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REPORT ON 1982 DIAMOND DRILL PROGRAM

for

DUNRAINE MINES LIMITED

by

Daniel J. Gignac

January 21st, 1983

DM82-7-C-142

## REPORT ON 1982 DIAMOND DRILL PROGRAM

### INTRODUCTION

In the summer of 1982 a detailed geological survey in the area of the Darwin Mine uncovered two previously unknown surface gold zones.

The first of these is a 700 foot long structure situated just over 400 feet north of the Grace shaft. It is believed to be the offset extension of the Grace Vein which was mined at the Darwin Mine in the early days.

The zone strikes approximately N40W, dips steeply to the south-east (70°) and varies in width from 3 to 6 feet. It consists of quartz lenses in sericite schist mineralized with arsenopyrite and pyrite. A small lense of almost massive fine arsenopyrite (Skunky Dog Showing), located 800 feet north of the Grace Shaft, in a 6 foot chip sample, returned a gold assay of over 2 oz/ton.

A second less significant zone named the "Hayne Vein" is a series of quartz stringers striking due north, situated 600 feet NE of the Darwin Vertical Shaft. This structure is exposed for 40 feet next to the Surluga road. A series of chip samples across the breast of the zone returned 0.126 oz gold/ton over a 10 foot width. Gold values again are associated with fine arsenopyrite.

In a report dated September 30th, 1982, R. A. Halett, Ph. D,

continued...page 2

P. Eng., Consulting Geologist outlined a small diamond drill program to test the down-dip extent of gold mineralization of the showings. From these guidelines eight holes were drilled in December 1982. (see Plan)

#### DIAMOND DRILLING

Five holes were drilled under the Grace Vein extension; they include D82 #2, through #6. Holes number 2 and 3 were drilled from the same set-up, spotted 70 feet due east of a test pit situated at the extreme south end of the zone. D82-#2 drilled at 40 degrees due west intersected vein material mineralized with fine silvery arsenopyrite. A four foot section of core, from 67 to 71 feet returned a gold assay of 0.158 oz/ton. D82-#3 drilled at a 70 degree dip failed to intersect the structure as it was probably displaced by the diabase fault just south of the set-up.

Spotted 70 feet grid north of holes 2 and 3, numbers D82-#4 and #5 were drilled, again from the same set-up. Bearing S70W with a dip of 40 degrees, hole number 4 intersected 5 feet of vein material grading 0.222 oz/ton (gold) from 94 to 99 feet. The second hole D82-#5 drilled at a 55 degree angle did intersect part of the target however at a depth of 109 feet, just as arsenopyrite was coming into it, the structure was truncated and intruded by diabase.

Hole number 6 drilled under the Skunky Dog Showing was spotted 75 feet east of it at an angle of 40 degrees. Drilled to a depth of 129 feet it failed to encounter the target structure as it is believed to have been offset by a fault intruded by diabase encountered between 22 and 42 feet.

The Hayne Vein Showing was tested by one drill hole. It was spotted next to the Surluga road, 65 feet from the zone, bearing

continued.../page 3

due east with a 40 degree dip. D82-#8 did not intersect the anticipated structure or any associated mineralization.

Finally, two holes were drilled on the Darwin Shear. These holes were spotted in order to test for a possible Surluga type ore zone inferred from the 1981 drilling of the structure. D82-1 and 7 were intended to pass through the line of intersection of the Main Shear zone and a favorably mineralized sericite shear discovered in D81-#3. Located 175 feet grid south of D81-#3 the holes intersected a wide Shear (120 feet) but gold values within it were only anomalous.

#### CONCLUSION

The Hayne Vein does not warrant further drill testing. However encouraging results were obtained in the drilling of the southern portion of the Grace Vein extension. The zone north beyond the Skunky Dog Showing has not yet been drilled and surface sampling showed good gold mineralization. The 1982 drilling was very shallow and a program designed to evaluate this zone at depth may be warranted.

The possibility of discovering a gold deposit of substantial tonnage in the Darwin Shear Zone remain favorable. More detailed surface, structural and geophysical interpretations however, are needed to evaluate this.

