GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILLING REPORT

# ON THE

# D, E, F, M, N, O and P CLAIMS

LOCATED IN THE

OMINECA MINING DIVISION

FAWNIE NOSE AREA

LATITUDE: 53° 17'

LONGITUDE: 125° 10'

N.T.S. 93F 6E

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8515

OWNER AND OPERATOR

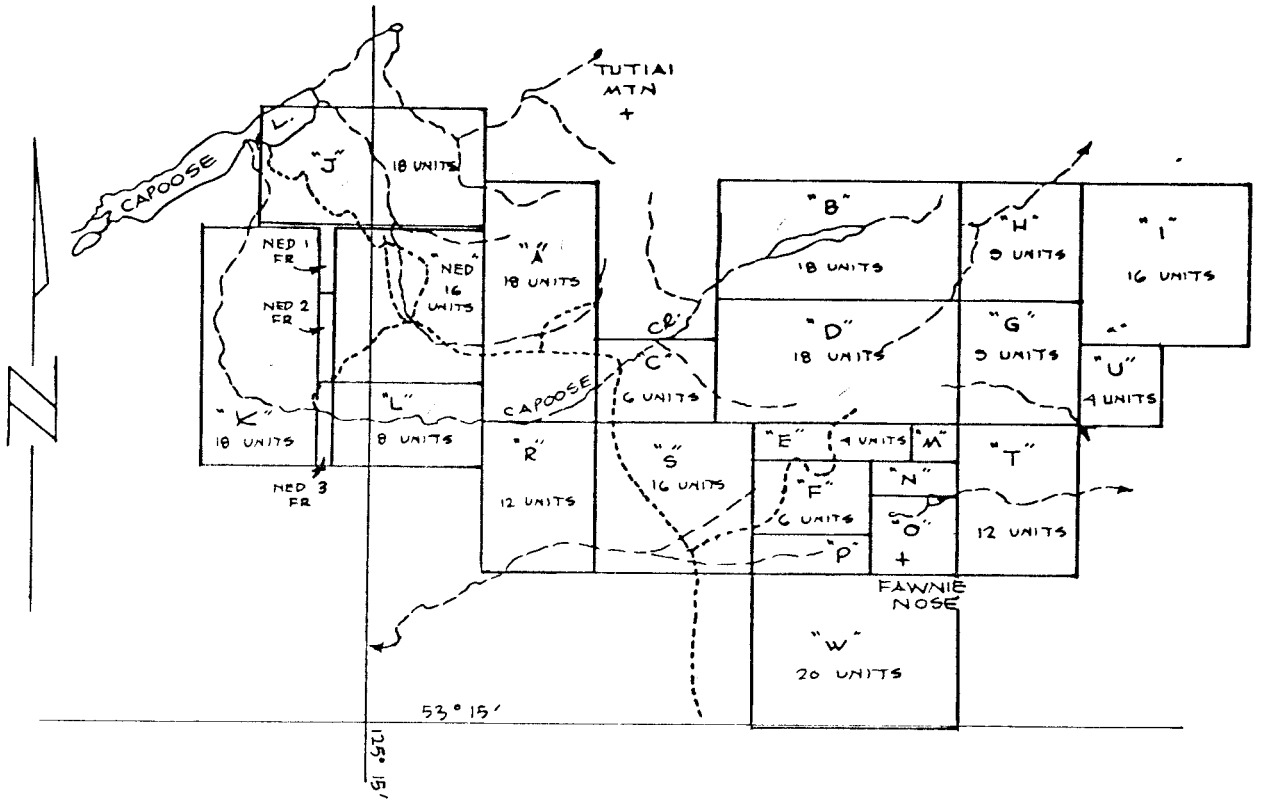
Granges Exploration Aktiebolag
1110 - 625 Howe Street
Vancouver, B. C.
V6C 2T6

Date of Work: June 24th/80 to September 18th/80

Dated at Vancouver:
November 26, 1980

Author:
G. W. Zbitnoff, (P. Eng.)

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
GEORGE ZBITNOFF

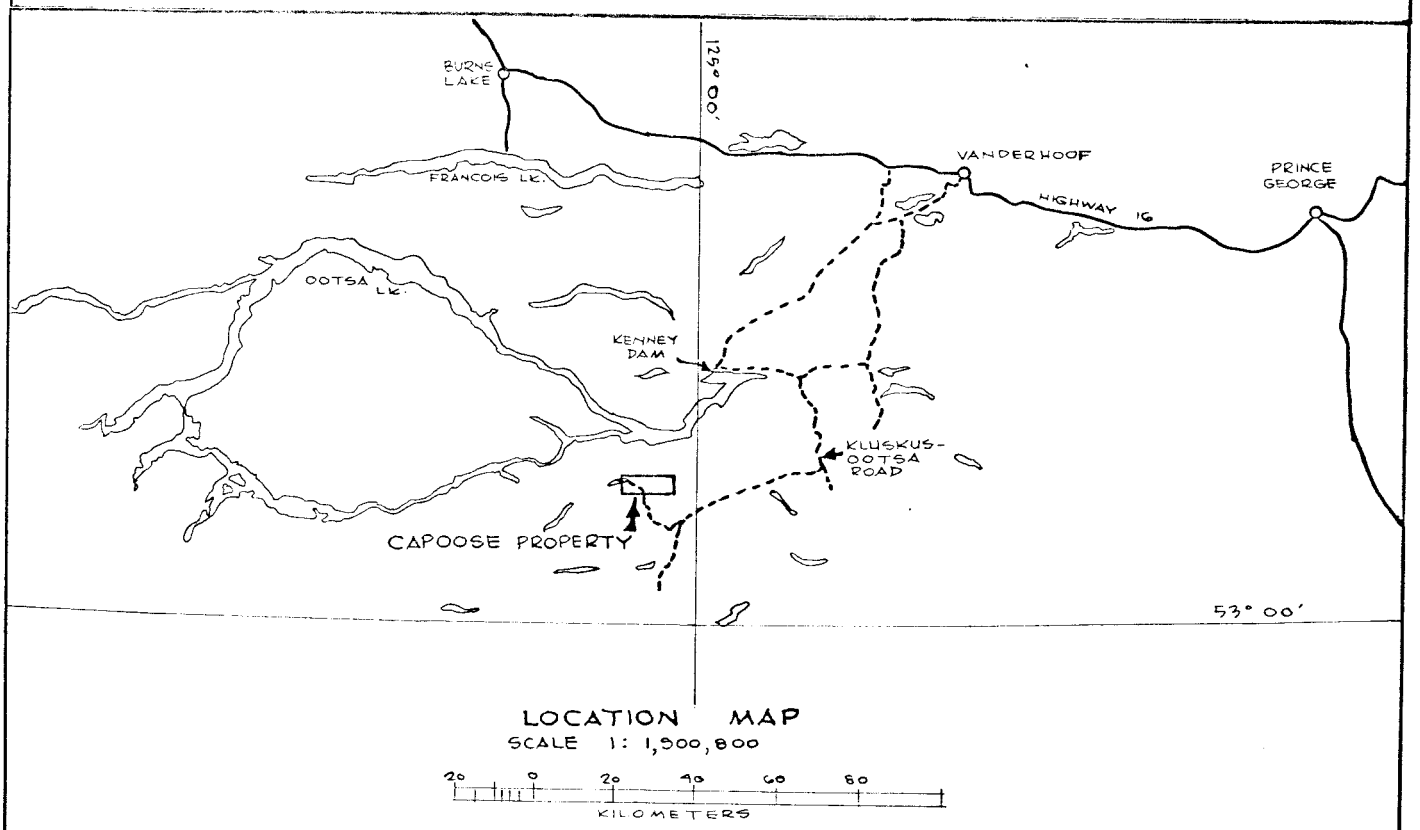



# CLAIM MAP

SCALE 1 : 100,000

0 1000M 2000M

N.T.S. № 93 F - 6




# LOCATION MAP

SCALE 1: 1,500,000

20 0 20 40 60 80

KILOMETERS

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## ENCLOSURES

Map showing diamond drill holes D-10 to D-26 inclusive.

Scale: 1:2500

Diamond drill logs and record sheets for holes D-10 to D-26 inclusive.

## INTRODUCTION

A diamond drill program was initiated on a large geochemical silver anomaly which showed minor values as a result of previous drilling programs. D. W. Coates Enterprises was contracted to drill under the supervision of Granges Exploration Aktiebolag's project geologist, William Lumley.

The program was conducted to determine whether the silver values were continueous enough to have a economic potential.

## CLAIMS

The majority of the work was carried out on the "E" and "F" claims. The "E" claims record number is 429, and consists of 4 units and record date of September 23, 1976. The "F" claim record number is 662 which consists of 6 units and has a record date of July 4, 1977.

## LOCATION AND ACCESS

The "E" and "F" claims are located approximately 467 kilometers north north-west of Vancouver, B. C. and 115 kilometers south-west of Vanderhoof, B. C. They lie astride the Fawnie Range centered approximately 1.5 kilometers south of the Fawnie Nose Mountain.

The major portion of the claims lie above timberline with the slopes very steep on the east and west sides of the claims. The top is relatively flat and in this location the drilling was centered. The elevation of the drilling area ranged between 1875 meters and 1900 meters.

Access to the "E" and "F" claims was from Vanderhoof via the Plateau Mills' Kluskus-Ootsa Road for 142.3 kilometers to the junction of the Granges Capoose Lake Road where the equipment was off loaded and transported by helicopter to the drill site. Support for the drilling program was provided by helicopter from Burns Lake.

## DESCRIPTION OF PROGRAM AND RESULTS

The purpose of the program was to further test the geochemical anomalies previously located and to investigate the continuity of the values received in the previous percussion and diamond drilling programs.

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Mobilization was commenced from Vanderhoof on June 24, 1980 with the first hole D-10 being collard on June 27, 1980. The completion of hole D-26 was on September 2, 1980. The program continued on through to the latter part of September.

A total of 17 (BQ) holes were drilled totalling 3,376.1 meters by D. W. Coates Enterprises of Vancouver, B. C. under contract to Granges Exploration Aktiebolag.

All holes intersected a volcanic sequence ranging from andesites to the acidic rhyolite phase in several of the locations, The volcanic sequence was capped by a argillite. Most holes intersected values in silver, however in many holes the widths were rather narrow.

Listed below are the holes with a summary of the grades and widths intersected during the program:

| Hole No. | Intercept Meters | Length Meters | Au g/T | Ag g/t | Pb % | Zn % | Cu % |
|---|---|---|---|---|---|---|---|
| D 10-80 | 69.11-135.11 | 66.00 | .24 | 38.9 | .12 | .11 | -- |
| D 11-80 | 53.28- 59.28 | 6.00 | .12 | 27.5 | .08 | .01 | -- |
| D 12-80 | 28.65- 39.66 | 11.01 | .08 | 21.7 | -- | .10 | -- |
| D 13-80 | ( 24.99- 36.27 | 11.28 | .41 | 23.51 | -- | .50 | -- |
| | (191.10-215.49 | 24.39 | .30 | 28.38 | .12 | .21 | |
| D 14-80 | 83.53- 87.56 | 6.00 | .13 | 25.00 | .34 | .08 | -- |
| D 15-80 | (101.12-128.00 | 26.88 | .809 | 7.08 | .82 | .02 | -- |
| | (224.00-245.00 | 21.00 | .198 | 33.42 | .71 | .05 | -- |
| D 17-80 | ( 70.00-112.00 | 42.00 | .52 | 39.00 | .09 | .27 | -- |
| | 175.00-217.00 | 42.00 | .25 | 33.10 | .01 | .30 | -- |
| D 19-80 | 111.00-203.29 | 92.29 | .20 | 37.14 | .25 | .16 | -- |
| D 20-80 | 36.00-102.00 | 66.00 | .78 | 25.00 | .13 | -- | -- |
| D 21-80 | no assays to date | | | | | | |
| D 22-80 | 8.00- 29.00 | 24.00 | .275 | 21.50 | .21 | -- | -- |
| D 23-80 | (104.00-152.00 | 48.00 | .19 | 17.37 | .10 | .26 | -- |
| | (173.00-191.00 | 18.00 | .62 | 19.66 | -- | .29 | -- |
| D 24-80 | ( 29.83- 42.30 | 12.47 | 1.517 | 91.93 | .16 | 3.47 | .22 |
| | (115.60-169.46 | 53.86 | .159 | 19.12 | -- | -- | -- |
| | (186.83-213.35 | 26.52 | .404 | 26.39 | -- | -- | -- |
| D 25-80 | 22.00-166.00 | 144.00 | .35 | 54.80 | -- | -- | -- |
| D 26-80 | ( 50.00-112.35 | 62.35 | .29 | 61.79 | -- | -- | -- |
| | (181.00-196.00 | 15.00 | .23 | 28.46 | -- | -- | -- |
| | (211.00-218.24 | 7.24 | .05 | 31.63 | -- | .16 | -- |

For a more comprehensive report view the logs and record sheets appended within.

RECOMMENDATIONS

Further drilling is recommended in a closer spacing pattern to determine if economic potential exists.

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STATEMENT OF COSTS

D. W. Coates Invoices

| | |
|---|---|
| Invoice # 1778 | $ 23,948.08 |
| Invoice # 1792 | 50,729.57 |
| Invoice # 1799 | 60,554.24 |
| Invoice # 1830 | 49,831.50 |
| Invoice # 1845 | 58,169.19 |
| TOTAL | $243,232.50 |

G. W. Zbitnoff, (P. Eng.)

# STATEMENT OF QUALIFICATIONS

| | |
|---|---|
| Name: | Zbitnoff, George Wm. |
| Profession: | Geologist |
| Professional Associations: | Member of the Association of Professional Engineers of the Province of Manitoba since 1969.<br><br>Member of the Association of Professional Engineers of the Province of British Columbia since 1973. |
| Experience: | Pre graduation experience in geology with the Department of Mineral Resources.<br><br>Two and one half years, field geologist with Hudson Bay Exploration and Development, Central Canada.<br><br>Six years, field and Resident Geologist with Noranda Exploration Ltd., Central Canada.<br><br>Nine years geologist and Assistant Manager with Granges Exploration Aktiebolag, Canadian Division.<br><br>Active experience in all geologic provinces of Canada and parts of the United States and Mexico. |

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 638' (194.51M) | Date Began: JUNE 27, 1980.
Hole No.: DDH-D-10-80 | Co ord.: 7+45W | Horizontal Length: 488.73 (148.96) 411 08 125 29m | Date Completed: JUNE 29, 1980.
Sheet No.: 1 OF 4 | 2+51 S | Direction: 270° | Drilled By: D.W. COATES
Claim No.: | Elevation: 1892 | Angle: -50° | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | % REC'Y CALC'D. |
|---|---|---|---|---|
| 0 9.45 | CASING | | | |
| 9.45- 14.55 | Highly Fractured brecciated kaolinized & leached white to light grey rhyolite tuff characterized by numerous randomally orientated hematite coated fractures (locally filled with gouge). | | | |
| | 9.45-10.97 section characterized by vugs resulting from leaching of sulphides-very hematite stained. | | | |
| | 10.97-11.73 section with numerous gouge filled fractures. | | | |
| | 11.73-13.18 as between 9.45-10.97. | | | |
| | 13.18-13.25 Gouge at 35° to core axis. | | | |
| | 13.25-13.72 similar to section 9.45-10.97. | | | |
| 14.55-17.56 | very dark hard siliceous chert black fine-grained rhyolite locally kaolinized & hematite rich with pyrite to 3% of rock. | | | |
| | 16.00-16.92 kaolinized section soft fractures coated with light green mineral (talc?) with some pyrite (minor). | | | |
| 17.56-20.65 | light grey rhyolite tuff locally kaolinized, hematitic and highly fractured. | | | |
| | 17.56-17.98 kaolinizied with 1-3% pyrite. | | | |
| | 17.98-18.93 mineralized section characterized by fractures running at 45° to the core axis approximately 2cm wide. | | | |
| | 18.93-20.65 leached hematitic zone sulphides leached out. | | | |
| 20.65- 24.61 | Dark grey silicious pyrite rich zone similar to 14.55-17.56, but of a lighter colour called a rhyolite breccia with fragments up to 10cm in diameter with local zones of rhyolitic tuff. | | | |
| | 20.65-21.95 hard siliceous zoned rhyolitic tuff. | | | |
| | 21.95-22.78 breccia characterized by numerous hematite filled fractures running between 0°-20° to core axis. | | | |
| | 22.78-24.61 as above, but more tuffaceous. | | | |
| 24.61-25.91 | white to light grey siliceous rhyolitic breccia rich in pyrite & characterized by calcite veins parallel to core axis. Some small blebs up to 4 cm in diameter containing sph. pyrite & garnets. | | | |
| 25.91-31.09 | light to dark grey siliceous rhyolite fractured parallel to core axis filled with hematite. Pyrite 1-3% with garnets, but no sulphides other than pyrite. Lower contact at 25° to core axis. | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth | Date Began
Hole No.: DDH-D-10-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 2. OF. 4 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31.09-40.39 | Rhyolite tuff light to dark grey in colour lighter colours usually more coarse grained where as darker colour tends to be fine to medium grained pyrite 1-3% to maximum of 6% as blebs & veins. Local sections of fine grained rhyolite. | | | | | | | | | | | |
| | 31.09-32.16 light grey coarse grey tuff vuggy & hematitic. | | | | | | | | | | | |
| | 32.16-33.83 section becoming fine grained, darker and more cherty as section deepens. | | | | | | | | | | | |
| | 33.83-35.05 rhyolite with pyrite & garnets. | | | | | | | | | | | |
| | 35.05-40.39 dark grey tuff locally hematitic. | | | | | | | | | | | |
| | 36.42-36.79 kaolin filled fracture parallel to core axis. | | | | | | | | | | | |
| 40.39-153.92 | light grey medium grained rhyolite tuff-mineralization increasing with depth. Characteristic kaolinization & alteration haloes seen; similar to ore zone in DDH-D-3. | | | | | | | | | | | |
| | Mineralized with pyrite, sphalerite, minor galena as whisps & blebs and as fractured fillings. Upper section weathered & fractured & hematitic. Local vuggy areas where sulphides are leached. | | | | | | | | | | | |
| | 40.39-46.05 Dark grey siliceous, pyrite rich unit. Gradually becomes lighter colour as it becomes kaolinized. | | | | | | | | | | | |
| | 46.05-138.95 Unit generally well mineralized especially in lower section. | | | | | | | | | | | |
| | 46.75 Hematite filled fracture @25° to core axis. | | | | | | | | | | | |
| | 53.35-53.96 Hematitic section-highly fractured at 20° to core axis. | | | | | | | | | | | |
| | 54.30 2cm wide vuggy hematitic vein at 35° to core axis. | | | | | | | | | | | |
| | 59.74-60.04 gossanous fracture at 10° to core. | | | | | | | | | | | |
| | 60.04-60.53 siliceious section characterized by numerous weathered vugs & pits. | | | | | | | | | | | |
| | 63.09-64.37 hard siliceous rhyolite dyke somewhat brecciated. | | | | | | | | | | | |
| | 67.90-138.95 Unit has notable increase in kaolinization becomes very uniform in texture with vugs & fractures sometimes lined with a black mineral (chalcocite?). Unit is well mineralized in this section. | | | | | | | | | | | |
| | 67.90-88.42 well mineralized with black mineralization & pyrite some galena & sphalerite with galena predominant. | | | | | | | | | | | |
| | 88.42-89.15 hematitic section highly fractured, with numerous garnet & pyrite filled fractures. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 638' (194.51M) | Date Began:
Hole No.: DDH-D-10-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 3 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | % REC'Y CALC'D. |
|---|---|---|---|---|
| | 89.15-90.98 Breccia zone fragments up to 3cm in diameter. | | | |
| | 90.67-95.73 Section characterized by vuggy hematitic zones with some broken core fractures 10°-80°, but predominantly 40° to core. | | | |
| | 90.67 fracture at 40° to core. | | | |
| | 90.89 3cm wide quartz healed fracture-pyrite & minor galena & sphalerite. | | | |
| | 91.07 vuggy hematitic fracture at 75° to core. | | | |
| | 93.29 1cm wide garnet rich fracture. | | | |
| | 93.72 as above 93.29. | | | |
| | 94.48-95.34 broken core. | | | |
| | 98.32-98.38 fracture at 35° to core. | | | |
| | 98.75 " " 10° to core. | | | |
| | 102.71 " " " " " | | | |
| | 103.32-108.20 siliceous section-weakly mineralized with 3% pyrite & minor hematite. | | | |
| | 104.39 quartz filled fracture 1cm in thickness lined with chlorite. | | | |
| | 108.66 4cm wide vuggy fracture at 50° to core containing pyrite, galena, sphalerite & garnets. | | | |
| | 110.36 small brecciated section at 40° to core cemented by quartz. | | | |
| | 110.39-110.58 broken core. | | | |
| | 110.97 1cm wide gouge filled fracture at 30° to core. | | | |
| | 111.25-112.92 local zone of leaching & hematitization. | | | |
| | 116.58 1cm wide gouge filled fracture at 35° to core. | | | |
| | 117.07 2cm wide fracture filled with garnets, pyrite, sphalerite & minor galena at 35° to core. | | | |
| | 117.65 1cm wide fracture as above (117.07) at 20° to core. | | | |
| | 120.63 1cm wide " filled with pyrite. | | | |
| | 123.13 3cm wide high grade breccia zone massive galena & sphalerite cementing fragments. | | | |
| | 121.91-130.14 highly mineralized section highest of entire hole. mineralization is quite evident. | | | |
| | 125.91 2cm wide high grade fracture-galena, sphalerite, pyrite at 70° to core. | | | |
| | 127.25 2cm wide high grade vein-galena, sphalerite, pyrite. | | | |
| | 127.40 3cm wide bleb of sulphides. | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-10-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 4 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 134.72-135.36 highly fractured zone-fractures parallel to core. | | | | | | | | | | | |
| | 138.95 parallel 1cm wide pyrite filled fractures at 70° to core. | | | | | | | | | | | |
| | 138.95-153.92 Mineralization rapidly decreasing with depth. Unit is becoming less altered & more siliceous. | | | | | | | | | | | |
| 153.92-168.09 | Chalky white to light greenish white fresh rhyolite dyke. Same dyke intersected in DDH-D-3. | | | | | | | | | | | |
| 168.09-194.45 | Very hard siliceious & fractured rhyolite tuff generally dark grey in colour with light grey section appears low grade. | | | | | | | | | | | |
| | 168.09-178.91 Broken core. | | | | | | | | | | | |
| | 180.43 3cm wide breccia zone of pyrite, galena, sphalerite cementing fragments. | | | | | | | | | | | |
| | 183.18-184.33 Broken core. | | | | | | | | | | | |
| | 185.25-191.10 Broken core | | | | | | | | | | | |
| | 188.02-188.66 Gouge. | | | | | | | | | | | |
| | END OF HOLE | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: Capoose | Project No.: 70113 | Depth: 638' (194.51M) | Date Began: JUNE 27, 1980.

Hole No.: D 10-80 | Co ord.: 7+45W | Horizontal Length: 488' (148.96M) | Date Completed: JUNE 29, 1980.

Sheet No.: 1 of 2 | 2+51S | Direction: 270° | Drilled By: D. W. COATES

Claim No.: | Elevation: 1892 | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ meters | NUMBER | WIDTH | Au. | Ag. | Cu. | Zn. | | WIDTH X ASSAY | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13.72- 16.77 | 8501 A | 3.05 | .05 | 3.0 | .01 | .26 | | | | | | | | | |
| 16.77- 20.66 | 8502 A | 3.89 | .05 | 1.5 | .02 | .24 | | | | | | | | | |
| 20.66- 23.71 | 8503 A | 3.05 | .85 | 2.0 | .02 | .37 | | | | | | | | | |
| 23.71- 26.76 | 8504 A | 3.05 | .30 | 3.0 | .01 | .15 | | | | | | | | | |
| 26.76- 29.81 | 8505 A | 3.05 | .05 | 1.0 | .01 | .11 | | | | | | | | | |
| 29.81- 32.86 | 8506 A | 3.05 | .05 | .5 | .03 | .11 | | | | | | | | | |
| 32.86- 35.91 | 8507 A | 3.05 | .05 | 1.0 | .02 | .09 | | | | | | | | | |
| 35.91- 38.96 | 8508 A | 3.05 | .05 | 1.5 | .06 | .05 | | | | | | | | | |
| 38.96- 42.01 | 8509 A | 3.05 | .05 | 2.0 | .03 | .04 | | | | | | | | | |
| 42.01- 45.06 | 8510 A | 3.05 | .05 | 1.5 | .01 | .07 | | | | | | | | | |
| 45.06- 48.11 | 8511 A | 3.05 | .10 | 5.0 | .02 | .42 | | | | | | | | | |
| 48.11- 51.11 | 8512 A | 3.00 | .05 | 10.0 | .02 | .22 | | | | | | | | | |
| 51.11- 54.11 | 8513 A | 3.00 | .05 | 5.0 | .03 | .02 | | | | | | | | | |
| 54.11- 57.11 | 8514 A | 3.00 | .05 | 9.5 | .01 | .01 | | | | | | | | | |
| 57.11- 60.11 | 8515 A | 3.00 | .05 | 7.5 | .01 | .02 | | | | | | | | | |
| 60.11- 63.11 | 8516 A | 3.00 | .05 | 4.5 | .01 | .05 | | | | | | | | | |
| 63.11- 66.11 | 8517 A | 3.00 | .05 | 3.0 | .02 | .13 | | | | | | | | | |
| 66.11- 69.11 | 8518 A | 3.00 | .10 | 10.0 | .02 | .09 | | | | | | | | | |
| 69.11- 72.11 | 8519 A | 3.00 | .05 | 14.0 | .05 | .10 | | | | | | | | | |
| 72.11- 75.11 | 8520 A | 3.00 | .30 | 75.0 | .13 | .07 | | | | | | | | | |
| 75.11- 78.11 | 8521 A | 3.00 | .20 | 43.0 | .09 | .14 | | | | | | | | | |
| 78.11- 81.11 | 8522 A | 3.00 | .15 | 27.0 | .14 | .20 | | | | | | | | | |
| 81.11- 84.11 | 8523 A | 3.00 | .05 | 15.0 | .02 | .15 | | | | | | | | | |
| 84.11- 87.11 | 8524 A | 3.00 | .05 | 11.5 | .10 | .12 | | | | | | | | | |
| 87.11- 90.11 | 8525 A | 3.00 | .05 | 13.0 | .23 | .02 | | | | | | | | | |
| 90.11- 93.11 | 8526 A | 3.00 | .35 | 80.0 | .15 | .07 | | | | | | | | | |
| 93.11- 96.11 | 8527 A | 3.00 | .60 | 31.0 | .25 | .01 | | | | | | | | | |
| 96.11- 99.11 | 8528 A | 3.00 | .10 | 15.5 | .06 | .08 | | | | | | | | | |
| 99.11-102.11 | 8529 A | 3.00 | .15 | 30.0 | .07 | .03 | | | | | | | | | |
| 102.11-105.11 | 8530 A | 3.00 | .15 | 21.0 | .05 | .07 | | | | | | | | | |
| 105.11-108.11 | 8531 A | 3.00 | .05 | 11.5 | .05 | .14 | | | | | | | | | |
| 108.11-111.11 | 8532 A | 3.00 | .10 | 16.0 | .06 | .07 | | | | | | | | | |
| 111.11-114.11 | 8533 A | 3.00 | .05 | 26.5 | .06 | .01 | | | | | | | | | |
| 114.11-117.11 | 8534 A | 3.00 | .45 | 43.0 | .05 | .03 | | | | | | | | | |
| 117.11-120.11 | 8535 A | 3.00 | .30 | 48.0 | .14 | .10 | | | | | | | | | |
| 120.11-123.11 | 8536 A | 3.00 | .25 | 45.0 | .23 | .31 | | | | | | | | | |
| 123.11-126.11 | 8537 A | 3.00 | .60 | 108.0 | .61 | .49 | | | | | | | | | |
| 126.11-129.11 | 8538 A | 3.00 | .70 | 80.0 | .10 | .26 | | | | | | | | | |
| 129.11-132.11 | 8539 A | 3.00 | .50 | 58.5 | .07 | .02 | | | | | | | | | |
| 132.11-135.11 | 8540 A | 3.00 | .10 | 24.5 | .05 | .04 | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: Capoose | Project No. | Depth | Date Began
Hole No.: D.10-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 2 of 2 | | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | NUMBER | WIDTH | Au. | Ag. | Cu. | Zn. | | WIDTH X ASSAY | AVERAGES WIDTH | AVERAGES Au. | AVERAGES Ag. | AVERAGES Cu. | AVERAGES Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 135.11-138.11 | 8541 A | 3.00 | .05 | 8.5 | .02 | .05 | | | | | | | | | |
| 138.11-141.11 | 8542 A | 3.00 | .05 | 11.5 | .04 | .12 | | | | | | | | | |
| 141.11-144.11 | 8543 A | 3.00 | .05 | 9.0 | .05 | .65 | | | | | | | | | |
| 144.11-147.11 | 8544 A | 3.00 | .05 | 12.0 | .06 | .30 | | | | | | | | | |
| 147.11-150.11 | 8545 A | 3.00 | .05 | 5.0 | .01 | .01 | | | | | | | | | |
| 150.11-153.96 | 8546 A | 3.85 | .05 | 2.5 | .01 | .03 | | | | | | | | | |
| 168.11-171.11 | 8547 A | 3.00 | .05 | 5.0 | .06 | .20 | | | | | | | | | |
| 171.11-174.11 | 8548 A | 3.00 | .05 | 2.5 | .02 | .07 | | | | | | | | | |
| 174.11-177.11 | 8549 A | 3.00 | .05 | 3.0 | .04 | .16 | | | | | | | | | |
| 177.11-180.11 | 8550 A | 3.00 | .05 | 4.0 | .05 | .12 | | | | | | | | | |
| 180.11-183.11 | 8551 A | 3.00 | .05 | 21.0 | .16 | 1.25 | | | | | | | | | |
| 183.11-186.11 | 8552 A | 3.00 | .05 | 9.5 | .06 | .14 | | | | | | | | | |
| 186.11-189.11 | 8553 A | 3.00 | .05 | 8.5 | .04 | .12 | | | | | | | | | |
| 189.11-192.11 | 8554 A | 3.00 | .25 | 8.0 | .02 | .10 | | | | | | | | | |
| 192.11-194.11 | 8555 A | 2.40 | .10 | 4.0 | .02 | .06 | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: Capoose | Project No.: 70113 | Depth: 667' (203.35 M) | Date Began: June 30, 1
Hole No.: D-11-80 | Co ord.: 6+39 W | Horizontal Length: 510' (155.78 m) | Date Completed: July 3, 1
Sheet No.: 1 of 2 | 2+58 S | Direction: 270° | Drilled By: D.W. Coates
Claim No.: | Elevation: 1890 | Angle: -50° | Logged By: W.E. Lumley

| FOOTAGE meters | NUMBER | WIDTH M | Au. | Ag. | Pb. ~~XX~~ | Zn. | | WIDTH X ASSAY | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.28-14.28 | 8556A | 3.0 | .05 | 1.5 | .01 | .07 | | | | | | | | | |
| 14.28-17.28 | 8557A | 3.0 | .05 | 1.0 | .01 | .23 | | | | | | | | | |
| 17.28-20.28 | 8558A | 3.0 | .05 | 1.5 | .04 | .12 | | | | | | | | | |
| 20.28-23.28 | 8559A | 3.0 | .05 | 1.0 | .02 | .13 | | | | | | | | | |
| 23.28-26.28 | 8560A | 3.0 | .05 | 2.0 | .01 | .08 | | | | | | | | | |
| 26.28-29.28 | 8561A | 3.0 | .05 | 3.0 | .02 | .28 | | | | | | | | | |
| 29.28-32.28 | 8562A | 3.0 | .05 | 4.5 | .03 | .19 | | | | | | | | | |
| 32.28-35.28 | 8563A | 3.0 | .05 | 5.5 | .04 | .68 | | | | | | | | | |
| 35.28-38.28 | 8564A | 3.0 | .05 | 2.0 | .01 | .08 | | | | | | | | | |
| 38.28-41.28 | 8565A | 3.0 | .05 | 2.5 | .01 | .26 | | | | | | | | | |
| 41.28-44.28 | 8566A | 3.0 | .05 | 7.0 | .01 | .45 | | | | | | | | | |
| 44.28-47.28 | 8567A | 3.0 | .05 | 1.5 | .01 | .24 | | | | | | | | | |
| 47.28-50.28 | 8568A | 3.0 | .05 | 11.0 | .01 | .31 | | | | | | | | | |
| 50.28-53.28 | 8569A | 3.0 | .10 | 7.0 | .01 | .09 | | | | | | | | | |
| 53.28-56.28 | 8570A | 3.0 | .15 | 26.5 | .08 | .02 | | | | | | | | | |
| 56.28-59.28 | 8571A | 3.0 | .10 | 28.5 | .08 | .01 | | | | | | | | | |
| 59.28-62.28 | 8572A | 3.0 | .05 | 4.0 | .01 | .07 | | | | | | | | | |
| 62.28-65.28 | 8573A | 3.0 | .05 | 2.0 | .01 | .10 | | | | | | | | | |
| 65.28-68.28 | 8574A | 3.0 | .40 | 4.5 | .02 | .02 | | | | | | | | | |
| 68.28-71.28 | 8575A | 3.0 | .10 | 2.5 | .01 | .02 | | | | | | | | | |
| 71.28-74.28 | 8576A | 3.0 | .05 | 1.5 | .01 | .01 | | | | | | | | | |
| 74.28-77.28 | 8577A | 3.0 | .05 | 2.5 | .03 | .01 | | | | | | | | | |
| 77.28-80.28 | 8578A | 3.0 | .05 | 10.5 | .03 | .01 | | | | | | | | | |
| 80.28-83.28 | 8579A | 3.0 | .45 | 29.0 | .05 | .02 | | | | | | | | | |
| 83.28-86.28 | 8580A | 3.0 | .40 | 11.0 | .04 | .01 | | | | | | | | | |
| 86.28-89.28 | 8581A | 3.0 | .10 | 10.0 | .02 | .01 | | | | | | | | | |
| 89.28-92.28 | 8582A | 3.0 | .05 | 3.5 | .01 | .01 | | | | | | | | | |
| 92.28-95.28 | 8583A | 3.0 | .05 | 5.0 | .03 | .04 | | | | | | | | | |
| 95.28-98.28 | 8584A | 3.0 | .10 | 7.0 | .02 | .02 | | | | | | | | | |
| 98.28-101.28 | 8585A | 3.0 | .20 | 14.0 | .12 | .05 | | | | | | | | | |
| 101.28-104.28 | 8586A | 3.0 | .05 | 4.5 | .01 | .02 | | | | | | | | | |
| 104.28-107.28 | 8587A | 3.0 | .05 | 5.5 | .01 | .13 | | | | | | | | | |
| 107.28-110.28 | 8588A | 3.0 | .05 | 2.0 | .01 | .14 | | | | | | | | | |
| 110.28-113.28 | 8589A | 3.0 | .05 | 3.5 | .01 | .11 | | | | | | | | | |
| 113.28-116.28 | 8590A | 3.0 | .05 | 3.5 | .01 | .10 | | | | | | | | | |
| 116.28-119.28 | 8591A | 3.0 | .05 | 5.5 | .04 | .14 | | | | | | | | | |
| 119.28-122.28 | 8592A | 3.0 | .15 | 7.5 | .03 | .16 | | | | | | | | | |
| 122.28-125.28 | 8593A | 3.0 | .05 | 3.5 | .01 | .06 | | | | | | | | | |
| 125.28-128.28 | 8594A | 3.0 | .05 | 2.5 | .01 | .01 | | | | | | | | | |
| 128.28-131.28 | 8595A | 3.0 | .05 | 2.5 | .02 | .01 | | | | | | | | | |
| 131.28-134.2 | 8596A | 3.0 | .05 | .5 | .01 | .01 | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: Capoose | Project No. | Depth | Date Began
Hole No.: D-11-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 2 of 2 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE Meters | NUMBER | WIDTH M | Au. | Ag. | Cu. Pb. | Zn. | | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 134.28-137.28 | 8597A | 3.0 | .05 | 1.5 | .01 | .05 | | | | | | | | | | | | | | |
| 137.28-140.28 | 8598A | 3.0 | .05 | .5 | .01 | .05 | | | | | | | | | | | | | | |
| 140.28-143.28 | 8599A | 3.0 | .05 | 1.5 | .01 | .10 | | | | | | | | | | | | | | |
| 143.28-146.28 | 8600A | 3.0 | .05 | .5 | .01 | .01 | | | | | | | | | | | | | | |
| 146.28-149.28 | 8601A | 3.0 | .05 | 2.5 | .01 | .03 | | | | | | | | | | | | | | |
| 149.28-152.28 | 8602A | 3.0 | .05 | .5 | .01 | .05 | | | | | | | | | | | | | | |
| 152.28-155.28 | 8603A | 3.0 | .05 | .5 | .01 | .06 | | | | | | | | | | | | | | |
| 155.28-158.28 | 8604A | 3.0 | .05 | 1.5 | .01 | .03 | | | | | | | | | | | | | | |
| 158.28-161.28 | 8605A | 3.0 | .05 | 2.0 | .01 | .01 | | | | | | | | | | | | | | |
| 161.28-167.28 | 8606A | 3.0 | .05 | .5 | .01 | .02 | | | | | | | | | | | | | | |
| 167.28-170.28 | 8607A | 3.0 | .05 | 2.5 | .01 | .07 | | | | | | | | | | | | | | |
| 170.28-173.28 | 8608A | 3.0 | .05 | .5 | .01 | .06 | | | | | | | | | | | | | | |
| 173.28-176.28 | 8609A | 3.0 | .05 | .5 | .01 | .04 | | | | | | | | | | | | | | |
| 176.28-179.28 | 8610A | 3.0 | .05 | .5 | .01 | .06 | | | | | | | | | | | | | | |
| 179.28-182.28 | 8611A | 3.0 | .15 | 3.5 | .01 | .06 | | | | | | | | | | | | | | |
| 182.28-185.28 | 8612A | 3.0 | .05 | 2.5 | .01 | .03 | | | | | | | | | | | | | | |
| 185.28-189.00 | 8613A | 2.72 | .05 | 3.0 | .01 | .02 | | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: Capoose | Project No.: 70113 | Depth: 667' (203.25 m) | Date Began: June 30, 1980
Hole No.: D 11-80 | Co ord.: | Horizontal Length: 467.48' (142.48m) | Date Completed: July 3, 1980
Sheet No.: 1 of 4 | Direction: | Drilled By: D. W. Coates
Claim No.: | Elevation: | Angle: | Logged By: W.E. Lumley

