$ are alt$^d$ to ser or bright green mica (fuchsite?); Upp$^r$ contact @ 30° to C/A; Low$^r$ contact @ 55° to C/A; 2% gtz/carb stv$^s$, whisps + gash infillings. | <1% – 2% py. | | |
| 1757 | | | | | | | | 1755 |
| | | | | | 1759.5 – 1764.8 Porphyritic, bleached AMOS DYKE; fsp phens$^s$ are alt$^d$ to ser or bright green mica (fuchsite?); Upp$^r$ contact @ 28° to C/A; Low$^r$ contact @ 35° to C/A; 2% gtz/carb stv$^s$, whisps + gash infillings; Hem stn is common in stv$^s$. | 1-2 % py. | | |
| | 10.0 | 9.6 | 96 % | .75 | | | | 1760 |
| | | | | | 1765.9 – 1767.0 Porphyritic, bleached AMOS DYKE; fsp phens$^s$ are alt$^d$ to ser or bright green mica (fuchsite?); Upp$^r$ contact @ 15° to C/A; 1½ % gtz/carb stv$^s$, whisps + gash infillings. | <1% py. | | |
| 1767 | | | | | | | | 1765 |
| | | | | | E.O.H. 1767.0 ft. | | | |
| | | | | | | | | 1770 |

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERCEPT | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
| 59908 | 1733.7 – 1738.0 | 4.3 | .004 | .01 | 8 | 58 | 160 | 29 | 2 | | .09 |
| 59909 | 1738.0 – 1742.2 | 4.2 | .001 | .01 | 8 | 97 | 253 | 14 | 2 | | .09 |
| 59910 | 1742.2 – 1744.0 | 1.8 | .001 | .04 | 22 | 123 | 1815 | 90 | 2 | | .43 |
| 59911 | 1744.0 – 1748.7 | 4.7 | .001 | .01 | 14 | 65 | 131 | 28 | 2 | | .13 |
| 59912 | 1748.7 – 1751.3 | 2.6 | .001 | .01 | 10 | 66 | 263 | 22 | 2 | | .04 |
| 59913 | 1751.3 – 1755.0 | 3.7 | .001 | .01 | 5 | 99 | 59 | 5 | 2 | | .06 |
| 59914 | 1755.0 – 1759.5 | 4.5 | .001 | .01 | 4 | 42 | 29 | 4 | 2 | | .12 |
| 59915 | 1759.5 – 1762.2 | 2.7 | .001 | .01 | 7 | 108 | 13 | 3 | 2 | | .03 |
| 59916 | 1762.2 – 1764.8 | 2.6 | .001 | .01 | 7 | 72 | 9 | 5 | 2 | | .04 |
| 59917 | 1764.8 – 1767.0 | 2.2 | .001 | .01 | 7 | 109 | 21 | 4 | 2 | | .16 |

# DIAMOND DRILL HOLE LOG

| | | | |
|---|---|---|---|
| PROJECT | POP- GODDELL | HOLE No. | 88-P64 |
| COORDINATE N. | | DEPTH | 1697.0 ft. (517.2 m) |
| E. | | AZIMUTH | 200.5° |
| ELEVATION | 1278 m | INCLINATION | -75° |
| DATE STARTED | Oct 10 /88. | DRILLED BY | COATES |
| COMPLETED | Oct 20 /88. | ASSAYED BY | ACME |
| HOLE SURVEY 60m | Corrected dip | = -61.2° | LOGGED BY JOHN BARIL |
| 11 100 | " " | = -72.0° | |
| (dip tests) 1697' | " " | = -70.8° | John Baril. |

Reason for Drilling: To test for mineralization to the west of 87-P65 & 88-P63.

Explanation of Results:

LEGEND
- ALT° ARMN RHYL DYKE
- N.W.S. QFP ANDS DYKE
- Breccia
- Sheeting
- Mineralized Zone

| BOX | Run | Core | %R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERCEPT | SAMPLE CORE LENGTH | ANALYTICAL O.P.T. Au | ANALYTICAL O.P.T Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 12 ft. CASING | | | Scale: 1" = 40 | | | | | |
| | | | | | ALTERED QUARTZ MONZONITE (12.0 – 841.7) | | | 20 | | | | | |
| | | | | | e.g.$^{ed}$, equigranular; colour is generally mottled & varies from light green to dark green to white to pink to brown to red to cream coloured; Alt$^{n}$ is chl, cc, gtz/sev leucoxene, loc hem, loc int arg alt$^{n}$ of fsp phen$^{s}$ & loc Ep specs & str$^{s}$; From 12.0 – 294.6, mod-int FeO stn is common, especially on frac$^{s}$ & shear zones; Loc ANDS dykes; occasional xenoliths present; Loc shears & shear zones occur; Loc 0 minor black sulfide gouge is present in some shears; occasional gtz/carb str$^{s}$, gtz str$^{s}$ & gtz/py str$^{s}$ are present throughout; Py content is < 1% overall & occurs as blebs, diss$^{d}$ or conc$^{ed}$ on frac$^{s}$ & str$^{s}$. | < 1% py (blebs, diss$^{d}$ & conc$^{ed}$ on frac$^{s}$ & str$^{s}$). | gtz, cc, py/sev, fuchsite, loc hem, chl & Ep | 40 | | | | | |
| | | | | | 52.8 – 72.6 F.g.$^{ed}$ to locally porphyritic ANDS DYKE; where dyke is porphyritic, fsp phen$^{s}$ are generally ½-1 mm; Upp$^{r}$ contact is irregular; Low$^{r}$ contact is a mod shear @ 55° to c/A. | | | 60 | | | | | |
| | | | | | | | | 80 | | | | | |
| | | | | | | | | 100 | | | | | |
| | | | | | | | | 120 | | | | | |
| | | | | | | | | 140 | | | | | |
| | | | | | | | | 160 | | | | | |
| | | | | | | | | 180 | | | | | |
| | | | | | | | | 200 | | | | | |
| | | | | | | | | 220 | | | | | |
| | | | | | | | | 240 | | | | | |

OMNI RESOURCES INC. PROJECT POP – GODDELL DIAMOND DRILL HOLE No. 88-P64 Sheet 2 of 22

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERVAL | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: O.P.T. Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | <1% py (blebs, diss'd + conc'd on frac's + str's). | cal / cc / qtz/sev / recessive / lsc, ash / clay + ep. | 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460, 480, 500, 520, 540 | | | | | |

OMNI RESOURCES INC. · PROJECT POP - GODDELL · DIAMOND DRILL HOLE No. 88-P64 Sheet 3 of 22

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERVAL | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: O.P.T. Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 542.2 – 552.6 Sub-porphyritic, dark green ANDS dyke; ≃ 15% epiditized fsp phen$^{s}$ + 15% chloritized matic phen$^{s}$ in f.g.$^{ed}$ matrix; several (amygdules?) w a hard, light brown mineral + /or Ep infilling are present; <1% qtz/carb str$^{s}$; Upp$^{r}$ contact is a wk shear @ 55° to C/A; Low$^{r}$ contact is @ 18° to C/A. | <1% py (blebs, diss$^{d}$ + conc$^{ed}$ on frac$^{s}$ + str$^{s}$). | clj / cc / qtz/ser / leucoxene / loc hem / clay + Ep. | 560 | | | | | |
| | | | | | 590.5 – 593.7 Same as 542.2 – 552.6 except the amygdules & described are smaller & less abundant & there are fewer qtz/carb str$^{s}$; Upp$^{r}$ contact @ 15° to C/A; Low$^{r}$ contact @ 10° to C/A. | | | 580 | | | | | |
| | | | | | | | | 600 | | | | | |
| | | | | | | | | 620 | | | | | |
| | | | | | | | | 640 | | | | | |
| | | | | | | | | 660 | | | | | |
| | | | | | | | | 680 | | | | | |
| | | | | | | | | 700 | | | | | |
| | | | | | | | | 720 | | | | | |
| | | | | | | | | 740 | | | | | |
| | | | | | 745.8 – 761.5 Sub-porphyritic, dark green ANDS DYKE; Fsp phen$^{s}$ are locally Epiditized & are generally 1mm or less in diameter; matic phen$^{s}$ are m.g.$^{ed}$ to c.g.$^{ed}$ & are chloritized; matrix is f.g.$^{ed}$; <1% qtz/carb str$^{s}$; several c.g.$^{ed}$ blebs of py present; Upp$^{r}$ contact @ (15°?) to C/A; Low$^{r}$ contact is a mod shear @ 20° to C/A. | | | 760 | | | | | |
| | | | | | | | | 780 | | | | | |
| | | | | | | | | 800 scale change 1" = 10' | | | | | |
| | | | | | | | | 810 | | | | | |

PROJECT — DDH — 80-005 E.L. — DIAMOND DRILL HOLE No. 80-254 Sheet 4 of 22

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| 837 | | | | |
| | 10.0 | 10.0 | 100 % | .53 |
| 847 | | | | |
| | 10.0 | 9.5 | 95 % | .74 |
| 857 | | | | |

## LITHOLOGY, ALTERATION, STRUCTURE

826.8 – 827.0 Sub-porphyritic ANDS dyklet; Upp^r contact @ 43° to c/A.

839.5 – 840.6 10% blebs of f.g.^ed py exist within the QZMW.

840.6 – 841.7 ½ alt^d QZMW, ½ black brx^d rock; The black brx^d portion consists of rounded to sub-angular frags of QZMW, QFP & gtz from ½ mm to 3 cm; These frag^s are in a greyish-black, f.g.^ed matrix; 10% py present.

NORTH QUARTZ-FELDSPAR PORPHYRY (RHYL DYKE) (841.7 – 854.3)

Porphyritic in a f.g.^ed matrix; 10% gtz eyes, generally 1-2 mm; 10% fsp pheno^s, generally 1-4 mm; Colour is greenish-buff; Alt^n is ankerite + loc ser + hem; 5% QFP xenoliths present; The xenoliths have a lower density of fsp pheno^s + gtz eyes; Upp^r contact is a mod shear @ 10° to c/A.

845.0 – 848.3 mod^ly sheared + brx^d; Some shear orientations are @ 0°, 12°, 15°, 35° & 45° to c/A; loc patches of black brx^d like rock similar to that in 840.6 – 841.7 except there are fewer QZMW frag^s & more QFP frags present.

ANDS DYKE (854.3 – 863.7)

Porphyritic w alt^d f.g.^ed to m.g.^ed pheno^s in an aphanitic matrix; Colour is generally greyish-green w loc violet-red portions; Alt^n is ser, bright green mica specs (fuchsite?), loc hem & ankerite; Upp^r contact @ 70° to c/A; Low^r contact is a wk shear w an accompanying 2½ cm gtz/carb/py str @ 65° to c/A; 2% gtz/carb whisps, blebs & gash fillings.

855.3 – 858.3 Int hem alt^n, especially on shears & frac^s.

858.3 – 863.7 wk-mod random shear zone; Some shear orientations are @ 0°, 5°, 15°, 20°, 25°, 30°, 50° & 65° to c/A.

## MINERALIZATION

<1% py (blebs, diss^d + conc^ed on frac^s + str^s).

10% py.

10% py.

None.