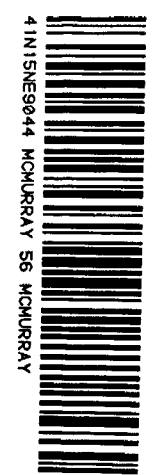
January 21st, 1983

*Daniel J. Gignac*

Daniel J. Gignac, B.E.S.

Durraine Mines Ltd. PROPERTY: Darwin  
 LATITUDE: 16+50N BEARING: Grid W DIP: 45° STARTED: Dec 16/82 COMPLETED: Dec 17/82 HOLE NO. D82-1  
 DEPARTURE: 1400E V.D. H.D. DRILLED BY: Poisson Drilling 350' DEPTH: 3' Page 1 of 2  
 ELEVATION: LOCATION: To intersect projected line of intersection betw. Shear + Ser. Shear From D81-3 LOGGED BY: N. Gignac

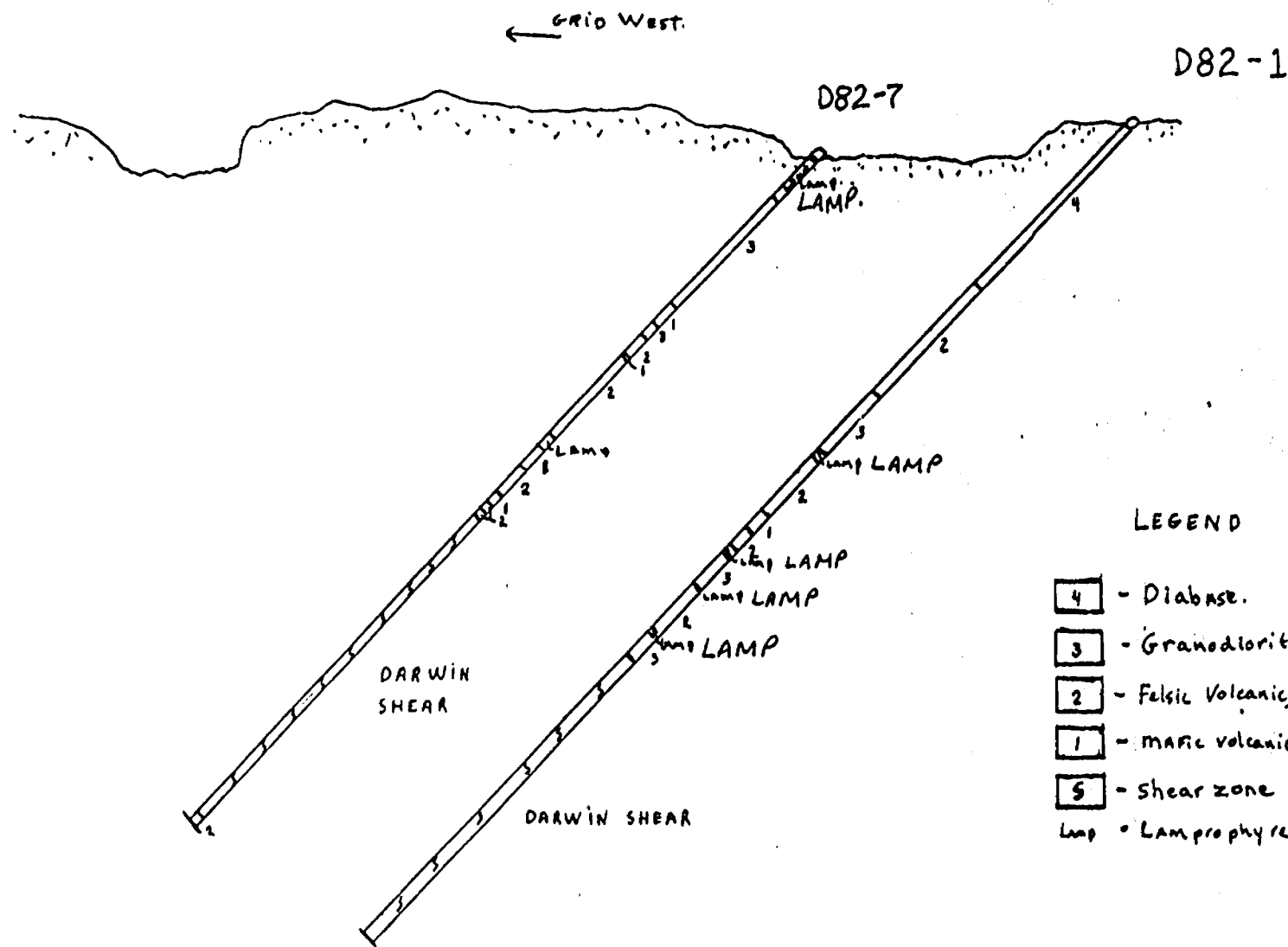
| FOOTAGE     | DESCRIPTION   | SAMPLE FOOTAGES | SAMPLE No. | WIDTH FT. | ASSAY DATA |  |  |  |  |
|-------------|---|-----------------|------------|-----------|------------|--|--|--|--|
|             |   |                 |            |           | F./Ton     |  |  |  |  |
| 0-2         | Casing.   |                 |            |           |            |  |  |  |  |
| 2-21.3      | MaFic Intrusive - Diabase - green grey<br>Probable Olivine variety<br>59.7-62 - Q.V. Glassy occasional U.R. inclusions<br>minor blchs po-cpy.<br>63.4-64.7 Q.V. - as above<br>Footwall contact 50 CA. |                 |            |           |            |  |  |  |  |
| 71.3-117.9  | Felsic Volcanic - stal tuFF - occasional<br>Lapilli size frags - angular to subangular<br>minor disc. sulfides po-py-cpy<br>Lower contact ser. alteration py-cpy                                      | 116.6-117.6     | 4154       | 1.0       | .002       |  |  |  |  |
| 117.9-141.8 | Felsic Intrusive - Granodiorite - stock -<br>very silicious, minor bio + disc. popy-cpy<br>123.5-125.5 MaFic vol? Ash?<br>occasional qtz carb stringers.  |                 |            |           |            |  |  |  |  |
| 141.8-145.7 | MaFic Intrusive Lamp dyke 65 CA.<br>Typical alt. blue Wall Rock.  |                 |            |           |            |  |  |  |  |
| 145.7-167.4 | Felsic Volcanic - stal tuFF as before   |                 |            |           |            |  |  |  |  |
| 167.4-174.2 | MaFic Volcanic - Ash - chloritic - as before  |                 |            |           |            |  |  |  |  |
| 174.2-182   | Felsic Volcanic as before.  |                 |            |           |            |  |  |  |  |
| 182-184.8   | MaFic Intrusive - Lamp dyke 70 CA.  |                 |            |           |            |  |  |  |  |
| 184.8-198   | Felsic Intrusive - Granodiorite - stock.<br>as before.<br>- severely Fractured - noset Fracture<br>pattern or angle.  |                 |            |           |            |  |  |  |  |