| ~~FOOTAGE~~ meters | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0- 4.88 | Casing | | | | | | | | | | | |
| 4.88-50.76 | Andesitic (?) breccia - black to very dark grey fine grained siliceous and cherty highly fractured locally sheared and vuggy mineralized with garnets, pyrite and minor sulphides with predominant sulphide pyrite 1-2% to maximum of 5%. Section cut by numerous pyrite filled fractures and medium to light grey bands approximately 6 m in width consisting of coarser grains. Upper section is also cut by calcite filled fractires at 30° to core. Some broken core & gouge, overall section quite uniform. | | | | | | | | | | | |
| 4.88-11.28 | Broken core with leached section between 10.95-11.22 m with bottom contact in gouge. | | | | | | | | | | | |
| 11.28-17.62 | Section relatively competent but cut by numerous fractures filled with calcite and pyrite. Some s lickensides on fracture faces including shearing. Overall section very siliceous & cherty. | | | | | | | | | | | |
| 17.62-50.76 | Quite uniform section with some broken core and gouge is as described in general description. | | | | | | | | | | | |
| 17.62-18.02 | Coarse ground section cut by pyrite bands at 15° to core. | | | | | | | | | | | |
| 18.63-19.04 | Broken core. | | | | | | | | | | | |
| 22.56-24.73 | Broken core with 3 cm gouge at 23.32. | | | | | | | | | | | |
| 32.01 | 3 cm of gouge at 30° to core axis. | | | | | | | | | | | |
| 32.68 | Shear zone at 40° to core axis. | | | | | | | | | | | |
| 33.53-33.69 | Broken core with 3 cm of gouge at 33.69 | | | | | | | | | | | |
| 35.37 | 4 cm of gouge. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: Capoose | Project No. | Depth | Date Began
Hole No.: D-11-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 2 of 4 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| ~~XXXXXX~~ meters | DESCRIPTION | | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 35.85 | Brecciated vein at 10° to core axis. Hematite with garnet. | | | | | | | | | | | |
| | 38.72-39.09 | Broken core. | | | | | | | | | | | |
| | 43.29-44.90 | Section light grey in colour, hematitic with fracturing at 20° to core axis. | | | | | | | | | | | |
| 50.76-107.16 | | Ore zone - light grey coarse grained rhyolitic tuff locally hematitic and brecciated. Very uniform and consistant vug ore zones in D-4. | | | | | | | | | | | |
| | 50.76-53.05 | Brecciated section with clasts of tuff healed by quartz. | | | | | | | | | | | |
| | 53.05-53.50 | Hematitic zone leached and full of vugs remnants of pyrite. | | | | | | | | | | | |
| | 54.09-54.27 | Hematitic zone leached, well defined evidence of solutions moving through fractures here. | | | | | | | | | | | |
| | 54.27 | Fractures at 30° to core. | | | | | | | | | | | |
| | 55.52-55.91 | Hematitic zone. | | | | | | | | | | | |
| | 57.07-57.16 | Highly fractured zone rich in hematite. Fractures run at 20° to 40° to core. | | | | | | | | | | | |
| | 63.05 | 2 cm brecciated leached white. | | | | | | | | | | | |
| | 64.02-64.51 | Broken core - sheared zone at 40° to core. | | | | | | | | | | | |
| | 65.24-67.44 | Fractures parallel to core not mineralized; hematite filled. | | | | | | | | | | | |
| | 72.10-72.26 | Hematite stained area - similar to 57.07-57.16. | | | | | | | | | | | |
| | ~~73.23-73.78~~ | ~~Hematite stained area.~~ | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: Capoose | Project No. | Depth | Date Began
Hole No.: D 11-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 3 of 4 | | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 75.30- 81.40 High grade section fractures all display. Hematitic alteration to 3 cm from fracture. Mineralization is in the form of vugs and laminations at 70° to core axis. | | | | | | | | | | | |
| | 81. 4- 81.55 Brecciated sheared zone - broken core. | | | | | | | | | | | |
| | 84.63 Brecciated fracture 3 cm in width at 40° to core. | | | | | | | | | | | |
| | 88.57-93.60 Highly brecciated zone, some lost core and broken core. | | | | | | | | | | | |
| | 89.63- 87.83 Gouge - light green grey. | | | | | | | | | | | |
| | 91.77- 92.9 Lost core. | | | | | | | | | | | |
| | 99.24 6 cm wide fracture at 40° to core axis. | | | | | | | | | | | |
| | 102.13-103.35 Hematite fracture at 5° to core. | | | | | | | | | | | |
| 107.16-189.02 | Andesite breccia - dark grey in colour siliceous with perasive pyrite. Section characterized by large fragments up to 20 cm in length in a matrix of tuffaceous material. Sections cut by numerous pyrite and arsenopyrite filled fractures and vugs but very few sections were seen containing sulphides. this section is very uniform with few variations, with some sections more or less brecciated and more compact. | | | | | | | | | | | |
| | 114.09-115.43 Fracture running parallel to core. | | | | | | | | | | | |
| | 116.19-116.59 Hematite zone with some minor broken core. | | | | | | | | | | | |
| | 125.73-126.19 Section vuggy mineralized with pyrite. Minor galena and sphalerite. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH - D - 11 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 4 of 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 131.10-131.40 Broken core; some gouge | | | | | | | | | | | |
| | 137.32-159.73 More competent section - andesite tuff. Dark grey in colour with no breccia in evidence. | | | | | | | | | | | |
| | 138.29-138.41 Broken core | | | | | | | | | | | |
| | 139.45-139.66 Broken core | | | | | | | | | | | |
| | 141.46 2 cm. wide fracture at 15° to core. Mineralized with galena, sphalerite and pyrite | | | | | | | | | | | |
| | 150.58-151.52 Hematitic broken core | | | | | | | | | | | |
| | 154.88 Fracture at 25° to core | | | | | | | | | | | |
| | 159.39-159.73 Very black fine grained section rich in pyrite; very siliceous and cherty | | | | | | | | | | | |
| | 159.73-189.02 As described in the general description; this secion is more brecciated than above. Very uniform with few variations | | | | | | | | | | | |
| | 169.79 Fracture at 30° to core; hematitic | | | | | | | | | | | |
| | 174.05 Fracture at 45° to the core | | | | | | | | | | | |
| | 183.23-184.21 Competent andesite tuff unit; lower contact at 20° to core | | | | | | | | | | | |
| | 185.67-189.02 Highly fractured section; mostly broken core | | | | | | | | | | | |
| 189.02-203.35 | Regional Rhyolite Dyke- same unit as intersected in D-3, D-10 for a description see their logs | | | | | | | | | | | |
| | END OF HOLE - ABANDONDED DUE TO STICKING OF RODS | | | | | | | | | | | |
| | ACID TEST: 457' (139.29 M.) = APP: 52.0 TRUE: 43.0 | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

| | | | | | |
|---|---|---|---|---|---|
| Property | CAPOOSE | Project No. | 70113 | Depth | 275'(83.82M) |
| Date Began | JULY 3, 1980. | | | | |
| Hole No. | DDH-D-12-80 | Co ord. | 7+40W | Horizontal Length | 218'(64.21M) |
| Date Completed | JULY 4, 1980. | | | | |
| Sheet No. | 1 OF 2 | | 4+04S | Direction | 270° |
| Drilled By | D. W. COATES | | | | |
| Claim No. | | Elevation | 1845M | Angle | -50° |
| Logged By | W. E. LUMLEY | | | | |

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | % REC'Y CALC'D. |
|---|---|---|---|---|
| 0.00- 4.88 | CASING | | | |
| 4.88- 83.82 | High grade rhyolitic tuff & breccia. Almost all core fractured with large amount of broken core & gouge. | | | |
| | Where section is not fractured & broken, rocks are similar to ore zone in DDH-D-1, 5. Vuggy leached sections with numerous rimmed garnets rich in sulphides. | | | |
| | Gouge sections usually dark green in colour and are high grade in sphalerite & galena. | | | |
| | * DDH is assumed to have wandered into a fault plane. * | | | |
| | 4.88-6.37 leached zone - white in colour. | | | |
| | 6.37-8.23 lost core | | | |
| | 8.23- 30.18 broken core poor recovery mostly marble size pieces & small chunks. | | | |
| | 30.18 - 36.85 recovery better-section vuggy with some sulphides sph, gal. | | | |
| | 36.85 - 39.65 gouge-upper contact 65° to core axis. It is white in colour on the top of the section grading to a very dark green sulphide rich lower section. | | | |
| | 39.65 - 42.06 broken core | | | |
| | 42.06 - 42.70 solid light green pyrite rich gouge. | | | |
| | 43.04 - 43.65 as above 42.06 - 42.70. | | | |
| | 45.42 - 54.32 dark green to black high grade gouge locally very rich in sphalerite & galena. | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 275' (83.82M) | Date Began: JULY 3, 1980
Hole No.: DDH-D-12-80 | Co ord.: | Horizontal Length: 210' (64.21M) | Date Completed: JULY 4, 1980
Sheet No.: 2 OF 2 | Direction: 270 | Drilled By: D.W. COATES
Claim No.: | Elevation: | Angle: -50 | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55.20-55.87 | Gouge - light green in colour | | | | | | | | | | | |
| 55.87-67.36 | Rock brecciated with clasts cemented by white gouge. Some pyrite & minor sulphides. | | | | | | | | | | | |
| 67.36-68.82 | Dark grey green gouge - high grade in sphalerite. | | | | | | | | | | | |
| 68.82-68.88 | Broken core. | | | | | | | | | | | |
| 68.88-69.98 | Brecciated rock cemented with white gouge. | | | | | | | | | | | |
| 69.98-70.10 | White gouge. | | | | | | | | | | | |
| 70.10-74.07 | Broken core. | | | | | | | | | | | |
| 74.07-77.69 | Broken core cemented with white gouge. | | | | | | | | | | | |
| 77.69-80.53 | Dark grey green high grade gouge lower contact at 60° to core axis. | | | | | | | | | | | |
| 81.69-83.82 | Light green grey gouge. | | | | | | | | | | | |
| | Hole abandoned due to loss of water and numerous amount of lost and borken core and gouge. | | | | | | | | | | | |
| | Tried for test, but could not get rods down hole caved while changing bit. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 275' (83.84M) | Date Began: JULY 3, 1980
Hole No.: DDN-D-12-80 | Co ord.: 7+40W | Horizontal Length: 210 (64.21M) | Date Completed: JULY 4, 1980
Sheet No.: 1 OF 1 | 4+04S | Direction: 270° | Drilled By: D. W. COATES
Claim No.: | Elevation: 1845 | Angle: -50° | Logged By: W. E. LUMLEY

| FOOTAGE | NUMBER | WIDTH | Au. | Ag. | Cu. | Zn. | | WIDTH X ASSAY | AVERAGES WIDTH | AVERAGES Au. | AVERAGES Ag. | AVERAGES Cu. | AVERAGES Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0- 4.9 | waste | 4.90 | | | | | | | | | | | | | |
| 4.9- 6.4 | 8614 | 1.50 | .05 | 9.5 | .01 | .02 | | | | | | | | | |
| 6.4- 8.23 | waste | 1.83 | | | | | | | | | | | | | |
| 8.23-11.28 | 8615 | 3.05 | .05 | 8.5 | .01 | .05 | | | | | | | | | |
| 11.28-14.32 | waste | 3.04 | | | | | | | | | | | | | |
| 14.32-17.37 | 8616 | 3.05 | .05 | 3.5 | .02 | .03 | | | | | | | | | |
| 17.37-20.43 | 8617 | 3.05 | .05 | 3.0 | .02 | .01 | | | | | | | | | |
| 20.43-25.60 | 8618 | 5.17 | .10 | 4.5 | .06 | .02 | | | | | | | | | |
| 25.60-28.65 | 8619 | 3.05 | .05 | 10.0 | .02 | .22 | | | | | | | | | |
| 28.65-31.70 | 8620 | 3.05 | .05 | 16.0 | .04 | .25 | | | | | | | | | |
| 31.70-34.75 | 8621 | 3.05 | .05 | 47.5 | .01 | .03 | | | | | | | | | |
| 34.75-36.86 | 8622 | 2.11 | .05 | 97.5 | .02 | .05 | | | | | | | | | |
| 36.86-39.66 | 8623 | 2.80 | .15 | 15.5 | .04 | .39 | | | | | | | | | |
| 39.66-42.07 | 8624 | 2.41 | .05 | 11.5 | .02 | .06 | | | | | | | | | |
| 42.07-43.66 | 8625 | 1.59 | .15 | 20.0 | .01 | .19 | | | | | | | | | |
| 43.66-46.61 | 8626 | 3.05 | .05 | 3.5 | .01 | .06 | | | | | | | | | |
| 46.61-49.76 | 8627 | 3.05 | .60 | 5.0 | .01 | .45 | | | | | | | | | |
| 49.76-52.81 | 8628 | 3.05 | .15 | 6.0 | .01 | .46 | | | | | | | | | |
| 52.82-54.33 | 8629 | 4.51 | .05 | 8.0 | .01 | .39 | | | | | | | | | |
| 54.33-58.84 | 8630 | 3.05 | .05 | 6.0 | .01 | .35 | | | | | | | | | |
| 58.84-61.89 | 8631 | 3.05 | .05 | 15.0 | .01 | .04 | | | | | | | | | |
| 61.89-64.94 | 8632 | 3.05 | .05 | 3.5 | .01 | .03 | | | | | | | | | |
| 64.94-67.37 | 8633 | 2.42 | .05 | 7.5 | .01 | .07 | | | | | | | | | |
| 67.37-68.84 | 8634 | 1.47 | .10 | 10.5 | .01 | .02 | | | | | | | | | |
| 68.84-71.90 | 8635 | 3.05 | .05 | 11.0 | .01 | .01 | | | | | | | | | |
| 71.90-74.95 | 8636 | 3.05 | .05 | 14.0 | .01 | .01 | | | | | | | | | |
| 74.95-77.71 | 8637 | 2.76 | .05 | 7.0 | .02 | .04 | | | | | | | | | |
| 77.71-80.55 | 8638 | 2.84 | .05 | 9.5 | .02 | .34 | | | | | | | | | |
| 80.55-81.77 | 8639 | 1.15 | .05 | 6.0 | .01 | .38 | | | | | | | | | |
| 81.77-83.84 | 8640 | 2.14 | .05 | 9.5 | .01 | .36 | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 873' (266.05M) | Date Began: JULY 5, 1980
Hole No.: DDH-D-13-80 | Co ord.: 6+36W | Horizontal Length: 561.15 (177.03M) | Date Completed: JULY 13, 1980
Sheet No.: 1 OF 4 | 4+89S | Direction: 270° | Drilled By: D.W. COATES
Claim No.: | Elevation: 1819M | Angle: -50° | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | % REC'Y CALC'D. |
|---|---|---|---|---|
| 0 2.74 | CASING | | | |
| 2.74-19.20 | Black to dark grey siliceous andesite. Very hard, fine grained locally pyrite rich. Pyrite disseminated throughout interstitial to the rock & filling fractures. Fracturing generally between 15-60° to core axis. | | | |
| | 2.74-10.06 Broken core. | | | |
| | 10.06-13.41 competent, but highly fractured at 60-90° to core axis. | | | |
| | 13.56-13.87 broken core. | | | |
| | 13.99 pyrite filled fracture at 45° to core axis-1.5cm wide. | | | |
| | 14.93 fracture-hematite & pyrite filled at 40° to core axis. | | | |
| | 18.01 Vuggy pyrite filled fracture at 60° to core axis. | | | |
| 19.20-50.90 | Light grey rhyolite breccia-characterized by clasts up to 3cm in diameter. Very uniform throughout-some blebs & whisps of sulphides present, but overall low grade. Small sections of fault gouge usually light green in colour are seen in addition to small sections of broken core. | | | |
| | 21.94-24.99 Lost core. | | | |
| | 24.99-36.27 Zone characterized by numerous blebs & whisps of sphalerite potentially high grade. | | | |
| | 37.25 fracturing at 40° to core. | | | |
| | 37.64 blebs of sulphides 1cm in diameter-galena, sphalerite. | | | |
| | 41.60 as above 3cm in diameter. | | | |
| | 42.30-42.51 gouge-light green in colour. | | | |
| | 44.04-47.67 broken core-poor recovery. | | | |
| | 48.03 sulphide rich fracture at 40° to core axis. | | | |
| | 48.28 fracture at 30° to core axis. | | | |
| | 50.29-50.90 broken core. | | | |
| 50.90-92.75 | Hard competent rhyolite tuff locally sheared & brecciated cut by several small sections of gouge. Mineralization is weak with sphalerite being the predominant sulphide. The unit is cut by several high grade fractures, but grade is overall quite low. | | | |
| | 50.90-54.55 broken core. | | | |
| | 56.35-56.51 chalky fault gouge | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-13-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 2 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 57.91 3cm wide zone rich in sulphide. | | | | | | | | | | | |
| | 58.27 4cm wide fault zone with Breccia fragments, cemented by gouge. | | | | | | | | | | | |
| | 60.04-62.17 section becoming quite leached. | | | | | | | | | | | |
| | 62.17-73.76 section characterized by extreme leaching & hematitic alteration possibly connected to large fault zone in lower part of section. | | | | | | | | | | | |
| | 62.17-62.54) | | | | | | | | | | | |
| | 63.09-63.18) | | | | | | | | | | | |
| | 64.00-64.64) leached hematitic zones. | | | | | | | | | | | |
| | 65.22-65.93) | | | | | | | | | | | |
| | 70.10-72.23 high grade section large amount of sphalerite in fault gouge which is parallel to core. | | | | | | | | | | | |
| | 75.28-75.62 light grey fault gouge. | | | | | | | | | | | |
| | 78.33-79.15 vuggy hematitic fracture parallel to core- 1cm thick filled with gouge. | | | | | | | | | | | |
| | 79.15-88.08 brecciated section with large amount of broken core. Section cut by vuggy hematite filled fractures. | | | | | | | | | | | |
| | 85.40-88.08 broken core. | | | | | | | | | | | |
| | 88.09-92.65 section gradually becoming lighter in colour. | | | | | | | | | | | |
| 92.75-100.70 | Quartz healed Breccia-unit very siliceous characterized by angular clasts of dark grey cherty rhyolite up to 4cm in diameter cemented by a dirty quartz matrix. Large amount of broken core. Erratics of this rock have been seen near percussion hole P-34 in Zone 3. | | | | | | | | | | | |
| | 99.36-100.70 Broken core. | | | | | | | | | | | |
| 100.70-266.08 | Medium to dark grey siliceous rhyolite breccia characterized by very large cherty rhyolite fragments in an aphanitic matrix. The unit is locally well mineralized with blebs & whisps of sphalerite, but overall grade is low. There are several high grade fractures at 60° - 90° to the core, but most of the fractures occur at low angles (5°-30° to core) resulting in a large amount of broken core. Unit is quite uniform in composition & structure. Pyrite is predominant-sulphide followed by sphalerite. | | | | | | | | | | | |
| | 101.19-108.50 Broken core. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-13-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 3 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 110.09 pyrite filled fracture at 65° to core. | | | | | | | | | | | |
| | 110.91 .6cm wide pyrite filled fracture at 45° to core. | | | | | | | | | | | |
| | 113.08-154.22 broken core. | | | | | | | | | | | |
| | 154.22-158.21 dark green grey rhyolite breccia. | | | | | | | | | | | |
| | 157.57 shear zone chlorite slickensides at 35° to core. | | | | | | | | | | | |
| | 159.40-162.45 broken core | | | | | | | | | | | |
| | 162.48 blebs of pyrite 2cm in length. | | | | | | | | | | | |
| | 166.72-166.87 fault breccia zone-fragment cemented by gouge. | | | | | | | | | | | |
| | 167.00 as above 2cm wide at 20° to core axis. | | | | | | | | | | | |
| | 168.85-172.26 highly fractured section rich in pyrite & sphalerite. | | | | | | | | | | | |
| | 170.86 brecciated section at 20° to core. | | | | | | | | | | | |
| | 173.67 6cm wide brecciated zone rich in sulphides. | | | | | | | | | | | |
| | 174.40 pyrite rich band 3cm in width. | | | | | | | | | | | |
| | 178.85-179.52 broken core | | | | | | | | | | | |
| | 183.51-186.80 highly fractured section. Broken core with gouge from 183.79-184.79. | | | | | | | | | | | |
| | 190.80-191.37 broken core. | | | | | | | | | | | |
| | 191.74-198.11 broken core. Lost core 193-54-194.76. | | | | | | | | | | | |
| | 195.00(?) dark green gouge. | | | | | | | | | | | |
| | 200.94 high grade fracture at 90° to core 3cm wide. | | | | | | | | | | | |
| | 202.99 pyrite rich section 3-5% | | | | | | | | | | | |
| | 203.29-203.60 sulphide rich section-garnet sphalerite & pyrite | | | | | | | | | | | |
| | 205.12-210.00 shear zone slickenside 10-60° to core. some mineralization in small pod. | | | | | | | | | | | |
| | 210.09 high grade pod 3cm wide galena & sphalerite. | | | | | | | | | | | |
| | 210.42 fracture at 5° to core. | | | | | | | | | | | |
| | 211.09 3cm wide high grade fracture at 60° to core. massive galena, sphalerite, pyrite & garnets. | | | | | | | | | | | |
| | 211.09-211.58 shear zone chlorite slickensides at 0° to core. | | | | | | | | | | | |
| | 212.77-213.35 gouge | | | | | | | | | | | |
| | 216.78-223.10 fine grained cherty rhyolite breccia rich in "blackjack" sphalerite. | | | | | | | | | | | |
| | 219.84 3cm wide sphalerite & pyrite rich pod. | | | | | | | | | | | |
| | 223.10-224.29 white fault gouge. | | | | | | | | | | | |
| | 224.29-225.57 well developed rhyolite breccia. | | | | | | | | | | | |
| | 225.57-226.76 very poor recovery-.6m | | | | | | | | | | | |
| | 226.76-227.31 broken core | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-13-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 4 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 227.31-227.98 Gouge - pea green in colour at top. | | | | | | | | | | | |
| | grading to purple at bottom. | | | | | | | | | | | |
| | 227.98-230.12 broken core. | | | | | | | | | | | |
| | 231.64-232.86 broken core. | | | | | | | | | | | |
| | 232.86-238.04 competent section rhyolite breccia, | | | | | | | | | | | |
| | fractured at 20° to core. | | | | | | | | | | | |
| | 234.91 4.5cm wide bleb of sphalerite, galena & pyrite. | | | | | | | | | | | |
| | 236.13 2cm wide gouge filled fracture at 60° to core. | | | | | | | | | | | |
| | 238.1-238.65 broken core. | | | | | | | | | | | |
| | 238.65-266.08 mineralization decreasing-unit uniform | | | | | | | | | | | |
| | 245.05) | | | | | | | | | | | |
| | 248.22) 1cm quartz filled fracture. | | | | | | | | | | | |
| | 257.54-266.08 broken core-poor recovery | | | | | | | | | | | |
| | 261.51 gouge filled fracture 1cm wide parallel to core. | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 873' (266.05M) | Date Began: JULY 5, 1980.

Hole No.: DDH-D-13_80 | Co ord.: 6+36W | Horizontal Length: 561.15(171.03M) | Date Completed: JULY 13, 1980.

Sheet No.: 1 OF 3 | 4+89S | Direction: 270 | Drilled By: D. W. COATES

Claim No.: | Elevation: 1819 | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. g/t | Ag. g/t | ~~%~~ Pb | Zn. | Cu | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00- 10.05 | NO SAMPLE | | | | | | | | | | | | | | | | | | | |
| 10.05- 13.10 | 8641 | 3.05 | .10 | 3.0 | .01 | .30 | | | | | | | | | | | | | | |
| 13.10- 16.15 | 8642 | 3.05 | .10 | 3.0 | .02 | .95 | | | | | | | | | | | | | | |
| 16.15- 19.21 | 8643 | 3.05 | .10 | 1.5 | .01 | .22 | | | | | | | | | | | | | | |
| 19.21- 21.94 | 8644 | 2.73 | .10 | 8.0 | .01 | .22 | | | | | | | | | | | | | | |
| 21.94- 24.99 | NO CORE | 3.05 | - | - | - | - | | | | | | | | | | | | | | |
| 24.99- 28.04 | 8645 | 3.05 | .70 | 39.5 | .08 | .39 | | | | | | | | | | | | | | |
| 28.04- 31.09 | 8646 | 3.05 | .50 | 21.0 | .03 | .30 | | | | | | | | | | | | | | |
| 31.09- 33.83 | 8647 | 2.74 | .30 | 17.0 | .09 | .46 | | | | | | | | | | | | | | |
| 33.83- 36.27 | 8648 | 2.44 | .05 | 14.0 | .01 | .96 | | | | | | | | | | | | | | |
| 36.27- 39.32 | 8649 | 3.05 | .10 | 6.0 | .01 | .33 | | | | | | | | | | | | | | |
| 39.32- 42.37 | 8650 | 3.05 | .05 | 2.0 | .01 | .50 | | | | | | | | | | | | | | |
| 42.37- 43.37 | 8651 | 1M | .10 | 2.5 | .01 | .36 | | | | | | | | | | | | | | |
| 43.37- 43.98 | 8652 | .6 | .20 | 3.5 | .01 | .07 | | | | | | | | | | | | | | |
| 43.98- 47.55 | 8653 | 3.57 | .10 | 3.0 | .01 | .24 | | | | | | | | | | | | | | |
| 47.55- 49.98 | 8654 | 2.43 | .15 | 4.0 | .01 | .94 | | | | | | | | | | | | | | |
| 49.98- 53.03 | 8655 | 3.05 | .20 | 6.5 | .01 | .66 | | | | | | | | | | | | | | |
| 53.03- 56.08 | 8656 | 3.05 | .05 | 5.0 | .01 | .48 | | | | | | | | | | | | | | |
| 56.08- 59.13 | 8657 | 3.05 | .15 | 4.0 | .01 | .35 | | | | | | | | | | | | | | |
| 59.13- 62.18 | 8658 | 3.05 | .05 | 6.5 | .01 | .45 | | | | | | | | | | | | | | |
| 62.18- 65.22 | 8659 | 3.04 | .05 | 4.5 | .01 | .39 | | | | | | | | | | | | | | |
| 65.22- 68.27 | 8660 | 3.05 | .10 | 8.5 | .01 | .23 | | | | | | | | | | | | | | |
| 68.27- 70.10 | 8661 | 1.83 | .10 | 7.0 | .02 | .28 | | | | | | | | | | | | | | |
| 70.10- 72.23 | 8662 | 2.13 | .05 | 10.0 | .01 | 1.64 | | | | | | | | | | | | | | |
| 72.23- 75.28 | 8663 | 3.05 | .05 | 4.0 | .01 | .31 | | | | | | | | | | | | | | |
| 75.28- 78.33 | 8664 | 3.05 | .05 | 5.0 | .01 | .21 | | | | | | | | | | | | | | |
| 78.33- 81.38 | 8665 | 3.05 | .20 | 12.0 | .01 | .12 | | | | | | | | | | | | | | |
| 81.38- 84.43 | 8666 | 3.05 | .10 | 6.5 | .01 | .05 | | | | | | | | | | | | | | |
| 84.43- 87.47 | 8667 | 3.04 | .05 | 6.0 | .03 | .28 | | | | | | | | | | | | | | |
| 87.47- 90.52 | 8668 | 3.05 | .10 | 3.5 | .01 | .54 | | | | | | | | | | | | | | |
| 90.52- 93.57 | 8669 | 3.05 | .05 | 1.5 | .01 | .47 | | | | | | | | | | | | | | |
| 93.57- 96.62 | 8670 | 3.05 | .05 | 1.0 | .01 | .31 | | | | | | | | | | | | | | |
| 96.62- 99.67 | 8671 | 3.05 | .05 | 1.0 | .01 | .14 | | | | | | | | | | | | | | |
| 99.67-102.71 | 8672 | 3.04 | .05 | 1.5 | .01 | .21 | | | | | | | | | | | | | | |
| 102.71-105.76 | 8673 | 3.05 | .25 | 3.0 | .01 | .13 | | | | | | | | | | | | | | |
| 105.76-108.81 | 8674 | 3.05 | .90 | 13.5 | .01 | .09 | | | | | | | | | | | | | | |
| 108.81-111.86 | 8675 | 3.05 | .55 | 14.0 | .10 | .24 | | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 873'(266.05M) | Date Began: JULY 5, 1980

Hole No.: DDH-D-13-80 | Co ord. | Horizontal Length: 561.15(171.03M) | Date Completed: JULY 13, 1980

Sheet No.: 2 of 3 | Direction: 270 | Drilled By: D.W. COATES

Claim No. | Elevation | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. g/t | Ag. g/t | ~~xxx~~ Pb | Zn. | Cu. | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 111.86-114.91 | 8676 | 3.05 | .15 | 3.0 | .01 | .42 | | | | | | | | | | | | | | |
| 114.91-117.95 | 8677 | 3.04 | .15 | 5.5 | .01 | .68 | | | | | | | | | | | | | | |
| 117.95-121.00 | 8678 | 3.05 | .25 | 6.0 | .06 | .28 | | | | | | | | | | | | | | |
| 121.00-124.05 | 8679 | 3.05 | .20 | 9.5 | .08 | .52 | | | | | | | | | | | | | | |
| 124.05-127.10 | 8680 | 3.05 | .10 | 4.5 | .06 | .66 | | | | | | | | | | | | | | |
| 127.10-130.15 | 8681 | 3.05 | .05 | 3.5 | .02 | .36 | | | | | | | | | | | | | | |
| 130.15-133.20 | 8682 | 3.05 | .05 | 7.0 | .02 | .25 | | | | | | | | | | | | | | |
| 133.20-136.25 | 8683 | 3.05 | .05 | 5.0 | .03 | .16 | | | | | | | | | | | | | | |
| 136.25-139.29 | 8684 | 3.04 | .05 | 2.5 | .01 | .23 | | | | | | | | | | | | | | |
| 139.29-142.33 | 8685 | 3.04 | .05 | 5.5 | .02 | .28 | | | | | | | | | | | | | | |
| 142.33-146.14 | 8686 | 3.81 | .05 | 4.0 | .03 | .23 | | | | | | | | | | | | | | |
| 146.14-148.43 | 8687 | 2.29 | .05 | 15.5 | .14 | .44 | | | | | | | | | | | | | | |
| 148.43-151.48 | 8688 | 3.05 | .05 | 4.5 | .02 | .06 | | | | | | | | | | | | | | |
| 151.48-154.53 | 8689 | 3.05 | .10 | 4.0 | .03 | .05 | | | | | | | | | | | | | | |
| 154.53-157.58 | 8690 | 3.05 | .05 | 1.0 | .01 | .01 | | | | | | | | | | | | | | |
| 157.58-160.63 | 8691 | 3.05 | .05 | 2.0 | .01 | .02 | | | | | | | | | | | | | | |
| 160.63-163.68 | 8692 | 3.05 | .10 | 2.5 | .04 | .03 | | | | | | | | | | | | | | |
| 163.68-166.73 | 8693 | 3.05 | .05 | 4.0 | .05 | .06 | | | | | | | | | | | | | | |
| 166.73-169.98 | 8694 | 3.05 | .10 | 4.5 | .04 | .08 | | | | | | | | | | | | | | |
| 169.78-172.83 | 8695 | 3.05 | .15 | 10.0 | .05 | .36 | | | | | | | | | | | | | | |
| 172.83-175.87 | 3696 | 3.04 | .30 | 24.0 | .09 | .32 | | | | | | | | | | | | | | |
| 175.87-178.91 | 8697 | 3.04 | .10 | 8.5 | .05 | .20 | | | | | | | | | | | | | | |
| 178.91-181.96 | 8698 | 3.05 | .05 | 3.5 | .02 | .05 | | | | | | | | | | | | | | |
| 181.96-185.00 | 8699 | 3.04 | .10 | 8.5 | .06 | .15 | | | | | | | | | | | | | | |
| 185.00-188.05 | 8700 | 3.05 | .05 | 4.0 | .02 | .08 | | | | | | | | | | | | | | |
| 188.05-191.10 | 8701 | 3.05 | .10 | 5.0 | .02 | .05 | | | | | | | | | | | | | | |
| 191.10-194.76 | 8702 | 3.66 | .55 | 24.0 | .05 | .09 | | | | | | | | | | | | | | |
| 194.76-197.20 | 8703 | 2.44 | .45 | 28.0 | .02 | .06 | | | | | | | | | | | | | | |
| 197.20-200.25 | 8704 | 3.05 | .25 | 17.0 | .02 | .11 | | | | | | | | | | | | | | |
| 200.25-203.30 | 8705 | 3.05 | .50 | 37.0 | .05 | .45 | | | | | | | | | | | | | | |
| 203.30-206.35 | 8706 | 3.05 | .20 | 30.0 | .04 | .11 | | | | | | | | | | | | | | |
| 206.35-209.38 | 8707 | 3.03 | .25 | 26.0 | .12 | .41 | | | | | | | | | | | | | | |
| 209.38-211.09 | 8708 | 1.71 | .25 | 28.0 | .16 | .33 | | | | | | | | | | | | | | |
| 211.09-211.15 | 8709 | .06 | 4.50 | 595.0 | 9.35 | 3.50 | | | | | | | | | | | | | | |
| 211.15-212.44 | 8710 | 1.29 | .35 | 64.0 | .78 | .34 | | | | | | | | | | | | | | |
| 212.44-215.49 | 8711 | 3.05 | .05 | 11.5 | .10 | .08 | | | | | | | | | | | | | | |
| 215.49-218.54 | 8712 | 3.05 | .05 | 6.5 | .04 | .03 | | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 873' (266.05M) | Date Began: JULY 5, 1980