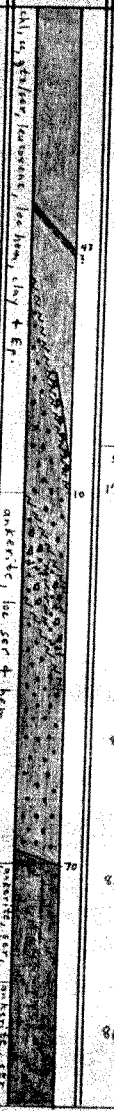
2% py.

None.

Tr py.

<1% py.

## GRAPHIC LOG




| FT. | SAMPLE: Sample No. | INTERCEPT | CORE LENGTH | ANALYTICAL (PPM): O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 820 | | | | | | | | | | | | |
| 830 | | | | | | | | | | | | |
| 840 (scale change 1" = 5') | 59918 | 839.5 – 840.6 | 1.1 | .008 | .01 | 19 | 40 | 1197 | 10 | 2 | .46 | |
| | 59919 | 840.6 – 841.7 | 1.1 | .001 | .01 | 44 | 164 | 255 | 17 | 2 | .56 | |
| 845 | | | | | | | | | | | | |
| | 59920 | 845.0 – 848.3 | 3.3 | .001 | .01 | 32 | 95 | 64 | 15 | 2 | .28 | |
| 850 | | | | | | | | | | | | |
| 855 | | | | | | | | | | | | |
| | 59921 | 854.3 – 858.3 | 4.0 | .001 | .01 | 17 | 218 | 9 | 23 | 2 | .45 | |
| 860 | 59922 | 858.3 – 862.1 | 3.8 | .001 | .02 | 18 | 119 | 25 | 55 | 2 | 1.40 | |

PROJECT KAP – SOPHIE

DIAMOND DRILL HOLE No. KP-95-1 SHEET 5 OF 22

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| | 10.0 | 10.0 | % 100 | .48 |
| 867 | | | | |
| | 10.0 | 10.0 | % 100 | .80 |
| 877 | | | | |
| | 10.0 | 10.0 | % 100 | .88 |
| 887 | | | | |

**LITHOLOGY, ALTERATION, STRUCTURE**

ALTERED QUARTZ MONZONITE (863.7 – 874.2)

As before; Alt$^n$ is ẅ int gtz/ser + ankerite.

872.2 wk shear accompanied by a thin black sx band, both @ 20° to c/A.

873.2 – 874.2 Zone of gtz/carb frag$^s$ (35%) + black sx bands (15%); most of the black sx bands have an erratic orientation but one has an orientation of 20° to c/A.

ANDS DYKE (874.2 – 879.3)

Sub-porphyritic; F.g.$^{ed}$ to m.g.$^{ed}$ alt$^d$ pheno$^s$ in a f.g.$^{ed}$ matrix; Colour is greyish-green; Alt$^n$ is ankerite, ser + loc bright green mica specs (fuchsite?); upp$^r$ contact is a black sx band @ 20° to c/A; Low$^r$ contact is a wk shear ẅ a black sx band @ 80° to c/A; 3% gtz/carb str$^s$, whisps + gash infillings.

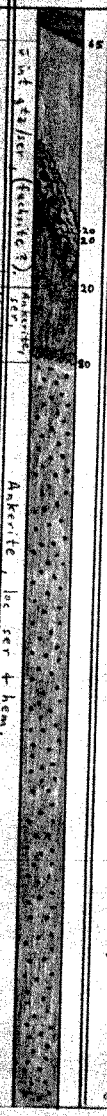
NORTH QUARTZ – FELDSPAR PORPHYRY (RHYL Dyke). (879.3 – 941.2)

Same as 841.7 – 854.3 except ± 4% QFP xenoliths are present + minor gtz/carb str$^s$ are present; Low$^r$ contact is a mod shear @ 35° to c/A.

923.9 – 941.2 QFP is mod$^y$ bleached.

| MINERALIZATION |
|---|
| 10% py. |
| <1% py. |
| 3% py. |
| 4% py. |
| <1% py. |
| None. |

GRAPHIC LOG




| FT. |
|---|
| 865 |
| 870 scale changes 1" = 10' |
| 880 |
| 890 |
| 900 |
| 910 |
| 920 |
| 930 |

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERVAL | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
| 59923 | 862.1 – 863.7 | 1.6 | .001 | .01 | | 33 | 61 | 36 | 21 | 2 | .62 |
| 59924 | 873.2 – 874.2 | 1.0 | .001 | .01 | | 17 | 46 | 161 | 9 | 2 | .32 |
| 59925 | 874.2 – 879.3 | 5.1 | .001 | .01 | | 19 | 94 | 43 | 10 | 2 | .26 |

RESOURCES INC. PROJECT ROE - BODDELL. DIAMOND DRILL HOLE No. 88-R64 Sheet 6 of 22

| BOX | Run | Core | %R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERCEPT | SAMPLE CORE LENGTH | ANALYTICAL (PPM) O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 939.0 | | | | | **ALTERED QUARTZ MONZONITE (941.2 – 949.8)**<br>As before ; Alt$^n$ is ± int gtz/ser + ankerite.<br>——— 941.5 – 941.8 Int shear zone @ 40° to c/A.<br>——— 946.3 Mod shear @ 55° to c/A. | None. | | 940 | | | | | | | | | | | | |
| * 50 | | | | | **ANDS DYKE (949.8 – 959.3)**<br>Sub-porphyritic ; f.g.$^{ed}$ to m.g.$^{ed}$ alt$^d$ phen$^s$ in a f.g.$^{ed}$ matrix ; colour is generally greyish green ± loc reddish patches ; Alt$^n$ is ankerite, ser, loc bright green mica specs (fuchsite?) + loc hem (especially on frac$^s$) ; Low$^r$ contact is an int shear @ 30° to c/A ; 3% gtz/carb str$^s$, whisps & gash infillings.<br>——— 956.5 – 962.7 wk-int random shear zone ; Some shear orientations are @ 0°, 4°, 10°, 20°, 25°, 30°, 35° + 40° to c/A. | < 1% py. | | 950 | | | | | | | | | | | |
| 956.5 | | | | | **ALTERED QUARTZ MONZONITE (959.3 – 968.3)**<br>As before ; Alt$^n$ is ± int gtz/ser + ankerite. | < 1% py. | | 960 | | | | | | | | | | | |
| 967 | | | | | **ANDS DYKE (968.3 – 979.3)**<br>Same as 949.8 – 959.3 ; Upp$^r$ contact is an int shear @ 20° to c/A ; Low$^r$ contact @ 23° to c/A.<br>——— 968.7 Int shear @ 60° to c/A.<br>——— 975.8 – 977.4 wk-int random shear zone ; Some shear orientations are @ 20°, 30°, 50° + 55° to c/A. | < 1 – 3% py. | | 970 | 59926 | 968.3 – 972.0 | 3.7 | .001 | .01 | | 38 | 102 | 5 | 16 | 2 | .08 |
| | 10.0 | 10.0 | 100% | .64 | | | | | 59927 | 972.0 – 975.7 | 3.7 | .001 | .01 | | 28 | 124 | 6 | 26 | 2 | .85 |
| 977 | | | | | | | | | 59928 | 975.7 – 979.3 | 3.6 | .001 | .01 | | 29 | 78 | 10 | 51 | 2 | 1.20 |
| | | | | | **ALTERED QUARTZ MONZONITE (979.3 – 999.9)**<br>As before ; Alt$^n$ is int gtz/ser + ankerite.<br>——— 980.0 – 980.5 wk-int random shear zone ; some shear orientations are @ 8°, 45°, 60° + 75° to c/A.<br>——— 981.4 – 982.0 ANDS dykelet ; Upp$^r$ contact @ 30° to c/A ; Low$^r$ contact @ 15° to c/A.<br>——— 985.4 Int shear @ 15° to c/A.<br>——— 987.2 wk " " 25° " " .<br>——— 989.2 " " " 30° " " . | << 1% py. | | 980 | | | | | | | | | | | |
| 997 | | | | | **ANDS DYKE (999.9 – 1042.0)**<br>Sub-porphyritic ; f.g.$^{ed}$ to m.g.$^{ed}$ alt$^d$ phen$^s$ in a f.g.$^{ed}$ matrix ; colour varies from grey to greyish-green to greenish black ; Alt$^n$ is ankerite, ser, + bright green mica (fuchsite?) ; Upp$^r$ contact @ 20° to c/A ; Low$^r$ contact | | | 990 | | | | | | | | | | | |
| | 10.0 | 10.0 | 100% | .96 | | << 1% py. | | 1000 | 59929 | 999.9 – 1003.9 | 4.0 | .001 | .01 | | 4 | 52 | 2 | 20 | 2 | .28 |

* NOTE : Box 50 was dropped by the diamond drillers ; I have pieced the core from this box back together to the best of my ability, however, any measurements which were taken in this box may not be completely accurate.

PROJECT ROP - GROUP 1 DIAMOND DRILL HOLE No. 85-R64 SHEET 7 of 22

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| 1007 | | | | |
| | 10.0 | 9.8 | 98% | .73 |
| 1017 | | | | |
| | 10.0 | 10.0 | 100% | .74 |
| 1027 | | | | |
| | 10.0 | 10.0 | 100% | .74 |
| 1037 | | | | |
| | 10.0 | 10.0 | 100% | .90 |

**LITHOLOGY, ALTERATION, STRUCTURE**

is a mylonitic black brxx @ 40° to c/A; 1-5% qtz/carb whisps, str$^{s}$ & gash infillings; loc black sx bands & mylonitic black brxx; loc py filled frac$^{s}$; loc minor chl alt$^{n}$ exists.

1007.4 – 1009.6 Qzmv inclusion; upp$^{r}$ contact @ 22° to c/A; low$^{r}$ contact irregular & @ (65°?) to c/A.

1008.7 mod shear w/ black sx gouge @ 22° to c/A.
1009.7 wk " " " " " " 31° " ".
1010.0 " " " " " " 26° " ".
1010.4 mod shear @ 55° to c/A.

1020.2 Int shear @ 40° to c/A.
1020.3 " " " 65° " ".
1020.8 – 1022.2 Crackle fractured w/ a high density of py filled frac$^{s}$.

1024.1 – 1025.3 Crackle fractured w/ a high density of py filled frac$^{s}$.
1025.3 – 1028.1 Alt$^{d}$ Qzmv inclusion; upp$^{r}$ contact @ 30° to c/A; low$^{r}$ contact is a mod shear @ 20° to c/A.

1036.2 – 1038.8 Alt$^{d}$ Qzmv inclusion; upp$^{r}$ contact is irregular & @ 30° to c/A; low$^{r}$ contact @ 40° to c/A.