Hole No.: DDH-D-13-80 | Co ord. | Horizontal Length: 561.5 (171.03M) | Date Completed: JULY 13, 1980

Sheet No.: 3 OF 3 | Direction: 270 | Drilled By: D.W. COATES

Claim No. | Elevation | Angle: -50 | Logged By: W.E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. g/t | Ag. g/t | ~~Cu.~~ pb | Zn. | Cu. | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 218.54-221.59 | 8713 | 3.05 | .10 | 8.5 | .02 | .02 | | | | | | | | | | | | | | |
| 221.59-223.10 | 8714 | 1.51 | .10 | 11.5 | .02 | .02 | | | | | | | | | | | | | | |
| 223.10-224.32 | NO SAMPLE | 1.22 | | | | | | | | | | | | | | | | | | |
| 224.32-227.37 | 8715 | 3.05 | .05 | 5.0 | .01 | .04 | | | | | | | | | | | | | | |
| 227.37-227.67 | NO CORE | .30 | | | | | | | | | | | | | | | | | | |
| 227.67-227.97 | 8716 | .300 | .05 | 10.5 | .32 | 1.72 | | | | | | | | | | | | | | |
| 227.97-230.72 | 8717 | 2.75 | .05 | 10.0 | .04 | .07 | | | | | | | | | | | | | | |
| 230.72-233.77 | 8718 | 3.05 | .05 | 7.0 | .03 | .18 | | | | | | | | | | | | | | |
| 233.77-236.82 | 8719 | 3.05 | .05 | 5.0 | .03 | .15 | | | | | | | | | | | | | | |
| 236.82-239.87 | 8720 | 3.05 | .05 | 6.5 | .04 | .09 | | | | | | | | | | | | | | |
| 239.87-242.91 | 8721 | 3.04 | .05 | 8.5 | .07 | .05 | | | | | | | | | | | | | | |
| 242.91-245.96 | 8722 | 3.05 | .05 | 6.5 | .04 | .09 | | | | | | | | | | | | | | |
| 245.96-249.01 | 8723 | 3.05 | .05 | 7.0 | .04 | .06 | | | | | | | | | | | | | | |
| 249.01-252.06 | 8724 | 3.05 | .05 | 5.0 | .03 | .07 | | | | | | | | | | | | | | |
| 252.06-255.10 | 8725 | 3.04 | .05 | 5.0 | .03 | .07 | | | | | | | | | | | | | | |
| 255.10-258.15 | 8726 | 3.05 | .05 | 3.5 | .01 | .08 | | | | | | | | | | | | | | |
| 258.15-261.21 | 8727 | 3.05 | .05 | 2.0 | .01 | .01 | | | | | | | | | | | | | | |
| 261.21-264.25 | 8728 | 3.05 | .05 | 1.5 | .01 | .07 | | | | | | | | | | | | | | |
| 264.25-266.08 | NO SAMPLE | 1.83 | - | - | - | - | | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 667' (203.30M) | Date Began: JULY 13, 1980
Hole No.: DDH-D-14-80 | Co ord.: 7+31W | Horizontal Length: 338' (101.65M) | Date Completed: JULY 16, 1980.
Sheet No.: 1 OF 4 | 6+24S | Direction: 270° | Drilled By: D. W. COATES
Claim No.: | Elevation: 1831M | Angle: -60° | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00- 7.92 | CASING | | | | | | | | | | | |
| 7.92- 19.88 | Light to dark grey rhyolite tuff medium grained mineralized with pyrite with minor garnets, galena & sphalerite usually in fractures & whisps at 30° to core axis similar to same core seen in other holes. Unit gradually darkens as it approaches next section and is cut by hematite filled fractures parallel to core. | | | | | | | | | | | |
| | 19.29 - 19.88 Brecciated section with fragments cemented by fault gauge. | | | | | | | | | | | |
| 19.88- 82.72 | Black to dark grey siliceous locally cherty andesite tuff unit rich in pervasive pyrite 1-3% locally as high as 10% occurring interstitially and in minute fractures at 20° to core axis. Upper section fractures headed with calcite ± pyrite with very little other sulphides noted. There appears to be a preserved lineation at 20° to core. Mineralization is pyrite with some garnet (spotty). | | | | | | | | | | | |
| | 19.88 - 22.30 Hard competent section somewhat coarser grained than units below. Possibly a transition zone. | | | | | | | | | | | |
| | 22.30 - 30.85 Section characterized by numerous calcite filled fractures from 0°-30° to core. | | | | | | | | | | | |
| | 30.85 - 40.50 Section characterized by numerous fractures filled with very light green clay - no calcite. | | | | | | | | | | | |
| | 41.93 - 42.80 Section cut by large amount of calcite fractures weakly mineralized with py, galena and sphalerite. | | | | | | | | | | | |
| | 41.93 - 42.30 Brecciated section with fragments cemented by calcite and sulphides. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth | Date Began
Hole No.: DDH-D-14-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 2 OF 4 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 42.54 & 42.57 .5cm wide calcite veins at 35° to core. | | | | | | | | | | | |
| | 43.60 - 44.05 Broken core fracturing at 40° to core. | | | | | | | | | | | |
| | 45.70 1 cm wide quartz filled fracture at 50° to core axis contains minor gal, sphalerite & pyrite. | | | | | | | | | | | |
| | 46.0 - 82.72 Noted decrease in calcite and silica and an increase in sulphides & garnets. Sulphides occurring as nuclei to garnets. Sulphides content increases with depth. | | | | | | | | | | | |
| | 52.80 - 53.05 Fracture at 15° to core. | | | | | | | | | | | |
| | 57.20 1 cm wide quartz filled fracture at 20° to core. | | | | | | | | | | | |
| | 58.15 1 cm wide quartz filled fracture at 10° to core. No mineralization. | | | | | | | | | | | |
| | 58.20 - 88.72 Section becoming more tuffaceous and speckled with pyrite & minor sulphides. | | | | | | | | | | | |
| | 61.65 - 65.15 Sulphide rich section peppered with garnets, containing sphalerite, pyrite and minor galena. | | | | | | | | | | | |
| | 65.15 1 cm wide qtz vein pyrite, galena, sphalerite. | | | | | | | | | | | |
| | 75.30 - 76.81 Epidotization: Zone of intense epidotization seen. | | | | | | | | | | | |
| 82.72- 93.57 | Fine to medium grained rhyolite tuff & breccia mineralized with garnets and sphalerite, galena & pyrite as replacements to the garnets. The mineralization occurs as minute blebs and fractures throughout the core. Mineralization is also seen aligning along flow banding with garnets & sulphides occurring at flexures in the flow banding. | | | | | | | | | | | |
| | 84.40 - 84.55 High grade fracture at 60° to core. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 667 | Date Began:
Hole No.: DDH-D-14-80 | Co ord. | Horizontal Length | Date Completed:
Sheet No.: 3. OF. 4. | Direction | Drilled By:
Claim No. | Elevation | Angle | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93.57-110.94 | White chalky Rhyolite dyke - regional in character logged in all holes to date. See logs for D-5, D-4, & D-1 for description. | | | | | | | | | | | |
| 110.94-148.70 | Siliceous medium grey rhyolite tuff unit with well preserved flow banding. Well mineralized throughout with garnets, pyrite, sphalerite and minor galena. Garnets give the unit a spotted effect along flow banding. Flow banding occurs at 30° to core axis. | | | | | | | | | | | |
| | 110.94 - 132.15 Very uniform section as described above with fractures at 125.50-125.28 parallel to core. | | | | | | | | | | | |
| | 132.15 - 140.20 Kaolinitization Section - Broken core locally well mineralized. Poor recovery. | | | | | | | | | | | |
| | 140.20 - 140.95 Competent Section | | | | | | | | | | | |
| | 140.95 - 142.83 Poor recovery broken core fracture parallel to core axis. | | | | | | | | | | | |
| | 142.83 - 148.70 Core becoming more silicious & darker in colour. | | | | | | | | | | | |
| 148.70-168.65 | Dark grey siliceous rhyolite breccia - fragments appear to be resorbed and edges fuzzy. More sulphides seen in this section. Unit is very uniform and cut by fractures at 35° to core axis. | | | | | | | | | | | |
| | 149.15 - 149.70 Highly fractured section with fractures cemented by green talc. | | | | | | | | | | | |
| | 154.16 .5 cm fracture of galena, sphalerite, & pyrite. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-14-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 4 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 168.65-203.30 | Fine grained rhyolite tuff same unit as seen in the lower part of DDH-D-10. Dark to light grey in colour mineralized with interstitial pyrite as blebs and filling fractures. Unit is very uniform throughout with local siliceous sections. Unit is slightly kaolinized, but it is not extensive. Additional mineralized zones occurs as fracture fillings mineralized with garnet, pyrite, galena and sphalerite. Unit appears to decrease in sulphides as the hole deepens. Fracturing occurs at 20-40° to core axis and is usually hematite or chlorite lined. | | | | | | | | | | | |
| | Acid Test 500' (152.39m) 59.5° | | | | | | | | | | | |
| | 654 (199.32m) 58.5° | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 677' (206.34M) | Date Began: JULY 13, 1980

Hole No.: DDH-D-14-80 | Co ord.: 7+31W | Horizontal Length: 338.5 (103.17M) | Date Completed: JULY 15, 1980

Sheet No.: 1 OF 2 | 6+24S | Direction: 270° | Drilled By: D. W. COATES

Claim No.: | Elevation: 1831 | Angle: -60° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 7.92 | NO SAMPLE CASING | | | | | | | | | | | | | | | | | | | |
| 7.92- 8.53 | NO SAMPLE NO CORE | | | | | | | | | | | | | | | | | | | |
| 8.53- 11.53 | 8729 | 3.00 | .05 | 3.0 | | .01 | .01 | | | | | | | | | | | | | |
| 14.53 | 8730 | 3.00 | .05 | 1.5 | | .01 | .01 | | | | | | | | | | | | | |
| 17.53 | 8731 | 3.0 | .05 | 2.5 | | .01 | .01 | | | | | | | | | | | | | |
| 20.53 | 8732 | 3.0 | .10 | 8.0 | | .13 | .01 | | | | | | | | | | | | | |
| 23.53 | 8733 | 3.0 | .10 | 2.5 | .01 | .01 | .11 | | | | | | | | | | | | | |
| 26.53 | 8734 | 3.0 | .05 | 1.0 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 29.53 | 8735 | 3.0 | .05 | 1.5 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 32.53 | 8736 | 3.0 | .05 | 1.5 | | .02 | .01 | | | | | | | | | | | | | |
| 35.53 | 8737 | 3.0 | .05 | 2.0 | .02 | .05 | .05 | | | | | | | | | | | | | |
| 38.53 | 8738 | 3.0 | .05 | 1.5 | .01 | .15 | .01 | | | | | | | | | | | | | |
| 41.53 | 8739 | 3.0 | .05 | 1.5 | .01 | .20 | .02 | | | | | | | | | | | | | |
| 44.53 | 8740 | 3.0 | .05 | 2.0 | .01 | .25 | .05 | | | | | | | | | | | | | |
| 47.53 | 8741 | 3.0 | .05 | 5.5 | .01 | .29 | .02 | | | | | | | | | | | | | |
| 50.53 | 8742 | 3.0 | .05 | 4.0 | .01 | .26 | .02 | | | | | | | | | | | | | |
| 53.53 | 8743 | 3.0 | .55 | 16.0 | .01 | .42 | .02 | | | | | | | | | | | | | |
| 56.53 | 8744 | 3.0 | .10 | 3.0 | .01 | .45 | .02 | | | | | | | | | | | | | |
| 59.53 | 8745 | 2.0 | .15 | 6.0 | .01 | .17 | .02 | | | | | | | | | | | | | |
| 62.53 | 8746 | 3.0 | .15 | 3.0 | .01 | .12 | .01 | | | | | | | | | | | | | |
| 65.53 | 8747 | 3.0 | .05 | 2.0 | .01 | .10 | .01 | | | | | | | | | | | | | |
| 68.53 | 8748 | 3.0 | .05 | 2.6 | .01 | .14 | .02 | | | | | | | | | | | | | |
| 71.53 | 8749 | 3.0 | .05 | 4.0 | .01 | .11 | .02 | | | | | | | | | | | | | |
| 74.53 | 8750 | 3.0 | .05 | 5.5 | .01 | .22 | .03 | | | | | | | | | | | | | |
| 77.53 | 8751 | 3.0 | .10 | 10.0 | .01 | .39 | .03 | | | | | | | | | | | | | |
| 80.53 | 8752 | 3.0 | .05 | 4.0 | .01 | .08 | .03 | | | | | | | | | | | | | |
| 83.53 | 8753 | 3.0 | .10 | 25.5 | .01 | .12 | .06 | | | | | | | | | | | | | |
| 84.40 | 8754 | .87 | .20 | 25.0 | .03 | .34 | .03 | | | | | | | | | | | | | |
| 84.55 | 8755 | .15 | .15 | 44.5 | .04 | 5.25 | .15 | | | | | | | | | | | | | |
| 86.53 | 8756 | 1.98 | .15 | 23.0 | .03 | .31 | .06 | | | | | | | | | | | | | |
| 89.53 | 8757 | 3.00 | .15 | 10.0 | .01 | .11 | .03 | | | | | | | | | | | | | |
| 92.53 | 8758 | 3.00 | .10 | 4.5 | .01 | .04 | .02 | | | | | | | | | | | | | |
| 93.57 | 8759 | 1.04 | .05 | 1.0 | | .08 | .01 | | | | | | | | | | | | | |
| 93.57-111.00 | WASTE | 17.43 | - | - | - | - | - | | | | | | | | | | | | | |
| 111.00-114.00 | 8760 | 3.00 | .05 | 28.0 | | .03 | .01 | | | | | | | | | | | | | |
| 117.00 | 8761 | 3.00 | .05 | 3.0 | | .05 | .01 | | | | | | | | | | | | | |
| 120.00 | 8762 | 3.00 | .05 | 3.5 | | .04 | .01 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 677' (206.34M) | Date Began: JULY 13, 1980.
Hole No.: DDH-D-14-80 | Co ord. | Horizontal Length: 338.5 (103.17M) | Date Completed: JULY 15, 1980.
Sheet No.: 2 OF 2 | Direction: 270° | Drilled By: D. W. COATES
Claim No. | Elevation | Angle: -60° | Logged By: W. E. LUMLEY

| METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123.00 | 8763 | 3.00 | .10 | 17.5 | | .07 | .01 | | | | | | | | | | | | | |
| 126.00 | 8764 | 3.00 | .05 | 10.0 | | .06 | .01 | | | | | | | | | | | | | |
| 129.00 | 8765 | 3.00 | .05 | 35.0 | | .06 | .01 | | | | | | | | | | | | | |
| 129.00-132.00 | 8766 | 3.00 | .10 | 11.0 | | .05 | .01 | | | | | | | | | | | | | |
| 135.00 | 8767 | 3.00 | .05 | 18.0 | | .08 | .02 | | | | | | | | | | | | | |
| 138.00 | 8768 | 3.0 | .05 | 10.5 | | .09 | .01 | | | | | | | | | | | | | |
| 141.00 | 8769 | 3.0 | .05 | 14.0 | | .07 | .01 | | | | | | | | | | | | | |
| 144.00 | 8770 | 3.0 | .05 | 12.0 | | .06 | .01 | | | | | | | | | | | | | |
| 147.00 | 8771 | 3.0 | .05 | 7.5 | | .05 | .01 | | | | | | | | | | | | | |
| 150.00 | 8772 | 3.0 | .05 | 3.5 | | .08 | .01 | | | | | | | | | | | | | |
| 153.00 | 8773 | 3.0 | .05 | 7.0 | | .07 | .01 | | | | | | | | | | | | | |
| 154.00 | 8774 | 6.0 | .05 | 2.0 | | .07 | .01 | | | | | | | | | | | | | |
| 162.00 | 8775 | 3.0 | .15 | 8.5 | | .08 | .01 | | | | | | | | | | | | | |
| 162.70-162.93 | 8776 | .23 | 4.30 | 175.0 | | .95 | .11 | | | | | | | | | | | | | |
| 162.93-166.00 | 8777 | 3.07 | .10 | 20.0 | .01 | .08 | .01 | | | | | | | | | | | | | |
| 166.00-169.00 | 8778 | 3.0 | .10 | 5.0 | | .03 | .02 | | | | | | | | | | | | | |
| 172.00 | 8779 | 3.0 | .15 | 8.5 | | .03 | .01 | | | | | | | | | | | | | |
| 175.00 | 8780 | 3.0 | .05 | 3.5 | | .02 | .02 | | | | | | | | | | | | | |
| 178.00 | 8781 | 3.0 | .10 | 3.0 | | .04 | .01 | | | | | | | | | | | | | |
| 181.00 | 8782 | 3.0 | .15 | 6.0 | | .03 | .01 | | | | | | | | | | | | | |
| 184.00 | 8783 | 3.0 | .15 | 6.0 | | .02 | .01 | | | | | | | | | | | | | |
| 187.00 | 8784 | 3.0 | .05 | 3.0 | | .04 | .01 | | | | | | | | | | | | | |
| 190.00 | 8785 | 3.0 | .10 | 2.0 | | .04 | .01 | | | | | | | | | | | | | |
| 193.00 | 8786 | 3.0 | .05 | 2.0 | | .03 | .01 | | | | | | | | | | | | | |
| 196.00 | 8787 | 3.0 | .10 | 1.0 | | .02 | .01 | | | | | | | | | | | | | |
| 199.00 | 8788 | 3.0 | .05 | 5.5 | | .04 | .01 | | | | | | | | | | | | | |
| 202.00 | 8789 | 3.0 | .05 | 1.5 | | .04 | .01 | | | | | | | | | | | | | |
| 206.34 | 8990 | 4.34 | .05 | 5.0 | | .04 | .01 | | | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Property | CAPOOSE | Project No. | 70113 | Depth | 912(277.96M) 497.50' 151.63m | Date Began | JULY 17, 1980. |
| Hole No. | DDH-D-15-80 | Co ord. | 7+32W | Horizontal Length | | Date Completed | JULY 21, 1980 |
| Sheet No. | 1. OF. 4 | | 7+16S | Direction | 270° | Drilled By | D. W. COATES |
| Claim No. | | Elevation | 1847M | Angle | -60° | Logged By | W. E. LUMLEY |

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 - 2.44 | CASING | | | | | | | | | | | |
| 2.44- 81.07 | Andesite - siliceous fine grained black to dark grey in colour. Uniform in texture and composition. Upper section quite uniform with lower section having more altered & mineralized sections. Same unit that was found in DDH-D-10, 11, 13, 14. Mineralization pyrite & minor garnet in upper section; bottom section contains sphalerite & galena in fractures. | | | | | | | | | | | |
| | 4.95 Calcite filled fracture at 40° core axis. | | | | | | | | | | | |
| | 7.31 Hematite lined fracture at 20° to core. | | | | | | | | | | | |
| | 11.58 - 13.71 Broken core numerous fractures parallel to core. | | | | | | | | | | | |
| | 15.29 Hematite calcite healed fracture at 15° to core. | | | | | | | | | | | |
| | 16.13-16.76 fracture parallel to core. | | | | | | | | | | | |
| | 16.76-17.75 broken core poor recovery on .4m recovered. | | | | | | | | | | | |
| | 28.04 Fracture at 15° to core. | | | | | | | | | | | |
| | 31.40-31.86 Fracture parallel to core. | | | | | | | | | | | |
| | 35.00-36.26 Broken core - gouge 2cm. wide at 35.04 | | | | | | | | | | | |
| | 36.26-81.07 Andesite becoming tuffaceous and could be called an andesite tuff at this point. Unit slightly altered with a spotty texture typical of tuff. | | | | | | | | | | | |
| | 43.51-43.80 fracture at 15° to core. | | | | | | | | | | | |
| | 50.56-51.39 fracture healed with calcite at 5° to core. | | | | | | | | | | | |
| | 55.30 1cm wide calcite vein at 25° to core axis. | | | | | | | | | | | |
| | 52.64 1cm wide pyrite filled fracture-minor galena, sphalerite. | | | | | | | | | | | |
| | 53.17 .5cm wide calcite fracture. | | | | | | | | | | | |
| | 56.74 .5cm wide pyrite vein-minor sphalerite & galena. | | | | | | | | | | | |
| | 57.97-58.03 pyrite filled fracture at 30° to core. | | | | | | | | | | | |
| | 58.37-58.45 sulphide rich zone-sphalerite, galena, pyrite, garnets. | | | | | | | | | | | |
| | 60.00 .5cm fracture filled with pyrite & minor galena, sphalerite. | | | | | | | | | | | |
| | 60.04-60.32 Sheared zone-Broken core slickensides of chlorite at 20° to core axis. | | | | | | | | | | | |
| | 63.09-63.69 Section characterized by vugs after pyrite. | | | | | | | | | | | |
| | 63.90-65.73 High grade zone of fine disseminated pyrite, galena & sphalerite with broken core 64.10-65.73 caused by fracturing parallel to core. | | | | | | | | | | | |
| | 66.55-66.75 3cm wide brecciated fracture edges lined with pyrite and minor sulphides. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-15-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 2 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 66.57-74.98 Section becoming spotted with pyrite & what appears to be chlorite alteration. No sulphides evident. | | | | | | | | | | | |
| | 76.80 1Cm wide quartz vein at 35° to core containing sphalerite, galena and pyrite. | | | | | | | | | | | |
| | 76.88 Same as above at 76.60. | | | | | | | | | | | |
| | 76.70-81.07 High grade zone similar to 63.90-65.73 veins are at low angles to core (15°). | | | | | | | | | | | |
| 81.07-119.48 | Mineralized rhyolite tuff - similar to ore Zone in D-5 medium grained kaolinitized mineralization in form of wide fractures and whisps & blebs containing garnets healed with sulphides (py,gal. & sph). Minor andesite dykes. | | | | | | | | | | | |
| | 84.12 .5Cm wide fracture of galena, sphalerite, pyrite & garnets. | | | | | | | | | | | |
| | 86.87-86.92 Fracture containing garnets, galena, sphalerite, pyrite and minor chalcopyrite at 60° to core axis picture taken. | | | | | | | | | | | |
| | 89.00-90.52 Broken core. | | | | | | | | | | | |
| | 90.52-96.95 Well mineralized section with abundant rounded sphalerite and disseminated galena & pyrite. | | | | | | | | | | | |
| | 96.95-97.15 Andesite dyke-black fine grained siliceous. | | | | | | | | | | | |
| | 97.38-97.75 Broken core. | | | | | | | | | | | |
| | 99.75-119.48 Very highly mineralized section containing numerous sulphide filled fractures. | | | | | | | | | | | |
| | 101.12-101.25 High grade fracture at 40° to core containing garnet, galena, pyrite, sphalerite, chalcopyrite, and chalcocite(?) | | | | | | | | | | | |
| | 105.53-105.57 1Cm wide high grade fracture at 35° to core. | | | | | | | | | | | |
| | 115.00-115.26 High grade zone. Numerous garnets,sph., py, and galena in pods & fractures. Picture taken. | | | | | | | | | | | |
| | 115.26-116.00 Broken core. | | | | | | | | | | | |
| | 116.70 3cm wide fracture at 45° to core. | | | | | | | | | | | |
| | 118.92-118.94 High grade fracture. Picture taken. | | | | | | | | | | | |
| 119.48-133.15 | Very uniform finer grained rhyolite -siliceous-generally of a lower grade than unit above. Mineralization is seen as replacement of garnets by sulphides. Garnets occupy zones of flexure in the flow banding with sulphides disseminated along the flow planes. Unit is dark grey in colour. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-15-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 3 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133.15-147.46 | Fresh Barren Rhyolite Dyke-white chalky with a porphyrytic border caused by white feldspar(?) Same dyke intersected in D-10.11.5. | | | | | | | | | | | |
| 147.46-160.72 | Similar unit as 119.48-133.15-moderately mineralized with garnets and pyrite with minor galena and sph. as replacement. Flow banding at 20-30° to core. Increase in kaolinitization noted as hole deepens. | | | | | | | | | | | |
| | 150.18 1Cm wide sulphide filled fracture at 60° to core. | | | | | | | | | | | |
| | 153.0-153.61 Fracture parallel to core axis. | | | | | | | | | | | |
| | 155.35-156.76 as above 153.10-153.61 mineralized with py. & chlorite. | | | | | | | | | | | |
| | 156.72-160.72 Noted increase in garnets & pyrite. | | | | | | | | | | | |
| 160.72-200.61 | Light grey siliceous garnet rich Rhyolite tuff unit fractured at 30° to core axis. Entire section similar to unit found in DDH-14(110.94-148.70). Mineralization in the form of blebs whisps and fractures along with pervasive dissemination of gal. & sph. | | | | | | | | | | | |
| | 167.00-174.08 White siliceous tuff unit exactly same as one seen in DDH-D-14. | | | | | | | | | | | |
| | 176.47-183.49 High grade section blebs & fractures. | | | | | | | | | | | |
| | 178.00 1Cm. wide high grade fracture at 50° to core. | | | | | | | | | | | |
| | 186.53-187.60 dark green sulphide rich gouge. | | | | | | | | | | | |
| | 191.10.5cm wide high grade vein at 40° to core. | | | | | | | | | | | |
| | 193.82 1cm wide high grade vein at 60° to core. | | | | | | | | | | | |
| | 195.71.5cm wide vein. | | | | | | | | | | | |
| | 195.71-196.20 Very high grade section mineralized with spheres of sphalerite after garnet. | | | | | | | | | | | |
| | 200.20-200.39 - Dark green mineralized gouge. | | | | | | | | | | | |
| | 200.43-200.61 - as above. | | | | | | | | | | | |
| 200.61-277.96 | Light to medium grey Rhyolitic tuff medium grained well mineralized with whisps blebs & veins of sphalerite, galena & pyrite after garnet. Typical of ore zone in D-5, D-10. | | | | | | | | | | | |
| | 205.35 1cm wide quartz vein with Py, sph. & minor galena. | | | | | | | | | | | |
| | 207.40 3cm wide quartz vein with py, sph. & minor galena. | | | | | | | | | | | |
| | 212.0-212.40 - high grade zone py, sph. & galena. | | | | | | | | | | | |
| | 215.6 .5cm wide high grade fracture. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-15-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 4 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 216.44 2cm wide high grade vein. | | | | | | | | | | | |
| | 221.93 calcite filled fracture at 70° to core. | | | | | | | | | | | |
| | 224.63-225.13 broken and ground core. | | | | | | | | | | | |
| | 225.85 1cm wide py, cpy, galena fracture | | | | | | | | | | | |
| | 226.53 .5cm wide fracture at 30° to core. | | | | | | | | | | | |
| | 228.80-229.30 broken core. | | | | | | | | | | | |
| | 232.04-232.75 broken core. | | | | | | | | | | | |
| | 236.22-236.32 dark green fault gouge. | | | | | | | | | | | |
| | 236.32-237.41 broken core. | | | | | | | | | | | |
| | 240.17-240.57 High grade fracture with sph, gal, py. | | | | | | | | | | | |
| | 240.57-242.00 sheared fractures with chlorite slickensides. Overall grade appears to be decreasing. | | | | | | | | | | | |
| | 246.88-247.54 broken core. | | | | | | | | | | | |
| | 249.00-249.60 fracture parallel to core. | | | | | | | | | | | |
| | 256.02-277.96 very silicious weakly mineralized rhyolite with large amount of broken core. | | | | | | | | | | | |
| | 253.50-253.64 broken core. | | | | | | | | | | | |
| | 253.35-256.63 broken core | | | | | | | | | | | |
| | 257.62-259.67 broken core. Very poor recovery (.6M recovered) | | | | | | | | | | | |
| | 262.84 2cm wide bleb of pyrite. | | | | | | | | | | | |
| | 265.26-265.47 broken core | | | | | | | | | | | |
| | 266.46-266.52 sulphide filled fracture | | | | | | | | | | | |
| | 271.77-273.09 broken core. | | | | | | | | | | | |
| | 277.56-277.96 broken core. | | | | | | | | | | | |
| | END OF HOLE Acid test 497' (151.48m) -57° 912 (277.96m) -53° | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 917 (277.96M) | Date Began: JULY 12, 1980

Hole No.: DDH-D-15-80 | Co ord.: 7+32 W | Horizontal Length: | Date Completed: JULY 21, 1980

Sheet No.: 1 OF 3 | 7+16 S | Direction: 270° | Drilled By: D. W. COATES

Claim No.: | Elevation: 1847 M | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ (METERS) | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb. | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 3.00 | CASING | 3.00 | | | | | | | | | | | | | | | | | | |
| 3.00- 6.00 | 8791 | 3.00 | .05 | 1.5 | | .06 | .01 | | | | | | | | | | | | | |
| 6.00- 9.00 | 8792 | 3.00 | .05 | 1.5 | | .10 | .01 | | | | | | | | | | | | | |
| 9.00- 12.00 | 8793 | 3.00 | .05 | 2.0 | | .16 | .01 | | | | | | | | | | | | | |
| 12.00- 15.00 | 8794 | 3.00 | .10 | 1.0 | | .20 | .01 | | | | | | | | | | | | | |
| 15.00- 18.00 | 8795 | 3.00 | .05 | 2.0 | | .18 | .02 | | | | | | | | | | | | | |
| 18.00- 21.00 | 8796 | 3.00 | .10 | 1.0 | | .22 | .01 | | | | | | | | | | | | | |
| 21.00- 24.00 | 8797 | 3.00 | .05 | .5 | | .08 | .01 | | | | | | | | | | | | | |
| 24.00- 27.00 | 8798 | 3.00 | .05 | 2.0 | | .20 | .01 | | | | | | | | | | | | | |
| 27.00- 30.00 | 8799 | 3.00 | .05 | .5 | | .12 | .01 | | | | | | | | | | | | | |
| 30.00- 33.00 | 8800 | 3.00 | .10 | 1.5 | | .16 | .01 | | | | | | | | | | | | | |
| 33.00- 36.00 | 8801 | 3.00 | .05 | 1.5 | | .18 | .01 | | | | | | | | | | | | | |
| 36.00- 39.00 | 8802 | 3.00 | .05 | 1.5 | | .08 | .01 | | | | | | | | | | | | | |
| 39.00- 42.00 | 8803 | 3.00 | .10 | 2.0 | | .17 | .01 | | | | | | | | | | | | | |
| 42.00- 45.00 | 8804 | 3.00 | .05 | 2.0 | | .13 | .01 | | | | | | | | | | | | | |
| 45.00- 48.00 | 8805 | 3.00 | .05 | 1.5 | | .16 | .01 | | | | | | | | | | | | | |
| 48.00- 51.00 | 8806 | 3.00 | .05 | 1.0 | | .37 | .01 | | | | | | | | | | | | | |
| 51.00- 54.00 | 8807 | 3.00 | .05 | .5 | | .12 | .01 | | | | | | | | | | | | | |
| 54.00- 57.00 | 8808 | 3.00 | .05 | .5 | | .12 | .01 | | | | | | | | | | | | | |
| 57.00- 60.00 | 8809 | 3.00 | .05 | 1.5 | | .09 | .01 | | | | | | | | | | | | | |
| 60.00- 63.00 | 8810 | 3.00 | .10 | 8.5 | | .46 | .05 | | | | | | | | | | | | | |
| 63.00- 66.00 | 8811 | 3.00 | .40 | 45.5 | | .78 | .35 | | | | | | | | | | | | | |
| 65.00- 69.00 | 8812 | 3.00 | .05 | 6.0 | | .17 | .05 | | | | | | | | | | | | | |
| 69.00- 72.00 | 8813 | 3.00 | .05 | 3.0 | | .05 | .04 | | | | | | | | | | | | | |
| 72.00- 75.00 | 8814 | 3.00 | .05 | 1.5 | | .03 | .03 | | | | | | | | | | | | | |
| 75.00- 78.00 | 8815 | 3.00 | .05 | 4.5 | .01 | .34 | .02 | | | | | | | | | | | | | |
| 78.00- 81.00 | 8816 | 3.00 | .20 | 6.0 | .01 | .58 | .01 | | | | | | | | | | | | | |
| 81.00- 84.00 | 8817 | 3.00 | .30 | 4.5 | .01 | .58 | .02 | | | | | | | | | | | | | |
| 84.00- 86.87 | 8818 | 2.87 | .45 | 6.5 | .01 | 1.17 | .04 | | | | | | | | | | | | | |
| 86.87- 86.92 | 8819 | .05 | .65 | 265.0 | .03 | 4.08 | 5.20 | | | | | | | | | | | | | |
| 86.92- 90.00 | 8820 | 3.08 | .15 | 9.0 | .01 | 1.02 | .02 | | | | | | | | | | | | | |
| 90.00- 93.00 | 8821 | 3.00 | .25 | 8.5 | .01 | .62 | .03 | | | | | | | | | | | | | |
| 93.00- 96.00 | 8822 | 3.00 | .15 | 2.5 | .01 | .02 | .01 | | | | | | | | | | | | | |
| 96.00- 99.00 | 8823 | 3.00 | .10 | 4.0 | .01 | .39 | .01 | | | | | | | | | | | | | |
| 99.00-101.12 | 8824 | 2.12 | .20 | 5.5 | .02 | .56 | .01 | | | | | | | | | | | | | |
| 101.12-101.25 | 8825 | .13 | .80 | 18.5 | .10 | .51 | .11 | | | | | | | | | | | | | |
| 101.25-103.00 | 8826 | 2.75 | .25 | 6.5 | .03 | .74 | .01 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 912(277.96M) | Date Began: JULY 12, 1980
Hole No.: DDH-D-15-80 | Co ord. | Horizontal Length | Date Completed: JULY 21, 1980
Sheet No.: 2 OF 3 | Direction: 270° | Drilled By: D. W. COATES
Claim No. | Elevation | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 103.00-106.00 | 8827 | 3.00 | .40 | 10.0 | .01 | .47 | .47 | | | | | | | | | | | | | |
| 106.00-109.00 | 8828 | 3.00 | .20 | 3.5 | .01 | .43 | .01 | | | | | | | | | | | | | |
| 109.00-112.00 | 8829 | 3.00 | .50 | 3.0 | .01 | .70 | .01 | | | | | | | | | | | | | |
| 112.00-115.00 | 8830 | 3.00 | .70 | 3.0 | .01 | 1.30 | .01 | | | | | | | | | | | | | |
| 115.00-115.26 | 8831 | .26 | 5.90 | 37.5 | .02 | 1.48 | .01 | | | | | | | | | | | | | |
| 115.26-118.72 | 8832 | 3.46 | .90 | 9.0 | | 1.35 | .02 | | | | | | | | | | | | | |
| 118.72-119.00 | 8833 | .28 | 14.40 | 101.0 | .04 | 1.60 | .11 | | | | | | | | | | | | | |
| 119.00-122.00 | 8834 | 3.00 | .85 | 4.0 | | .71 | .03 | | | | | | | | | | | | | |
| 122.00-125.00 | 8835 | 3.00 | .85 | 3.0 | | .70 | .01 | | | | | | | | | | | | | |
| 125.00-128.00 | 8836 | 3.00 | .60 | 3.0 | | .42 | .01 | | | | | | | | | | | | | |
| 128.00-131.00 | 8837 | 3.00 | .10 | 3.0 | | .06 | .01 | | | | | | | | | | | | | |
| 131.00-134.00 | 8838 | 3.00 | .05 | .5 | | .04 | .01 | | | | | | | | | | | | | |
| 134.00-149.00 | WASTE | | | | | | | | | | | | | | | | | | | |
| 149.00-152.00 | 8839 | 3.00 | .05 | 3.5 | .02 | .04 | .01 | | | | | | | | | | | | | |
| 152.00-155.00 | 8840 | 3.00 | .05 | 2.0 | .02 | .06 | .01 | | | | | | | | | | | | | |
| 155.00-158.00 | 8841 | 3.00 | .10 | 3.0 | .02 | .08 | .01 | | | | | | | | | | | | | |
| 158.00-161.00 | 8842 | 3.00 | .10 | 6.0 | .01 | .05 | .01 | | | | | | | | | | | | | |
| 161.00-164.00 | 8843 | 3.00 | .05 | 1.0 | .01 | .02 | .01 | | | | | | | | | | | | | |
| 164.00-167.00 | 8844 | 3.00 | .05 | 1.5 | .01 | .09 | .01 | | | | | | | | | | | | | |
| 167.00-170.00 | 8845 | 3.00 | .05 | 1.5 | .01 | .08 | .01 | | | | | | | | | | | | | |
| 170.00-173.00 | 8846 | 3.00 | .20 | 12.0 | .01 | .05 | .01 | | | | | | | | | | | | | |
| 173.00-176.00 | 8847 | 3.00 | .10 | 6.5 | .01 | .05 | .01 | | | | | | | | | | | | | |
| 176.00-179.00 | 8848 | 3.00 | .10 | 7.5 | .01 | .08 | .03 | | | | | | | | | | | | | |
| 179.00-182.00 | 8849 | 3.00 | .05 | 4.0 | .01 | .44 | .02 | | | | | | | | | | | | | |
| 182.00-185.00 | 8850 | 3.00 | .15 | 4.5 | .01 | .30 | .03 | | | | | | | | | | | | | |
| 185.00-188.00 | 8851 | 3.00 | .10 | 28.0 | .03 | 1.25 | .02 | | | | | | | | | | | | | |
| 188.00-191.00 | 8852 | 3.00 | .15 | 16.0 | .05 | .04 | .01 | | | | | | | | | | | | | |
| 191.00-194.00 | 8853 | 3.00 | .30 | 15.5 | .03 | .82 | .01 | | | | | | | | | | | | | |
| 194.00-197.00 | 8854 | 3.00 | .20 | 10.5 | .02 | .84 | .01 | | | | | | | | | | | | | |
| 197.00-200.00 | 8855 | 3.00 | .20 | 10.5 | .01 | .42 | .01 | | | | | | | | | | | | | |
| 200.00-203.00 | 8856 | 3.00 | .30 | 9.0 | .02 | .52 | .02 | | | | | | | | | | | | | |
| 203.00-206.00 | 8857 | 3.00 | .20 | 4.5 | .02 | .84 | .01 | | | | | | | | | | | | | |
| 206.00-209.00 | 8858 | 3.00 | .25 | 4.0 | .01 | .54 | .01 | | | | | | | | | | | | | |
| 209.00-212.00 | 8859 | 3.00 | .40 | 6.0 | .02 | .63 | .01 | | | | | | | | | | | | | |
| 212.00-215.00 | 8860 | 3.00 | .10 | 5.0 | .01 | .48 | .01 | | | | | | | | | | | | | |
| 215.00-218.00 | 8861 | 3.00 | .15 | 8.0 | .01 | .60 | .01 | | | | | | | | | | | | | |
| 218.00-221.00 | 8862 | 3.00 | .15 | 6.0 | .01 | .39 | .01 | | | | | | | | | | | | | |
| 221.00-224.00 | 8863 | 3.00 | .35 | 9.0 | .01 | .48 | .01 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 912(277.96M) | Date Began: JULY 17, 1980
Hole No.: DDH-D-15-80 | Co ord. | Horizontal Length | Date Completed: JULY 21, 1980
Sheet No.: 3 OF 3 | Direction: 370 | Drilled By: D.W. COATES
Claim No. | Elevation | Angle: -60° | Logged By: W.E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 224.00-227.00 | 8864 | 3.00 | .05 | 20.0 | .02 | .95 | .02 | | | | | | | | | | | | | |
| 227.00-230.00 | 8865 | 3.00 | .15 | 21.0 | .02 | 1.14 | .01 | | | | | | | | | | | | | |
| 230.00-233.00 | 8866 | 3.00 | .25 | 38.0 | .01 | .36 | .02 | | | | | | | | | | | | | |
| 233.00-236.00 | 8867 | 3.00 | .15 | 54.0 | .02 | 1.12 | .05 | | | | | | | | | | | | | |
| 236.00-239.00 | 8868 | 3.00 | .10 | 35.5 | .03 | .58 | .03 | | | | | | | | | | | | | |
| 239.00-242.00 | 8869 | 3.00 | .35 | 38.0 | .02 | .34 | .21 | | | | | | | | | | | | | |
| (240.25-240.40) | 8870 | .15 | 4.80 | 201.0 | .05 | 5.95 | 1.58 | | | | | | | | | | | | | |
| 242.00-245.00 | 8871 | 3.00 | .10 | 17.5 | .02 | .20 | .03 | | | | | | | | | | | | | |
| 248.00 | 8872 | 3.00 | .05 | 8.5 | .02 | .23 | .01 | | | | | | | | | | | | | |
| 251.00 | 8873 | 3.00 | .10 | 11.5 | .02 | .42 | .02 | | | | | | | | | | | | | |
| 254.00 | 8874 | 3.00 | .15 | 18.0 | .02 | .77 | .02 | | | | | | | | | | | | | |
| 257.00 | 8875 | 3.00 | .25 | 13.0 | .03 | .74 | .03 | | | | | | | | | | | | | |
| 260.00 | 8876 | 3.00 | .10 | 10.5 | .01 | .23 | .01 | | | | | | | | | | | | | |
| 263.00 | 8877 | 3.00 | .20 | 22.0 | .02 | .58 | .01 | | | | | | | | | | | | | |
| 266.00 | 8878 | 3.00 | .10 | 11.0 | .01 | .39 | .01 | | | | | | | | | | | | | |
| 269.00 | 8879 | 3.00 | .15 | 18.5 | .01 | .25 | .01 | | | | | | | | | | | | | |
| 272.00 | 8880 | 3.00 | .30 | 17.0 | .02 | .42 | .01 | | | | | | | | | | | | | |
| 275.00 | 8881 | 3.00 | .55 | 28.0 | .01 | .35 | .02 | | | | | | | | | | | | | |
| 277.96 | 8882 | 2.96 | .65 | 21.0 | .01 | .21 | .01 | | | | | | | | | | | | | |
| | END OF HOLE | | | | | | | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 720' (219.45M) | Date Began: JULY 22, 1980.
Hole No.: DDH-D-16-80 | Co ord.: 10+88W | Horizontal Length: 383.78' (116.97m) | Date Completed: JULY 25, 1980.
Sheet No.: 1 OF 3 | 7+41S | Direction: 090° | Drilled By: D. W. COATES
Claim No.: | Elevation: 1829M | Angle: -60° | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | % REC'Y CALC'D. |
|---|---|---|---|---|
| 0.00- 2.44 | CASING | | | |
| 2.44- 13.16 | Andesite Breccia. Well developed breccia evident on weathered surface mineralized with pyrite with very minor sulphides as fracture fillings and as replacements of some fragments. Overall grade low 5-10 gms/ton. | | | |
| | 2.44-13.16 Highly fractured section with fractures at 0°-40° to core axis. | | | |
| | 2.44-4.85 Broken core. | | | |
| | 6.00 1cm wide high grade fracture filled with pyrite, sphalerite & galena. | | | |
| | 6.70-7.05 fracture parallel to core. | | | |
| | 9.36-9.56 fracture parallel to core. | | | |
| 13.16- 55.00 | Rhyolite dyke white chalky locally porphyritic. Barren. Flow banding at 40° to core axis. Same rhyolite dyke intercepted in D-5, 14 & 15. Lower contact at 40° to core axis. | | | |
| 55.00- 76.21 | Andesite Breccia. Very similar to the breccia from 2.44-13.16 characterized by more mineralization (py, sphalerite & galena) and a marked increase in the number of garnets. Also, characteristic of this unit is the fact that it is cut by numerous calcite filled fractures at 15°-40° to the core axis. | | | |
| | 55.00-67.00 section cut by numerous calcite filled fractures. | | | |
| | 61.60 1cm calcite filled fracture at 40° to core. | | | |
| | 61.81 1cm wide calcite filled fracture at 15° to core. entire section 61.60-61.81 brecciated. | | | |
| | 63.12 pod of sulphides after fragment in the breccia - galena, sphalerite & pyrite. | | | |
| | 63.35 .5cm wide high grade fracture filled with sphalerite at 40° to core. | | | |
| | 63.75 very large garnet 3cm in diameter with sph. galena & pyrite healing fractures. | | | |
| | 64.75-64.95 Brecciated section-fragments cemented by calcite. | | | |
| | 65.80 2cm wide calcite healed fracture. | | | |
| | 66.30-67.00 highly fractured section healed by calcite with minor sulphides. | | | |
| | 67.00 1cm wide calcite filled fracture with sulphides (gal, sph & py) lining fracture at 40° to core. | | | |
| | 67.77-67.83 zone of EPIDOTIZATION | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-16-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 2 OF 3 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 72.90-73.30 Zone of intense silicification turning light grey in colour. Very hard. | | | | | | | | | | | |
| | 73.50 4cm wide zone of epidotization. | | | | | | | | | | | |
| 76.21-79.78 | Rhyolite Tuff - small zone of light grey typical rhyolite tuff gradually becoming more silicified. | | | | | | | | | | | |
| 79.78-175.25 | Andesitic Breccia with minor interbedded tuff locally highly altered-epidote & silica. Mineralization includes galena & sphal. in minor amounts in intimate association with calcite & occurring as replacements after fragments in the breccia. | | | | | | | | | | | |
| | 83.10-83.90 zoned intense silicification-light grey in colour. | | | | | | | | | | | |
| | 83.90-84.05 epidote rich section. | | | | | | | | | | | |
| | 84.22 1cm wide brecciated fracture lined with calcite. | | | | | | | | | | | |
| | 88.06 Pod of sulphides py, sph. & minor galena - possible replacement of the fragment. | | | | | | | | | | | |
| | 90.49 2cm wide replacement pod of sph. & py. | | | | | | | | | | | |
| | 90.17 .5cm fracture healed with calcite at 40° to core. | | | | | | | | | | | |
| | 90.35 .5cm fracture healed with calcite at 20° to core. | | | | | | | | | | | |
| | 94.20 epidote alteration surrounding fracture. | | | | | | | | | | | |
| | 94.39 thin sulphide healed fracture at 40° to core. | | | | | | | | | | | |
| | 98.57 .5cm wide calcite healed fracture. | | | | | | | | | | | |
| | 101.10 1cm wide high grade vein sph, galena, py at 30° to core | | | | | | | | | | | |
| | 101.41-101.53 intensely altered brecciated section(epidote) | | | | | | | | | | | |
| | 101.92 .5cm wide high grade fracture 15° to core axis. | | | | | | | | | | | |
| | 104.53-104.61 epidote altered section same as 101.41-101.53. | | | | | | | | | | | |
| | 105.45-105.89 section characterized by numerous minor calcite filled fractures at 0°-10° is core axis. Contains minor galena, sph. & py. | | | | | | | | | | | |
| | 106.10-110.61 light grey silicified section. | | | | | | | | | | | |
| | 110.61-130.14 very uniform breccia unit dark grey to black in colour. Locally altered. Clast are cherty rhyolite or andesite in a aphanitic matrix. | | | | | | | | | | | |
| | 114.15-114.39 epidite altered section. | | | | | | | | | | | |
| | 115.40-115.82 altered section surrounding a high grade vein at 115.60 oriented at 20° to core. | | | | | | | | | | | |
| | 117.42-117.48 epidote altered section at 30° to core. | | | | | | | | | | | |
| | 119.20 .5cm fracture at 15° to core epidote alteration. 2cm either side of fracture. | | | | | | | | | | | |
| | 125.80-125.05 highly fractured section minor epidote. | | | | | | | | | | | |
| | 130.14-140.40 light grey coloured section highly silicified. Appears to have been a rhyolite tuff. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CARCOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-16-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 3 OF 3 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 140.40-146.00 uniform andesitic breccia as in description. | | | | | | | | | | | |
| | 146.00-149.40 highly silicified section with minor epidote, and calcite. | | | | | | | | | | | |
| | 146.67 .5cm wide quartz vein with minor epidote. | | | | | | | | | | | |
| | 146.59 Thin (.2)cm wide sulphide healed fracture at 90° to core axis. | | | | | | | | | | | |
| | 147.16 .2cm fracture at 20° to core axis quartz healed with minor sulphides. | | | | | | | | | | | |
| | 147.95 2cm wide sulphide replacement of fragment. | | | | | | | | | | | |
| | 148.04-149.43 highly fractured section cut by numerous calcite filled fractures. | | | | | | | | | | | |
| | 149.58 1cm wide calcite healed fracture exhibiting well developed intense epidotization-3cm either side. | | | | | | | | | | | |
| | 149.90-151.48 section similar to 148.04-149.43. | | | | | | | | | | | |
| | 153.26-175.25 uniform tuffaceous section locally brecciated. with calcite healed fractures at 157.77, 161.00-161.20. | | | | | | | | | | | |
| | 165.12-166.72 highly fractured section healed with calcite. | | | | | | | | | | | |
| 175.25-219.45 | Light grey rhyodite tuff unit typical of unit found in ore zone of D-5, D-15. Kaolinitization present, but not pervasive. Large amount of silicification present in this section as compared to similar units in D-5, 15, resulting in large amount of broken core. | | | | | | | | | | | |
| | 175.55-176.05 broken core. | | | | | | | | | | | |
| | 176.92-177.38 broken core. | | | | | | | | | | | |
| | 177.42 4cm wide zone of silification & epidotization. | | | | | | | | | | | |
| | 182.26-184.75 broken core. | | | | | | | | | | | |
| | 185.00-185.78 broken core. | | | | | | | | | | | |
| | 190.00-191.00 broken core. | | | | | | | | | | | |
| | 191.08-191.76 small dyke of barren, unaltered porphyrytic, rhyolite-light green in colour. | | | | | | | | | | | |
| | 193.70-194.25 broken core. | | | | | | | | | | | |
| | 200.85-203.95 light to dark green gouge fault. | | | | | | | | | | | |
| | 204.58-206.03 dark green mineralized gouge. | | | | | | | | | | | |
| | 207.86-209.39 broken core. | | | | | | | | | | | |
| | 209.39-210.61 light grey gouge. | | | | | | | | | | | |
| | 212.64-214.87 dark green mineralized gouge. | | | | | | | | | | | |
| | 214.87-219.45 broken core. | | | | | | | | | | | |
| | END OF HOLE DUE TO CAVING AND LOSS OF WATER. | ACUTESTS 492'(149.95m) = 57.5°; 707'(215.48m) = -54° | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 720 (219.45M) | Date Began: JULY 22, 1980

Hole No.: DDH-D-16-80 | Co ord.: ~~9+10+88W~~ 985.5W, 743.5 7+41 S | Horizontal Length: 360 (109.73M) | Date Completed: JULY 25, 1980

Sheet No.: 1 OF 2 | Direction: 090° | Drilled By: D.W. COATES

Claim No.: | Elevation: 1829 M. | Angle: -60° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 - 2.44 | CASING | 2.44 | | | | | | | | | | | | |
| 2.44- 5.00 | 8883 | 2.56 | .20 | 2.5 | .01 | .08 | .01 | | | | | | | |
| 5.00- 8.00 | 8884 | 3.00 | .75 | 2.5 | .01 | .17 | .02 | | | | | | | |
| 8.00- 11.00 | 8885 | 3.00 | .05 | 1.5 | .01 | .16 | .01 | | | | | | | |
| 11.00- 13.16 | 8886 | 2.16 | .15 | 1.5 | .01 | .20 | .01 | | | | | | | |
| 13.16- 55.00 | WASTE | 41.84 | | | | | | | | | | | | |
| 55.00- 58.00 | 8887 | 3.00 | .05 | 5.0 | .01 | .11 | .02 | | | | | | | |
| 58.00- 61.00 | 8888 | 3.00 | .05 | 4.5 | .01 | .11 | .02 | | | | | | | |
| 61.00- 64.00 | 8889 | 3.00 | .20 | 6.5 | .02 | .77 | .02 | | | | | | | |
| 64.00- 67.00 | 8890 | 3.00 | .05 | 3.5 | .01 | .08 | .01 | | | | | | | |
| 67.00- 71.00 | 8891 | 4.00 | .05 | 4.5 | .01 | .09 | .01 | | | | | | | |
| 71.00- 74.00 | 8892 | 3.00 | .05 | 5.0 | .01 | .09 | .02 | | | | | | | |
| 74.00- 77.00 | 8893 | 3.00 | .05 | 2.5 | .01 | .09 | .01 | | | | | | | |
| 77.00- 80.00 | 8894 | 3.00 | .05 | 3.0 | .01 | .61 | .02 | | | | | | | |
| 80.00- 83.00 | 8895 | 3.00 | .05 | 3.5 | .02 | .40 | .01 | | | | | | | |
| 83.00- 86.00 | 8896 | 3.00 | .15 | 2.5 | .01 | .24 | .03 | | | | | | | |
| 86.00- 89.00 | 8897 | 3.00 | .05 | 1.5 | .01 | .35 | .02 | | | | | | | |
| 89.00- 92.00 | 8898 | 3.00 | .05 | 2.0 | .01 | .35 | .01 | | | | | | | |
| 92.00- 95.00 | 8899 | 3.00 | .05 | 1.0 | .01 | .05 | .02 | | | | | | | |
| 95.00- 98.00 | 8900 | 3.00 | .05 | 1.5 | .01 | .04 | .02 | | | | | | | |
| 98.00-101.00 | 8901 | 3.00 | .15 | 1.5 | .01 | .06 | .02 | | | | | | | |
| 101.00-104.00 | 8902 | 3.00 | .20 | 2.0 | .01 | .34 | .01 | | | | | | | |
| 104.00-107.00 | 8903 | 3.00 | .45 | 20.0 | .03 | .93 | .01 | | | | | | | |
| 107.00-110.00 | 8904 | 3.00 | .20 | 3.5 | .02 | .54 | .01 | | | | | | | |
| 110.00-113.00 | 8905 | 3.00 | .20 | 2.0 | .01 | .31 | .01 | | | | | | | |
| 113.00-116.00 | 8906 | 3.00 | .25 | 3.0 | .01 | .52 | .01 | | | | | | | |
| 116.00-119.00 | 8907 | 3.00 | .20 | 2.0 | .01 | .26 | .02 | | | | | | | |
| 119.00-122.00 | 8908 | 3.00 | .10 | 1.5 | .01 | .23 | .01 | | | | | | | |
| 122.00-125.00 | 8909 | 3.00 | .15 | 1.5 | .01 | .03 | .01 | | | | | | | |
| 125.00-128.00 | 8910 | 3.00 | .05 | 1.5 | .01 | .03 | .01 | | | | | | | |
| 128.00-131.00 | 8911 | 3.00 | .15 | 2.0 | .01 | .05 | .01 | | | | | | | |
| 131.00-134.00 | 8912 | 3.00 | .20 | 1.5 | .01 | .01 | .01 | | | | | | | |
| 134.00-137.00 | 8913 | 3.00 | .05 | 2.0 | .01 | .03 | .01 | | | | | | | |
| 137.00-140.00 | 8914 | 3.00 | .05 | 2.0 | .01 | .02 | .02 | | | | | | | |
| 140.00-143.00 | 8915 | 3.00 | .05 | 1.5 | .01 | .08 | .02 | | | | | | | |
| 143.00-146.00 | 8916 | 3.00 | .05 | 2.0 | .01 | .28 | .01 | | | | | | | |
| 146.00-149.00 | 8917 | 3.00 | .05 | 1.0 | .01 | .24 | .01 | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property ... CAPOOSE ... Project No. 70113 ... Depth 720' (219.45M) ... Date Began JULY 22, 1980

Hole No. DDH-D-16-80 ... Co ord. ... Horizontal Length 360' (109.73M) Date Completed JULY 25, 1980

Sheet No. 2 OF 2 ... Direction 090° ... Drilled By. D. W. COATES

Claim No. ... Elevation ... Angle -60° ... Logged By. W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149.00-152.00 | 8918 | 3.00 | .05 | 1.0 | .01 | .34 | .01 | | | | | | | | | | | | | |
| 152.00-155.00 | 8919 | 3.00 | .05 | 3.0 | .01 | .41 | .01 | | | | | | | | | | | | | |
| 155.00-158.00 | 8920 | 3.00 | .10 | 2.0 | .01 | .03 | .01 | | | | | | | | | | | | | |
| 158.00-161.00 | 8921 | 3.00 | .20 | 2.5 | .01 | .04 | .02 | | | | | | | | | | | | | |
| 161.00-164.00 | 8922 | 3.00 | .05 | 1.5 | .01 | .02 | .02 | | | | | | | | | | | | | |
| 164.00-167.00 | 8923 | 3.00 | .05 | 1.0 | .01 | .02 | .01 | | | | | | | | | | | | | |
| 167.00-170.00 | 8924 | 3.00 | .05 | 1.5 | .01 | .02 | .02 | | | | | | | | | | | | | |
| 170.00-173.00 | 8925 | 3.00 | .05 | 1.0 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 173.00-176.00 | 8926 | 3.00 | .05 | 2.5 | .01 | .06 | .03 | | | | | | | | | | | | | |
| 176.00-179.00 | 8927 | 3.00 | .05 | 3.5 | .01 | .45 | .01 | | | | | | | | | | | | | |
| 179.00-182.00 | 8928 | 3.00 | .15 | 5.0 | .01 | .59 | .01 | | | | | | | | | | | | | |
| 182.00-185.00 | 8929 | 3.00 | .10 | 7.5 | .01 | .52 | .01 | | | | | | | | | | | | | |
| 185.00-188.00 | 8930 | 3.00 | .10 | 6.0 | .02 | .57 | .01 | | | | | | | | | | | | | |
| 188.00-191.00 | 8931 | 3.00 | .10 | 2.5 | .02 | .44 | .01 | | | | | | | | | | | | | |
| 191.00-194.00 | 8932 | 3.00 | .05 | 2.5 | .02 | .38 | .01 | | | | | | | | | | | | | |
| 194.00-197.00 | 8933 | 3.00 | .15 | 5.5 | .02 | .41 | .02 | | | | | | | | | | | | | |
| 197.00-200.00 | 8934 | 3.00 | .05 | 2.5 | .01 | .42 | .01 | | | | | | | | | | | | | |
| 200.00-203.00 | 8935 | 3.00 | .05 | 2.0 | .02 | .84 | .01 | | | | | | | | | | | | | |
| 203.00-206.00 | 8936 | 3.00 | .05 | 5.5 | .02 | .18 | .01 | | | | | | | | | | | | | |
| 206.00-209.00 | 8937 | 3.00 | .05 | 7.0 | .01 | .44 | .01 | | | | | | | | | | | | | |
| 209.00-212.00 | 8938 | 3.00 | .10 | 2.5 | .02 | .55 | .01 | | | | | | | | | | | | | |
| 212.00-215.00 | 8939 | 3.00 | .05 | 7.5 | .02 | .34 | .01 | | | | | | | | | | | | | |
| 215.00-218.00 | 8940 | 3.00 | .50 | 36.0 | .10 | .34 | .02 | | | | | | | | | | | | | |
| 218.00-219.45 | 8941 | 1.45 | .05 | 2.5 | .02 | .75 | .01 | | | | | | | | | | | | | |

END OF HOLE

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property ....CAROOSE..... Project No..70113..... Depth .817'(249M)..... Date Began .JULY 26, 1980.....
Hole No. ..DDH-D-17-80..... Co ord. .10+96W..... Horizontal Length 525.14'(160.05M) 576.87' 175.82 Date Completed .JULY 28, 1980.....
Sheet No. ...1 OF ...3..... ..2+59S..... Direction ...225°..... Drilled By. .D. W. COATES.....
Claim No. ..... Elevation .1826M..... Angle ....-50°..... Logged By. .W. E. LUMLEY.....

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00- .61 | CASING | | | | | | | | | | | |
| .61-249.00 | Kaolinized Rhyolite Tuff-Light Grey, Medium Grained | | | | | | | | | | | |
| | Rhyolitic Tuff Mineralized Throughout-Abundant Kaolinization | | | | | | | | | | | |
| | seen throughout unit. Mineralization in form of blebs, whisps | | | | | | | | | | | |
| | and large (up to 9cm wide) sulphide filled fractures. | | | | | | | | | | | |
| | Similar unit to ore zone in D-10, D-5. | | | | | | | | | | | |
| | .61-4.00 Poor Recovery. | | | | | | | | | | | |
| | 4.00-120.50 extremely leached vuggy & hematitic zone. | | | | | | | | | | | |
| | Well mineralized with sph, galena, py- minor | | | | | | | | | | | |
| | arsenopyrite & garnets. Fractures coated with | | | | | | | | | | | |
| | hematite. Mineralization appears to increase | | | | | | | | | | | |
| | with depth. | | | | | | | | | | | |
| | 8.63-9.65 Extremely leached white coloured section with | | | | | | | | | | | |
| | minor hematite. | | | | | | | | | | | |
| | 10.42-11.48 Same as 8.63-9.65. | | | | | | | | | | | |
| | 13.00-18.59 Extremely leached zone very vuggy locally hematitic. | | | | | | | | | | | |
| | 26.26-26.51 Hematitic zone-highly fractured. | | | | | | | | | | | |
| | 27.44-28.60 Same as 26.26-26.51 | | | | | | | | | | | |
| | 29.76-32.57 Highly leached zone with hematitic fractures. | | | | | | | | | | | |
| | 48.59-49.17 Hematitic section. | | | | | | | | | | | |
| | 54.64-55.40 Leached hematitic section. | | | | | | | | | | | |
| | 56.50-56.79 Broken core. | | | | | | | | | | | |
| | 58.00-58.52 Leached hematitic section. | | | | | | | | | | | |
| | 59.13-61.95 Brecciated hematic section fractures parallel to core. | | | | | | | | | | | |
| | 65.83-65.91 Leached hematitic zone. | | | | | | | | | | | |
| | 69.67-70.07 Hematitic fracture parallel to core. | | | | | | | | | | | |
| | 71.60-73.09 Highly fractured section hematitic-appears to be | | | | | | | | | | | |
| | altered by late solutions. | | | | | | | | | | | |
| | 73.09-73.83 Small rhyolitic breccia section characterized by | | | | | | | | | | | |
| | rounded black mineralization surrounding a nuclei of | | | | | | | | | | | |
| | pyrite. | | | | | | | | | | | |
| | 73.83-73.97 Section altered surrounding a fracture. | | | | | | | | | | | |
| | 75.29 Fraction parallel to core. | | | | | | | | | | | |
| | 75.88-76.00 High grade pod of galena, sph, py at 15° to core axis. | | | | | | | | | | | |
| | 77.00-77.84 Highly fractured hematitic breccia section. | | | | | | | | | | | |
| | 79.00-81.30 Light grey gouge only 60 cm recovered. | | | | | | | | | | | |
| | 81.30-81.95 Highly fractured hematitic zone. | | | | | | | | | | | |
| | 82.41-84.43 " " " " | | | | | | | | | | | |
| | 84.73-85.09 " " " " | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-17-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 2 OF 3 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 86.04-86.26 | Hematitic gouge. | | | | | | | | | | | |
| 87.47-88.09 | Breccia unit-hematite altered purple in colour. | | | | | | | | | | | |
| 89.80-94.35 | Hematitic altered zone with fracturing parallel to core. | | | | | | | | | | | |
| 96.67-98.60 | same as 89.80-94.35 | | | | | | | | | | | |
| 104.15-105.09 | same as 89.80-94.35. | | | | | | | | | | | |
| 109.65-110.00 | gouge filled fracture 1cm wide parallel to core. | | | | | | | | | | | |
| 112.20-112.93 | Hematitic fractured section. | | | | | | | | | | | |
| 114.00-117.95 | as 112.20-112.93 with gouge at 116.04-116.98 and broken core at 117.34-117.54. | | | | | | | | | | | |
| 118.20-118.33 | Leached hematitic breccia unit. | | | | | | | | | | | |
| 121.00-121.38 | Hematitic zone. | | | | | | | | | | | |
| 122.12-122.49 | As above. | | | | | | | | | | | |
| 124.86-125.26 | Broken core - hematite stained. | | | | | | | | | | | |
| 125.86-126.45 | Brecciated zone fragments cemented by gouge. | | | | | | | | | | | |
| 127.10-127.19 | Gouge. | | | | | | | | | | | |
| 130.14-130.26 | Hematitic brecciated section. | | | | | | | | | | | |
| 133.29-133.37 | Brecciated fracture at 40° to core axis. | | | | | | | | | | | |
| 137.64 | High grade pod of pyrite, sph & galena 3cm in diameter. | | | | | | | | | | | |
| 139.12 | High grade pod of pyrite, sph. & galena 3cm in diameter. | | | | | | | | | | | |
| 139.96-140.01 | Hematitic section vuggy leached. | | | | | | | | | | | |
| 140.44-140.96 | Highly fractured. | | | | | | | | | | | |
| 141.12-145.30 | High grade section characterized by numerous high grade fractures of gal, sph & py. | | | | | | | | | | | |
| 145.11-145.58 | Highly fractured section-broken core. | | | | | | | | | | | |
| 149.86-150.59 | High grade zone same as 141.12-145.30. | | | | | | | | | | | |
| 154.07 | High grade sulphide filled fracture at 45° to core - sph, pyrite, galena. | | | | | | | | | | | |
| 158.92-159.66 | Highly fractured section. Broken core. | | | | | | | | | | | |
| 164.93-165.25 | High grade altered fracture at 15° to core. .5cm wide sulphide lining fracture filled with green gouge. | | | | | | | | | | | |
| 166.71 | High grade pod at 40° to core. | | | | | | | | | | | |
| 172.50-178.91 | High grade section whisps & fractures of sulphides. | | | | | | | | | | | |
| 178.71-185.96 | Section characterized by light pink bands. 1cm in width. Appear to be limelike quartz. | | | | | | | | | | | |
| 186.86-187.49 | Highly fractured section parallel to core. | | | | | | | | | | | |
| 198.16-202.14 | High grade section galena & sphalerite. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-17-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 3 OF 3 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 198.16-202.14 | 198.16-202.14 | High grade section galena & sphalerite. | | | | | | | | | | | |
| | 207.96-208.50 | Light grey gouge. | | | | | | | | | | | |
| | 209.69-220.85 | Siliceous highly fractured tuff section fractured parallel to core mostly broken core. | | | | | | | | | | | |
| | 214.70-215.23 | Light grey gouge. | | | | | | | | | | | |
| | 226.15-232.50 | Very high grade section - large amount of galena & sphalerite. | | | | | | | | | | | |
| | 231.03-231.79 | Highly fractured section. | | | | | | | | | | | |
| | 234.90-235.75 | Highly fractured section with 2cm of light green gouge at 235.50. Section from 235.50-235.75 altered to a light green. | | | | | | | | | | | |
| | 245.96-248.10 | Fracture parallel to core. Overall grade appears to be decreasing. | | | | | | | | | | | |
| | ACID TEST | 500' (152.39) = -44.0° | | | | | | | | | | | |
| | | 817' (249.01m) = -39.5° | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAROOSE | Project No.: 70113 | Depth: 817'(249.00M) | Date Began: JULY 26, 1980.
Hole No.: DDH-D-17-80 | Co ord.: 10+96W | Horizontal Length: 525.14'(160.05M) | Date Completed: JULY 28, 1980.
Sheet No.: 1 OF 3 | 2+59S | Direction: 225° | Drilled By: D. W. COATES
Claim No.: | Elevation: 1826M | Angle: -50° | Logged By: W. E. LUMLEY

| FOOTAGE METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb. | WIDTH X ASSAY | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 - 2.44 | CASING | | | | | | | | | | | | | |
| 2.44- 4.00 | NO SAMPLE | | | | | | | | | | | | | |
| 4.00- 7.00 | 8942 | 3.00 | .05 | 3.0 | .01 | .26 | .03 | | | | | | | |
| 7.00- 10.00 | 8943 | 3.00 | .10 | 6.5 | .01 | .51 | .01 | | | | | | | |
| 10.00- 13.00 | 8944 | 3.00 | .05 | 7.5 | .01 | .24 | .03 | | | | | | | |
| 13.00- 16.00 | 8945 | 3.00 | .05 | 2.5 | .01 | .02 | .04 | | | | | | | |
| 16.00- 19.00 | 8946 | 3.00 | .05 | 1.0 | .01 | .01 | .03 | | | | | | | |
| 19.00- 22.00 | 8947 | 3.00 | .15 | 6.5 | .01 | .11 | .04 | | | | | | | |
| 22.00- 25.00 | 8948 | 3.00 | .30 | 9.5 | .01 | .20 | .08 | | | | | | | |
| 25.00- 28.00 | 8949 | 3.00 | .35 | 12.0 | .01 | .11 | .17 | | | | | | | |
| 28.00- 31.00 | 8950 | 3.00 | .10 | 4.5 | .01 | .24 | .05 | | | | | | | |
| 31.00- 34.00 | 8951 | 3.00 | .05 | 3.5 | .01 | .23 | .05 | | | | | | | |
| 34.00- 37.00 | 8952 | 3.00 | .05 | 2.0 | .01 | .91 | .02 | | | | | | | |
| 37.00- 40.00 | 8953 | 3.00 | .05 | 2.5 | .01 | .76 | .02 | | | | | | | |
| 40.00- 43.00 | 8954 | 3.00 | .05 | 2.0 | .01 | .81 | .01 | | | | | | | |
| 43.00- 46.00 | 8955 | 3.00 | .15 | 3.5 | .01 | 1.02 | .03 | | | | | | | |
| 46.00- 49.00 | 8956 | 3.00 | .25 | 2.0 | .01 | .73 | .02 | | | | | | | |
| 49.00- 52.00 | 8957 | 3.00 | .15 | 8.5 | .01 | .85 | .07 | | | | | | | |
| 52.00- 55.00 | 8958 | 3.00 | .60 | 9.0 | .01 | 1.44 | .07 | | | | | | | |
| 55.00- 58.00 | 8959 | 3.00 | 1.65 | 9.5 | .01 | 1.62 | .06 | | | | | | | |
| 58.00- 61.00 | 8960 | 3.00 | .15 | 11.0 | .02 | .20 | .09 | | | | | | | |
| 61.00- 64.00 | 8961 | 3.00 | .05 | 5.5 | .01 | .18 | .06 | | | | | | | |
| 64.00- 67.00 | 8962 | 3.00 | .15 | 6.5 | .01 | .09 | .04 | | | | | | | |
| 67.00- 70.00 | 8963 | 3.00 | .05 | 9.5 | .01 | .05 | .15 | | | | | | | |
| 70.00- 73.00 | 8964 | 3.00 | .30 | 20.0 | .01 | .12 | .19 | | | | | | | |
| 73.00- 76.00 | 8965 | 3.00 | .45 | 28.0 | .01 | .20 | .41 | | | | | | | |
| 76.00- 79.00 | 8966 | 3.00 | 1.20 | 60.0 | .02 | .10 | .43 | | | | | | | |
| 79.00- 82.00 | 8967 | 3.00 | .45 | 51.0 | .02 | .10 | .32 | | | | | | | |
| 82.00- 85.00 | 8968 | 3.00 | .60 | 54.5 | .01 | .04 | .30 | | | | | | | |
| 85.00- 88.00 | 8969 | 3.00 | .40 | 34.0 | .01 | .02 | .38 | | | | | | | |
| 88.00- 91.00 | 8970 | 3.00 | .35 | 21.5 | .01 | .05 | .21 | | | | | | | |
| 91.00- 94.00 | 8971 | 3.00 | .45 | 36.0 | .01 | .02 | .33 | | | | | | | |
| 94.00- 97.00 | 8972 | 3.00 | .83 | 74.0 | .01 | .16 | .36 | | | | | | | |
| 97.00-100.00 | 8973 | 3.00 | .90 | 77.0 | .02 | .15 | .41 | | | | | | | |
| 100.00-103.00 | 8974 | 3.00 | .30 | 24.5 | .01 | .11 | .14 | | | | | | | |
| 103.00-106.00 | 8975 | 3.00 | .85 | 28.0 | .01 | .04 | .16 | | | | | | | |
| 106.00-109.00 | 8976 | 3.00 | .15 | 20.5 | .01 | .11 | .12 | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 817' (249.00M) | Date Began: JULY 26, 1980.