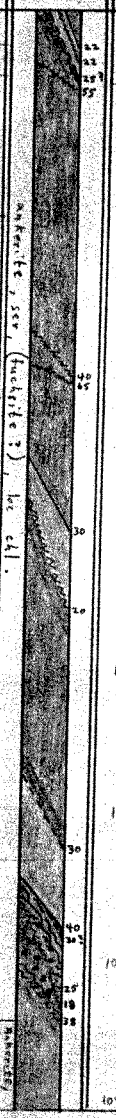
1039.2 – 1041.0 Alt$^{d}$ Qzmv inclusion; upp$^{r}$ contact irregular & @ (30°?) to c/A; low$^{r}$ contact is a wk shear @ 25° to c/A.
1039.4 – 1041.0 wk – mod random shear zone; some shear orientations are @ 20°, 25° & 38° to c/A.
1039.4 – 1040.2 50% black sx bands @ 25° to c/A.
1041.5 – 1042.0 mylonitic black brxx; fg.$^{ed}$ to v. vf.$^{gd}$ sub-rounded to locally stretched out frag$^{s}$ of ANDS, RHYL & qtz in a f.g.$^{m}$, greyish-black matrix.

Upp$^{r}$ contact is a mod shear @ 18° to c/A; low$^{r}$ contact is a mod mylonitic shear @ 28° to c/A.

**MINERALIZATION**

Tr py.
1% py.
<1 – 3 % py.
<1% py.
<1 – 1% py.
15% py.
1% py.
10% py.
1-2% py.
1% py.
1% py.
<1% py.
1-2% py.
2% py.

**GRAPHIC LOG**


Mylonite, sx, qtz, py (fractures)
Mylonite
Mylonite
Mylonite

PROJECT POP - GNOME

DIAMOND DRILL HOLE No. 86-P64 Sheet 8 of 22

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERVAL | SAMPLE CORE LENGTH | ANALYTICAL (FPM) O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1047 | | | | | RHYL DYKE - Flow banded quartz-feldspar porphyry. (1042.0 - 1053.8) 10% qtz eyes, generally 1-2 mm; 2% fsp phenos, generally 1-2 mm; Matrix is aphanitic; Colour is generally streaked = alternating white + green bands; Alt'n is ankerite + ser; RHYL is flow banded throughout. | 2% PY. | ankerite, ser. | | 57942 | 1046.0 - 1049.9 | 3.9 | .003 | .01 | | 39 | 39 | 1065 | 24 | 2 | .07 |
| | | | | | 1052.8 - 1056.6 wk-int random shear zone; Some shear orientations are @ 7°, 15°, 40°, 40° & 70° to C/A. | | | 1050 | | | | | | | | | | | | |
| | 10.0 | 10.0 | % 100 | .57 | | | | | 57943 | 1049.9 - 1053.8 | 3.9 | .001 | .01 | | 28 | 31 | 449 | 15 | 2 | .12 |
| | | | | | ALTERED QUARTZ MONZONITE (1053.8 - 1089.2) As before; Alt'n is int qtz/ser + ankerite. | | | | | | | | | | | | | | | |
| 1057 | | | | | | | | 1055 | | | | | | | | | | | | |
| | | | | | 1057.6 - 1059.3 wk-int random shear zone; Some shear orientations are @ 18°, 22°, 55°, 60° & 70° to C/A. | | Int qtz/ser + ankerite. | | | | | | | | | | | | | |
| | | | | | 1062.2 - 1062.9 mod-int random shear zone; Some shear orientations are @ 0°, 15°, 20° & 30° to C/A. | | | 1060 Scale change 1"=40' | | | | | | | | | | | | |
| | | | | | 1064.4 - 1064.8 Int shear zone; Shears are @ 25° & 70° to C/A. | | | | | | | | | | | | | | | |
| | | | | | 1067.8 - 1070.5 wk-int random shear zone; Some shear orientations are @ 15°, 20°, 25°, 30° & 40° to C/A. | | | 1070 | | | | | | | | | | | | |
| | | | | | 1076.1 - 1076.2 Int shear @ 35° to C/A. | | | | | | | | | | | | | | | |
| | | | | | 1076.8 - 1080.8 Quartz-fsp porphyritic RHYL DYKE; Upp' contact is a wk shear @ 15° to C/A; Low' contact is @ 40° to C/A. | < 1% PY. | | | | | | | | | | | | | | |
| | | | | | 1079.0 - 1089.4 wk-int random shear zone; Some shear orientations are @ 0°, 8°, 12°, 15°, 20°, 25°, 45°, 55° & 60° to C/A. | | | 1080 | | | | | | | | | | | | |
| | | | | | RHYL DYKE - Quartz-feldspar porphyry (1089.2 - 1116.1) 5% qtz eyes, generally 1-2 mm; 2% fsp phenos, generally 1 mm; matrix is aphanitic; Colour is greyish-green; Alt'n is ankerite, loc minor ser + cc alt'n of fsp phenos; Upp' contact is a wk shear @ 65° to C/A; Low contact @ 35° to C/A; loc chl alt'n exists on fract's. | | ankerite, loc ser, cc + chl. | 1090 | | | | | | | | | | | | |
| | | | | | 1091.9 Mod shear @ 10° to C/A. | | | | | | | | | | | | | | | |
| | | | | | 1092.4 Int " " 18° " " | | | | | | | | | | | | | | | |
| | | | | | 1099.1 Mod " " 20° " " | | | | | | | | | | | | | | | |
| | | | | | 1100.0 1½ cm black sx brec band @ 30° to C/A. | | | 1100 | | | | | | | | | | | | |
| | | | | | 1101.6 wk shear @ 22° to C/A. | | | | | | | | | | | | | | | |
| | | | | | 1102.2 2½ cm black sx brec band @ 18° to C/A. | | | | | | | | | | | | | | | |

PROJECT REP - ROBERTS

DIAMOND DRILL HOLE No. RR-154 SHEET 7 of 32

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| 117 | | | | |
| | 10.0 | 10.0 | 100% | .75 |
| 123 | | | | |
| | 10.0 | 10.0 | 100% | .89 |
| 129 | | | | |
| | 10.0 | 10.0 | 100% | .89 |
| 147 | | | | |

**LITHOLOGY, ALTERATION, STRUCTURE**

1105.3 – 1106.6 wk random shear zone ; some shear orientations are @ 0°, 10°, 13° & 15° to c/A.

1114.4 – 1114.8 Int shear zone w shear orientations of 20°, 25° & 30° to c/A.

1116.1 – 1116.6 Int shear zone w shear orientations of 20° & 35° to c/A.

**ALTERED QUARTZ MONZONITE (1116.1 – 1125.7)**

As before ; Alt$^n$ is int gtz/ser & anhenite ; Core has random wk shearing throughout ; some shear orientations are @ 20°, 25°, 30°, 40° & 45° to c/A.

1125.2 wk shear @ 25° to c/A.

1125.2 – 1125.7 40% black sx bands @ 25° to c/A.

**RHYODACITE DYKE (1125.7 – 1150.1)**

Sub-porphyritic ; ≈ 10% f.g.ed fsp pheno$^s$ which are generally <1mm in a f.g.ed matrix ; Colour is med grey w black stripes ; Alt$^n$ is chl in frac$^s$, loc ser & wk cc alt$^n$ of fsp pheno$^s$ ; Upp$^r$ contact irregular & @ 18° to c/A ; Low$^r$ contact is a med shear @ 35° to c/A ; 1–3% py present ; ≈ 7% chloritized / pyritic frac$^s$ ; Minor qtz/carb str$^s$.

1130.1 – 1130.5 wk shear zone @ 35° to c/A.

1140.5 wk shear w int ser within the shear, @ (55°?) to c/A.

1141.4 wk shear w int ser within the shear, @ 40° to c/A.

**MINERALIZATION**

< 1% py.

1–3% py (blebs, diss$^d$ & conc$^{ed}$ on frac$^s$).

**GRAPHIC LOG**

| FT. | Sample No. | Interval | Core Length | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1110 | | | | | | | | | | | | |
| 1120 | | | | | | | | | | | | |
| 1125 | | | | | | | | | | | | |
| | 59581 | 1125.7 – 1130.1 | 4.4 | .002 | .01 | 23 | 62 | 872 | 80 | 2 | | .05 |
| 1130 | | | | | | | | | | | | |
| | 59582 | 1130.1 – 1135.1 | 5.0 | .010 | .02 | 56 | 291 | 3611 | 71 | 2 | | .35 |
| 1135 | | | | | | | | | | | | |
| | 59583 | 1135.1 – 1140.1 | 5.0 | .017 | .01 | 63 | 223 | 3783 | 67 | 2 | | .30 |
| 1140 | | | | | | | | | | | | |
| | 59584 | 1140.1 – 1145.1 | 5.0 | .002 | .01 | 45 | 142 | 592 | 36 | 2 | | .26 |
| 1145 | | | | | | | | | | | | |
| | 59585 | 1145.1 – 1150.1 | 5.0 | .002 | .01 | 83 | 285 | 1338 | 60 | 2 | | .50 |
| 1150 | | | | | | | | | | | | |

RESOURCES INC.

PROJECT COP - GODDELL

DIAMOND DRILL HOLE No. 89-84 Sheet 10 of 32

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| | 10.0 | 10.0 | 100% | .90 |
| | 10.0 | 10.0 | 100% | .81 |
| | 10.0 | 10.0 | 100% | .84 |

## LITHOLOGY, ALTERATION, STRUCTURE

ALTERED QUARTZ MONZONITE (1150.1 – 1184.1)

As before; Alt$^n$ is mod-int gte/ser, loc sil$^n$ + wk loc cc; Loc shearing occurs + loc black sx bands are present.

1150.1 – 1151.8 Mod shear zone @ shear orientations @ 35°, 40° + 15° to c/A.

1156.2 – 1157.8 Int sil$^n$.

1162.1 Mod shear @ 12° to c/A.

1163.1 " " " 15° " " .

1173.4 wk shear @ 25° to c/A.

1173.9 " " " 35° " " .

1174.6 – 1184.1 25% black sx bands + black mylonitic brxx bands; Upp$^r$ contact is irregular + @ (35°?) to c/A; some band orientations are @ 15°, 25°, 30°, 35°, 40° + 45° to c/A; sub-rounded to rounded + stretched out frag$^s$ of gte + qzmw exist in a f.g.$^{ed}$, black matrix.

1181.9 – 1182.9 Int shear zone; Upp$^r$ + low$^r$ contacts @ 45° to c/A; within the shear zone, orientations of 40° + 10° to c/A exist.

RHYL DYKE – Feldspar porphyry (1184.1 – 1194.0)

0–4% mg.$^{ed}$ fsp phen$^s$ in an aphanitic matrix; occasional gte eyes; Colour is dark grey to dark green; Alt$^n$ is sil on frac$^s$, cc + ser; Upp$^r$ contact @ 25° to c/A; low$^r$ contact @ 30° to c/A; Occasional black sx bands + several chloritic / pyritic frac$^s$.

## MINERALIZATION

1–3% py (blebs, diss$^d$ + conc$^{ed}$ on frac$^s$).

GRAPHIC LOG

Mod-int gte/ser, loc sil$^n$ + cc.

Chl, cc, ser

FT.