Hole No.: DDH-D-17-80 | Co ord. | Horizontal Length: 525.14' (160.05M) | Date Completed

Sheet No.: 2 OF 3 | Direction: 225° | Drilled By: D. W. COATES

Claim No. | Elevation | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FROM~~ ~~TO~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109.00-112.00 | 8977 | 3.00 | .15 | 17.5 | .01 | .07 | .10 | | | | | | | | | | | | | |
| 112.00-115.00 | 8978 | 3.00 | .05 | 6.0 | .01 | .03 | .07 | | | | | | | | | | | | | |
| 115.00-118.00 | 8979 | 3.00 | .05 | 4.0 | .01 | .01 | .03 | | | | | | | | | | | | | |
| 118.00-121.00 | 8980 | 3.00 | .10 | 5.5 | .01 | .01 | .07 | | | | | | | | | | | | | |
| 121.00-124.00 | 8981 | 3.00 | .05 | 4.0 | .02 | .02 | .09 | | | | | | | | | | | | | |
| 124.00-127.00 | 8982 | 3.00 | .15 | 9.5 | .01 | .02 | .11 | | | | | | | | | | | | | |
| 127.00-130.00 | 8983 | 3.00 | .05 | 4.0 | .01 | .07 | .03 | | | | | | | | | | | | | |
| 130.00-133.00 | 8984 | 3.00 | .15 | 8.5 | .01 | .23 | .07 | | | | | | | | | | | | | |
| 133.00-136.00 | 8985 | 3.00 | .10 | 7.5 | .01 | .17 | .03 | | | | | | | | | | | | | |
| 136.00-139.00 | 8986 | 3.00 | .05 | 8.0 | .01 | .28 | .04 | | | | | | | | | | | | | |
| 139.00-142.00 | 8987 | 3.00 | .45 | 13.0 | .02 | .15 | .06 | | | | | | | | | | | | | |
| 142.00-145.00 | 8988 | 3.00 | .10 | 4.5 | .01 | .15 | .06 | | | | | | | | | | | | | |
| 145.00-148.00 | 8989 | 3.00 | .05 | 2.5 | .01 | .14 | .03 | | | | | | | | | | | | | |
| 148.00-151.00 | 8990 | 3.00 | .05 | 1.5 | .01 | .15 | .03 | | | | | | | | | | | | | |
| 151.00-154.00 | 8991 | 3.00 | .10 | 6.5 | .01 | .30 | .03 | | | | | | | | | | | | | |
| 154.00-157.00 | 8992 | 3.00 | .10 | 8.0 | .01 | .46 | .06 | | | | | | | | | | | | | |
| 157.00-160.00 | 8993 | 3.00 | .10 | 9.5 | .01 | .28 | .07 | | | | | | | | | | | | | |
| 160.00-163.00 | 8994 | 3.00 | .10 | 6.0 | .01 | .21 | .04 | | | | | | | | | | | | | |
| 163.00-166.00 | 8995 | 3.00 | .10 | 6.5 | .01 | .22 | .03 | | | | | | | | | | | | | |
| 166.00-169.00 | 8996 | 3.00 | .10 | 11.0 | .01 | .29 | .09 | | | | | | | | | | | | | |
| 169.00-172.00 | 8997 | 3.00 | .05 | 6.0 | .01 | .15 | .04 | | | | | | | | | | | | | |
| 172.00-175.00 | 8998 | 3.00 | .05 | 8.5 | .01 | .13 | .04 | | | | | | | | | | | | | |
| 175.00-178.00 | 8999 | 3.00 | .40 | 40.0 | .01 | .50 | .30 | | | | | | | | | | | | | |
| 178.00-181.00 | 9000 | 3.00 | .15 | 22.5 | .01 | .49 | .21 | | | | | | | | | | | | | |
| 181.00-184.00 | 9001 | 3.00 | .20 | 24.5 | .01 | .20 | .34 | | | | | | | | | | | | | |
| 184.00-187.00 | 9002 | 3.00 | .25 | 32.0 | .02 | .63 | .34 | | | | | | | | | | | | | |
| 187.00-190.00 | 9003 | 3.00 | .20 | 42.0 | .02 | .54 | .46 | | | | | | | | | | | | | |
| 190.00-193.00 | 9004 | 3.00 | .25 | 37.5 | .02 | .58 | .34 | | | | | | | | | | | | | |
| 193.00-196.00 | 9005 | 3.00 | .30 | 39.0 | .02 | .41 | .29 | | | | | | | | | | | | | |
| 196.00-199.00 | 9006 | 3.00 | .45 | 47.0 | .03 | .70 | .34 | | | | | | | | | | | | | |
| 199.00-202.00 | 9007 | 3.00 | .55 | 61.0 | .04 | 1.34 | .41 | | | | | | | | | | | | | |
| 202.00-205.00 | 9008 | 3.00 | .35 | 56.0 | .03 | 1.86 | .39 | | | | | | | | | | | | | |
| 205.00-208.00 | 9009 | 3.00 | .05 | 8.5 | .01 | .16 | .05 | | | | | | | | | | | | | |
| 208.00-211.00 | 9010 | 3.00 | .10 | 15.5 | .01 | .24 | .11 | | | | | | | | | | | | | |
| 211.00-214.00 | 9011 | 3.00 | .10 | 11.0 | .01 | .10 | .34 | | | | | | | | | | | | | |
| 214.00-217.00 | 9012 | 3.00 | .25 | 27.0 | .01 | .25 | .31 | | | | | | | | | | | | | |
| 217.00-220.00 | 9013 | 3.00 | .10 | 8.0 | .01 | .10 | .05 | | | | | | | | | | | | | |
| 220.00-223.00 | 9014 | 3.00 | .10 | 7.0 | .01 | .13 | .03 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No. 70113 | Depth 817'(249.00M) | Date Began JULY 26, 1980.
Hole No. DDH-D-17-80 | Co ord. | Horizontal Length 525.14'(160.05M) | Date Completed JULY 28, 1980
Sheet No. 3 OF 3 | Direction 225° | Drilled By. D. W. COATES
Claim No. | Elevation | Angle -50° | Logged By. W. E. LUMLEY

| ~~XBOOXDAGEX~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 223.00-226.00 | 9015 | 3.00 | .20 | 17.0 | .01 | .18 | .10 | | | | | | | | | | | | | |
| 226.00-229.00 | 9016 | 3.00 | .05 | 4.5 | .01 | .10 | .02 | | | | | | | | | | | | | |
| 229.00-232.00 | 9017 | 3.00 | .10 | 5.0 | .01 | .12 | .04 | | | | | | | | | | | | | |
| 232.00-235.00 | 9018 | 3.00 | .05 | 2.5 | .01 | .18 | .04 | | | | | | | | | | | | | |
| 235.00-238.00 | 9019 | 3.00 | .05 | 3.0 | .01 | .07 | .05 | | | | | | | | | | | | | |
| 238.00-241.00 | 9020 | 3.00 | .05 | 4.5 | .01 | .09 | .07 | | | | | | | | | | | | | |
| 241.00-244.00 | 9021 | 3.00 | .05 | 6.0 | .01 | .16 | .09 | | | | | | | | | | | | | |
| 244.00-247.00 | 9022 | 3.00 | .05 | 3.5 | .01 | .19 | .04 | | | | | | | | | | | | | |
| 247.00-249.00 | 9023 | 3.00 | .05 | 6.0 | .01 | .10 | .07 | | | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 237'(72.23M) 154.23' 46.53m | Date Began: JULY 28, 1980.
Hole No.: DDH-D-18-80 | Co ord.: 10+91W | Horizontal Length: 152.34'(46.63M) | Date Completed: JULY 29, 1980.
Sheet No.: 1 OF 2 | 2+57S | Direction: 045° | Drilled By: D. W. COATES
Claim No. | Elevation: 1826M | Angle: -50° | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | % REC'Y CALC'D. |
|---|---|---|---|---|
| 0.00- 1.22 | CASING | | | |
| 1.22- 5.38 | Rhyolitic Tuff - continuation of mineralized zone found in DDH-D-17-80. It is leached & weathered and is consistent with what was found in the top of D-17. The unit, however, becomes more siliceous as the hole deepens. | | | |
| 5.38-43.90 | Intensely altered silicified Rhyolite Breccia unit-Extensive fracturing with hematitic alteration kaolinization weak to non-existent. The entire rock appears reworked with intense garnetization occurring along flow bands. Some minor sulphides evident, but not of high grade. | | | |
| | 5.38-11.48 Section characterized by a vuggy texture. Sulphides and/or garnets leached or weathered out. Extensive hematization along fractures especially at 8.50-8.79 where fracture parallels core. | | | |
| | Leached section 11.03-11.48 | | | |
| | 11.48-28.05 Section similar to above, but colouring more sulphides. Sulphides in vuggs & along flow bands which are from 0°-60° to core. | | | |
| | 17.00-17.37 Sulphide rich section. | | | |
| | 28.05-29.20 Zone of intense silicification white in colour. Fractures are parallel to core and lined with hematite. | | | |
| | 30.06-30.64 Zone of breccia -fragments well displayed in matrix of cherty material. | | | |
| | 30.64-33.69 Massive section-chert like rhyolite dykes flow banding at 65° to core axis. | | | |
| | 32.31 fracture at 20° to core filled with hematite & very minor sulphides. | | | |
| | 33.69-35.94 Zone of intense silicification-total obliteration of structure & texture. Very evident solution fronts where silica has been injected. Photo taken of section. | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-18-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 2 OF 2 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 35.94-43.90 "Mottled" breccia zone intensely silicified fragments appear as ghosts. Some very minor hematitic alteration. | | | | | | | | | | | |
| | 40.94-41.16 leached hematitic section-minor kaolinitization vuggy after sulphides. | | | | | | | | | | | |
| 43.90-46.96 | Black Andesite - aphanitic typical andesite with upper contact at 90° to core. Appears as a dyke on surface. | | | | | | | | | | | |
| 46.96-72.23 | Light to dark grey fresh Rhyolite dyke with flow banding at 60° to core axis-some pervasive garnetization appears both as rounded black garnets and as small light red spheres. There appears to be some kaolinitization and mineralization (black in colour) forming haloes around a nuclei of pyrite. Grades very low, but unit is going to be sampled. | | | | | | | | | | | |
| | 56.58-57.31 Highly fractured hematitic. | | | | | | | | | | | |
| | 57.31-60.93 White to light grey-Rhyolite speckled with minute pink garnets. Some hematite filled fractures. | | | | | | | | | | | |
| | 60.93-61.81 Dark grey section speckled with pink garnets Some sulphide nuclei evident. | | | | | | | | | | | |
| | 61.81-72.25 Similar to 57.31-60.93, but more altered appears weakly kaolinized & garnetized with a mottled spotted texture. Some sulphide vugs around nuclei pyrite. | | | | | | | | | | | |
| | 63.94-64.84 Zoned intense garnetization. | | | | | | | | | | | |
| | 66.14-68.40 Relatively barren fresh section fractured with fractures parallel to core. | | | | | | | | | | | |
| | 68.40-72.25 Kaolinized haloes evident around sulphide nuclei. | | | | | | | | | | | |
| | END OF HOLE - CLOSED BECAUSE OF LOW GRADE | | | | | | | | | | | |
| | ACID TEST 237' (72.23 m) = -45 5° | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 237' (72.23M) | Date Began: JULY 28, 1980.
Hole No.: DDH-D-18-80 | Co ord.: 10+91W | Horizontal Length: 152.33' (46.43M) | Date Completed: JULY 29, 1980.
Sheet No.: 1 OF 1 | 2+57S | Direction: 045° | Drilled By: D. W. COATES
Claim No.: | Elevation: | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 - 2.00 | NO SAMPLES | | | | | | | | | | | | | | | | | | | |
| 2.00- 5.00 | 9024 | 3.00 | .05 | 4.0 | .01 | .11 | .03 | | | | | | | | | | | | | |
| 5.00- 8.00 | 9025 | 3.00 | .05 | 3.0 | .01 | .02 | .03 | | | | | | | | | | | | | |
| 8.00-11.00 | 9026 | 3.00 | .05 | 8.0 | .01 | .01 | .07 | | | | | | | | | | | | | |
| 11.00-14.00 | 9027 | 3.00 | .05 | 5.5 | .01 | .01 | .04 | | | | | | | | | | | | | |
| 14.00-17.00 | 9028 | 3.00 | .05 | 4.0 | .01 | .01 | .03 | | | | | | | | | | | | | |
| 17.00-20.00 | 9029 | 3.00 | .05 | 7.0 | .01 | .02 | .08 | | | | | | | | | | | | | |
| 20.00-23.00 | 9030 | 3.00 | .05 | 4.0 | .01 | .01 | .04 | | | | | | | | | | | | | |
| 23.00-26.00 | 9031 | 3.00 | .05 | 4.5 | .01 | .01 | .03 | | | | | | | | | | | | | |
| 26.00-29.00 | 9032 | 3.00 | .05 | 3.0 | .01 | .01 | .02 | | | | | | | | | | | | | |
| 29.00-32.00 | 9033 | 3.00 | .05 | 3.5 | .01 | .06 | .01 | | | | | | | | | | | | | |
| 32.00-35.00 | 9034 | 3.00 | .05 | 2.5 | .01 | .10 | .02 | | | | | | | | | | | | | |
| 35.00-38.00 | 9035 | 3.00 | .05 | 6.0 | .01 | .08 | .01 | | | | | | | | | | | | | |
| 38.00-41.00 | 9036 | 3.00 | .05 | 3.5 | .01 | .07 | .02 | | | | | | | | | | | | | |
| 41.00-44.00 | 9037 | 3.00 | .05 | 2.5 | .01 | .01 | .02 | | | | | | | | | | | | | |
| 44.00-47.00 | 9038 | 3.00 | .05 | 2.0 | .01 | .11 | .01 | | | | | | | | | | | | | |
| 47.00-50.00 | 9039 | 3.00 | .05 | 4.0 | .01 | .12 | .01 | | | | | | | | | | | | | |
| 50.00-53.00 | 9040 | 3.00 | .05 | 6.0 | .01 | .13 | .04 | | | | | | | | | | | | | |
| 53.00-56.00 | 9041 | 3.00 | .05 | 12.0 | .01 | .23 | .10 | | | | | | | | | | | | | |
| 56.00-59.00 | 9042 | 3.00 | .05 | 7.0 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 59.00-62.00 | 9043 | 3.00 | .05 | 8.5 | .01 | .07 | .06 | | | | | | | | | | | | | |
| 62.00-65.00 | 9044 | 3.00 | .05 | 6.0 | .01 | .03 | .01 | | | | | | | | | | | | | |
| 65.00-68.00 | 9045 | 3.00 | .05 | 11.0 | .01 | .05 | .07 | | | | | | | | | | | | | |
| 68.00-71.00 | 9046 | 3.00 | .05 | 9.0 | .01 | .10 | .06 | | | | | | | | | | | | | |
| 71.00-72.23 | 9047 | 1.23 | .05 | 5.0 | .01 | .27 | .04 | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 669' (203.90M) | Date Began: JULY 30, 1980
Hole No.: DDH-D-19-80 | Co ord.: 11+92W | Horizontal Length: 418.79' (127.64m) | Date Completed: AUGUST 3, 1980
Sheet No.: 1 OF 3 | 3+62S | Direction: 225° | Drilled By: D. W. COATES
Claim No.: | Elevation: 1818 | Angle: -50° | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00- 1.83 | CASING | | | | | | | | | | | |
| 1.83- 3.02 | Rhyolite Tuff Unit light grey in colour very weathered & kaolinized. | | | | | | | | | | | |
| 3.02- 24.56 | Andesite - typical black to very dark grey in colour. mineralized with pyrite appears kaolinized also barren. | | | | | | | | | | | |
| 24.56-203.90 | Rhyolite Breccia with interbedded Rhyolite Tuff. Appears as kaolinized as in DDH-D-17. Both units are more siliceous. Mineralization is weak & nonexistent in the upper unit with mineralization increasing with depth. The entire lower section appears quite well mineralized with pyrite, sphalerite, galena, cpy and arsenopyrite occurring as dissemination throughout the core. | | | | | | | | | | | |
| | 24.56-50.94 Breccia unit-fine fragments up to 2 cm in width cemented on a tuffaceous matrix. Unit is quite siliceous and somewhat leached in the upper section becoming fresher with depth-generally unit is uniform throughout. | | | | | | | | | | | |
| | 24.56-31.60 very heavily leached, vuggy & hematitic. | | | | | | | | | | | |
| | 34.40-34.75 flow banding at 90° to core. | | | | | | | | | | | |
| | 35.66 limonite lined fracture. | | | | | | | | | | | |
| | 35.75-38.71 fresh unaltered breccia section. Mineralized with garnets, sphalerite & minor pyrite & galena. | | | | | | | | | | | |
| | 38.71-40.40 zone of hematitization-fracture parallel to core. | | | | | | | | | | | |
| | 45.04-45.60 hematitic zone alteration 1cm either side of fractures aligned at 20° to 40° to core. | | | | | | | | | | | |
| | 50.94-111.48 Very siliceous Rhyolite Tuff unit dark to light grey in colour. It is noted that as the silica composition increases, the colour darkens and the mineralization also decreases. Overall, this unit appears barren except for the extreme upper section. It is quite uniform in texture & structure with no distinguishing feature. | | | | | | | | | | | |
| | 69.00- 69.71 hematitic section-highly fractured. | | | | | | | | | | | |
| | 78.02- 78.31 " " " " | | | | | | | | | | | |
| | 91.72- 91.81 " " " " unit becoming dark grey in colour & more siliceous. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth | Date Began
Hole No.: DDH-D-19-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 2 OF 3 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 111.48-203.29 Altered Rhyolite Breccia-unit is kaolinized & very well mineralized with cpy, sph. py, garnet and minor galena. Also present are arsenopyrite crystals pseudotetragonal in shape. Again unit is uniform in composition & texture. Same unit as ore zone of D-9. | | | | | | | | | | | |
| | 111.48-114.14 Very high grade zone cpy, sphal, arsenopyrite & pyrite & other mineralization unidentified as of yet. Best cpy seen to date. | | | | | | | | | | | |
| | 114.14-123.60 lower amount of cpy, but still high grade. | | | | | | | | | | | |
| | 123.60-129.74 definitely of lower grade section-mineralization not as prevalent. | | | | | | | | | | | |
| | 129.74 Blebs of cpy at 45° to core. | | | | | | | | | | | |
| | 130.53-131.34 Highly fractured hematitic zone. | | | | | | | | | | | |
| | 131.34-141.00 Wavy bands of mineralization at 40° to core. | | | | | | | | | | | |
| | 137.24 3cm wide fracture at 45° to core-cpy, sph. | | | | | | | | | | | |
| | 137.53 as above 1cm wide. | | | | | | | | | | | |
| | 141.00-160.07 generally weakly mineralized section especially in upper part mineralization appears to be increasing with depth. | | | | | | | | | | | |
| | 141.00-149.85 garnet rich section giving core a spotted effect. | | | | | | | | | | | |
| | 154.47 3cm wide vein of sphal, cpy. & pyrite. | | | | | | | | | | | |
| | 160.07-203.29 This section appears quite well mineralized rich in disseminated sulphides with local areas having a "spotted" texture, the result of dendrite & blebs of sulphide rich chlorite. | | | | | | | | | | | |
| | 163.70 large pod of sulphides appears to be a replacement of a fragment. | | | | | | | | | | | |
| | 166.72-168.24 Broken core. | | | | | | | | | | | |
| | 168.24-172.24 Well mineralized zone mineralization goes from disseminated at the upper section to dendrite texture in the lower section. | | | | | | | | | | | |
| | 183.00-186.00 Same as above, but appears higher grade. | | | | | | | | | | | |
| | 186.19-186.45 Broken core. | | | | | | | | | | | |
| | 186.49-203.90 Grade is very good and appears to slightly decrease at bottom of hole. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-19-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 3 OF 3 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 188.48-189.00 fracturing parallel to core. | | | | | | | | | | | |
| | 191.79 1cm wide gouge filled fracture. | | | | | | | | | | | |
| | 192.00-192.15 white pyritic gouge. | | | | | | | | | | | |
| | 194.35-195.27 fracture parallel to core. | | | | | | | | | | | |
| | ACID TEST 510 (155.44m) = -52° | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 669(203.29M) | Date Began: JULY 30, 1980.
Hole No.: DDH-D-19-80 | Co ord.: 11+92W | Horizontal Length: 430'(130.67M) | Date Completed: AUGUST 3, 1980.
Sheet No.: 1. OF. 2 | 3+62S | Direction: 225° | Drilled By: D.W. COATES
Claim No.: | Elevation: | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 - 1.83 | CASING | | | | | | | | | | | | | | | | | | | |
| 1.83- 24.56 | WASTE | | | | | | | | | | | | | | | | | | | |
| 24.56- 27.00 | 9048 | 2.44 | .10 | 11.0 | .01 | .02 | .07 | | | | | | | | | | | | | |
| 27.00- 30.00 | 9049 | 3.00 | .15 | 13.0 | .01 | .01 | .16 | | | | | | | | | | | | | |
| 30.00- 33.00 | 9050 | 3.00 | .15 | 14.5 | .01 | .01 | .11 | | | | | | | | | | | | | |
| 33.00- 36.00 | 9051 | 3.00 | .20 | 23.0 | .01 | .01 | .09 | | | | | | | | | | | | | |
| 36.00- 39.00 | 9052 | 3.00 | .18 | 17.5 | .03 | .03 | .08 | | | | | | | | | | | | | |
| 39.00- 42.00 | 9053 | 3.00 | .05 | 2.5 | .01 | .03 | .01 | | | | | | | | | | | | | |
| 42.00- 45.00 | 9054 | 3.00 | .10 | 16.0 | .01 | .01 | .04 | | | | | | | | | | | | | |
| 45.00- 48.00 | 9055 | 3.00 | .15 | 16.5 | .01 | .01 | .06 | | | | | | | | | | | | | |
| 48.00- 51.00 | 9056 | 3.00 | .10 | 22.0 | .05 | .01 | .13 | | | | | | | | | | | | | |
| 51.00- 54.00 | 9057 | 3.00 | .15 | 30.5 | .17 | .01 | .07 | | | | | | | | | | | | | |
| 54.00- 57.00 | 9058 | 3.00 | .10 | 14.5 | .08 | .02 | .03 | | | | | | | | | | | | | |
| 57.00- 60.00 | 9059 | 3.00 | .10 | 11.0 | .03 | .02 | .04 | | | | | | | | | | | | | |
| 60.00- 63.00 | 9060 | 3.00 | .05 | 3.0 | .01 | .03 | .01 | | | | | | | | | | | | | |
| 63.00- 66.00 | 9061 | 3.00 | .05 | 5.0 | .01 | .18 | .01 | | | | | | | | | | | | | |
| 66.00- 69.00 | 9062 | 3.00 | .05 | 3.5 | .01 | .13 | .02 | | | | | | | | | | | | | |
| 69.00- 72.00 | 9063 | 3.00 | .05 | 5.5 | .01 | .07 | .02 | | | | | | | | | | | | | |
| 72.00- 75.00 | 9064 | 3.00 | .10 | 6.0 | .01 | .16 | .05 | | | | | | | | | | | | | |
| 75.00- 78.00 | 9065 | 3.00 | .10 | 4.5 | .01 | .07 | .04 | | | | | | | | | | | | | |
| 78.00- 81.00 | 9066 | 3.00 | .10 | 5.0 | .01 | .10 | .04 | | | | | | | | | | | | | |
| 81.00- 84.00 | 9067 | 3.00 | .10 | 4.0 | .01 | .16 | .03 | | | | | | | | | | | | | |
| 84.00- 87.00 | 9068 | 3.00 | .10 | 6.0 | .01 | .17 | .04 | | | | | | | | | | | | | |
| 87.00- 90.00 | 9069 | 3.00 | .20 | 14.0 | .01 | .17 | .17 | | | | | | | | | | | | | |
| 90.00- 93.00 | 9070 | 3.00 | .30 | 12.5 | .01 | .15 | .10 | | | | | | | | | | | | | |
| 93.00- 96.00 | 9071 | 3.00 | .15 | 5.0 | .01 | .17 | .03 | | | | | | | | | | | | | |
| 96.00- 99.00 | 9072 | 3.00 | .25 | 6.5 | .01 | .08 | .08 | | | | | | | | | | | | | |
| 99.00-102.00 | 9073 | 3.00 | .20 | 5.5 | .01 | .07 | .02 | | | | | | | | | | | | | |
| 102.00-105.00 | 9074 | 3.00 | .35 | 7.0 | .01 | .06 | .05 | | | | | | | | | | | | | |
| 105.00-108.00 | 9075 | 3.00 | .35 | 5.0 | .01 | .05 | .01 | | | | | | | | | | | | | |
| 108.00-111.00 | 9076 | 3.00 | .20 | 5.5 | .01 | .01 | .02 | | | | | | | | | | | | | |
| 111.00-114.00 | 9077 | 3.00 | 1.20 | 134.0 | .63 | .07 | .05 | | | | | | | | | | | | | |
| 114.00-117.00 | 9078 | 3.00 | .30 | 132.0 | .58 | .11 | .06 | | | | | | | | | | | | | |
| 117.00-120.00 | 9079 | 3.00 | .15 | 48.5 | .19 | .16 | .02 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 669(203.29M) | Date Began: JULY 30, 1980
Hole No.: DDH-D-19-80 | Co ord. | Horizontal Length: 430(130.67M) | Date Completed: AUGUST 3, 1980
Sheet No.: 2 OF 2 | Direction: 225° | Drilled By: D. W. COATES
Claim No. | Elevation | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 120.00-123.00 | 9080 | 3.00 | .35 | 49.0 | .24 | .15 | .02 | | | | | | | | | | | | | |
| 123.00-126.00 | 9081 | 3.00 | .20 | 17.5 | .02 | .13 | .02 | | | | | | | | | | | | | |
| 126.00-129.00 | 9082 | 3.00 | .10 | 7.5 | .04 | .01 | .01 | | | | | | | | | | | | | |
| 129.00-132.00 | 9083 | 3.00 | .20 | 43.0 | .52 | .09 | .03 | | | | | | | | | | | | | |
| 132.00-135.00 | 9084 | 3.00 | .10 | 20.0 | .35 | .09 | .02 | | | | | | | | | | | | | |
| 135.00-138.00 | 9085 | 3.00 | .15 | 16.5 | .46 | .38 | .04 | | | | | | | | | | | | | |
| 138.00-141.00 | 9086 | 3.00 | .15 | 13.0 | .50 | .26 | .04 | | | | | | | | | | | | | |
| 141.00-144.00 | 9087 | 3.00 | .05 | 4.0 | .10 | .04 | .02 | | | | | | | | | | | | | |
| 144.00-147.00 | 9088 | 3.00 | .10 | 3.5 | .23 | .15 | .02 | | | | | | | | | | | | | |
| 147.00-150.00 | 9089 | 3.00 | .10 | 7.5 | .14 | .16 | .03 | | | | | | | | | | | | | |
| 150.00-153.00 | 9090 | 3.00 | .20 | 14.5 | .26 | .06 | .02 | | | | | | | | | | | | | |
| 153.00-156.00 | 9091 | 3.00 | .25 | 28.0 | .32 | .07 | .09 | | | | | | | | | | | | | |
| 156.00-159.00 | 9092 | 3.00 | .20 | 18.0 | .31 | .07 | .02 | | | | | | | | | | | | | |
| 159.00-162.00 | 9093 | 3.00 | .20 | 19.0 | .24 | .22 | .04 | | | | | | | | | | | | | |
| 162.00-165.00 | 9094 | 3.00 | .20 | 30.5 | .38 | .38 | .07 | | | | | | | | | | | | | |
| 165.00-168.00 | 9095 | 3.00 | .20 | 43.0 | .49 | .44 | .06 | | | | | | | | | | | | | |
| 168.00-171.00 | 9096 | 3.00 | .15 | 41.0 | .44 | .23 | .07 | | | | | | | | | | | | | |
| 171.00-174.00 | 9097 | 3.00 | .15 | 29.0 | .16 | .18 | .08 | | | | | | | | | | | | | |
| 174.00-177.00 | 9098 | 3.00 | .10 | 25.0 | .21 | .12 | .03 | | | | | | | | | | | | | |
| 177.00-180.00 | 9099 | 3.00 | .15 | 42.0 | .21 | .17 | .07 | | | | | | | | | | | | | |
| 180.00-183.00 | 9100 | 3.00 | .20 | 33.0 | .13 | .11 | .06 | | | | | | | | | | | | | |
| 183.00-186.00 | 9101 | 3.00 | .25 | 76.0 | .09 | .38 | .23 | | | | | | | | | | | | | |
| 186.00-189.00 | 9102 | 3.00 | .35 | 56.5 | .23 | .12 | .14 | | | | | | | | | | | | | |
| 189.00-192.00 | 9103 | 3.00 | .15 | 35.0 | .03 | .14 | .04 | | | | | | | | | | | | | |
| 192.00-195.00 | 9104 | 3.00 | .15 | 26.0 | .08 | .15 | .01 | | | | | | | | | | | | | |
| 195.00-198.00 | 9105 | 3.00 | .20 | 29.5 | .05 | .12 | .02 | | | | | | | | | | | | | |
| 198.00-201.00 | 9106 | 3.00 | .35 | 56.0 | .19 | .14 | .02 | | | | | | | | | | | | | |
| 201.00-203.29 | 9107 | 2.29 | .35 | 37.5 | .10 | .14 | .01 | | | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

| | | | | | |
|---|---|---|---|---|---|
| Property: CAPOOSE | Project No.: 70113 | Depth: 560' (170.68M) | | Date Began: AUGUST 4, 1980. | |
| Hole No.: DDH-D-20-80 | Co ord.: 12+90W | Horizontal Length: 280.20' | (85.40 m) | Date Completed: AUGUST 6, 1980. | |
| Sheet No.: 1 OF 2 | 4+86S | Direction: 225° | | Drilled By: D. W. COATES | |
| Claim No.: | Elevation: 1790 | Angle: ~~560~~ 65° | | Logged By: W. E. LUMLEY | |

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | % REC'Y CALC'D. |
|---|---|---|---|---|
| 0.00- 9.14 | CASING | | | |
| 9.14- 45.15 | Weathered leached & highly fractured-hematitic siliceous Rhyolitic Tuff. Mostly broken core in upper section. Entire unit uniform with no variation in structure or texture. Lower contact is sharp. at 30° | | | |
| 45.15-170.68 | Light to dark grey medium grained Rhyolite Tuff & Breccia uniform in nature mineralized with large amount Pyrite and arsenopyrite crystals. Addition sulphides are restricted to fine disseminated blebs giving the core a spotty texture. | | | |
| | 45.15-52.86 moderately mineralized with pyrite and arsenopyrite. | | | |
| | 52.86-53.19 fractured zone with hematite lined fracture parallel to core. | | | |
| | 54.01-54.14 fracture with hematitic alteration 1cm each side of fracture. | | | |
| | 55.04-55.14 Hematite stained section. | | | |
| | 55.37-55.78 Siliceous weakly mineralized section. | | | |
| | 56.60 1cm wide arsenopyrite vein. | | | |
| | 57.45-57.85 Hematite lined fracture at 10° to core | | | |
| | 59.45 .5cm wide fracture at 40° to core mineralized with sphalerite, pyrite. | | | |
| | 60.00-63.25 unit spotty with sulphides & chlorite spots. | | | |
| | 63.25-66.14 unit well mineralized with pyrite & sulphides. | | | |
| | 66.39 Hematite altered-fractured at 10° to core. | | | |
| | 69.57-72.40 well mineralized zone pyrite & arsenopyrite. | | | |
| | 72.80-81.38 as above 69.57-72.40 | | | |
| | 81.38-138.00 Uniformly weakly mineralized zone with some well mineralized zone. | | | |
| | 86.10-86.57 hematitic zone with hematite & talc filled fractures. | | | |
| | 86.03-87.17 as above. | | | |
| | 90.33 1cm wide py rich fracture. | | | |
| | 98.80-99.20 fracture at 10° to core. | | | |
| | 99.40-99.90 high grade zone py,sph & minor galena. | | | |
| | 102.64-102.96 fracture hematitic at 40° to core. | | | |
| | 109.26 fracture filled with sulphides at 40° to core. | | | |
| | 110.62 .1cm wide fracture of pyrite. | | | |
| | 110.79-114.00 section rich in numerous pods of pyrite, cpy, arsenopy & minor sulphides. | | | |
| | 116.30 fracture at 20° to core. | | | |
| | 116.30-122.36 zone similar to 110.79-114.00 | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-20-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 2 OF 2 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 124.54-124.85 fracture parallel to core. | | | | | | | | | | | |
| | 134.25 1cm wide pyrite filled fracture at 20° to core | | | | | | | | | | | |
| | 136.43 .5cm wide pyrite filled fracture at 40° to core | | | | | | | | | | | |
| | 138.00-140.30 dark olive green mineralized fault gouge | | | | | | | | | | | |
| | 140.30-172.51 grade definitely decreasing as hole deepens | | | | | | | | | | | |
| | overall mineralization is weak occurring along flow banding at 50° to core. | | | | | | | | | | | |
| | 146.30-149.33 highly fractured & broken core. | | | | | | | | | | | |
| | 159.96-160.00 olive green fault gouge. | | | | | | | | | | | |
| | ACID TEST: 543 (165.50m) = -55° | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 566'(172.51M) | Date Began: AUGUST 4, 1980