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERVAL | CORE LENGTH | O.P.T. Au | GRT Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
| 59586 | 1174.6 – 1179.6 | 5.0 | .010 | .02 | 32 | 88 | 555 | 51 | 2 | .16 | |
| 59587 | 1179.6 – 1184.1 | 4.5 | .022 | .01 | 11 | 73 | 376 | 36 | 3 | .17 | |
| 59588 | 1184.1 – 1186.9 | 2.8 | .001 | .01 | 28 | 51 | 106 | 56 | 2 | .06 | |

... RESOURCES INC. PROJECT ... DIAMOND DRILL HOLE No. 87-184 Sheet 11 of 22

| BOX | Run | Core | % R | RQD |
|---|---|---|---|---|
| | 10.0 | 9.8 | 98 % | .81 |
| | 10.0 | 9.7 | 97 % | .96 |
| | 10.0 | 10.0 | 100 % | .79 |
| | 10.0 | 10.0 | 100 % | .82 |

**LITHOLOGY, ALTERATION, STRUCTURE**

1187.6 – 1190.7 Alt$^{n}$ qtz-mm – 90% mylonitic black brxx w sub-rounded, rounded + stretched out frag$^{s}$ of gte + qtz-mm; Upp$^{r}$ contact @ 30° to c/A; Low$^{r}$ contact @ 55° to c/A.

1189.9 wk shear @ 55° to c/A.

**ALTERED QUARTZ MONZONITE – Generally black sulfide banded, brecciated + mylonitized (1194.0 – 1200.2)**

Alt$^{n}$ is qtz/ser, cc + loc sil$^{n}$; banded + brxx$^{d}$ portions have sub-rounded, rounded + stretched out frag$^{s}$ of gte + qtz-mm in f.g.$^{ed}$ black matrix; one 2 cm gte frag observed. – 1194.0 – 1194.5 90% mylonitic black brxx; orientations are @ 20° + 45° to c/A.

1194.5 – 1196.6 Int$^{s}$ sil$^{d}$ qtz-mm.

1196.6 – 1200.2 30% mylonitic black brxx + black sx bands; orientations are @ 45°, 60° + 65° to c/A.

**RHYL PYKE – Quartz-feldspar porphyry (1200.2 – 1220.4)**

5–10% m.g.$^{ed}$ gte eyes + 2–3% f.g.$^{ed}$ to m.g.$^{ed}$ fsp phenos in an aphanitic matrix; Colour is dark grey to dark greyish-green; Alt$^{n}$ is chl on frac$^{s}$, loc ser + loc wk cc; Upp$^{r}$ contact @ (65°?) to c/A; Low$^{r}$ contact @ 33° to c/A; ± 3% chloritized/pyritized frac$^{s}$; minor black sx bands.

1210.5 wk shear @ 60° to c/A.

1214.4 Int shear @ 15° to c/A.

**ALTERED QUARTZ MONZONITE (1220.4 – 1262.6)**

As before; Alt$^{n}$ is int qtz/ser + loc sil$^{n}$; Loc black sx bands + mylonitic black brxx.

1220.4 – 1227.8 80% int mylonitic black brxx; sub-rounded, rounded + stretched out frag$^{s}$ of qtz-mm exist in a f.g.$^{ed}$ black matrix; occasional gte frag$^{s}$ are present as well; Brxx band orientations are @ 15°, 25°, 30° + 40° to c/A.

**MINERALIZATION**

1–3% py.

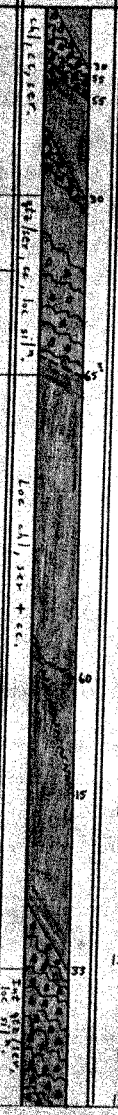
< 1% py.

1% py.

1–3% py.

1% py.

**GRAPHIC LOG**




| FT. |
|---|
| 1190 |
| 1195 |
| 1200 |
| 1205 |
| 1210 |
| 1215 |
| 1220 |
| 1225 |

**SAMPLE**

| Sample No. | INTERVAL | CORE LENGTH |
|---|---|---|
| 59589 | 1186.9 – 1189.6 | 2.7 |
| 59590 | 1189.6 – 1190.7 | 1.1 |
| 59591 | 1190.7 – 1194.0 | 3.3 |
| 59592 | 1194.0 – 1196.6 | 2.6 |
| 59593 | 1196.6 – 1200.2 | 3.6 |
| 59594 | 1200.2 – 1205.3 | 5.1 |
| 59595 | 1205.3 – 1210.4 | 5.1 |
| 59596 | 1210.5 – 1215.4 | 5.0 |
| 59597 | 1215.4 – 1220.4 | 5.0 |
| 59598 | 1220.4 – 1224.1 | 3.7 |

**ANALYTICAL (PPM)**

| O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|
| .001 | .03 | 23 | 54 | 832 | 70 | 3 | .06 | |
| .008 | .02 | 39 | 125 | 1572 | 77 | 2 | .21 | |
| .005 | .01 | 18 | 53 | 575 | 70 | 4 | .11 | |
| .005 | .02 | 21 | 113 | 310 | 314 | 2 | .29 | |
| .011 | .04 | 39 | 94 | 492 | 670 | 2 | .16 | |
| .003 | .01 | 18 | 36 | 678 | 85 | 2 | .15 | |
| .001 | .01 | 24 | 41 | 140 | 40 | 2 | .08 | |
| .001 | .01 | 26 | 44 | 54 | 20 | 2 | .13 | |
| .003 | .02 | 24 | 52 | 648 | 28 | 2 | .12 | |
| .011 | .02 | 45 | 178 | 295 | 123 | 2 | .36 | |

YORK RESOURCES INC. PROJECT Tal-Bodelle DIAMOND DRILL HOLE No. BE-84-4 Sheet 12 of 22

| BOX | Run | Core | %R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | FT. | SAMPLE Sample No. | SAMPLE INTERVAL | SAMPLE CORE LENGTH | ANALYTICAL (PPM) O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1227 | | | | | | 1% py. | | 59599 | 1224.1 – 1227.8 | 3.7 | .003 | .02 | | 16 | 69 | 102 | 65 | 2 | .17 |
| | 10.0 | 10.0 | 100% | .83 | 1227.8 – 1232.0 Loc black brxx bands in s/t$^d$ Qz mav. 1229.1 wk shear @ 40° to c/A. 1229.5 Int " " 55° " " . 1230.5 – 1263.5 Random zone of generally int shears; some shear orientations are @ 0°, 10°, 15°, 20°, 25°, 35°, 40°, 55°, 60° & 65° to c/A. 1232.0 – 1235.7 Fg$^{ed}$, bleached ANDS dyke; 2% qtz/carb wisps, blebs & gash infillings. | < 1% py. | 1230 | 59600 | 1227.8 – 1232.0 | 4.2 | .001 | .01 | | 9 | 28 | 5 | 9 | 3 | .04 |
| 1237 | | | | | | 1% py. | 1235 | 59601 | 1232.0 – 1237.0 | 5.0 | .001 | .01 | | 15 | 70 | 30 | 13 | 2 | .06 |
| | 10.0 | 10.0 | 100% | .62 | 1237.0 – 1240.4 75% mylonitic black brxx; sub-rounded, rounded & stretched out frag$^s$ of Qz mav; Brxx band orientations are @ 20° & 35° to c/A. | < 1% py. | 1240 | 59602 | 1237.0 – 1240.4 | 3.4 | .027 | .10 | | 77 | 289 | 241 | 55 | 2 | .38 |
| 1247 | | | | | 1246.3 – 1247.2 Int$^{ly}$ sil$^d$ core. | | 1245 | | | | | | | | | | | | |
| | | | | | 1248.3 – 1251.1 Int$^{ly}$ sil$^d$ core. | | 1250 | | | | | | | | | | | | |
| | | | | | 1252.0 – 1255.8 Int$^{ly}$ sil$^d$ core. | < 1% py. | 1255 | | | | | | | | | | | | |
| | | | | | | | 1260 | | | | | | | | | | | | |

PROJECT POP - BODDELL DIAMOND DRILL HOLE No. 72-164 SHEET 13 OF 27

| BOX | Run | Core | %R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERVAL | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: O.P.T. Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1262.6 – 1269.8 Intr porphyritic; bleached AND DYKE; Alt$^n$ is ankerite + ser; 3% qtz/carb str$^s$, whisps + gash infillings. | | | | | | | | |
| 1267 | | | | | 1266.6 – 1269.8 Int random shear zone; Some shear orientations are @ 0°, 8° + 10° to c/A. | < 1% py. | Ankerite, ser. | | | | | | |
| | | | * | | SOUTH QUARTZ-FELDSPAR PORPHYRY (RHYL DYKE) (1269.8 – 1334.5) | | | | | | | | |
| | 10.0 | 6.0 | 60% | .20 | Porphyritic w aphanitic matrix; 15% fsp phenos, generally 2-5 mm; < 1% qtz eyes, generally 1-2 mm; Colour is greyish-green w white specs; Alt$^n$ is loc ser, ankerite cc alt$^n$ of fsp phenos + loc minor hem; Loc minor qtz/carb + ankerite str$^s$; Low$^r$ contact is a mod shear @ (15°?) to c/A. | None. | Ser, ankerite. | 1270 | | | | | |
| | | | | | 1269.8 – 1277.3 Int ser alt$^n$ of the matrix; Here, fsp phenos are not alt$^d$ to cc. | | Int ser. | | | | | | |
| 1277 | | | | | 1277.3 – 1279.2 Porphyritic RHYL ? DYKE; 35% fsp phenos, generally 1-3 mm in a v int$^{ly}$ ser alt$^d$, aphanitic matrix; Alt$^n$ is v int ser + cc alt$^n$ of fsp phenos; Upp$^r$ contact @ 20° to c/A; Low$^r$ contact irregular + @ 15° to c/A. | Tr py. | Int qtz/ser, cc. | 1275 | | | | | |
| | | | | | 1279.2 – 1287.4 ALT$^D$ SERMN, as before; Alt$^n$ is int qtz/ser + cc; Low$^r$ contact is an int shear w patches of hem @ 28° to c/A. | | | 1280 | | | | | |
| | | | | | 1281.5 – 1282.6 Porphyritic RHYL ? DYKE inclusion which is the same as that described in 1277.3 – 1279.2. | | | 1285 | | | | | |
| | | | | | | None. | Ankerite/cc, loc ser + hem. | 1290 | | | | | |
| | | | | | | | | 1295 | | | | | |
| | | | | | | | | 1300 | | | | | |

* 4 ft of core was washed away during drilling, between 1267' + 1277'.

PROJECT POP-EDDELL DIAMOND DRILL HOLE No. TT-F69 Sheet 14 of 22

| BOX | Run | Core | % R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERSECT | SAMPLE CORE LENGTH | ANALYTICAL (PPM) O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1330.8 – 1333.0 wk ly spherulitic portion. | | Mafic, cc int ser + lam. | 1305 | | | | | | | | | | | | |
| | | | | | 1333.0 – 1334.5 Int ser alt^n of the matrix. | | | 1310 | | | | | | | | | | | | |
| | | | | | | None. | | 1315 | | | | | | | | | | | | |
| | | | | | | | | 1320 | | | | | | | | | | | | |
| | | | | | | | | 1325 | | | | | | | | | | | | |
| 1334.5 | | | | | ALTERED QUARTZ MONZONITE (1334.5 – 1368.9) | | | 1330 | | | | | | | | | | | | |
| | | | | | As before; Alt^n is int gtz/scr + anhydrite; several gtz/carb str^s, whisps, blebs + ysil infillings present. | | | | | | | | | | | | | | | |
| | | | | | 1334.5 – 1339.2 Alt^d remn brec; sub-rounded, rounded + stretched out (mylonitized) frag^s of | | | 1335 | | | | | | | | | | | | |
| 1337 | 2.5 | 2.5 | 100 % | 1.00 | | << 1% py. | | | 59944 | 1334.5–1339.2 | 4.7 | .001 | .02 | 8 | 48 | 78 | 2 | 2 | .08 | |

NEW RESOURCES INC. PROJECT Cop - GODBELL DIAMOND DRILL HOLE No. ST-P64 Sheet 15 of 27

| BOX | Run | Core | % R | RQD | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION |
|---|---|---|---|---|---|---|
| | | | | | Qz mm from 1mm – 4 cm in an aphanitic, light green matrix. The matrix is pervasively ser alt$^{d}$. | |
| | | | | | 1339.2 – 1342.2 Sub-porphyritic, bleached, alt$^{d}$ + limon$^{t}$ ANDS DYKE; several black mm frag$^{s}$ present; 4% gtz/carb frag$^{s}$, whisps + gash infillings; Upp$^{r}$ contact @ 20° to C/A; Low$^{r}$ contact @ 80° to C/A. | |
| | 10.0 | 10.0 | 100 % | .72 | 1340.8 – 1342.6 wk – int random shear zone; fine shear orientations are @ 0°, 8°, 20°, 28°, 29°, 30°, 32°, 40°, 45°, 47°, 50° + 55° to C/A. | < 1% py. |
| 1347 | | | | | | |
| | | | | | 1348.6 – 1349.3 Sub-porphyritic, bleached + alt$^{d}$ ANDS dyke/set; Upp$^{r}$ contact is irregular + int$^{y}$ sheared; Low$^{r}$ contact is a wk shear @ 40° to C/A. | |
| | | | | | 1351.8 – 1352.5 Sub-porphyritic, bleached + alt$^{d}$ ANDS dyke/set; Upp$^{r}$ contact is an int shear @ 28° to C/A; Low$^{r}$ contact is a wk shear @ 45° to C/A. | < 1% py. |
| 1357 | | | | | | |
| | | | | | 1357.3 – 1357.8 Int shear zone @ 15° to C/A. | |
| | | | | | 1360.5 3 cm wide, sub-porphyritic, bleached + alt$^{d}$ ANDS dyke/set @ 45° to C/A. | |
| | 10.0 | 10.0 | 100 % | .84 | 1361.5 – 1364.7 Sub-porphyritic, bleached + alt$^{d}$ ANDS DYKE; Upp$^{r}$ contact @ 25° to C/A; Low$^{r}$ contact @ 50° to C/A; 5% gtz/carb str$^{s}$, whisps + gash infillings. | < 1% py. |
| 1367 | | | | | | |
| | | | | | ANDS DYKE (1368.9 – 1456.7) 5-10% f.g.$^{ed}$ to m.g.$^{ed}$ alt$^{d}$ fsp pheno$^{s}$ in an aphanitic matrix; Colour is generally med grey w white stripes + green dots; Alt$^{n}$ is ser (fsp pheno$^{s}$ are alt$^{n}$ to ser), ankerite, loc ep + loc hem on frac$^{s}$; Upp$^{r}$ contact @ 45° to C/A; Low$^{r}$ contact @ 25° to C/A; 5% gtz/carb str$^{s}$, whisps + gash infillings; Loc shearing occurs; < 1% py. | 1% py. |
| | 10.0 | 10.0 | 100 % | .84 | | < 1% py. |
| | | | | | 1369.2 – 1369.6 Alt$^{d}$ Qz mm inclusion. | |

GRAPHIC LOG

| FT. | SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample No. | INTERVAL | CORE LENGTH | O.P.T. Au | O.R.T Au | Cu | Pb | Zn | As | Sb | Ag | Hg |
| 1340 | 59595 | 1339.2 – 1342.2 | 3.0 | .001 | .01 | | 16 | 175 | 159 | 8 | 2 | .23 |
| 1345 | | | | | | | | | | | | |
| 1350 | | | | | | | | | | | | |
| 1355 | | | | | | | | | | | | |
| 1360 | | | | | | | | | | | | |
| | 59603 | 1361.5 – 1364.7 | 3.2 | .001 | .02 | | 8 | 127 | 29 | 2 | 2 | .02 |
| 1365 | 59604 | 1364.7 – 1368.9 | 4.2 | .001 | .03 | | 3 | 66 | 67 | 3 | 2 | .04 |
| 1370 | 59605 | 1368.9 – 1373.9 | 5.0 | .001 | .01 | | 5 | 99 | 164 | 2 | 2 | .03 |
| 1375 | | | | | | | | | | | | |

NW RESOURCES INC. PROJECT FOR-GADDELL. DIAMOND DRILL HOLE No. 88-FG4 Sheet 16 of 22

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE Sample No. | SAMPLE INTERVAL | SAMPLE CORE LENGTH | ANALYTICAL (PPM) Q.P.T. Au | Q.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Mo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1377 | | | | | 1377.5 – 1378.4 Random int shear zone; Some shear orientations are @ 10°, 25° + 30° to c/A. | | | | 59606 | 1373.9 – 1378.9 | 5.0 | .001 | .02 | | 9 | 105 | 101 | 2 | 2 | .04 |
| | 10.0 | 10.0 | 100% | .72 | 1383.2 – 1384.0 Random wk shear zone; Some shear orientations are @ 22°, 35° + 50° to c/A. | | | 1380 | 59607 | 1378.9 – 1383.9 | 5.0 | .001 | .03 | | 2 | 69 | 35 | 2 | 3 | .03 |
| 1387 | | | | | 1383.6 – 1384.8 Alt'd qzmv inclusion. | | | | | | | | | | | | | | | |
| | | | | | 1384.5 – 1386.4 Random wk-int shear zone; Some shear orientations are @ 12°, 18°, 23° + 38° to c/A. | | | 1385 | 59608 | 1383.9 – 1388.9 | 5.0 | .001 | .02 | | 6 | 97 | 66 | 2 | 2 | .07 |
| | 10.0 | 10.0 | 100% | .75 | | < 1% py. | Ser. Mafic, loc. Ep + Chl. | 1390 | 59609 | 1388.9 – 1393.9 | 5.0 | .001 | .01 | | 7 | 102 | 9 | 2 | 2 | .03 |
| 1397 | | | | | | | | 1395 | 59610 | 1393.9 – 1398.9 | 5.0 | .001 | .01 | | 9 | 87 | 11 | 2 | 2 | .02 |
| | | | | | 1400.1 – 1401.3 Random wk-mod shear zone; Some shear orientations are @ 12°, 25° + 40° to c/A. | | | 1400 | 59611 | 1398.9 – 1403.9 | 5.0 | .001 | .01 | | 6 | 88 | 17 | 2 | 2 | .03 |
| | 10.0 | 10.0 | 100% | .76 | 1403.3 – 1409.3 Random wk-mod shear zone; Some shear orientations are @ 7°, 20°, 25°, 30°, 35°, 50° + 55° to c/A. | | | 1405 | 59612 | 1403.9 – 1408.9 | 5.0 | .001 | .01 | | 5 | 102 | 5 | 2 | 2 | .01 |
| 1407 | | | | | | | | 1410 | 59613 | 1408.9 – 1413.9 | 5.0 | .001 | .02 | | 7 | 108 | 9 | 2 | 2 | .04 |
| | 10.0 | 10.0 | 100% | .68 | | | | | | | | | | | | | | | | |

RESOURCES INC. PROJECT POP - CORRELL DIAMOND DRILL HOLE No. PC-P64 Sheet 17 of 22

| BOX | Run | Core | %R | R.Q.D. |
|---|---|---|---|---|
| 1417 | | | | |
| | 10.0 | 10.0 | 100% | .57 |
| 1427 | | | | |
| | 10.0 | 10.0 | 100% | .76 |
| 1437 | | | | |
| | 10.0 | 10.0 | 100% | .84 |
| 1447 | | | | |

**LITHOLOGY, ALTERATION, STRUCTURE**

- 1412.5 – 1424.2 Random wk-int shear zone; Some shear orientations are @ 5°, 18°, 22°, 30°, 35°, 38°, 45° + 62° to C/A.
- 1416.7 – 1417.3 Core is ½ ANDS DYKE + ½ int'ly bleached QZMV inclusion.
- 1417.3 – 1421.4 ANDS DYKE as described above except 10% qtz/carb whisps, blebs + gash infillings are present.
- 1421.4 – 1422.4 Int'ly bleached QZMV inclusion.
- 1426.5 – 1428.0 Int'ly bleached + sil'd QZMV inclusion.
- 1426.7 wk shear @ 14° to C/A.
- 1431.1 – 1431.5 wk'ly sheared + int'ly bleached + sil'd QZMV inclusion @ 30° to C/A.
- 1432.5 wk shear @ 35° to C/A.
- 1444.8 – 1445.0 Int'ly bleached + sil'd QZMV inclusion.
- 1448.6 wk shear @ 20° to C/A.

**MINERALIZATION**

< 1% py.

**GRAPHIC LOG**

Serpentinite / Ice Fd + Hem.

14 30 35 20

| FT. |
|---|
| 1415 |
| 1420 |
| 1425 |
| 1430 |
| 1435 |
| 1440 |
| 1445 |
| 1450 |

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERCEPT | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
| 59614 | 1413.9 – 1417.3 | 3.4 | .001 | .01 | | 4 | 75 | 19 | 2 | 2 | .02 |
| 59615 | 1417.3 – 1421.4 | 4.1 | .001 | .01 | | 8 | 80 | 123 | 2 | 6 | .06 |
| 59616 | 1421.4 – 1426.4 | 5.0 | .001 | .01 | | 2 | 90 | 94 | 2 | 2 | .03 |
| 59617 | 1426.4 – 1431.4 | 5.0 | .001 | .01 | | 3 | 78 | 8 | 2 | 2 | .07 |
| 59618 | 1431.4 – 1436.4 | 5.0 | .001 | .01 | | 12 | 95 | 28 | 2 | 2 | .05 |
| 59619 | 1436.4 – 1441.4 | 5.0 | .001 | .02 | | 8 | 95 | 6 | 2 | 2 | .01 |
| 59620 | 1441.4 – 1446.4 | 5.0 | .001 | .01 | | 5 | 88 | 6 | 2 | 4 | .02 |
| 59621 | 1446.4 – 1451.4 | 5.0 | .001 | .01 | | 10 | 90 | 79 | 2 | 3 | .02 |

Resources Inc. PROJECT POP-GADDELL DIAMOND DRILL HOLE No. 88-864 Sheet 18 of 32

| BOX | Run | Core | % R | RQD |
|---|---|---|---|---|
| 1457 | 10.0 | 10.0 | 100% | .80 |
| 1467 | 10.0 | 10.0 | 100% | .56 |
| | 10.0 | 10.0 | 100% | .84 |
| 1477 | 10.0 | 10.0 | 100% | .76 |
| 1487 | | | | |

**LITHOLOGY, ALTERATION, STRUCTURE**

1451.0 – 1453.3 Random wk-mod shear zone; Some shear orientations are @ 25°, 35° & 50° to C/A.