Hole No.: DDH-D-20-80 | Co ord.: 12+90W | Horizontal Length: | Date Completed: AUGUST 6, 1980

Sheet No.: 1 OF 2 | 4+86S | Direction: 225 | Drilled By: D. W. COATES

Claim No.: | Elevation: 1790 | Angle: -65° | Logged By: W. E. LUMLEY

| ~~BOOKAGE~~ METER | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb. | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 - 4.42 | CASING | 4.42 | | | | | | | | | | | | | | | | | | |
| 4.42- 15.00 | WASTE | 15.00 | | | | | | | | | | | | | | | | | | |
| 15.00- 18.00 | 9108 | 3.00 | .10 | 8.0 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 18.00- 21.00 | 9109 | 3.00 | .10 | 7.0 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 21.00- 24.00 | 9110 | 3.00 | .10 | 4.5 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 24.00- 27.00 | 9111 | 3.00 | .05 | 3.5 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 27.00- 30.00 | 9112 | 3.00 | .05 | 3.5 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 30.00- 33.00 | 9113 | 3.00 | .10 | 9.0 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 33.00- 36.00 | 9114 | 3.00 | .05 | 8.5 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 36.00- 39.00 | 9115 | 3.00 | .10 | 20.5 | .01 | .01 | .02 | | | | | | | | | | | | | |
| 39.00- 42.00 | 9116 | 3.00 | .05 | 14.0 | .01 | .01 | .02 | | | | | | | | | | | | | |
| 42.00- 45.00 | 9117 | 3.00 | .15 | 18.0 | .01 | .01 | .04 | | | | | | | | | | | | | |
| 42.00- 48.00 | 9118 | 3.00 | .15 | 20.0 | .09 | .01 | .02 | | | | | | | | | | | | | |
| 48.00- 51.00 | 9119 | 3.00 | .10 | 16.0 | .15 | .01 | .02 | | | | | | | | | | | | | |
| 51.00- 54.00 | 9120 | 3.00 | .10 | 15.5 | .08 | .01 | .02 | | | | | | | | | | | | | |
| 54.00- 57.00 | 9121 | 3.00 | .05 | 30.0 | .10 | .01 | .02 | | | | | | | | | | | | | |
| 57.00- 60.00 | 9122 | 3.00 | .05 | 23.0 | .12 | .02 | .03 | | | | | | | | | | | | | |
| 60.00- 63.00 | 9123 | 3.00 | .10 | 11.0 | .09 | .01 | .01 | | | | | | | | | | | | | |
| 63.00- 66.00 | 9124 | 3.00 | .20 | 35.5 | .22 | .04 | .02 | | | | | | | | | | | | | |
| 66.00- 69.00 | 9125 | 3.00 | .15 | 27.5 | .21 | .06 | .02 | | | | | | | | | | | | | |
| 69.00- 72.00 | 9126 | 3.00 | .25 | 29.0 | .09 | .01 | .04 | | | | | | | | | | | | | |
| 72.00- 75.00 | 9127 | 3.00 | .60 | 31.0 | .11 | .01 | .03 | | | | | | | | | | | | | |
| 75.00- 78.00 | 9128 | 3.00 | .85 | 27.0 | .07 | .04 | .02 | | | | | | | | | | | | | |
| 78.00- 81.00 | 9129 | 3.00 | 1.15 | 18.0 | .06 | .04 | .01 | | | | | | | | | | | | | |
| 81.00- 84.00 | 9130 | 3.00 | 1.80 | 35.0 | .10 | .07 | .03 | | | | | | | | | | | | | |
| 84.00- 87.00 | 9131 | 3.00 | 1.20 | 22.0 | .11 | .09 | .02 | | | | | | | | | | | | | |
| 87.00- 90.00 | 9132 | 3.00 | 2.90 | 55.5 | .37 | .07 | .03 | | | | | | | | | | | | | |
| 90.00- 93.00 | 9133 | 3.00 | 1.75 | 46.5 | .46 | .15 | .01 | | | | | | | | | | | | | |
| 93.00- 96.00 | 9134 | 3.00 | 1.55 | 17.0 | .10 | .11 | .01 | | | | | | | | | | | | | |
| 96.00- 99.00 | 9135 | 3.00 | 2.20 | 20.5 | .20 | .11 | .01 | | | | | | | | | | | | | |
| 99.00-102.00 | 9136 | 3.00 | 1.75 | 18.0 | .20 | .07 | .01 | | | | | | | | | | | | | |
| 102.00-105.00 | 9137 | 3.00 | 1.20 | 10.0 | .02 | .02 | .01 | | | | | | | | | | | | | |
| 105.00-108.00 | 9138 | 3.00 | 1.70 | 10.5 | .02 | .02 | .02 | | | | | | | | | | | | | |
| 108.00-111.00 | 9139 | 3.00 | 1.40 | 7.0 | .03 | .05 | .01 | | | | | | | | | | | | | |
| 111.00-114.00 | 9140 | 3.00 | 1.84 | 9.0 | .03 | .03 | .01 | | | | | | | | | | | | | |
| 114.00-117.00 | 9141 | 3.00 | 1.25 | 8.0 | .04 | .03 | .01 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 566' (172.51M) | Date Began: AUGUST 4, 1980.
Hole No.: DDH-D-20-80 | Co ord. | Horizontal Length | Date Completed: AUGUST 6, 1980.
Sheet No.: 2 OF 2 | Direction: 225 | Drilled By: D.W. COATES
Claim No. | Elevation | Angle: -65° | Logged By: W. E. LUMLEY

| FOOTAGE | NUMBER | WIDTH | Au. | Ag. | Cu. | Zn. | | WIDTH X ASSAY | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117.00-120.00 | 9142 | 3.00 | .55 | 9.0 | .12 | .04 | .01 | | | | | | | | |
| 120.00-123.00 | 9143 | 3.00 | .55 | 7.5 | .10 | .02 | .01 | | | | | | | | |
| 123.00-126.00 | 9144 | 3.00 | .55 | 7.0 | .15 | .04 | .01 | | | | | | | | |
| 126.00-129.00 | 9145 | 3.00 | .50 | 8.0 | .17 | .03 | .01 | | | | | | | | |
| 129.00-132.00 | 9146 | 3.00 | .65 | 7.5 | .13 | .02 | .01 | | | | | | | | |
| 132.00-135.00 | 9147 | 3.00 | 1.05 | 8.5 | .12 | .03 | .01 | | | | | | | | |
| 135.00-138.00 | 9148 | 3.00 | 1.25 | 5.5 | .02 | .01 | .01 | | | | | | | | |
| 138.00-141.00 | 9149 | 3.00 | .30 | 7.5 | .02 | .14 | .02 | | | | | | | | |
| 141.00-144.00 | 9150 | 3.00 | .45 | 1.5 | .03 | .01 | .01 | | | | | | | | |
| 144.00-147.00 | 9151 | 3.00 | .70 | 4.5 | .08 | .01 | .01 | | | | | | | | |
| 147.00-150.00 | 9152 | 3.00 | 1.05 | 6.0 | .10 | .02 | .01 | | | | | | | | |
| 150.00-153.00 | 9153 | 3.00 | .15 | 1.5 | .03 | .17 | .01 | | | | | | | | |
| 153.00-156.00 | 9154 | 3.00 | .10 | 1.0 | .02 | .12 | .01 | | | | | | | | |
| 156.00-159.00 | 9155 | 3.00 | .15 | 1.5 | .03 | .07 | .01 | | | | | | | | |
| 159.00-162.00 | 9156 | 3.00 | .05 | .5 | .02 | .08 | .01 | | | | | | | | |
| 162.00-165.00 | 9157 | 3.00 | .10 | 1.5 | .02 | .28 | .01 | | | | | | | | |
| 165.00-168.00 | 9158 | 3.00 | .10 | 4.0 | .03 | .11 | .01 | | | | | | | | |
| 168.00-172.51 | NO SAMPLE POOR RECOVERY | | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 637' (194.15M) | Date Began: AUGUST 9, 1980
Hole No.: DDH-D-21-80 | Co ord.: 13+83W | Horizontal Length | Date Completed: AUGUST 12, 1980
Sheet No.: 1 OF 1 | 5+56S | Direction: 315° | Drilled By: D. W. COATES
Claim No. | Elevation: 1754M | Angle: -60° | Logged By: W. E. LUMLEY

| FOOTAGE | NUMBER | WIDTH | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00- 8.00 | NO SAMPLE | 8.00 | | | | | | | | | | | | | | | | | | |
| 8.00- 11.00 | 6071 | 3.00 | .34 | 3.8 | | .01 | .01 | | | | | | | | | | | | | |
| 11.00- 14.00 | 6072 | 3.00 | .10 | 1.7 | | .01 | .01 | | | | | | | | | | | | | |
| 14.00- 17.00 | 6073 | 3.00 | .46 | 2.1 | | .01 | .01 | | | | | | | 15.01 | .36 | 3.22 | | | | |
| 17.00- 20.00 | 6074 | 3.00 | .42 | 3.6 | | .01 | .01 | | | | | | | | | | | | | |
| 20.00- 23.00 | 6075 | 3.00 | .50 | 4.9 | | .01 | .01 | | | | | | | | | | | | | |
| 23.00- 26.00 | 6076 | 3.00 | .15 | 3.2 | | .01 | .01 | | | | | | | | | | | | | |
| 26.00- 29.00 | 6077 | 3.00 | .08 | 2.3 | | .01 | .01 | | | | | | | | | | | | | |
| 29.00- 32.00 | WASTE | 3.00 | - | - | | - | - | | | | | | | | | | | | | |
| 32.00- 35.00 | 6078 | 3.00 | .05 | .8 | | .01 | .01 | | | | | | | | | | | | | |
| 35.00- 38.00 | 6079 | 3.00 | .05 | .9 | | .20 | .01 | | | | | | | | | | | | | |
| 38.00- 57.00 | WASTE | 19.00 | - | - | | - | - | | | | | | | | | | | | | |
| 57.00- 60.00 | 6080 | 3.00 | .05 | 1.2 | | .21 | .01 | | | | | | | | | | | | | |
| 60.00- 63.00 | 6081 | 3.00 | .05 | 1.1 | | .08 | .01 | | | | | | | | | | | | | |
| 63.00- 66.00 | 6082 | 3.00 | .05 | 1.8 | | .03 | .01 | | | | | | | | | | | | | |
| 66.00- 69.00 | 6083 | 3.00 | .05 | 1.6 | | .03 | .01 | | | | | | | | | | | | | |
| 69.00-194.15 | WASTE | 125.15 | - | - | | - | - | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 583' (177.69M) | Date Began: AUGUST 13, 1980.
Hole No.: DDH-D-22-80 | Co ord.: 11+92W | Horizontal Length: 308.91' (94.15M) | Date Completed: AUGUST 16, 1980.
Sheet No.: 1 OF 3 | 3+62S | Direction: 045° | Drilled By: D. W. COATES
Claim No.: | Elevation: 1818M | Angle: -60 | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | % REC'Y CALC'D. |
|---|---|---|---|---|
| 0 1.81 | CASING | | | |
| 1.81- 86.00 | Rhyolite & Minor Breccia Tuff-light grey in colour kaolinitized and locally hematitized, leached & brecciated. Upper section quite highly fractured with minor galena, pyrite. | | | |
| | 1.86-22.73 Section which is highly kaolinitized locally. White to light grey in colour. Locally black in colour due to hematite, chlorite, minor sulphides. | | | |
| | 5.92-5.97 black zone due to chlorite. | | | |
| | 6.21-6.90 as above, but highly fractured. | | | |
| | 7.94-8.12 brecciated zone at 20° to core. | | | |
| | 9.73-11.00 fracture parallel to core. | | | |
| | 11.00-11.11 brick red coloured gouge. | | | |
| | 11.11-12.20 Highly fractured section-fractures at random orientation. | | | |
| | 15.17-15.41 highly fractured section at 15° to core. | | | |
| | 15.70-17.67 brecciated fault zone hematitic fragments cemented by hematite, chlorite & minor gouge. | | | |
| | 17.67-18.74 highly fractured vuggy section. | | | |
| | 18.74-18.93 same as from 5.92-5.97. | | | |
| | 19.60-19.74 4cm wide black chlorite filled fractures at 35° to core. Appears to be some fine disseminated sulphides in chlorite. | | | |
| | 19.80-19.95 Brecciated zone same as 15.70-17.67. | | | |
| | 21.06-21.95 Highly fractured zone with chlorite filled fractures. | | | |
| | 22.73-86.00 Light grey rhyolitic tuff weakly kaolinized and weakly mineralized with minor sphalerite(?) in the chlorite. This section is characterized by chlorite blebs giving the rock a spotted effect - locally the chlorite is pervasive & interstitial giving the rock a clouded appearance. | | | |
| | 25.60 1cm wide hematitic fracture with hematitic alteration (brick red in colour) extending 2cm each side of fracture. | | | |
| | 26.76 hematitic fracture at 30° to core. | | | |
| | 27.02 as above at 75° to core. | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-22-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 2 OF 3 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 27.21-27.65 hematitic zone. | | | | | | | | | | | |
| | 28.32 hematitic fracture at 20° to the core. | | | | | | | | | | | |
| | 28.69-29.01 hematitic zone. | | | | | | | | | | | |
| | 29.02 flow banding at 40° to core. | | | | | | | | | | | |
| | 33.20-33.28 vuggy leached zone - hematitic. | | | | | | | | | | | |
| | 34.07-34.20 hematite lined fracture. | | | | | | | | | | | |
| | 34.59 1cm wide fracture filled with ochre. | | | | | | | | | | | |
| | 38.50 hematite lined fracture at 40° to core. | | | | | | | | | | | |
| | 41.65 4cm wide sphalerite rich fracture, minor galena. | | | | | | | | | | | |
| | 41.75-47.05 zone rich in chlorite pods possible minor sulphides. | | | | | | | | | | | |
| | 47.48-49.02 orange coloured fault gouge. | | | | | | | | | | | |
| | 50.94 sphalerite rich pod 2cm in diameter. | | | | | | | | | | | |
| | 51.83-53.51 same as 41.75-47.05 | | | | | | | | | | | |
| | 55.35-58.55 fresh unaltered Rhyolite Breccia siliceous - dark grey in colour. | | | | | | | | | | | |
| | 56.38-58.55 Broken core. | | | | | | | | | | | |
| | 65.83-71.80 Section with numerous chlorite pods. | | | | | | | | | | | |
| | 73.34-73.56 Well developed dendrites seen-sample taken for thin section. | | | | | | | | | | | |
| | 74.30-74.50 large pod of sphal, galena, minor pyrite. | | | | | | | | | | | |
| | 74.59 hematite lined fracture at 50° to core. | | | | | | | | | | | |
| | 78.10-78.17 garnets, sphalerite rich fracture, minor pyrite and galena. | | | | | | | | | | | |
| | 81.00 banding at 45° to core. | | | | | | | | | | | |
| | 81.38-87.67 zone of high grade sphalerite occurring cementing breccia fragments, disseminations, blebs, whisps & veins-minor galena, pyrite. | | | | | | | | | | | |
| | 81.38-81.48 pod 1cm in diameter paralleling core. | | | | | | | | | | | |
| | 81.77-82.18 local high grade section mineralization occurring as whisps & blebs of sphalerite & minor galena. | | | | | | | | | | | |
| | 84.50-86.00 extremely high grade zone rich in sphalerite. | | | | | | | | | | | |
| | 84.52 ) | | | | | | | | | | | |
| | 84.60 ) | | | | | | | | | | | |
| | 84.62 ) .5cm wide fractures of sphalerite at 40° to core. | | | | | | | | | | | |
| | 84.90 ) | | | | | | | | | | | |
| | 85.03-85.13 extremely high grade vein of massive garnets, sphalerite & minor galena. | | | | | | | | | | | |
| | 85.13-85.51 Breccia zone with fragment cemented by sphalerite & minor galena. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CARCOSE | Project No.: 70113 | Depth | Date Began
Hole No.: DDH-D-22-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 3 OF 3 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 85.64-85.83 Brecciated zone. | | | | | | | | | | | |
| | 85.94-86.00 Altered zone with disseminated sulphides. | | | | | | | | | | | |
| 86.00-177.69 | Pisolitic Rhyolite Dyke - characterized by rounded sphericals of grey rhyolite in a contorted banded matrix blebs & bands of sulphides aligned along flow banding. | | | | | | | | | | | |
| | 91.30-91.42 hematitic section. | | | | | | | | | | | |
| | 91.64-91.81 " " | | | | | | | | | | | |
| | 92.01 4cm wide pod of sphalerite & py. | | | | | | | | | | | |
| | 94.27-94.88 zone rich in sphalerite with minor galena, py. | | | | | | | | | | | |
| | 97.90-99.96 possible high grade zone numerous blebs & whisps of galena, sphalerite. | | | | | | | | | | | |
| | 102.55-116.12 zone becoming weakly mineralized & hematitic. | | | | | | | | | | | |
| | 105.60-105.76 hematitic zone highly fractured. | | | | | | | | | | | |
| | 107.00-107.19 as above 105.60-105.76. | | | | | | | | | | | |
| | 108.66-108.91 zone where pisolitic can be seen readily. | | | | | | | | | | | |
| | 108.91-109.30 broken core. | | | | | | | | | | | |
| | 113.42-116.12 broken core. | | | | | | | | | | | |
| | 116.12-124.90 high grade zones numerous blebs & whisps of zoned sulphide. | | | | | | | | | | | |
| | 129.85-130.14 Fault-breccia fragment cemented by gouge. | | | | | | | | | | | |
| | 130.14-148.30 mineralized zone similar to 116.12-124.90, but appears higher. | | | | | | | | | | | |
| | 148.30-177.69 section characterized by wavey solution bands at random orientation well developed pisolitic and sulphide blebs. | | | | | | | | | | | |
| | ACID TEST: 578' (176.17m) = -56° | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 583' (177.69M) | Date Began: AUGUST 13, 1980.

Hole No.: DDH-D-22-80 | Co ord.: 11+92W | Horizontal Length: | Date Completed: AUGUST 16, 1980.

Sheet No.: 1 OF 2 | 3+62S | Direction: 045 | Drilled By: D. W. COATES

Claim No.: | Elevation: 1818 | Angle: -60° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METER | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 - 5.00 | WASTE | 5.00 | | | | | | | | | | | | | | | | | | |
| 5.00- 8.00 | 9160 | 3.00 | .15 | 11.0 | .02 | .02 | .07 | | | | | | | | | | | | | |
| 8.00- 11.00 | 9161 | 3.00 | .35 | 25.0 | .02 | .02 | .33 | | | | | | | | | | | | | |
| 11.00- 14.00 | 9162 | 3.00 | .30 | 15.0 | .02 | .01 | .28 | | | | | | | | | | | | | |
| 14.00- 17.67 | 9163 | 3.67 | .40 | 21.5 | .02 | .03 | .23 | | | | | | | | | | | | | |
| 17.67- 20.00 | 9164 | 2.33 | .30 | 21.0 | .02 | .02 | .17 | | | | | | | | | | | | | |
| 20.00- 23.00 | 9165 | 3.00 | .25 | 23.0 | .02 | .01 | .17 | | | | | | | | | | | | | |
| 23.00- 26.00 | 9166 | 3.00 | .25 | 32.0 | .03 | .07 | .28 | | | | | | | | | | | | | |
| 26.00- 29.00 | 9167 | 3.00 | .20 | 24.0 | .03 | .11 | .21 | | | | | | | | | | | | | |
| 29.00- 32.00 | 9168 | 3.00 | .05 | 12.5 | .02 | .10 | .07 | | | | | | | | | | | | | |
| 32.00- 35.00 | 9169 | 3.00 | .10 | 11.0 | .02 | .04 | .11 | | | | | | | | | | | | | |
| 35.00- 38.00 | 9170 | 3.00 | .05 | 4.0 | .01 | .18 | .05 | | | | | | | | | | | | | |
| 38.00- 41.00 | 9171 | 3.00 | .05 | 2.0 | .01 | .37 | .02 | | | | | | | | | | | | | |
| 41.00- 44.00 | 9172 | 3.00 | .10 | 6.5 | .01 | .36 | .10 | | | | | | | | | | | | | |
| 44.00- 47.00 | 9173 | 3.00 | .10 | 8.0 | .01 | .11 | .12 | | | | | | | | | | | | | |
| 47.00- 50.00 | 9174 | 3.00 | .10 | 5.5 | .01 | .04 | .03 | | | | | | | | | | | | | |
| 50.00- 53.00 | 9175 | 3.00 | .10 | 2.5 | .01 | .02 | .01 | | | | | | | | | | | | | |
| 53.00- 56.00 | 9176 | 3.00 | .05 | 2.0 | .01 | .16 | .01 | | | | | | | | | | | | | |
| 56.00- 59.00 | 9177 | 3.00 | .20 | 4.0 | .01 | .01 | .03 | | | | | | | | | | | | | |
| 59.00- 62.00 | 9178 | 3.00 | .05 | 3.0 | .01 | .28 | .02 | | | | | | | | | | | | | |
| 62.00- 65.00 | 9179 | 3.00 | .05 | 1.0 | .01 | .35 | .01 | | | | | | | | | | | | | |
| 65.00- 68.00 | 9180 | 3.00 | .10 | 3.5 | .01 | .22 | .01 | | | | | | | | | | | | | |
| 68.00- 71.00 | 9181 | 3.00 | .10 | 3.5 | .01 | .11 | .02 | | | | | | | | | | | | | |
| 71.00- 74.00 | 9182 | 3.00 | .05 | 3.0 | .01 | .16 | .01 | | | | | | | | | | | | | |
| 74.00- 77.00 | 9183 | 3.00 | .05 | 4.5 | .01 | .28 | .03 | | | | | | | | | | | | | |
| 77.00- 80.00 | 9184 | 3.00 | .10 | 8.0 | .01 | .22 | .05 | | | | | | | | | | | | | |
| 80.00- 83.00 | 9185 | 3.00 | .15 | 6.5 | .01 | .17 | .05 | | | | | | | | | | | | | |
| 83.00- 84.50 | 9186 | 1.50 | .05 | 7.5 | .01 | .42 | .04 | | | | | | | | | | | | | |
| 84.50- 86.00 | 9187 | 1.50 | 1.75 | 94.0 | .10 | 3.10 | .20 | | | | | | | | | | | | | |
| 86.00- 89.00 | 9188 | 3.00 | .15 | 13.5 | .03 | .49 | .07 | | | | | | | | | | | | | |
| 89.00- 92.00 | 9189 | 3.00 | .05 | 5.5 | .01 | .37 | .04 | | | | | | | | | | | | | |
| 92.00- 95.00 | 9190 | 3.00 | .05 | 7.5 | .01 | .35 | .03 | | | | | | | | | | | | | |
| 95.00- 98.00 | 9191 | 3.00 | .20 | 13.0 | .02 | .25 | .05 | | | | | | | | | | | | | |
| 98.00-101.00 | 9192 | 3.00 | .15 | 18.0 | .02 | .15 | .05 | | | | | | | | | | | | | |
| 101.00-104.00 | 9193 | 3.00 | .05 | 16.5 | .01 | .22 | .08 | | | | | | | | | | | | | |
| 104.00-107.00 | 9194 | 3.00 | .05 | 6.5 | .01 | .17 | .04 | | | | | | | | | | | | | |
| 107.00-110.00 | 9195 | 3.00 | .05 | 6.5 | .01 | .08 | .02 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 583(177.69M) | Date Began: AUGUST 13, 1980
Hole No.: DDH-D-22-80 | Co ord. | Horizontal Length | Date Completed: AUGUST 16, 1980
Sheet No.: 2 OF 2 | Direction: 045 | Drilled By: D.W.COATES
Claim No. | Elevation | Angle: -60° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METER | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb. | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110.00-113.00 | 9196 | 3.00 | .15 | 16.5 | .01 | .18 | .13 | | | | | | | | | | | | | |
| 113.00-116.00 | 9197 | 3.00 | .05 | 6.0 | .01 | .17 | .04 | | | | | | | | | | | | | |
| 116.00-119.00 | 9198 | 3.00 | .10 | 8.5 | .01 | .21 | .05 | | | | | | | | | | | | | |
| 119.00-122.00 | 9199 | 3.00 | .05 | 5.5 | .01 | .15 | .04 | | | | | | | | | | | | | |
| 122.00-125.00 | 9200 | 3.00 | .15 | 11.0 | .01 | .53 | .07 | | | | | | | | | | | | | |
| 125.00-128.00 | 9201 | 3.00 | .25 | 14.0 | .02 | .52 | .14 | | | | | | | | | | | | | |
| 128.00-131.00 | 9202 | 3.00 | .10 | 13.0 | .02 | .64 | .11 | | | | | | | | | | | | | |
| 131.00-134.00 | 9203 | 3.00 | .05 | 4.0 | .01 | .13 | .07 | | | | | | | | | | | | | |
| 134.00-137.00 | 9204 | 3.00 | .10 | 6.5 | .02 | .26 | .12 | | | | | | | | | | | | | |
| 137.00-140.00 | 9205 | 3.00 | .15 | 7.5 | .02 | .30 | .10 | | | | | | | | | | | | | |
| 140.00-143.00 | 9206 | 3.00 | .15 | 8.0 | .02 | .31 | .10 | | | | | | | | | | | | | |
| 143.00-146.00 | 9207 | 3.00 | .10 | 4.5 | .02 | .28 | .06 | | | | | | | | | | | | | |
| 146.00-149.00 | 9208 | 3.00 | .10 | 5.0 | .02 | .36 | .07 | | | | | | | | | | | | | |
| 149.00-152.00 | 9209 | 3.00 | .20 | 18.0 | .03 | .59 | .26 | | | | | | | | | | | | | |
| 152.00-155.00 | 9210 | 3.00 | .45 | 14.0 | .02 | .54 | .19 | | | | | | | | | | | | | |
| 155.00-158.00 | 9211 | 3.00 | .80 | 19.0 | .02 | .43 | .27 | | | | | | | | | | | | | |
| 158.00-161.00 | 9212 | 3.00 | .55 | 22.0 | .03 | .65 | .36 | | | | | | | | | | | | | |
| 161.00-164.00 | 9213 | 3.00 | .30 | 15.0 | .03 | .76 | .21 | | | | | | | | | | | | | |
| 164.00-167.00 | 9214 | 3.00 | .40 | 14.5 | .03 | .52 | .20 | | | | | | | | | | | | | |
| 167.00-170.00 | 9215 | 3.00 | .30 | 9.0 | .02 | .37 | .12 | | | | | | | | | | | | | |
| 170.00-173.00 | 9216 | 3.00 | .25 | 7.0 | .02 | .34 | .08 | | | | | | | | | | | | | |
| 173.00-176.00 | 9217 | 3.00 | .45 | 5.5 | .02 | .26 | .08 | | | | | | | | | | | | | |
| 176.00-177.69 | 9218 | 1.69 | .30 | 13.0 | .03 | .45 | .16 | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: [illegible] | Depth: [illegible] | Date Began: [illegible]

Hole No.: DDH-D-23-80 | Co ord.: 10+88W | Horizontal Length: 297.66' (90.72M) | Date Completed: AUGUST 20, 1980

Sheet No.: 1 OF 5 | 3+86S | Direction: -320° | Drilled By: D. W. COATES

Claim No.: | Elevation: 1847 | Angle: -60° | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 3.05 | CASING | | | | | | | | | | | |
| 3.05- 39.75 | White to light grey Rhyolite weakly kaolinized and hematitic mineralized with garnets and very minor sulphides usually pyrite & sphalerite. Unit is quite highly fractured with fracture lined with hematite. Generally very uniform in structure & texture is locally vuggy usually associated with leached sulphides. Mineralization in form of pods of garnets with associated sulphides. | | | | | | | | | | | |
| | 4.90-5.00 fracture lined with hematite. | | | | | | | | | | | |
| | 6.03-6.28 several fractures parallel to core lined with hematite. | | | | | | | | | | | |
| | 6.90-7.06 as above 6.03-6.28. | | | | | | | | | | | |
| | also 10.70-11.20. | | | | | | | | | | | |
| | 12.24-12.76 | | | | | | | | | | | |
| | 17.37-17.45 brecciated section fragments cemented by hematite. | | | | | | | | | | | |
| | 26.51-27.89 brecciated section. | | | | | | | | | | | |
| | 27.89-39.75 unit becoming more altered is very highly fractured with copious amounts of hematite & limonite. | | | | | | | | | | | |
| | 32.00 .5cm wide gouge filled fracture. | | | | | | | | | | | |
| | 33.00-33.48 sheared & brecciated fractured hematite, & gouge filled at 5° to core. | | | | | | | | | | | |
| | 33.70 1cm wide brecciated sheared zone at 45° to core. | | | | | | | | | | | |
| | 34.20-34.35 broken core. | | | | | | | | | | | |
| | 34.52-34.86 fracture parallel to core. | | | | | | | | | | | |
| | 36.20-36.43 Brecciated zone cemented by gouge. | | | | | | | | | | | |
| | 36.67 fracture hematitized at 25° to core. | | | | | | | | | | | |
| 39.75-136.24 | Pisolitic Rhyolite - kaolinized locally siliceous characterized by numerous pods of garnets ± sulphides, and rounded sphericals of chert in a larger medium grained matrix. Garnets are formed along flow banding. Unit is quite uniform in nature. When core is split, pisolites will fracture around circumference resulting in the pisolite coming out one side of the core, and leaving a cavity on the other. Mineralization is garnet, sphalerite, galena & py with galena predominant. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth | Date Began
Hole No.: DDH-D-23-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 2 OF 5 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 39.75-49.60 upper section is quite altered & hematitic and vuggy. | | | | | | | | | | | |
| | 42.90 2.5cm wide pod of garnets with minor sphalerite. | | | | | | | | | | | |
| | 43.80-44.27 fracture hematite lined parallet to core. | | | | | | | | | | | |
| | 48.42-49.06 vuggy fracture parallel to core. | | | | | | | | | | | |
| | 52.26-52.30 pod of garnet & sphalerite. | | | | | | | | | | | |
| | 52.58 hematitic zone. | | | | | | | | | | | |
| | 53.20-59.23 rock taking on a light greenish cast- mineralization is disseminated. | | | | | | | | | | | |
| | 58.86-59.37 hematitic zone. | | | | | | | | | | | |
| | 62.00-62.10 hematitic zone highly fractured. | | | | | | | | | | | |
| | 63.70-64.29 as above 62.00-62.10. | | | | | | | | | | | |
| | 68.06-70.90 high grade zone kaolinized | | | | | | | | | | | |
| | 73.21-73.87 brecciated highly fractured hematite rich fragments cemented by hematite. | | | | | | | | | | | |
| | 76.16 sheared zone with chlorite slickensides. | | | | | | | | | | | |
| | 76.25 garnets starting to show alteration haloes. | | | | | | | | | | | |
| | 76.64-76.83 hematitic fracture at 20° to core. | | | | | | | | | | | |
| | 80.24-80.41 zone with numerous hematitic fractures. | | | | | | | | | | | |
| | 81.07-87.16 as above 80.24-80.41, but more fractured. | | | | | | | | | | | |
| | 84.03-84.56 dark grey chloritic fault gouge. | | | | | | | | | | | |
| | 86.68-86.94 1cm wide fracture healed with limonite. | | | | | | | | | | | |
| | 87.16-102.36 rock taking on a darker grey colouration due to an increase in chlorite occurring back interstitially and on fractures. Core taking on a somewhat spotted or mottled texture. Section is quite uniform. | | | | | | | | | | | |
| | 102.36-111.81 highly broken fractured hematitic section quite altered gougy section. | | | | | | | | | | | |
| | 102.75 vuggy hematitic fracture 40° to core. | | | | | | | | | | | |
| | 103.90-103.96 light grey gouge. | | | | | | | | | | | |
| | 103.96-104.39 hematitic zone | | | | | | | | | | | |
| | 104.39-107.32 broken gougy core poor recovery | | | | | | | | | | | |
| | 110.40-111.14 light grey gouge. | | | | | | | | | | | |
| | 111.81-120.69 Section is highly mineralized-kaolinization is prominent occurring as reaction rims. Mineralization is in pods and minor disseminations with sphalerite over galena. Flow banding is at | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAROOSE | Project No.: 70113 | Depth | Date Began
Hole No.: DDH-D-23-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 3 OF 5 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | angles usually 0-10°. Section is characterized by wavey solution boundaries. | | | | | | | | | | | |
| | 118.90-119.47 Section where solution band has altered rock and turned at a dark grey. Rock cracked along solution band-sample taken for thin section. | | | | | | | | | | | |
| | 120.69-129.83 Quite similar to above, but mineralization lacks reaction rims. Section is quite similar to ore zone in D-10, but has pisolites. | | | | | | | | | | | |
| | 122.0 2cm wide high grade pod of garnet, py, sphal. | | | | | | | | | | | |
| | 128.44 .5cm wide high grade fracture at 60° to core. | | | | | | | | | | | |
| | 128.70 2 parallel 2.5cm pod of garnets sphal. & py. | | | | | | | | | | | |
| | 129.83-136.24 mineralization increasing with a noted increase of galena over sphalerite. | | | | | | | | | | | |
| | 131.46 1cm wide pod of py, gal. sphal. | | | | | | | | | | | |
| | 132.60 2cm wide pod of garnet, py, gal. & sphal. | | | | | | | | | | | |
| | 132.74 1cm wide fracture with garnet, py, gal & sphal, at15° to core. | | | | | | | | | | | |
| | 135.80-135.89 2cm wide fracture at 40° to core-garnet, sphal, py & galena. | | | | | | | | | | | |
| 136.24-230.41 | Rhyolite Breccia - well mineralized throughout with pods of galena, sphalerite, garnets and minor pyrite. Mineralization seems to increase with depth. Rock is very similar to the pisolitic rhyolite, but the fragments do not fracture out of the core. | | | | | | | | | | | |
| | 136.24-136.60 Broken core. | | | | | | | | | | | |
| | 136.60-137.20 Hematitic fracture parallel to core. | | | | | | | | | | | |
| | 141.86 2cm wide fracture garnets, sph, pyrite galena at 25° to core. | | | | | | | | | | | |
| | 142.32-142.60 vein of garnet, sphalerite, pyrite & minor galena. | | | | | | | | | | | |
| | 142.66 3cm wide pod of garnet, galena, sphalerite, pyrite at 40° to core. | | | | | | | | | | | |
| | 144.08 1.5cm wide fracture garnet, galena, sphalerite at 40° to core. | | | | | | | | | | | |
| | 144.45 2.0cm wide fracture as above. | | | | | | | | | | | |
| | 146.75 2.5cm wide fracture as above. | | | | | | | | | | | |
| | 151.47-151.62 high grade vein black in colour, garnet, galena, sphalerite, pyrite. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-23-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 4 OF 5 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 154.60 2cm wide pod of garnet, galena, sphalerite & pyrite. | | | | | | | | | | | |
| | NOTE: Some reaction rims seen in this section. | | | | | | | | | | | |
| | 160.80-161.62 Hematitic zone fractured parallel to core. | | | | | | | | | | | |
| | 162.76 1.5cm wide pod garnet, pyrite, sphalerite & galena. | | | | | | | | | | | |
| | 163.90-164.30 fracture parallel to core. | | | | | | | | | | | |
| | 165.29 1cm wide pod as 162.76 | | | | | | | | | | | |
| | 171.59-179.79 rock taking on a pinkish tinge possibly due to feldspathization along fracture. Sample taken for thin section. | | | | | | | | | | | |
| | 172.20 1.5cm diameter pod. | | | | | | | | | | | |
| | 172.58 1 cm wide fracture. | | | | | | | | | | | |
| | 175.00-177.38 Broken core gougy fractured parallel to core. | | | | | | | | | | | |
| | ADDITIONAL MINERALIZATION OCCURRING AT: | | | | | | | | | | | |
| | 181.30, 181.40, 181.80 1cm wide pods. | | | | | | | | | | | |
| | 182.00 2cm wide pod. | | | | | | | | | | | |
| | 182.54) | | | | | | | | | | | |
| | 182.85) .5cm wide fracture, pyrite, sphalerite. | | | | | | | | | | | |
| | 183.60-183.88 fracture healed with pyrite, galena, sphal. garnets. | | | | | | | | | | | |
| | 184.16 1cm wide pods. | | | | | | | | | | | |
| | 184.38-184.95 numerous 1cm wide pods. | | | | | | | | | | | |
| | 185.67-186.15 numerous .5cm wide pyrite healed fractures. | | | | | | | | | | | |
| | 188.80-189.00 numerous sulphide healed fractures at 20° to core. | | | | | | | | | | | |
| | 195.25 2cm wide pod parallel to core. | | | | | | | | | | | |
| | 196.85-197.00 light grey fault gouge. | | | | | | | | | | | |
| | ADDITIONAL MINERALIZATION | | | | | | | | | | | |
| | 198.04 1cm wide pod parallel to flow banding at 20° to core. | | | | | | | | | | | |
| | 198.59 .5cm wide fracture at 20° to core. | | | | | | | | | | | |
| | 200.20-201.11 fracture parallel to core coated with light green talc. | | | | | | | | | | | |
| | 206.47-206.63 light grey fault gouge. | | | | | | | | | | | |
| | 207.76-209.83 as above 206.47-206.63 | | | | | | | | | | | |
| | 211.24 3cm wide fracture at 20° to core garnets, galena sphalerite & minor pyrite. | | | | | | | | | | | |
| | 212.00-230.41 garnets appear fresher in this section. A dark green grey in colour and unit becomes less altered with depth. Mineralization is uniform, but more disseminated. | | | | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-23-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 5 OF 5 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 217.31-217.46 zone of intense garnetization. Garnets are fresh. | | | | | | | | | | | |
| | 218.44-226.56 rock broken & highly fractured. | | | | | | | | | | | |
| | 226.56-226.76 olive green fault gouge. | | | | | | | | | | | |
| | 226.89-227.97 as above 226.56-226.76 | | | | | | | | | | | |
| | 229.12 high grade pod of sphalerite, galena, pyrite & minor garnet. | | | | | | | | | | | |
| | 229.89-230.44 Brecciated rock with fragments cemented with olive green gouge. | | | | | | | | | | | |
| | END OF HOLE | | | | | | | | | | | |
| | TESTS: SPERRY SUN SINGLE SHOT | | | | | | | | | | | |
| | DEPTH / DIP / AZIMUTH | | | | | | | | | | | |
| | 300'(91.44M) / -65 / 321° | | | | | | | | | | | |
| | 500'(152.39M) / -67 / 325° | | | | | | | | | | | |
| | 700'(213.35M) / -68 / 332° | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 756' (230.41M) | Date Began: AUGUST 17, 1980

Hole No.: DDH-D-23-80 | Co ord.: 10+88 W | Horizontal Length: 296.66' (90.72) | Date Completed: AUGUST 21, 1980

Sheet No.: 1 OF 3 | 3+86 S | Direction: 320° | Drilled By: D.W. COATES

Claim No.: | Elevation: 1847 M. | Angle: -60° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METER | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00- 3.05 | CASING | 3.05 | | | | | | | | | | | | | | | | | | |
| 3.05- 5.00 | 9219 | 3.00 | .10 | 4.5 | | .01 | .02 | | | | | | | | | | | | | |
| 5.00- 8.00 | 9220 | 3.00 | .05 | 1.5 | | .01 | .01 | | | | | | | | | | | | | |
| 8.00- 11.00 | 9221 | 3.00 | .05 | .5 | | .01 | .01 | | | | | | | | | | | | | |
| 11.00- 14.00 | 9222 | 3.00 | .05 | 1.0 | | .01 | .01 | | | | | | | | | | | | | |
| 14.00- 17.00 | 9223 | 3.00 | .05 | 1.5 | | .01 | .01 | | | | | | | | | | | | | |
| 17.00- 20.00 | 9224 | 3.00 | .05 | .5 | | .01 | .01 | | | | | | | | | | | | | |
| 20.00- 23.00 | 9225 | 3.00 | .05 | 3.5 | | .01 | .02 | | | | | | | | | | | | | |
| 23.00- 26.00 | 9226 | 3.00 | .05 | 4.0 | | .01 | .01 | | | | | | | | | | | | | |
| 26.00- 29.00 | 9227 | 3.00 | .05 | 1.5 | | .01 | .02 | | | | | | | | | | | | | |
| 29.00- 32.00 | 9228 | 3.00 | .10 | 7.0 | | .01 | .03 | | | | | | | | | | | | | |
| 32.00- 35.00 | 9229 | 3.00 | .05 | 1.5 | | .01 | .03 | | | | | | | | | | | | | |
| 35.00- 38.00 | 9230 | 3.00 | .05 | .5 | | .01 | .04 | | | | | | | | | | | | | |
| 38.00- 41.00 | 9231 | 3.00 | .05 | 4.0 | | .01 | .01 | | | | | | | | | | | | | |
| 41.00- 44.00 | 9232 | 3.00 | .05 | 5.0 | | .01 | .03 | | | | | | | | | | | | | |
| 44.00- 47.00 | 9233 | 3.00 | .05 | 6.5 | | .01 | .02 | | | | | | | | | | | | | |
| 47.00- 50.00 | 9234 | 3.00 | .05 | 5.0 | | .01 | .05 | | | | | | | | | | | | | |
| 50.00- 53.00 | 9235 | 3.00 | .05 | 8.5 | | .04 | .04 | | | | | | | | | | | | | |
| 53.00- 56.00 | 9236 | 3.00 | .05 | 5.0 | | .07 | .03 | | | | | | | | | | | | | |
| 56.00- 59.00 | 9237 | 3.00 | .05 | 3.5 | | .05 | .02 | | | | | | | | | | | | | |
| 59.00- 62.00 | 9238 | 3.00 | .05 | 6.0 | | .03 | .04 | | | | | | | | | | | | | |
| 62.00- 65.00 | 9239 | 3.00 | .05 | 5.5 | | .05 | .04 | | | | | | | | | | | | | |
| 65.00- 68.00 | 9240 | 3.00 | .05 | 5.0 | | .06 | .02 | | | | | | | | | | | | | |
| 68.00- 71.00 | 9241 | 3.00 | .05 | 4.0 | | .08 | .02 | | | | | | | | | | | | | |
| 71.00- 74.00 | 9242 | 3.00 | .05 | 3.5 | | .10 | .01 | | | | | | | | | | | | | |
| 74.00- 77.00 | 9243 | 3.00 | .05 | 6.5 | | .07 | .03 | | | | | | | | | | | | | |
| 77.00- 80.00 | 9244 | 3.00 | .05 | 8.0 | | .11 | .05 | | | | | | | | | | | | | |
| 80.00- 83.00 | 9245 | 3.00 | .05 | 7.5 | | .07 | .03 | | | | | | | | | | | | | |
| 83.00- 86.00 | 9246 | 3.00 | .05 | 8.0 | | .04 | .01 | | | | | | | | | | | | | |
| 86.00- 89.00 | 9247 | 3.00 | .10 | 11.0 | | .06 | .22 | | | | | | | | | | | | | |
| 89.00- 92.00 | 9248 | 3.00 | .15 | 7.5 | | .29 | .02 | | | | | | | | | | | | | |
| 92.00- 95.00 | 9249 | 3.00 | .10 | 6.5 | | .30 | .03 | | | | | | | | | | | | | |
| 95.00- 98.00 | 9250 | 3.00 | .15 | 27.0 | | .09 | .26 | | | | | | | | | | | | | |
| 98.00-101.00 | 9251 | 3.00 | .05 | 6.0 | | .18 | .08 | | | | | | | | | | | | | |
| 101.00-104.00 | 9252 | 3.00 | .10 | 7.5 | | .11 | .06 | | | | | | | | | | | | | |
| 104.00-107.00 | 9253 | 3.00 | .10 | 14.0 | | .06 | .04 | | | | | | | | | | | | | |
| 107.00-110.00 | 9254 | 3.00 | .20 | 38.0 | | .22 | .14 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 756'(230.41M) | Date Began: AUGUST 17, 1980

Hole No.: DDH-D-23-80 | Co ord. | Horizontal Length | Date Completed: AUGUST 21, 1980

Sheet No.: 2 OF 3 | Direction: 320° | Drilled By: D.W. COATES

Claim No. | Elevation | Angle: -60° | Logged By: W. E. LUMLEY

| ~~BOOKAGE~~ METER | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb. | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110.00-113.00 | 9255 | 3.00 | .10 | 18.0 | | .21 | .13 | | | | | | | | | | | | | |
| 113.00-116.00 | 9256 | 3.00 | .10 | 13.5 | | .23 | .08 | | | | | | | | | | | | | |
| 116.00-119.00 | 9257 | 3.00 | .10 | 14.5 | | .34 | .11 | | | | | | | | | | | | | |
| 119.00-122.00 | 9258 | 3.00 | .10 | 20.0 | | .36 | .13 | | | | | | | | | | | | | |
| 122.00-125.00 | 9259 | 3.00 | .10 | 12.5 | | .27 | .09 | | | | | | | | | | | | | |
| 125.00-128.00 | 9260 | 3.00 | .05 | 7.0 | | .26 | .05 | | | | | | | | | | | | | |
| 128.00-131.00 | 9261 | 3.00 | .10 | 12.5 | | .17 | .08 | | | | | | | | | | | | | |
| 131.00-134.00 | 9262 | 3.00 | .10 | 14.0 | | .31 | .12 | | | | | | | | | | | | | |
| 134.00-137.00 | 9263 | 3.00 | .20 | 16.5 | | .22 | .13 | | | | | | | | | | | | | |
| 137.00-140.00 | 9264 | 3.00 | .10 | 14.5 | | .26 | .08 | | | | | | | | | | | | | |
| 140.00-143.00 | 9265 | 3.00 | .95 | 24.0 | | .28 | .23 | | | | | | | | | | | | | |
| 143.00-146.00 | 9266 | 3.00 | .25 | 20.0 | | .41 | .08 | | | | | | | | | | | | | |
| 146.00-149.00 | 9267 | 3.00 | .20 | 18.5 | | .51 | .08 | | | | | | | | | | | | | |
| 149.00-152.00 | 9268 | 3.00 | .30 | 21.0 | | .18 | .09 | | | | | | | | | | | | | |
| 152.00-155.00 | 9269 | 3.00 | .10 | 6.5 | | .12 | .02 | | | | | | | | | | | | | |
| 155.00-158.00 | 9270 | 3.00 | .25 | 7.5 | | .17 | .02 | | | | | | | | | | | | | |
| 158.00-161.00 | 9271 | 3.00 | .25 | 12.0 | | .15 | .03 | | | | | | | | | | | | | |
| 161.00-164.00 | 9272 | 3.00 | .25 | 12.5 | | .14 | .03 | | | | | | | | | | | | | |
| 164.00-167.00 | 9273 | 3.00 | .10 | 6.0 | | .32 | .01 | | | | | | | | | | | | | |
| 167.00-170.00 | 9274 | 3.00 | .15 | 4.0 | | .21 | .01 | | | | | | | | | | | | | |
| 170.00-173.00 | 9275 | 3.00 | .10 | 6.5 | | .20 | .01 | | | | | | | | | | | | | |
| 173.00-176.00 | 9276 | 3.00 | 1.55 | 6.5 | | .12 | .02 | | | | | | | | | | | | | |
| 176.00-179.00 | 9277 | 3.00 | .30 | 11.5 | | .20 | .02 | | | | | | | | | | | | | |
| 179.00-182.00 | 9278 | 3.00 | .35 | 20.0 | | .55 | .03 | | | | | | | | | | | | | |
| 182.00-185.00 | 9279 | 3.00 | .70 | 35.0 | | .45 | .11 | | | | | | | | | | | | | |
| 185.00-188.00 | 9280 | 3.00 | .45 | 20.0 | | .23 | .05 | | | | | | | | | | | | | |
| 188.00-191.00 | 9281 | 3.00 | .40 | 25.0 | | .24 | .11 | | | | | | | | | | | | | |
| 191.00-194.00 | 9282 | 3.00 | .15 | 7.0 | | .31 | .03 | | | | | | | | | | | | | |
| 194.00-197.00 | 9283 | 3.00 | .10 | 6.5 | | .19 | .04 | | | | | | | | | | | | | |
| 197.00-200.00 | 9284 | 3.00 | .10 | 3.0 | | .17 | .01 | | | | | | | | | | | | | |
| 200.00-203.00 | 9285 | 3.00 | .15 | 10.0 | | .49 | .04 | | | | | | | | | | | | | |
| 203.00-206.00 | 9286 | 3.00 | .25 | 13.0 | | .37 | .07 | | | | | | | | | | | | | |
| 206.00-209.00 | 9287 | 3.00 | .10 | 8.5 | | .36 | .09 | | | | | | | | | | | | | |
| 209.00-212.00 | 9288 | 3.00 | .10 | 5.0 | | .29 | .03 | | | | | | | | | | | | | |
| 212.00-215.00 | 9289 | 3.00 | .05 | 7.0 | | .21 | .08 | | | | | | | | | | | | | |
| 215.00-218.00 | 9290 | 3.00 | .10 | 6.0 | | .25 | .06 | | | | | | | | | | | | | |
| 218.00-221.00 | 9291 | 3.00 | .10 | 9.5 | .03 | .38 | .11 | | | | | | | | | | | | | |
| 221.00-224.00 | 9292 | 3.00 | .15 | 13.0 | .02 | .47 | .15 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 756'(230.41M) | Date Began: AUGUST 17, 1980.
Hole No.: DDH-D-23-80 | Co ord. | Horizontal Length | Date Completed: AUGUST 21, 1980.
Sheet No.: 3 OF 3 | Direction: 320° | Drilled By: D. W. COATES
Claim No. | Elevation | Angle: -60° | Logged By: W. E. LUMLEY

| FOOTAGE | NUMBER | WIDTH | Au. | Ag. | Cu. | Zn. | | WIDTH X ASSAY | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 224.00-227.00 | 9293 | 3.00 | .25 | 20.0 | .04 | .47 | .15 | | | | | | | | |
| 227.00-230.00 | 9294 | 3.00 | .35 | 6.0 | .02 | .34 | .31 | | | | | | | | |

**GRÄNGES EXPLORATION AB**
CANADIAN DIVISION

# DIAMOND DRILL LOG

| | | | | | |
|---|---|---|---|---|---|
| Property | CAPOOSE | Project No. | 70113 | Depth | 700'(213.35M) |
| Date Began | AUGUST 21, 1980 | Hole No. | DDH-D-24-80 | Co ord. | 6+94W |
| Horizontal Length | 443.3'(135.10M) | Date Completed | AUGUST 25, 1980 | Sheet No. | 1 OF 4 |
| | 3+71S | Direction | 270° | Drilled By | D. W. COATES |
| Claim No. | | Elevation | 1863M | Angle | -50° |
| Logged By | W. E. LUMLEY | | | | |

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | % REC'Y CALC'D. |
|---|---|---|---|---|
| 0 3.05 | CASING | | | |
| 3.05- 66.71 | Andesite and Andesite Tuff & Breccia-black to very dark grey in colour. Andesite black in colour siliceous very hard & aphanitic mineralized with scattered pyrite. Tuffaceous unit as a dark grey in colour fine grained somewhat siliceous and characterized by a speckled texture when the rock is dry. This unit is mineralized with pervious pyrite 1-3% interstitial and along fractures with the exceptional 2 large brecciated areas the additional sulphides (sphalerite & galena) are of minor occurrence. Upper section is gossanous fractured & vuggy. | | | |
| | 10.05 highly fractured vuggy; entire section hematitic. | | | |
| | 8.07 vuggy gossanous fracture mineralized with garnet. | | | |
| | 9.01-9.10 botryoidal hematite filled fracture. | | | |
| | 10.05-19.20 black siliceous competent andesite. | | | |
| | 19.20 andesite gradually becoming more tuffaceous. | | | |
| | 20.13-20.28 high grade fracture at 40° to core gal, sph. & pyrite | | | |
| | 22.31 .5cm wide pyrite filled fracture with minor galena. | | | |
| | 31.05-38.40 section characterized by numerous sandy rhyolite tuff pods up to 10cm in width. | | | |
| | 32.83-33.86 extremely high grade breccia zone-fragments up to 6cm in diameter cemented by sulphides predominantly sphalerite, galena, pyrite and minor garnet also present. | | | |
| | 35.65-36.07 high grade section pyrite, galena & sphalerite. | | | |
| | 36.54 high grade pod 1cm in diameter of galena, sphalerite, pyrite & minor cpy. | | | |
| | 41.90-42.30 high grade zone of galena, cpy & pyrite in pods & fractures-additional cpy in veins-1-2mm wide. | | | |
| | 42.56 .5 cm wide fracture filled with pyrite | | | |
| | 53.42 2mm wide pyrite filled fracture with epidote alteration 2cm on either side of the fracture. | | | |
| | 60.20 1.5cm wide vuggy pyrite filled fracture at 40° to core. | | | |
| | 60.50-66.71 black andesite section-siliceous with numerous pyrite filled fractures. Other fractures are hematitic with epidote alteration. | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-24-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 2 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 66.71-77.87 | Siliceous rhyolite-dark grey in colour with pervasive pyrite & black speckled mineralization locally kaolinized pyrite & black mineralization aligned along flow banding orientated at 15° to core. | | | | | | | | | | | |
| 77.87-115.60 | Andesite Tuff & Breccia with minor Andesite same as units 66.71. | | | | | | | | | | | |
| | 81.62-81.81 Rhyolite Tuff band-dark grey in colour. | | | | | | | | | | | |
| | 87.24-87.50 Randomally orientated fracturing mineralized with galena, pyrite, sphalerite & minor cpy. | | | | | | | | | | | |
| | 87.67 pyrite filled fracture 1cm and parallel to core. | | | | | | | | | | | |
| | 92.40-92.62 zone of epidote alteration aligned along pyrite filled fractures. | | | | | | | | | | | |
| | 93.08 1cm wide pyrite filled fracture-no other sulphides. | | | | | | | | | | | |
| | 94.28 as above at 93.08. | | | | | | | | | | | |
| | 96.00 unit becoming an andesite breccia - dark fragments in a dark grey matrix. | | | | | | | | | | | |
| | 109.00-111.10 zone of intense alteration light grey in colour. Mineralized with vuggy pyrite, cpy. filled fractures. | | | | | | | | | | | |
| | 110.33-111.10 light grey fault gouge. | | | | | | | | | | | |
| 115.60-169.46 | Siliceous Rhyolite & Rhyolite Tuff-light grey in colour fine to medium grained. Sections of intense kaolinization & hematitization. Appears mineralized throughout with blebs of garnets, sphalerite, galena & pyrite. Hematitization occurs in highly fractured areas and along the fractures themselves. Pyrite the main sulphide followed by sphal. & galena. | | | | | | | | | | | |
| | 115.60-121.22 very light grey section pervasive pyrite interstitial and in fractures. | | | | | | | | | | | |
| | 121.22-121.78 vuggy hematitic zone. | | | | | | | | | | | |
| | 121.78-122.08 somewhat leached zone. | | | | | | | | | | | |
| | 122.08-125.40 weakly hematitic zone-hematite along fractures ± chlorite. Fractures are at random orientation.. | | | | | | | | | | | |
| | 132.22-132.24 Brecciated fracture with fragment cemented by hematite. | | | | | | | | | | | |
| | 135.88-137.88 hematitic zone-rock locally brick red & highly fractured. | | | | | | | | | | | |
| | 138.82 1cm wide pyrite filled fracture. | | | | | | | | | | | |
| | 139.85-140.31 weakly hematitized section highly fractured section. | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
## DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-24-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 3 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 142.29-143.40 intensely altered section-hematitized throughout. brick red fracture at 142.36-vuggy section at 142.54. 142.64 with additional intensely hematitized zones at 142.83 & 143.16. | | | | | | | | | | | |
| | 143.79-143.88 zone of intense brick red hematitic alteration. | | | | | | | | | | | |
| | 144.33-148.63 highly fractured generally weakly hematitized section with an intensely altered zone brick red at 148.32-148.63. | | | | | | | | | | | |
| | 150.70-150.86 zone of intense brick red hematitic alteration surrounding fractures. | | | | | | | | | | | |
| | 153.50-153.67 hematitic section some fractures-contains azurite malachite and some specular hematite. | | | | | | | | | | | |
| | 156.28 .5cm wide hematitic zone. | | | | | | | | | | | |
| | 156.88 1cm wide pyrite filled fractures with minor galena & sphalerite. | | | | | | | | | | | |
| | 157.00-160.33 high grade zone fine disseminated sulphides. | | | | | | | | | | | |
| | 159.41-160.00 hematite zone-highly fractured. | | | | | | | | | | | |
| | 163.56-163.67 weak hematitic zone. | | | | | | | | | | | |
| | 163.87-164.03 intensely hematitic zone-brick red. | | | | | | | | | | | |
| | 164.80-165.20 pyrite rich zone pyrite 3-7%. | | | | | | | | | | | |
| | 165.94-166.41 zone of intense hematitization-brick red from 166.28-166.41. | | | | | | | | | | | |
| | 167.39-167.58 brecciated section fragments cemented by gouge. | | | | | | | | | | | |
| | 168.17-168.29 intensely hematitized vuggy zone brick red in colour. | | | | | | | | | | | |
| | 168.29-169.46 highly fractured zone-weakly hematitic. | | | | | | | | | | | |
| 169.46-186.63 | Rhyolite Dyke- white barren chalky dyke locally pink to red in colour result of hematitization. | | | | | | | | | | | |
| 186.63-213.35 | Rhyolite Tuff unit same as unit 115.60-169.46. Unit appears locally more siliceous. Mineralization is in the form of pods & fine dissemination. | | | | | | | | | | | |
| | 186.63-189.85 rock characterized by rounded red sphericals of weathered sulphides. | | | | | | | | | | | |
| | 189.92 2cm wide weakly hematitic zone. | | | | | | | | | | | |
| | 192.62-192.73 intensely hematitic zone. | | | | | | | | | | | |
| | 194.01-194.29 as above at 192.62-192.73 with fractures also coated with minor azurite & malachite. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-24-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 4 OF 4 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 196.59-196.71 weakly hematitic zone. | | | | | | | | | | | |
| | 199.15-199.26 fracture parallel to core coated with talc. | | | | | | | | | | | |
| | END OF HOLE | | | | | | | | | | | |
| | TEST: SPERRY - SUN - SINGLE SHOT | | | | | | | | | | | |
| | DEPTH DIP AZIMUTH | | | | | | | | | | | |
| | 300'(91.44M) -52 281° | | | | | | | | | | | |
| | 500'(152.39M) -52 281° | | | | | | | | | | | |
| | 700'(213.35M) -53 278° | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property .... CAPOOSE ..... Project No. . 70113 .... Depth . 700'(213.36M) ..... Date Began . AUGUST 21, 1980 .....

Hole No. . DDH-D-24-80 ..... Co ord. ..... Horizontal Length ..... Date Completed . AUGUST 25, 1980 ..

Sheet No. ..... 2 OF 2 ..... Direction ..... 270° ..... Drilled By. . . . D. W. COATES .....

Claim No. ..... Elevation ..... Angle ..... -50 ..... Logged By. . . . W. E. LUMLEY .....

| ~~FOOTAGE~~ METER | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 120.00-123.00 | 9317 | 3.00 | .10 | 23.5 | .03 | .01 | .01 | | | | | | | | | | | | | |
| 123.00-126.00 | 9318 | 3.00 | .20 | 44.0 | .02 | .04 | .02 | | | | | | | | | | | | | |
| 126.00-129.00 | 9319 | 3.00 | .10 | 15.0 | .02 | .01 | .04 | | | | | | | | | | | | | |
| 129.00-132.00 | 9320 | 3.00 | .25 | 15.5 | .02 | .01 | .02 | | | | | | | | | | | | | |
| 132.00-135.00 | 9321 | 3.00 | .15 | 6.5 | .02 | .01 | .03 | | | | | | | | | | | | | |
| 135.00-138.00 | 9322 | 3.00 | .10 | 22.0 | .02 | .02 | .02 | | | | | | | | | | | | | |
| 138.00-141.00 | 9323 | 3.00 | .10 | 10.5 | .02 | .01 | .03 | | | | | | | | | | | | | |
| 141.00-144.00 | 9324 | 3.00 | .15 | 16.5 | .01 | .01 | .04 | | | | | | | | | | | | | |
| 144.00-147.00 | 9325 | 3.00 | .05 | 12.0 | .02 | .01 | .01 | | | | | | | | | | | | | |
| 147.00-150.00 | 9326 | 3.00 | .10 | 9.5 | .02 | .01 | .02 | | | | | | | | | | | | | |
| 150.00-153.00 | 9327 | 3.00 | .20 | 28.0 | .02 | .01 | .01 | | | | | | | | | | | | | |
| 153.00-156.00 | 9328 | 3.00 | .05 | 9.5 | .03 | .01 | .02 | | | | | | | | | | | | | |
| 156.00-159.00 | 9329 | 3.00 | .15 | 15.5 | .13 | .06 | .01 | | | | | | | | | | | | | |
| 159.00-162.00 | 9330 | 3.00 | .25 | 30.5 | .07 | .02 | .01 | | | | | | | | | | | | | |
| 162.00-165.00 | 9331 | 3.00 | .25 | 35.5 | .06 | .02 | .01 | | | | | | | | | | | | | |
| 165.00-168.00 | 9332 | 3.00 | .15 | 17.0 | .02 | .01 | .01 | | | | | | | | | | | | | |
| 168.00-169.46 | 9333 | 1.46 | .70 | 43.5 | .02 | .01 | .01 | | | | | | | | | | | | | |
| 169.46-186.83 | WASTE | 17.37 | - | - | - | - | - | | | | | | | | | | | | | |
| 186.83-189.00 | 9334 | 2.17 | .05 | 24.0 | .02 | .01 | .01 | | | | | | | | | | | | | |
| 189.00-192.00 | 9335 | 3.00 | .45 | 22.5 | .11 | .07 | .03 | | | | | | | | | | | | | |
| 192.00-195.00 | 9336 | 3.00 | .50 | 25.0 | .14 | .02 | .01 | | | | | | | | | | | | | |
| 195.00-198.00 | 9337 | 3.00 | .45 | 15.5 | .04 | .01 | .01 | | | | | | | | | | | | | |
| 198.00-201.00 | 9338 | 3.00 | .40 | 5.5 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 201.00-204.00 | 9339 | 3.00 | .60 | 12.5 | .05 | .01 | .01 | | | | | | | | | | | | | |
| 204.00-207.00 | 9340 | 3.00 | .25 | 23.5 | .02 | .01 | .01 | | | | | | | | | | | | | |
| 207.00-210.00 | 9341 | 3.00 | .25 | 21.0 | .03 | .01 | .01 | | | | | | | | | | | | | |
| 210.00-213.35 | 9342 | 3.35 | .60 | 81.0 | .09 | .01 | .01 | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 700'(213.36M) | Date Began: AUGUST 21, 1980

Hole No.: DDH-D-24-80 | Co ord.: 6+94 W | Horizontal Length: 443.3' (135.1M) | Date Completed: AUGUST 25, 1980

Sheet No.: 1 OF 2 | 3+71 S | Direction: 270° | Drilled By: D. W. COATES

Claim No.: | Elevation: 1863 M. | Angle: -50 | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METER | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00- 4.00 | NO SAMPLE | 4.00 | | | | | | | | | | | | |
| 4.00- 7.00 | 9295 | 3.00 | .15 | 10.0 | .04 | .19 | .05 | | | | | | | |
| 7.00- 10.00 | 9296 | 3.00 | .15 | 13.5 | .05 | .18 | .03 | | | | | | | |
| 10.00- 19.26 | WASTE | 9.26 | - | - | - | - | - | | | | | | | |
| 19.26- 20.13 | 9297 | .87 | .10 | 14.5 | .09 | .06 | .02 | | | | | | | |
| 20.13- 20.28 | 9298 | .15 | .25 | 635.0 | 1.92 | .44 | .02 | | | | | | | |
| 20.28- 22.28 | 6064 | 2.00 | .10 | 28.7 | .21 | .29 | .01 | | | | | | | |
| 22.28- 24.28 | 6065 | 2.00 | .05 | 4.6 | .02 | .01 | .23 | | | | | | | |
| 24.28- 28.83 | WASTE | 4.55 | - | - | - | - | - | | | | | | | |
| 28.83- 29.83 | 6066 | 1.00 | .05 | 3.8 | .01 | .17 | .01 | | | | | | | |
| 29.83- 31.83 | 9299 | 2.00 | .10 | 23.5 | .08 | .17 | .01 | | | | | | | |
| 31.83- 32.83 | 9300 | 1.00 | .10 | 16.5 | .11 | .10 | .01 | | | | | | | |
| 32.83- 33.86 | 9301 | 1.03 | 5.25 | 566.0 | .53 | 6.55 | 1.61 | | | | | | | |
| 33.86- 35.65 | 9302 | 1.79 | .70 | 54.5 | .21 | .49 | .08 | | | | | | | |
| 35.65- 36.07 | 9303 | .42 | 20.30 | 517.0 | 2.10 | .59 | .16 | | | | | | | |
| 35.07- 39.00 | 9304 | 2.93 | 1.05 | 48.5 | .13 | .47 | .05 | | | | | | | |
| 39.00- 41.90 | 6067 | 2.90 | .05 | 3.8 | .03 | .13 | .01 | | | | | | | |
| 41.90- 42.30 | 9305 | .40 | 1.80 | 108.0 | .88 | .06 | .24 | | | | | | | |
| 42.30- 45.00 | 6068 | 2.70 | .05 | 3.5 | .01 | .12 | .01 | | | | | | | |
| 45.00- 48.00 | 6069 | 3.00 | .10 | 3.1 | .02 | .12 | .01 | | | | | | | |
| 48.00- 66.71 | WASTE | 18.71 | - | - | - | - | - | | | | | | | |
| 66.71- 69.00 | 9306 | 2.29 | .15 | .65 | .03 | .12 | .02 | | | | | | | |
| 69.00- 72.00 | 9307 | 3.00 | .10 | 8.0 | .07 | .13 | .02 | | | | | | | |
| 72.00- 75.00 | 9308 | 3.00 | .20 | 26.5 | .15 | .25 | .16 | | | | | | | |
| 75.00- 77.87 | 9309 | 2.87 | .20 | 47.5 | .16 | .09 | .07 | | | | | | | |
| 77.87- 80.35 | WASTE | 2.48 | - | - | - | - | - | | | | | | | |
| 80.35- 80.55 | 6070 | .20 | 3.75 | 428.0 | .84 | .73 | .77 | | | | | | | |
| 80.55- 86.24 | WASTE | 5.69 | - | - | - | - | - | | | | | | | |
| 86.24- 87.24 | 9310 | 1.00 | .05 | 7.0 | .04 | .07 | .04 | | | | | | | |
| 87.24- 87.50 | 9311 | .26 | .40 | 29.5 | .09 | .20 | .02 | | | | | | | |
| 87.50- 88.50 | 9312 | 1.00 | .25 | 26.0 | .05 | .04 | .02 | | | | | | | |
| 88.50-109.10 | WASTE | 20.60 | - | - | - | - | - | | | | | | | |
| 109.10-111.10 | 9313 | 2.00 | .10 | 16.5 | .03 | .33 | .03 | | | | | | | |
| 111.10-115.60 | 9314 | 4.50 | .10 | 8.0 | .03 | .10 | .02 | | | | | | | |
| 115.60-117.00 | 9315 | 1.40 | .15 | 15.5 | .10 | .09 | .03 | | | | | | | |
| 117.00-120.00 | 9316 | 3.00 | .10 | 26.0 | .01 | .01 | .09 | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 650' (198.12M) | Date Began: AUGUST 26, 1980
Hole No.: DDH-D-25-80 | Co ord.: 7+34W | Horizontal Length: 417.81 (127.35M) | Date Completed: AUGUST 28, 1980
Sheet No.: 1 OF 2 | 4+38S | Direction: 270° | Drilled By: D. W. COATES
Claim No.: | Elevation: 1839M | Angle: -50° | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 2.44 | CASING | | | | | | | | | | | |
| 2.44-148.13 | Rhyolite breccia white to light to dark grey in colour characterized by numerous intensely hematitic alteration zones. Rock very similar to unit described in DDH-D-1 and should assay quite high. Mineralization is in the form of pyrite sphalerite as fine grains and a black mineral (argentite?). | | | | | | | | | | | |
| | Hematitic zones areas follows: | | | | | | | | | | | |
| | 16.12-17.00 weak to moderate alteration on fracture. | | | | | | | | | | | |
| | 19.82-20.22 as above. | | | | | | | | | | | |
| | 22.80-22.56 intense at 22.91-22.96 2cm wide limonite filled fracture at 20° to core | | | | | | | | | | | |
| | 25.14-26.16 weak to moderate alteration surrounding fracture parallel to core. | | | | | | | | | | | |
| | 26.55-27.00 weak alteration-highly fracture rock. | | | | | | | | | | | |
| | 27.30-27.77 as above 26.55-27.00. | | | | | | | | | | | |
| | 28.04-29.26 weak to intense-section vuggy & highly fractured. | | | | | | | | | | | |
| | 29.12-29.26 gouge filled fracture 1cm wide parallel to core. | | | | | | | | | | | |
| | 31.34-32.00 as above 26.55-27.00. | | | | | | | | | | | |
| | 35.78 1cm wide fracture-brick red in colour. | | | | | | | | | | | |
| | 36.43 2cm wide brecciated zone at 25° to core-brick red in colour. | | | | | | | | | | | |
| | 37.02 as above 35.78. | | | | | | | | | | | |
| | 37.88-38.10 as above 28.04-29.26. | | | | | | | | | | | |
| | 38.70-38.88 limonite filled fractures. | | | | | | | | | | | |
| | 39.64-39.70 as above 35.78. | | | | | | | | | | | |
| | 39.96 as above 38.70-38.88-fractures at 90° to core. | | | | | | | | | | | |
| | 40.30-40.47 as above 28.04-29.26. | | | | | | | | | | | |
| | 44.35 as above 35.78-30° to core. | | | | | | | | | | | |
| | 44.41 as above 44.35. | | | | | | | | | | | |
| | 45.40-45.53 as above 36.43. | | | | | | | | | | | |
| | 46.31-47.20 as above 56.43. | | | | | | | | | | | |
| | 57.90-58.28 as above 28.04-29.26. | | | | | | | | | | | |
| | 59.13-59.30) as above 28.04-29.26. | | | | | | | | | | | |
| | 60.10-60.38) " " " " | | | | | | | | | | | |
| | 66.02-66.10 intense brick red alteration | | | | | | | | | | | |
| | 68.60-68.80 " " " " | | | | | | | | | | | |
| | 68.90-69.40 " " " " | | | | | | | | | | | |
| | 70.00-70.27 " " " " | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-25-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 2 OF 2 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 74.30-78.28 intense brick red alteration. | | | | | | | | | | | |
| | 79.12-90.72 " " " " . | | | | | | | | | | | |
| | 92.76-93.49 " " " " . | | | | | | | | | | | |
| | 93.86-143.69 " " " " . Some minor dark grey bands. | | | | | | | | | | | |
| | 69.50 1cm wide pod of pyrite, sphalerite & minor galena. | | | | | | | | | | | |
| | 93.86-98.40 broken core. | | | | | | | | | | | |
| | 108.53-111.15 leached zone white in colour. | | | | | | | | | | | |
| | 118.35-118.95 fracture parallel to core. | | | | | | | | | | | |
| | 118.95 siliceous unaltered dark & medium grey pyrite. | | | | | | | | | | | |
| | 123.44 light & dark grey vuggy hematitic section-vuggy. | | | | | | | | | | | |
| | 123.94-126.64 dark grey section in colour. | | | | | | | | | | | |
| | 129.10-129.40 section appears higher grade than above pyrite sphalerite and minor galena & cpy(?). | | | | | | | | | | | |
| | 142.69-143.30 high grade zone with numerous large pods of garnets, pyrite, sphalerite, galena and minor cyp. | | | | | | | | | | | |
| 148.13-160.32 | Chalky white to cream regional rhyolite dyke-upper porhyritic section from 148.13-151.78. Same dyke as seen in DDH-D-1. | | | | | | | | | | | |
| 160.32-198.11 | Fresh unaltered rhyolite breccia exposed at surface as unit 2. Unit is characterized by large (up to 3cm) angular fresh rhyolite fragments in a dark aphanitic matrix. Upper section appears kaolinitized and intensely mineralized. The unit is cut by a small chalky rhyolite dyke at 181.96-188.36. | | | | | | | | | | | |
| | 160.32-167.26 Kaolinitized section. | | | | | | | | | | | |
| | 181.96-188.36 Chalky rhyolite dyke. | | | | | | | | | | | |
| | END OF HOLE | | | | | | | | | | | |
| | TESTS: SPERRY SUNN SINGLE SHOT | | | | | | | | | | | |
| | DIP -50° AZIMUTH 286° | | | | | | | | | | | |
| | ~~700'(213.35M)~~ 650' (198.12m) | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 650'(198.12M) | Date Began: AUGUST 26, 1980