1451.5 – 1452.6 Core is ½ alt'd & bleached Rzmw inclusion + ½ ANDS DYKE.

1455.6 wk shear @ 60° to C/A.

**ALTERED QUARTZ MONZONITE (1456.7 – 1468.2)**

As before; Alt'n is 5 int qtz/ser + ankerite; Loc crackle fracturing occurs.

1461.9 – 1468.2 Mod-int random shear zone; Some shear orientations are @ 12°, 15°, 17°, 20°, 25°, 30°, 40° & 50° to C/A.

1462.7 – 1463.4 ANDS dyke inclusion.

1463.7 – 1463.9 " " " .

**ANDS DYKE (1468.2 – 1478.6)**

Same as 1368.9 – 1456.7; Alt'n is ser + ankerite; Upp' contact @ 20° to C/A; Low' contact @ 50° to C/A.

**ALTERED QUARTZ MONZONITE (1478.6 – 1504.4)**

As before; Alt'n is 5 int qtz/ser, loc ser + ankerite; Crackle fracturing is common; Several ANDS DYKE inclusions.

1483.3 – 1485.2 ANDS DYKE, the same as 1368.9 – 1456.7; Alt'n is ser + ankerite; Upp' + low' contacts @ 70° to C/A.

1486.5 – 1490.0 ANDS DYKE; the same as 1368.9 – 1456.7; Alt'n is ser + ankerite; Upp' contact is irregular; Low' contact @ 80° to C/A.

**MINERALIZATION**

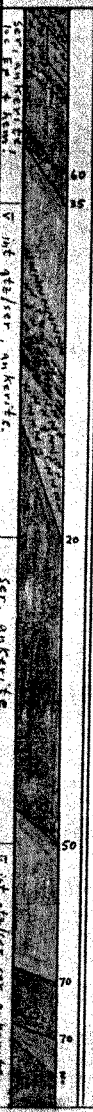
< 1% py.

1 – 4% py.

< 1% py.

< 1% py.

**GRAPHIC LOG**




| FT. | Sample No. | Interval | Core Length | Opt. Au | Opt. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1455 | 59622 | 1451.4 – 1454.1 | 2.7 | .003 | .01 | | 14 | 98 | 784 | 2 | 2 | .09 |
| | 59623 | 1454.1 – 1456.7 | 2.6 | .001 | .01 | | 10 | 91 | 62 | 2 | 3 | .04 |
| 1460 | 59946 | 1456.7 – 1461.7 | 5.0 | .001 | .02 | | 17 | 25 | 55 | 2 | 2 | .07 |
| | 59947 | 1461.7 – 1465.0 | 3.3 | .001 | .01 | | 14 | 42 | 11 | 2 | 2 | .06 |
| 1465 | 59948 | 1465.0 – 1468.2 | 3.2 | .001 | .02 | | 13 | 52 | 24 | 27 | 2 | .22 |
| 1470 | 59949 | 1468.2 – 1473.4 | 5.2 | .001 | .04 | | 39 | 108 | 26 | 36 | 2 | .21 |
| 1475 | 59950 | 1473.4 – 1478.6 | 5.2 | .001 | .01 | | 20 | 107 | 24 | 4 | 3 | .11 |
| 1480 | 38151 | 1478.6 – 1483.3 | 4.7 | .001 | .01 | | 2 | 30 | 4 | 2 | 2 | .04 |
| 1485 | 38152 | 1483.3 – 1485.2 | 1.9 | .001 | .01 | | 15 | 121 | 18 | 2 | 2 | .08 |

RESOURCES INC. PROJECT FOF - SADDELL DIAMOND DRILL HOLE No. 89-F64 Sheet 17 of 32

| BOX | Run | Core | % R | RQD |
|---|---|---|---|---|
| | 10.0 | 9.9 | 99% | .70 |
| 1497 | | | | |
| | 10.0 | 10.0 | 100% | .78 |
| 1507 | | | | |
| | 10.0 | 10.0 | 100% | .75 |
| 1517 | | | | |
| | 10.0 | 10.0 | 100% | .84 |

**LITHOLOGY, ALTERATION, STRUCTURE**

1490.0 – 1503.2 wk-mod, random shearing within the QZMN seg ments only; Some shear orientations are @ 0°, 10°, 20°, 30° & 50° to c/A.

1491.8 – 1492.1 ANDS dykelet; Upp^r contact @ 40° to c/A; Low^r contact irregular.

1495.7 – 1496.3 ANDS dyke inclusion.

1496.6 – 1498.3 ANDS dykelet; Upp^r contact @ 40° to c/A; Low^r contact is a wk shear @ 10° to c/A.

1500.7 – 1501.0 ANDS dyke inclusion.

1501.3 – 1502.5 ANDS dykelet; Upp^r contact is irregular & @ 25° to c/A; Low^r contact @ 60° to c/A.

1503.2 – 1503.8 ANDS dyke inclusion.

**ANDS DYKE (1504.4 – 1538.3)**

5–10% fg.^ed to m.g.^ed alt^d phen^s in an aphanitic matrix; colour is generally med grey & locally light grey, all ± white stripes + green dots; Alt^n is ser, bright green mica specs (fuchsite?), ankerite + loc haem on frac^s; Upp^r contact @ 40° to c/A; Low^r contact @ 65° to c/A; 4% qtz/carb stv^s, wisps + gash infillings.

1511.4 – 1512.2 Alt^d QZMN inclusion.

1516.5 – 1516.8 Alt^d QZMN inclusion.

1519.2 – 1519.5 Alt^d QZMN inclusion; Upp^r contact irregular & @ (40°?) to c/A; Low^r contact irregular & @ (30°?) to c/A.

**MINERALIZATION**

< 1% py.

**GRAPHIC LOG**

| FT. |
|---|
| 1490 |
| 1495 |
| 1500 |
| 1505 |
| 1510 |
| 1515 |
| 1520 |
| 1525 |

| SAMPLE | | | ANALYTICAL (PPM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | INTERVAL | CORE LENGTH | O.P.T. Au | O.P.T. Ag | Cu | Pb | Zn | As | Sb | Bi | Hg |
| 38153 | 1486.5 – 1490.0 | 3.5 | .001 | .01 | | 21 | 116 | 26 | 4 | 2 | .07 |
| 38154 | 1504.4 – 1509.4 | 5.0 | .001 | .01 | | 18 | 133 | 13 | 10 | 2 | .10 |
| 38155 | 1509.4 – 1514.4 | 5.0 | .001 | .01 | | 11 | 106 | 4 | 2 | 2 | .01 |
| 38156 | 1514.4 – 1519.4 | 5.0 | .001 | .01 | | 7 | 93 | 4 | 2 | 2 | .01 |
| 38157 | 1519.4 – 1524.4 | 5.0 | .001 | .01 | | 12 | 107 | 7 | 2 | 2 | .02 |

RESOURCES INC. PROJECT Ref - Goodeve DIAMOND DRILL HOLE No. 88-164 Sheet 30 of 32

| BOX | Run | Core | %R | R.Q.D. |
|---|---|---|---|---|
| 1527 | | | | |
| | 10.0 | 9.7 | 97% | .63 |
| 1532 | | | | |
| | 10.0 | 10.0 | 100% | .69 |
| 1537 | | | | |
| | 10.0 | * 1.9 | 19% | 0.00 |
| 1542 | | | | |

**LITHOLOGY, ALTERATION, STRUCTURE**

1525.5 – 1526.7 Alt$^{n}$ qzmm inclusion; U$_{pp}$$^{r}$ contact @ 25° to c/A; Low$^{r}$ contact is a mod shear @ 30° to c/A.

1534.7 Mod shear @ 50° to c/A.

1535.8 Mod shear @ 70° to c/A.

1537.3 – 1537.7 Alt$^{n}$ qzmm inclusion; U$_{pp}$$^{r}$ contact @ 70° to c/A; Low$^{r}$ contact @ 38° to c/A.

**ALTERED QUARTZ MONZONITE (1538.3 – 1697.0)**

As before; Alt$^{n}$ is int qtz/ser, ankerite & loc sil$^{n}$; Loc minor black sx bands present; Loc minor shearing & crackle fracturing occurs.

1541.7 – 1542.1 Orx$^{d}$ ANDS dykelet @ 50° to c/A.

1544.0 – 1544.4 Int shear zone @ 75° to c/A.

1556.2 Mod shear @ 40° to c/A.

1573.0 – 1575.4 Localized patches of int sil$^{n}$.

* Mistatch.

**MINERALIZATION**

< 1% py.

< 1 – 3 % py.

**GRAPHIC LOG**

loc (fuchsite?) ankerite, loc hem.

Int qtz/ser, ankerite, loc sil$^{n}$.

| FT. | Sample No. | Interval | Core Length | Au FPT | Ag FPT | Cu | Pb | Zn | As | Sb | Bi | Hg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1530 | 38158 | 1524.4 – 1529.4 | 5.0 | .001 | .01 | | 9 | 97 | 8 | 2 | 2 | .04 |
| | 38159 | 1529.4 – 1534.4 | 5.0 | .001 | .01 | | 11 | 121 | 34 | 2 | 3 | .05 |
| 1535 | 38160 | 1534.4 – 1538.3 | 3.9 | .001 | .01 | | 11 | 110 | 67 | 2 | 2 | .12 |
| 1540 | | | | | | | | | | | | |
| 1545 | | | | | | | | | | | | |
| 1550 | | | | | | | | | | | | |
| | Scale change 1"=10' | | | | | | | | | | | |
| 1560 | | | | | | | | | | | | |
| 1570 | | | | | | | | | | | | |

NI RESOURCES INC. PROJECT POP-GODDELL DIAMOND DRILL HOLE No. SE-PG4 SHEET 2 of 22

| BOX | Run | Core | % R | R.Q.D. |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

MINE RESOURCES INC. PROJECT FOR - GODDELL DIAMOND DRILL HOLE No. 82-F64 SHEET 12 OF 22

| BOX | Run | Core | % R | R.Q.D. | LITHOLOGY, ALTERATION, STRUCTURE | MINERALIZATION | GRAPHIC LOG | FT. | SAMPLE: Sample No. | SAMPLE: INTERVAL | SAMPLE: CORE LENGTH | ANALYTICAL: O.P.T. Au | ANALYTICAL: O.P.T. Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1687.1 – 1688.8, 1689.1 – 1689.6, 1689.8 – 1689.9, 1690.1 – 1690.8, 1691.1 – 1691.4, 1692.4 – 1692.7, 1694.0 – 1694.5 : Generally f.g.ed, leucocratic portions of alt'd azmn. | < 1% py. | medium grained, locally fine grained, hx int. avg. alt'n of frp phenos. | 1660 1670 1680 1690 | | | | | |
| 1697 | | | | | E.O.H. 1697.0 ft. | | | 1700 | | | | | |

# APPENDIX V

PETROGRAPHIC REPORT ON
TWO DRILL CORE SAMPLES
FROM DRILL HOLE PG-88-2

# PETROGRAPHIC REPORT ON TWO DRILL CORE SAMPLES

Report for : Terry Elliot, Oct. 13, 1988.
Skukum Gold Inc.
Suite 706-595 Howe Street,
Vancouver, B.C. V6C 2T5.