Hole No.: DDH-D-25-80 | Co ord.: 7+34 W, 4+38 S | Horizontal Length: 417.81(127.35M) | Date Completed: AUGUST 28, 1980

Sheet No.: 1 OF 2 | Direction: 270° | Drilled By: D. W. COATES

Claim No.: | Elevation: 1839 M | Angle: -50° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METER | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00- 4.00 | WASTE | 4.00 | | | | | | | | | | | | | | | | | | |
| 4.00- 7.00 | 9343 | 3.00 | .05 | 9.5 | .01 | .01 | .01 | | | | | | | | | | | | | |
| 7.00- 10.00 | 9344 | 3.00 | .05 | 16.5 | .01 | .03 | .01 | | | | | | | | | | | | | |
| 10.00- 13.00 | 9345 | 3.00 | .05 | 13.0 | - | .01 | .04 | | | | | | | | | | | | | |
| 13.00- 16.00 | 9346 | 3.00 | .10 | 11.5 | | .01 | .02 | | | | | | | | | | | | | |
| 16.00- 19.00 | 9347 | 3.00 | .15 | 10.0 | | .01 | .02 | | | | | | | | | | | | | |
| 19.00- 22.00 | 9348 | 3.00 | .15 | 14.0 | | .01 | .01 | | | | | | | | | | | | | |
| 22.00- 25.00 | 9349 | 3.00 | .10 | 40.0 | | .01 | .01 | | | | | | | | | | | | | |
| 25.00- 28.00 | 9350 | 3.00 | .15 | 66.5 | | .01 | .01 | | | | | | | | | | | | | |
| 28.00- 31.00 | 9351 | 3.00 | .15 | 38.0 | | .01 | .02 | | | | | | | | | | | | | |
| 31.00- 34.00 | 9352 | 3.00 | .05 | 35.0 | | .01 | .01 | | | | | | | | | | | | | |
| 34.00- 37.00 | 9353 | 3.00 | .05 | 13.0 | | .01 | .01 | | | | | | | | | | | | | |
| 37.00- 40.00 | 9354 | 3.00 | .15 | 72.5 | | .01 | .01 | | | | | | | | | | | | | |
| 40.00- 43.00 | 9355 | 3.00 | .15 | 9.5 | | .01 | .01 | | | | | | | | | | | | | |
| 43.00- 46.00 | 9356 | 3.00 | .30 | 31.5 | | .01 | .01 | | | | | | | | | | | | | |
| 46.00- 49.00 | 9357 | 3.00 | .15 | 35.0 | | .01 | .01 | | | | | | | | | | | | | |
| 49.00- 52.00 | 9358 | 3.00 | .10 | 16.5 | | .01 | .01 | | | | | | | | | | | | | |
| 52.00- 55.00 | 9359 | 3.00 | .15 | 17.5 | | .01 | .01 | | | | | | | | | | | | | |
| 55.00- 58.00 | 9360 | 3.00 | .10 | 43.0 | | .01 | .01 | | | | | | | | | | | | | |
| 58.00- 61.00 | 9361 | 3.00 | .15 | 67.0 | | .01 | .12 | | | | | | | | | | | | | |
| 61.00- 64.00 | 9362 | 3.00 | .05 | 23.0 | | .01 | .02 | | | | | | | | | | | | | |
| 64.00- 67.00 | 9363 | 3.00 | .10 | 22.5 | | .01 | .02 | | | | | | | | | | | | | |
| 67.00- 70.00 | 9364 | 3.00 | .65 | 115.0 | | .04 | .03 | | | | | | | | | | | | | |
| 70.00- 73.00 | 9365 | 3.00 | .55 | 89.5 | | .01 | .02 | | | | | | | | | | | | | |
| 73.00- 76.00 | 9366 | 3.00 | .50 | 63.0 | | .01 | .01 | | | | | | | | | | | | | |
| 76.00- 79.00 | 9367 | 3.00 | .85 | 52.5 | | .02 | .02 | | | | | | | | | | | | | |
| 79.00- 82.00 | 9368 | 3.00 | .75 | 61.5 | | .01 | .02 | | | | | | | | | | | | | |
| 82.00- 85.00 | 9369 | 3.00 | .30 | 71.0 | | .01 | .02 | | | | | | | | | | | | | |
| 85.00- 88.00 | 9370 | 3.00 | .10 | 5.5 | | .01 | .03 | | | | | | | | | | | | | |
| 88.00- 91.00 | 9371 | 3.00 | .15 | 6.5 | | .01 | .02 | | | | | | | | | | | | | |
| 91.00- 94.00 | 9372 | 3.00 | .10 | 56.0 | | .01 | .02 | | | | | | | | | | | | | |
| 94.00- 97.00 | 9373 | 3.00 | .10 | 12.5 | | .01 | .03 | | | | | | | | | | | | | |
| 97.00-100.00 | 9374 | 3.00 | .05 | 16.5 | | .01 | .02 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 650' (198.12M) | Date Began: AUGUST 26, 1980
Hole No.: DDH-D-25-80 | Co ord. | Horizontal Length | Date Completed: AUGUST 28, 1980
Sheet No.: 2 OF 2 | Direction: 270 | Drilled By: D. W. COATES
Claim No. | Elevation | Angle: -50 | Logged By: D. E. LUMLEY

| ~~FROM~~ ~~TO~~ METER | NUMBER | WIDTH M | Au. | Ag. | Cu. | Zn. | Pb | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100.00-103.00 | 9375 | 3.00 | .10 | 24.0 | | .01 | .01 | | | | | | | | | | | | | |
| 103.00-106.00 | 9376 | 3.00 | .15 | 71.0 | | .01 | .01 | | | | | | | | | | | | | |
| 106.00-109.00 | 9377 | 3.00 | .20 | 54.0 | | .01 | .01 | | | | | | | | | | | | | |
| 109.00-112.00 | 9378 | 3.00 | .35 | 41.0 | | .01 | .02 | | | | | | | | | | | | | |
| 112.00-115.00 | 9379 | 3.00 | .75 | 55.0 | | .01 | .04 | | | | | | | | | | | | | |
| 115.00-118.00 | 9380 | 3.00 | .15 | 33.5 | | .01 | .01 | | | | | | | | | | | | | |
| 118.00-121.00 | 9381 | 3.00 | .15 | 24.5 | | .01 | .02 | | | | | | | | | | | | | |
| 121.00-124.00 | 9382 | 3.00 | 4.65 | 61.0 | | .01 | .02 | | | | | | | | | | | | | |
| 124.00-127.00 | 9383 | 3.00 | .55 | 127.0 | | .02 | .13 | | | | | | | | | | | | | |
| 127.00-130.00 | 9384 | 3.00 | .75 | 194.0 | | .02 | .14 | | | | | | | | | | | | | |
| 130.00-133.00 | 9385 | 3.00 | .20 | 20.5 | | .01 | .09 | | | | | | | | | | | | | |
| 133.00-136.00 | 9386 | 3.00 | .40 | 59.0 | | .01 | .10 | | | | | | | | | | | | | |
| 136.00-139.00 | 9387 | 3.00 | 1.00 | 243.0 | | .01 | .08 | | | | | | | | | | | | | |
| 139.00-142.00 | 9388 | 3.00 | .35 | 147.0 | | .01 | .03 | | | | | | | | | | | | | |
| 142.00-145.00 | 9389 | 3.00 | .10 | 45.5 | | .15 | .37 | | | | | | | | | | | | | |
| 145.00-148.13 | 9390 | 3.13 | .05 | 36.5 | | .21 | .38 | | | | | | | | | | | | | |
| 148.13-160.32 | WASTE | 12.19 | | | | | | | | | | | | | | | | | | |
| 160.32-163.00 | 9391 | 2.68 | .20 | 66.0 | | .39 | .15 | | | | | | | | | | | | | |
| 163.00-166.00 | 9392 | 3.00 | .40 | 54.5 | | .15 | .08 | | | | | | | | | | | | | |
| 166.00-169.00 | 9393 | 3.00 | .40 | 28.0 | | .19 | .04 | | | | | | | | | | | | | |
| 169.00-172.00 | 9394 | 3.00 | .20 | 15.0 | | .18 | .01 | | | | | | | | | | | | | |
| 172.00-175.00 | 9395 | 3.00 | .30 | 26.5 | | .12 | .03 | | | | | | | | | | | | | |
| 175.00-178.00 | 9396 | 3.00 | .10 | 19.5 | | .10 | .02 | | | | | | | | | | | | | |
| 178.00-181.00 | 9397 | 3.00 | .05 | 9.0 | | .17 | .02 | | | | | | | | | | | | | |
| 181.00-181.96 | 9398 | .96 | .05 | 12.0 | | .10 | .02 | | | | | | | | | | | | | |
| 181.96-188.36 | WASTE | 6.40 | | | | | | | | | | | | | | | | | | |
| 188.36-190.00 | 9399 | 1.64 | .25 | 37.5 | | .18 | .06 | | | | | | | | | | | | | |
| 190.00-193.00 | 9400 | 3.00 | .20 | 23.0 | | .28 | .05 | | | | | | | | | | | | | |
| 193.00-196.00 | 9401 | 3.00 | .15 | 18.5 | | .02 | .15 | | | | | | | | | | | | | |
| 196.00-198.12 | 9402 | 2.12 | .15 | 6.5 | | .02 | .21 | | | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: 716' (218.23M) | Date Began: AUGUST 30, 1980
Hole No.: DDH-D-26-80 | Co ord.: 7+87W | Horizontal Length: 436.67' (133.09M) | Date Completed: SEPTEMBER 2, 1980
Sheet No.: 1 OF 5 | 1+87S | Direction: 270° | Drilled By: D. W. COATES
Claim No.: | Elevation: 1902 | Angle: -55° | Logged By: W. E. LUMLEY

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 - 2.44 | Casing | | | | | | | | | | | |
| 2.44- 32.30 | Coarse rhyolite breccia with very large fragments up to 10cm in diameter. Unit is quite highly fractured and where fractured is hematitic. Fragments are a cherty rhyolite dark grey in colour in a lighter coloured matrix. Unit is mineralized with minor pyrite & garnets and very minor galena & sphalerite. Mineralization occurrs mostly in vuggy pods. Fracturing occurs at 10-40° to core with alteration 1cm on either side. | | | | | | | | | | | |
| | 11.83-12.26 Highly fractured section light brown in colour. | | | | | | | | | | | |
| | 14.54 3cm wide brecciated zone-hematitic. | | | | | | | | | | | |
| | 15.33 large garnet rich pod 3cm in diameter - somewhat vuggy. | | | | | | | | | | | |
| | 16.30 same as 14.54. | | | | | | | | | | | |
| | 18.00-19.37 section characterized by numerous fine fractures large fractures filled with garnet ± sphalerite. | | | | | | | | | | | |
| | 22.25-25.30 section where breccia is well displayed. | | | | | | | | | | | |
| | 28.02-32.30 breccia becoming darker as hole deepens. | | | | | | | | | | | |
| | 28.02-28.35 broken core. | | | | | | | | | | | |
| 32.30- 35.51 | Greenish black andesite & minor tuff. Andesite is typical aphanitic black to greenish black unit characterized by pervasive pyrite. | | | | | | | | | | | |
| 35.51-68.41 | Coarse rhyolite breccia. Breccia unit is same as unit above 2.44-32.30. | | | | | | | | | | | |
| | 35.51-41.05 unit is very dark grey with fragments closely packed. Fragments appear to be andesite in a fine light grey rhyolite matrix. | | | | | | | | | | | |
| | 40.00-40.13 hematitic fracture at 20° to core. | | | | | | | | | | | |
| | 41.05-44.12 section is quite highly kaolinitized-fragments are light green in colour in a light grey matrix. Section is vuggy & somewhat leached. | | | | | | | | | | | |
| | 44.12-47.55 section characterized by reaction rims surrounding sulphides - somewhat kaolinitized should be high grade especially at 45.05-45.60. | | | | | | | | | | | |
| | 47.55-50.98 section similar to 41.09-44.12 with some hematitic section. | | | | | | | | | | | |
| | 48.95-49.30 highly fractured intensely hematitic section section fracturing parallel to core. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth | Date Began
Hole No.: DDH-D-26-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 2 OF 5 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50.98-68.41 Mineralization increasing with depth-some zones of intense mineralization, but overall grade here appears low. | | | | | | | | | | | |
| | 52.17-52.27 zone of high grade mineralization dark grey black in colour. | | | | | | | | | | | |
| | 52.80 1cm wide garnet filled fracture. | | | | | | | | | | | |
| | 52.94 1cm wide hematite filled fracture. | | | | | | | | | | | |
| | 53.35-54.22 zone rich in garnets and what appears to be sphalerite. Section contains some very large fragments-at 53.35 fragment is 10cm in diameter. | | | | | | | | | | | |
| | 54.80-55.30 hematitic fracture at 5° to core. | | | | | | | | | | | |
| | 55.87-56.04 kaolinitized zone light grey in colour. | | | | | | | | | | | |
| | 56.69-66.80 Tuff unit-fragments are fewer occupying approximately 30% of composition. The smaller fragments appear reworked. | | | | | | | | | | | |
| | 62.61-63.89 sheared zone dark olive green in colour. | | | | | | | | | | | |
| | 64.88 2cm wide pod of garnets and minor sphalerite. | | | | | | | | | | | |
| | 66.80-68.41 breccia zone clasts up to .3cm in a dark grey matrix. | | | | | | | | | | | |
| 68.41-112.17 | Mineralized rhyolite tuff unit with minor interbedded rhyolite breccia. Tuff unit is light grey to white in colour & mineralized with fine disseminated pyrite, sphalerite & galena. Best mineralized section is 86.21-88.11. Unit where fracture is again hematitic. Mineralization occurs as black patches & pods of sulphides. | | | | | | | | | | | |
| | 68.41-79.86 Tuff unit light grey in colour-few minor fragments. | | | | | | | | | | | |
| | 68.41-86.21 Unit is weakly mineralized | | | | | | | | | | | |
| | 68.88-68.98 dark olive grey coloured kaolinitized fracture at 10° to core. | | | | | | | | | | | |
| | 69.22 1cm wide hematite filled fracture. | | | | | | | | | | | |
| | 71.00-71.13 light green grey altered section. | | | | | | | | | | | |
| | 73.42-73.80 hematitic zone surrounding fracture parallel to core. | | | | | | | | | | | |
| | 75.40-76.35 section characterized by fresh garnets in pods approximately 2-5mm in width. | | | | | | | | | | | |
| | 77.47-78.03 weakly hematite zone surrounding fracture parallel to core. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth: | Date Began:
Hole No.: DDH-D-26-80 | Co ord.: | Horizontal Length: | Date Completed:
Sheet No.: 3 OF 5 | Direction: | Drilled By:
Claim No.: | Elevation: | Angle: | Logged By:

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 79.86-85.60 Breccia Zone-fragments large & occupy 60% of area. | | | | | | | | | | | |
| | 85.60-112.17 rhyolite tuff section with a minor rhyolite section weak to highly mineralized. | | | | | | | | | | | |
| | 86.21-86.42 zone of intense mineralization-dark grey in colour. | | | | | | | | | | | |
| | 87.33-87.38 as above 86.21-86.42. | | | | | | | | | | | |
| | 87.70-88.11 as above 86.21-86.42. | | | | | | | | | | | |
| | 91.00-98.07 rhyolite zone no fragments locally highly fractured and hematitic-very poor recovery overall with some lost core. | | | | | | | | | | | |
| | 91.75-94.19 lost core-breccia zone hematite stained gouge. | | | | | | | | | | | |
| | 94.19-94.79 zone of intense fracturing & hematitization. | | | | | | | | | | | |
| | 95.09-95.55 highly fractured & intensely hematitic zone. | | | | | | | | | | | |
| | 96.09 .5cm wide hematitic fracture at 70° to core. | | | | | | | | | | | |
| | Other hematitic zones are as follows: | | | | | | | | | | | |
| | 96.38-96.41 intense. | | | | | | | | | | | |
| | 96.45- 1cm wide fracture intense. | | | | | | | | | | | |
| | 96.51-69.63 weak. | | | | | | | | | | | |
| | 96.71-96.79 intense. | | | | | | | | | | | |
| | 97.71-97.84 weak. | | | | | | | | | | | |
| | 98.07-112.17 dark grey rhyolite tuff with some scattered fragments overall weakly mineralized. Very uniform in composition & texture. | | | | | | | | | | | |
| 112.17-127.10 | Regional rhyolite dyke-chalky olive green in colour-barren. | | | | | | | | | | | |
| 127.10-142.04 | Rhyolite breccia unit very highly fractured entirely broken core with poor recovery. | | | | | | | | | | | |
| 142.04-157.81 | Rhyolite breccia unit-generally highly kaolinitized & very weakly mineralized with pyrite & garnets & sphalerite. | | | | | | | | | | | |
| | 145.06-146.00 extremely altered section kaolinitized & hematitic. | | | | | | | | | | | |
| | 146.64-146.79 as above 145.06-146.00. | | | | | | | | | | | |
| | 147.10 1cm wide brecciated fracture at 45° to core. | | | | | | | | | | | |
| | 148.44-149.47 as above 145.06-146.00. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION
# DIAMOND DRILL LOG

Property ...CAPOOSE... Project No.. 70113.... Depth ..... Date Began .....
Hole No. DDH-D-26-80..... Co ord. ..... Horizontal Length ..... Date Completed .....
Sheet No. 4 OF 5..... ..... Direction ..... Drilled By.....
Claim No. ..... Elevation ..... Angle ..... Logged By.....

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 149.96-150.30 as above 145.00-146.00. | | | | | | | | | | | |
| | 150.40-150.61 " " " " . | | | | | | | | | | | |
| | 151.01-151.11 " " " " . | | | | | | | | | | | |
| | 151.34-151.40 " " " " . | | | | | | | | | | | |
| | 153.95-154.73 " " " " , but not hematitic. | | | | | | | | | | | |
| | 155.60-155.75 intensely kaolinitized section light cream yellow contains large blebs of black mineralization (sphalerite?). | | | | | | | | | | | |
| | 156.61-157.30 mottled section of alternating bands of dark green & light cream white fragments. | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 157.81-186.84 | Uniform well mineralized light grey rhyolite tuff. Mineralized with a few veins of pyrite, garnets, galena, & sphalerite with additional sulphide occurring as blebs & pods giving the core the appearance of sprinkled pepper. The unit is uniform in composition & texture. | | | | | | | | | | | |
| | 158.00-158.50 high grade section with galena, sphalerite, & pyrite in pods. | | | | | | | | | | | |
| | 159.82-160.00 zone of intense black mineralization (sphalerite?). | | | | | | | | | | | |
| | 161.45-161.64 very light grey bleached section at 30° to core. | | | | | | | | | | | |
| | 161.74-161.81 as above 161.45-161.64. | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | 169.59 1cm wide vein of pyrite, sphalerite, galena garnets. | | | | | | | | | | | |
| | 171.80-173.00 very high grade section with numerous pods & blebs of sulphides. | | | | | | | | | | | |
| | 172.07-172.45 numerous pods of garnets, pyrite, sphalerite, and galena. | | | | | | | | | | | |
| | 172.33 .5cm wide pod of sulphides. | | | | | | | | | | | |
| | 172.52-172.83 high grade vein-pyrite, garnets, galena, sphalerite. | | | | | | | | | | | |
| | 176.54-176.87 broken core. | | | | | | | | | | | |
| | 177.35 pod at 20° to core. | | | | | | | | | | | |
| | 178.46-178.72 broken core. | | | | | | | | | | | |
| | 183.45-183.49 sulphide zone with sulphides occurring as matrix to breccia. | | | | | | | | | | | |
| | 183.49-186.84 high grade zone numerous blebs of galena & sphalerite. | | | | | | | | | | | |

GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL LOG

Property: CAPOOSE | Project No.: 70113 | Depth | Date Began
Hole No.: DDH-D-26-80 | Co ord. | Horizontal Length | Date Completed
Sheet No.: 5 OF 5 | Direction | Drilled By
Claim No. | Elevation | Angle | Logged By

| FOOTAGE | DESCRIPTION | ALTERATION FROM | TO | | | | | | | | | % REC'Y CALC'D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 184.45-184.53 breccia zone similar to 183.45-184.49. | | | | | | | | | | | |
| 186.84-218.23 | light grey rhyolite breccia zone weak to moderately mineralized with some minor siliceous sections. Overall appears to have less sulphides with sulphides occurring as smears & dendrites around fragments. Some local vuggy sections after sulphides. | | | | | | | | | | | |
| | 189.72 2mm wide sulphide filled fracture at 40° to core. | | | | | | | | | | | |
| | 191.10-194.27 siliceous section highly leached and vuggy after sulphides. | | | | | | | | | | | |
| | 192.98-193.04 vein of high grade sulphides galena, sphalerite, pyrite, garnets. | | | | | | | | | | | |
| | 195.28-195.70 2mm wide vein of sulphides parallel to core. | | | | | | | | | | | |
| | END OF CORE | | | | | | | | | | | |
| | TEST SPERRY SUN SINGLE SHOT | | | | | | | | | | | |
| | DIP / AZIMUTH | | | | | | | | | | | |
| | 500' -51° 277° | | | | | | | | | | | |
| | 700' -51° 277° | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 716' (218.24M) | Date Began: AUGUST 30, 1980

Hole No.: DDH-D-26-80 | Co ord.: 7+87 W | Horizontal Length: 436.67' (133.09M) | Date Completed: SEPTEMBER 2, 1980

Sheet No.: 1 OF 2 | 1+87 S | Direction: 270° | Drilled By: D. W. COATES

Claim No.: | Elevation: 1902 M. | Angle: -55° | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METERS | NUMBER | WIDTH M | Au. g/t | Ag. g/t | ~~Cu.~~ Pb | Zn. | | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00- 4.00 | WASTE | 4.00 | | | | | | | | | | | | | | | | | | |
| 4.00- 7.00 | 9403 | 3.00 | .05 | 2.0 | .01 | .17 | | | | | | | | | | | | | | |
| 7.00- 10.00 | 9404 | 3.00 | .05 | 2.5 | .01 | .24 | | | | | | | | | | | | | | |
| 10.00- 13.00 | 9405 | 3.00 | .05 | 2.0 | .01 | .09 | | | | | | | | | | | | | | |
| 13.00- 16.00 | 9406 | 3.00 | .05 | 3.5 | .01 | .05 | | | | | | | | | | | | | | |
| 16.00- 19.00 | 9407 | 3.00 | .10 | 9.0 | .01 | .02 | | | | | | | | | | | | | | |
| 19.00- 22.00 | 9408 | 3.00 | .20 | 9.0 | .05 | .10 | | | | | | | | | | | | | | |
| 22.00- 25.00 | 9409 | 3.00 | .15 | 1.0 | .01 | .17 | | | | | | | | | | | | | | |
| 25.00- 28.00 | 9410 | 3.00 | .45 | 5.5 | .01 | .04 | | | | | | | | | | | | | | |
| 28.00- 31.00 | 9411 | 3.00 | 2.75 | 5.0 | .02 | .03 | | | | | | | | | | | | | | |
| 31.00- 35.51 | WASTE | 3.00 | | | | | | | | | | | | | | | | | | |
| 35.51- 38.00 | 9412 | 3.00 | .10 | 2.0 | .01 | .20 | | | | | | | | | | | | | | |
| 38.00- 41.00 | 9413 | 3.00 | .05 | 1.0 | .01 | .29 | | | | | | | | | | | | | | |
| 41.00- 44.00 | 9414 | 3.00 | .05 | 1.5 | .01 | .08 | | | | | | | | | | | | | | |
| 44.00- 47.00 | 9415 | 3.00 | .05 | 4.0 | .01 | .09 | | | | | | | | | | | | | | |
| 47.00- 50.00 | 9416 | 3.00 | .05 | 5.5 | .01 | .03 | | | | | | | | | | | | | | |
| 50.00- 53.00 | 9417 | 3.00 | .05 | 31.0 | .01 | .02 | | | | | | | | | | | | | | |
| 53.00- 56.00 | 9418 | 3.00 | .10 | 57.0 | .07 | .01 | | | | | | | | | | | | | | |
| 56.00- 59.00 | 9419 | 3.00 | .80 | 230.0 | .38 | .05 | | | | | | | | | | | | | | |
| 59.00- 62.00 | 9420 | 3.00 | .65 | 109.0 | .18 | .09 | | | | | | | | | | | | | | |
| 62.00- 65.00 | 9421 | 3.00 | .05 | 21.5 | .05 | .01 | | | | | | | | | | | | | | |
| 65.00- 68.00 | 9422 | 3.00 | .05 | 13.5 | .03 | .01 | | | | | | | | | | | | | | |
| 68.00- 71.00 | 9423 | 3.00 | .03 | 9.0 | .02 | .02 | | | | | | | | | | | | | | |
| 71.00- 74.00 | 9424 | 3.00 | .05 | 11.0 | .01 | .07 | | | | | | | | | | | | | | |
| 74.00- 77.00 | 9425 | 3.00 | .10 | 29.0 | .03 | .06 | | | | | | | | | | | | | | |
| 77.00- 80.00 | 9426 | 3.00 | .35 | 75.5 | .10 | .10 | | | | | | | | | | | | | | |
| 80.00- 83.00 | 9427 | 3.00 | .05 | 30.0 | .04 | .07 | | | | | | | | | | | | | | |
| 83.00- 86.00 | 9428 | 3.00 | .40 | 66.0 | .10 | .09 | | | | | | | | | | | | | | |
| 86.00- 88.00 | 9429 | 2.00 | .20 | 76.5 | .08 | .10 | | | | | | | | | | | | | | |
| 88.00- 91.00 | 9430 | 3.00 | .30 | 146.0 | .27 | .17 | | | | | | | | | | | | | | |
| 91.00- 94.00 | NO SAMPLE-POOR | | | | | | | | | | | | | | | | | | | * ASSUMED AVERAGE |
| | RECOVERY | 3.00 | ( .40 | 96.0 | .16 | .09 ) | | | | | | | | | | | | | | |
| 94.00- 97.00 | 9431 | 3.00 | .55 | 46.5 | .10 | .02 | | | | | | | | | | | | | | |
| 97.00-100.00 | 9432 | 3.00 | .35 | 37.5 | .12 | .18 | | | | | | | | | | | | | | |
| 100.00-103.00 | 9433 | 3.00 | .30 | 27.0 | .06 | .12 | | | | | | | | | | | | | | |
| 103.00-106.00 | 9434 | 3.00 | .50 | 61.0 | .10 | .14 | | | | | | | | | | | | | | |
| 106.00-109.00 | 9435 | 3.00 | .60 | 96.0 | .17 | .04 | | | | | | | | | | | | | | |
| 109.00-112.35 | 9436 | 3.35 | .30 | 36.5 | .03 | .06 | | | | | | | | | | | | | | |

# GRÄNGES EXPLORATION AB
CANADIAN DIVISION

# DIAMOND DRILL RECORD

Property: CAPOOSE | Project No.: 70113 | Depth: 716'(218.24M) | Date Began: AUGUST 30, 1980

Hole No.: DDH-D-26-80 | Co ord. | Horizontal Length | Date Completed: SEPTEMBER 2, 1980

Sheet No.: 2 OF 2 | Direction: 270° | Drilled By: D. W. COATES

Claim No. | Elevation | Angle: -55 | Logged By: W. E. LUMLEY

| ~~FOOTAGE~~ METER | NUMBER | WIDTH M | Au. g/t | Ag. g/t | Pb ~~Cu.~~ | Zn. | ~~Pb~~ | WIDTH X ASSAY | | | | | | AVERAGES WIDTH | Au. | Ag. | Cu. | Zn. | Pb | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.35-127.10 | WASTE | 14.75 | | | | | | | | | | | | | | | | | | |
| 127.10-131.00 | 9437 | 3.90 | .15 | 12.5 | .01 | .10 | | | | | | | | | | | | | | |
| 131.00-135.33 | NO SAMPLE-POOR | | | | | | | | | | | | | | | | | | | |
| | RECOVERY | 4.33 | | | | | | | | | | | | | | | | | | |
| 135.33-139.00 | 9438 | 3.77 | .50 | 57.5 | .01 | .24 | | | | | | | | | | | | | | |
| 139.00-142.00 | 9439 | 3.00 | .05 | 10.0 | .03 | .03 | | | | | | | | | | | | | | |
| 142.00-145.00 | 9440 | 3.00 | .15 | 19.0 | .02 | .05 | | | | | | | | | | | | | | |
| 145.00-148.00 | 9441 | 3.00 | .10 | 12.5 | .11 | .05 | | | | | | | | | | | | | | |
| 148.00-151.00 | 9442 | 3.00 | .05 | 6.5 | .13 | .01 | | | | | | | | | | | | | | |
| 151.00-154.00 | 9443 | 3.00 | .05 | 12.0 | .08 | .05 | | | | | | | | | | | | | | |
| 154.00-157.00 | 9444 | 3.00 | .20 | 11.0 | .13 | .14 | | | | | | | | | | | | | | |
| 157.00-160.00 | 9445 | 3.00 | .45 | 24.0 | .24 | .21 | | | | | | | | | | | | | | |
| 160.00-163.00 | 9446 | 3.00 | .10 | 10.0 | .18 | .25 | | | | | | | | | | | | | | |
| 163.00-166.00 | 9447 | 3.00 | .05 | 7.5 | .07 | .10 | | | | | | | | | | | | | | |
| 166.00-169.00 | 9448 | 3.00 | .05 | 14.5 | .09 | .10 | | | | | | | | | | | | | | |
| 169.00-172.52 | 9449 | 3.52 | .05 | 15.0 | .12 | .15 | | | | | | | | | | | | | | |
| 172.52-172.82 | 9450 | 0.30 | 3.65 | 402.0 | 4.96 | 1.55 | | | | | | | | | | | | | | |
| 172.82-175.00 | 9451 | 2.18 | .05 | 11.5 | .12 | .13 | | | | | | | | | | | | | | |
| 175.00-178.00 | 9452 | 3.00 | .05 | 12.0 | .11 | .06 | | | | | | | | | | | | | | |
| 178.00-181.00 | 9453 | 3.00 | .05 | 12.5 | .06 | .10 | | | | | | | | | | | | | | |
| 181.00-183.15 | 9454 | 2.15 | .25 | 33.5 | .13 | .14 | | | | | | | | | | | | | | |
| 183.15-183.49 | 9455 | .34 | 4.60 | 292.0 | 2.68 | 7.05 | | | | | | | | | | | | | | |
| 183.49-184.45 | 9456 | .96 | .25 | 26.0 | .15 | .56 | | | | | | | | | | | | | | |
| 184.45-184.53 | 9457 | .08 | 2.30 | 314.0 | 2.44 | 1.46 | | | | | | | | | | | | | | |
| 184.53-187.00 | 9458 | 2.47 | .10 | 17.0 | .14 | .15 | | | | | | | | | | | | | | |
| 187.00-190.00 | 9459 | 3.00 | .05 | 11.5 | .13 | .11 | | | | | | | | | | | | | | |
| 190.00-192.98 | 9460 | 2.98 | .05 | 8.0 | .08 | .10 | | | | | | | | | | | | | | |
| 192.98-193.04 | 9461 | .06 | 3.10 | 668.0 | 7.45 | 2.84 | | | | | | | | | | | | | | |
| 193.04-196.00 | 9462 | 2.96 | .05 | 22.0 | .21 | .16 | | | | | | | | | | | | | | |
| 196.00-199.00 | 9463 | 3.00 | .05 | 11.0 | .08 | .26 | | | | | | | | | | | | | | |
| 199.00-202.00 | 9464 | 3.00 | .05 | 7.0 | .05 | .13 | | | | | | | | | | | | | | |
| 202.00-205.00 | 9465 | 3.00 | .05 | 5.5 | .03 | .21 | | | | | | | | | | | | | | |
| 205.00-208.00 | 9466 | 3.00 | .05 | 5.5 | .02 | .27 | | | | | | | | | | | | | | |
| 208.00-211.00 | 9467 | 3.00 | .05 | 8.5 | .03 | .31 | | | | | | | | | | | | | | |
| 211.00-214.00 | 9468 | 3.00 | .05 | 19.0 | .03 | .14 | | | | | | | | | | | | | | |
| 214.00-217.00 | 9469 | 3.00 | .05 | 47.0 | .09 | .22 | | | | | | | | | | | | | | |
| 217.00-218.24 | 9470 | 1.24 | .05 | 25.0 | .03 | .07 | | | | | | | | | | | | | | |

BCIL - 3490 - G.E.C.