## SUMMARY

Two samples of strongly altered and sulfidized rock, cut by thin stringers of quartz and/or carbonate and with unidentified needles of sulfide, were submitted for petrographic description. The needles are arsenopyrite; minor amounts of cubic pyrite and anhedral sphalerite are associated with it. Alteration is to intense quartz-sericite in the sample of presumed quartz monzonite derivation (from 1586.3'), and to intense carbonate-sericite-quartz in the sample of andesitic volcanics. The carbonate in the latter appears to be an ankerite, with approximately 30% $MgCO_3$, 60% $CaCO_3$, and 10% $FeCO_3$. No gold particles were seen.


## DDH P86-P62 1586.3': QUARTZ-SERICITE ALTERED, SULFIDIZED ?QUARTZ MONZONITE

Grey-green, intensely quartz-sericite altered felsic igneous rock taht may have been a coarse-grained quartz monzonite before alteration. Abundant sulfides are patchily distributed, mainly in the sericitic patches, and include subhedral grains of pyrite, euhedral needles of arsenopyrite and rounded masses of sphalerite (the sphalerite is not visible in hand specimen). In polished thin section, the mineralogy is:

| | |
|---|---|
| Quartz | 40% |
| Sericite | 35% |
| Arsenopyrite | 15% |
| Pyrite | 5% |
| Sphalerite | 2% |
| Sphene | 1% |
| Apatite | 1% |
| Zircon | tr |

The quartz is in the form of anhedral to subhedral grains ranging up to 2 mm long. They are generally highly strained, showing strong fracturing and undulose extinction, although the boundaries are not often sutured. The coarse quartz, which may have formed large ?phenocrysts or perhaps merely grains in a plutonic rock, were up to over 0.5 cm across. They are recrystallized to much finer-grained secondary quartz (0.01 to 0.05 mm across) where cut by veinlets or fractures. This coarse quartz is characterized by abundant fluid inclusions. The majority of these are secondary (or psuedosecondary, i.e. in fractures which do not cross grain boundaries), and are generally less than 10 microns (0.01 mm) across. The overall inpression is that of the "wispy" texture that characterizes the upper mesothermal

enviornment. No 3-phase inclusions, i.e. with visible $CO_2$, appear to be present, hence the suggestion of an upper mesothermal enviornment. In one portion of the slide, where it is cut by a milky quartz vein, growth zoning is defined in sub- to euhedral crystals by zones of primary fluid inclusions, but they are very small (1-3 microns) and would be difficult to analyse.

Sericite forms the rest of the rock, with the abundant sulfide, in patches between the quartz areas. The sericite is very fine grained (0.01-0.02 mm), occurring as fine matted flakes intergrown with the sulfides and secondary quartz. The secondary quartz is clear (free of fluid inclusions) compared to the primary quartz. Small patches of greenish-brown material in the sericite may be remnants of former mafic minerals (?biotite or hydrobiotite). Small amounts of semi-opaque ?sphene are also present; these together with small clear needles of apatite, up to 0.02 mm long, and rare zircons (one is 0.1 mm long) indicate the igneous parentage of the rock before alteration. No carbonate is found in this rock.

There is very little sulfide in the quartz veins except where inclusions of altered wall rock are present. By analogy with current studies at Bralorne, these would be prefered sites for gold deposition. However, no gold particles were observed, either free or in sulfides.

Pyrite is present as large, subhedral, zoned grains up to 0.3 mm across, with overgrowths of pyrite that have occasionally included some of the euhedral, needle-like arsenopyrite laths. Other grey inclusions in the pyrite, about 10 microns across, show anisotropism and pale yellow-brown internal reflection; they may be rutile (?). Arsenopyrite crystals range from 10 microns up to a few tenths of a millimeter long; they are weakly anisotropic and also rarely include some ?rutile. Sphalerite is also zoned, with iron-free cores, and more Fe-rich (slightly darker red-brown internal reflections) in the margin and rim areas. Grains are rounded and up to 0.5 mm in diameter, with abundant inclusions of silicate and some pyrite and arsenopyrite.

DDH 88 P-62 1621': STRONGLY CARBONATE-SERICITE ALTERED, SULFIDIZED ?ANDESITE

Light green, strongly altered, intensely stockworked (to brecciated) intermediate volcanic of possible former andesitic composition. The veinlet network is composed principally of white carbonate which does not react strongly to cold dilute HCl unless powdered, so it is probably dolomitic or ankeritic (confirmed by SEM study, see Appendix). This carbonate would probably weather orange-brown when oxidized. Former plagioclase phenocrysts were about 1-2 mm long and have been replaced by pale apple-green sericite; slightly smaller former mafics are repalced byy green sericitized biotite, and the matrix by buff-coloured carbonate. Sulfides are principally brassy-coloured pyrite and finer, white needles of arsenopyrite, in pockets replacing the wall rocks, obviously related to and near the veins. In polished thin section, the minerals are:

| | |
|---|---|
| Carbonate (ankeritic) | 45% |
| Sericite (partly after biotite) | 35% |
| Quartz (mostly secondary?) | 10% |
| Arsenopyrite | 5% |
| Pyrite | 3% |
| Sphene/rutile | 2% |

This is a typical intense phyllic asemblage, with the mineralogy influenced by the original rock composition to produce carbonate and biotite compared to the quartz and sericite of the sample at 1586.3'. Carbonate grains replacing the matrix of the rock are fine-grained, ragged anhedra less than 0.05 mm across. They are intergrown with sericite and quartz of similar size. Plagioclase phenocrysts are replaced by a fine mat of sericite and quartz, with lesser carbonate. Former mafic phenocrysts were up to 1.5 mm long and are now replaced by a fine interlocking mat of carbonate, sericite, and biotite or ?"hydrobiotite" that has been almost completely interleaved by and altered to sericite. The hydrobiotite has only very pale brown pleochroism remaining, but is distinguished by dust-like (micron-sized) opaques of sphene or rutile (from $TiO_2$ left over during sericitization).

Quartz grains are intergrown with the alteration assemblage and are water-clear (no inclusions), so are probably secondary. They range from less than 0.05 to 0.2 mm across, and are mainly confined to replacement of the matrix. Some sections of the rock, away from the veinlets, are much more silicified (visible in hand specimen as grey areas).

The sulfide assemblage is similar to that at 1586.3' in this hole. Coarse cubic pyrite up to 0.5 mm across, but ranging down to 0.02 mm, is occasionally intergrown with euhedral, needle-like arsenopyrite which is whiter in colour and weakly (but distinctly) anisotropic in pale blue to pale orange-brown, compared to the creamy, isotropic pyrite. The arsenopyrite laths and rhombs are about 0.1 to 0.2 mm long,

and may be included within the pyrite and/or found around its margins. Sulfides are mainly restricted to the altered matrix, as opposed to the phenocrysts.

Veins are almost entirely carbonate, with only minor quartz and rare sulfides. Based on SEM studies (see Appendix), the carbonate in both veins and wall-rock is a ferroan dolomite or ankerite, containing about 60% $CaCO_3$, 30% $MgCO_3$, and 10% $FeCO_3$ by comparison to carbonates from Bralorne analysed by microprobe and SEM. The vein carbonate often displays similar textures to the vein quartz in the specimen from 1586.3', with abundant trails of secondary/psuedosecondary fluid inclusions crossing the grains. This, with the presence of a few larger (5 micron) fluid inclusions with possible 3-phase ($CO_2$) compositions, also indicate a mesothermal environment.

Craig H.B. Leitch, F. Eng.

October 17, 1988.

# APPENDIX VI

## STATEMENT OF QUALIFICATIONS

## STATEMENT OF QUALIFICATIONS

I JOHN F. BARIL, hereby certify that :

1) I am a geologist with Skukum Gold Inc. of 706 - 595 Howe Street, Vancouver, B.C. ;

2) I obtained a Bachelor of Science degree in Geology from the University of British Columbia, in 1988 ;

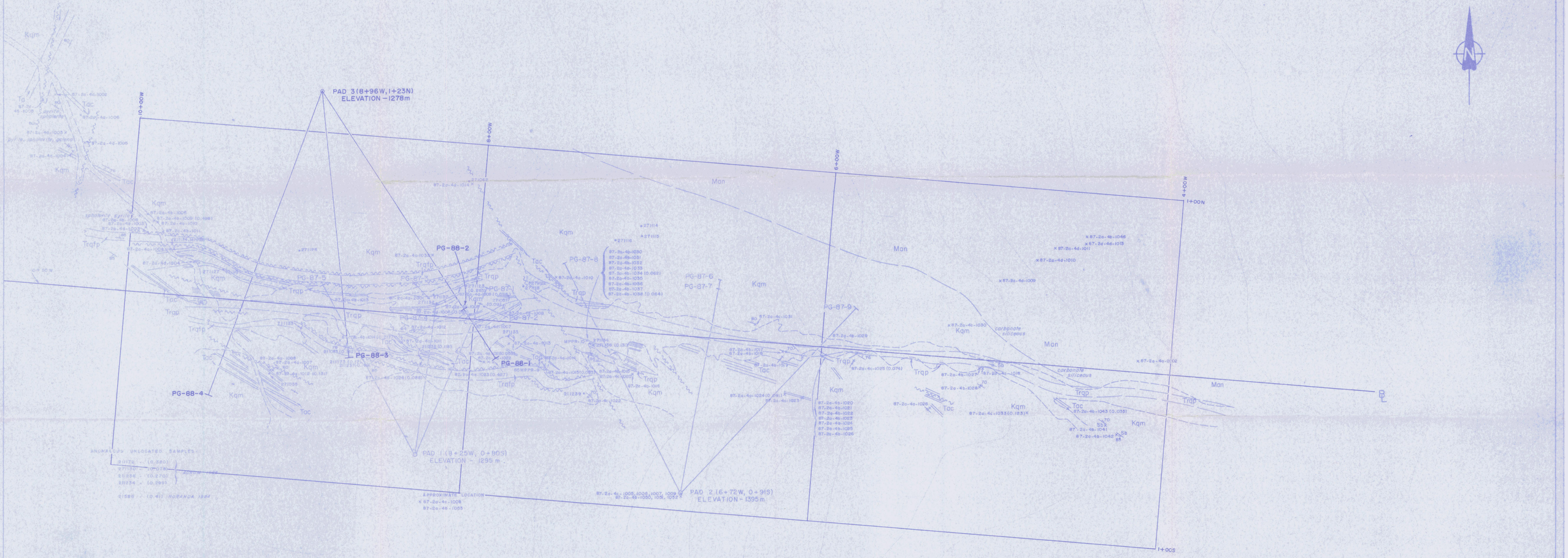
3) I have been involved in mineral exploration in the Yukon and British Columbia since 1987 ;

4) I was involved in the work performed on the POP claims in 1988, and am the author of this report ;

Dated this 22nd day of February, 1988

John Baril

JOHN F. BARIL, B.Sc.




## LEGEND

### LITHOLOGIES

TERTIARY

- Trqtp – quartz feldspar porphyritic rhyolite
- Trqp – quartz porphyry rhyolite
- Tac – andesite, carbonatized
- Td – andesite

(PEATHTIC AGE UNCERTAIN)

CRETACEOUS

- Kqm – quartz monzonite

MESOZOIC

- Man – andesite

### SYMBOLS

- geological boundary
- attitude of structure
- attitude of foliation
- fault
- heavy clay and sericite alteration
- diamond drill hole
- 1987 rock sample location, some with Au values in oz/ton
- pre-1987 rock sample location, some with Au values in oz/ton
- elevation contour; interval 100 ft
- creek

10m 0 10 20 30 40 50m
METRES

**SKUKUM GOLD INC.**
BERGLYNN RESOURCES INC. – JOINT VENTURE

POP CLAIMS-GODDELL GULLY

GEOLOGY
DIAMOND DRILL HOLE PLAN
SAMPLE LOCATIONS 092702

| | |
|---|---|
| MINING DISTRICT: WHITEHORSE | SCALE: 1:1000 |
| NTS: 105 D/3 | DATE: FEBRUARY, 1989 |
| DRAWN BY: IC/RH/JFB | FIGURE: 2 |

105 D3 (13)

## LEGEND FOR FIGURES 3, 4, AND 5 - CROSS SECTIONS

092702

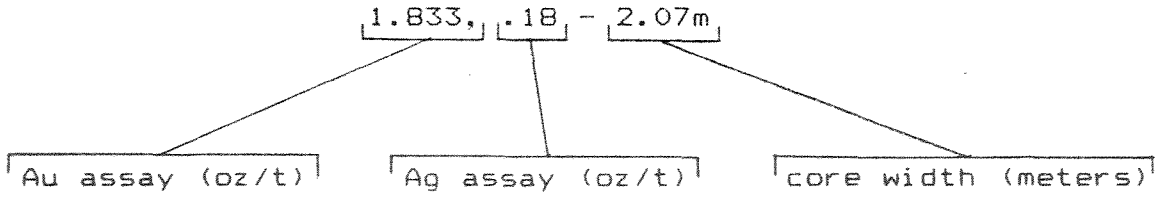
### GEOLOGY :

| Number | Rock Type |
|---|---|
| 1 | Altered quartz monzonite |
| 1a | Altered quartz monzonite breccia |
| 2 | Andesite dyke |
| 2a | Andesite dyke - brecciated |
| 3 | Rhyolite dyke |
| 3a | Rhyolite dyke - brecciated |
| 3b | Rhyolite dyke - flow banded |
| 3m | Rhyolite dyke - north and south QFP marker dykes |
| 4 | Quartz sulphide breccia |
| 4a | Quartz sulphide stringers |
| 5a | Black sulphide banding |
| 5b | Black breccia |
| 7 | Fault/shear/clay zones |
| 8 | Rhyodacite dyke |

## LEGEND FOR FIGURES 3, 4, AND 5 - CROSS SECTIONS

### ASSAY INTERVALS :

The numbering scheme for the assay intervals works according to the following example :



2+50N 1+50N 0+50N 0+50S 1+50S 2+50S

1500m 1400m 1300m 1200m 1100m 1000m 900m 800m 700m

Approximate surface profile

NORTH QFP

SOUTH QFP

NORTH QFP ZONE 1

SOUTH QFP ZONE 1

NORTH QFP ZONE 1

SOUTH QFP ZONE 1

ZONE 2

ZONE 2

ZONE 2

PG-88-1

PG-88-2

092702
105 D3
(14)

BERGLYNN-SKUKUM GOLD INC
GODDELL PROJECT

CROSS SECTION 8+02W

LOOKING EAST

| DATE February 89 | APP | DRAWING NUMBER |
|---|---|---|
| DRWN BY JFB | SCALE 1:1000 | 3 |

2+50N 1+50N 0+50N 0+50S 1+50S 2+50S

1500m 1400m 1300m 1200m 1100m 1000m 900m 800m 700m

Approximate surface profile

NORTH QFP

SOUTH QFP

ZONE 1

ZONE 2

BG-88-3

.001,.02—2.65m
.001,.01—2.19m
.01,.04—3.15m
.039,.06—0.79m
.077,.2—0.85m
.001,.03—4.54m
.004,.01—0.91m
.001,.02—0.94m
.014,.03—2.44m
.001,.01—3.04m
.001,.01—4.68m
.016,.01—0.49m
.03,.05—2.87m
.02,.04—6.58m
.003,.01—1.55m
.213,.14—0.46m
.04,.12—5.15m
.001,.09—0.94m
.001,.06—6.54m
.684,.17—0.76m
.093,.09—5.84m
.006,.01—8.64m
.014,.06—5.07m
.562,.01—2.22m
.01,.01—2.13m
.03,.05—4.2m
.001,.03—2.89m
.002,.03—11.25m
.138,.06—0.79m
.124,.05—0.46m
.045,.05—5.55m
.002,.01—4.57m
.001,.01—1.92m
.001,.01—1.37m
.001,.01—2.26m
.015,.03—1.46m
.001,.01—0.64m
.001,.01—0.38m
.001,.01—1.22m
.009,.01—1.52m
.001,.01—1.52m
.005,.01—1.52m
.001,.01—1.04m
.205,.01—1.98m
.203,.02—1.55m
.203,.07—0.91m
.768,.01—1.22m
.01,.01—0.27m
.006,.01—0.4m
.411,.07—0.37m
.011,.05—1.37m
.179,.07—1.22m
1.908,.11—0.52m
.404,.15—1.61
1.833,.18—2.07m
.014,.02—1.43m
.001,.04—1.25m

105 D3 (15)

BERGLYNN—SKUKUM GOLD INC
GODDELL PROJECT

CROSS SECTION 8+74W

LOOKING EAST

| | | |
|---|---|---|
| DATE February 89 | APP | DRAWING NUMBER 4 |
| DRWN BY JFB | SCALE 1:1000 | |

092702

2+50N 1+50N 0+50N 0+50S 1+50S 2+50S

1500m 1400m 1300m 1200m 1100m 1000m 900m 800m 700m

Approximate surface profile

NORTH QFP

SOUTH QFP

ZONE 1

ZONE 2

PG-88-4

105 D3 (16)

BERGLYNN-SKUKUM GOLD INC
GODDELL PROJECT

CROSS SECTION 9+32W

LOOKING EAST

| DATE February 89 | APP | DRAWING NUMBER |
|---|---|---|
| DRWN BY JFB | SCALE 1:1000 | 5 |

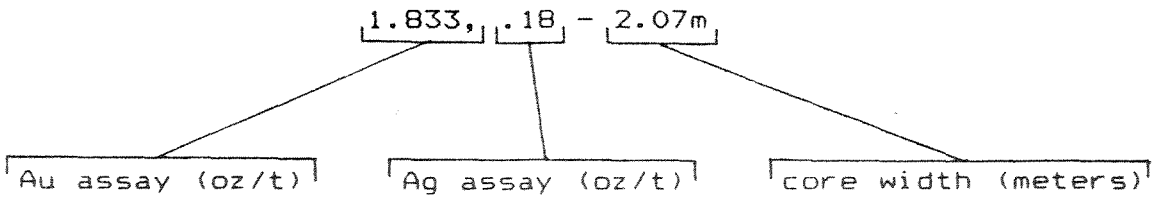
092703

092702

LEGEND FOR FIGURE 6 — VERTICAL LONGITUDINAL SECTION :

## ASSAY INTERVALS :

The numbering scheme for the assay intervals works according to the following example :



10+00W
9+00W
8+00W
7+00W
6+00W
5+00W
1500m
1400m
1300m
1200m
1100m
1000m
900m
800m
700m
Approximate surface profile
ZONE 1
.001,.03-2.13m
87PG-1
ZONE 1
.003,.02-4.57m
87PG-5
ZONE 1
.014,.04-3.72m
87PG-3
ZONE 1
.023,.03-4.82m
87PG-2
ZONE 1 ?
.025,.10-7.1m
87PG-6
ZONE 1 ?
.014,.02-6.77m
ZONE 1 ?
.029,.36-3.38m
87PG-8
ZONE 1 ?
.065,.07-1.58m
ZONE 1 ?
.015,.01-1.28m
87PG-9
ZONE 1 ?
.082,.10-0.73m
ZONE 1 ?
.156,.08-0.64m
87PG-7
ZONE 1
.01,.02-7.02m
ZONE 1
.026,.02-1.34m
.001,.01-0.82m
ZONE 2
ZONE 1
.069,.08-2.62m
87PG-4
PG-88-1
ZONE 1
.006,.02-20.04m
ZONE 2
.001,.01-37.64m
PG-88-4
.016,.01-0.49m
ZONE 1
.025,.07-23.45m
.112,.13-5.66m
ZONE 2
.610,.08-11.24m
.354,.06-1.25m
PG-88-3
ZONE 1
.12,.05-6.99m
ZONE 2
.181,.07-7.6m
.082,.08-10.37m
.394,.16-6.45m
PG-88-2

105 D3 (17)

BERGLYNN-SKUKUM GOLD INC
GODDELL PROJECT

VERTICAL LONGITUDINAL SECTION
(095° AZIMUTH)
LOOKING NORTH

| DATE FEBRUARY, 1989 | APP | DRAWING NUMBER |
|---|---|---|
| DRWN BY JFB | SCALE 1:1000 | 6 |

092702

Indian and Northern Affairs Canada
Northern Affairs Program

Affaires indiennes et du Nord Canada
Programme des affaires du Nord

092702

Mineral Rights — Droits miniers

105 D3
(18)

FIGURE 7

Canada

13 March 85

# 105D-3
## QUARTZ & PLACER

LATITUDE 60°00' 60°15'
LONGITUDE 135° 00' 135° 30'

ISSUED UNDER THE AUTHORITY OF THE MINISTER OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

SCALE 1:30,000

1000 0 1000 2000 METRES
1500 0 1500 3000 4500 6000 7500 9000 10500 FEET

N

MAGNETIC NORTH 29° 25' E

**NOTE:**

THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER.

TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES.
CONTOUR INTERVAL 500FEET
SURVEY INFORMATION COMPILED FROM LEGAL SURVEYS, BY DRAFTING SERVICES

**NOTE: ENTRY ON CERTAIN LANDS IS WITHDRAWN FROM STAKING BY P.C. 1984-4085 TO FACILITATE THE SETTLEMENT OF NATIVE LAND CLAIMS WITHOUT PREJUDICE TO EXISTING SURFACE AND SUBSURFACE RIGHTS.**

| | | |
|---|---|---|
| 105D-5 | 105D-6 | 105D-7 |
| 105D-4 | 105D-3 | 105D-2 |

BRITISH COLUMBIA
COLOMBIE BRITANNIQUE

135° 30' 25' 20' 135° 15' 10' 05' 135° 00'
60° 15' 10' 05' 60° 00'

WHITEHORSE

P.C. 1984-4085

COLOMBIE BRITANNIQUE — BRITISH COLUMBIA — YUKON

105D-3