020

**PROPERTY:** Darwin  
**HOLE NO.:** 082-1  
 page 2 of 2  
**LATITUDE:**      **BEARING:**      **DIP:**      **STARTED:**      **COMPLETED:**  
**DEPARTURE:**      **V.D.:**      **H.D.:**      **DRILLED BY:**      **DEPTH:** 350'  
**ELEVATION:**      **LOCATION:**      **LOGGED BY:** [Signature]

| FOOTAGE   | DESCRIPTION   | SAMPLE FOOTAGES | SAMPLE No. | WIDTH FT. | ASSAY DATA |      |  |  |  |
|-----------|---|-----------------|------------|-----------|------------|------|--|--|--|
|           |   |                 |            |           | Wt/Gr      |      |  |  |  |
|           | 198-199.7 - Lamp dyke   |                 |            |           |            |      |  |  |  |
| 199.7-219 | Felsic Volcanic - Fine grained grey green fairly massive - occ. Hlt. seams and qtz carb stringers - some schistosity and sulfide mineral. | 207-209         | 4155       | 2.0       | NIL        |      |  |  |  |
| 219-223   | Mafic Intrusive Lamp dyke. 65CA.  |                 |            |           |            |      |  |  |  |
| 223-229.6 | Granodiorite - Stock as before.   | 223-225         | 4156       | 2.0       | .002       | NIL  |  |  |  |
| 229.6-350 | Darwin Shear - Felsic volcanics   | 232-234         | 4157       | 2.0       | .002       |      |  |  |  |
|           | -silicified + bxd upper contact minor sulfide   | 238.7-240       | 4158       | 1.3       | NIL        |      |  |  |  |
|           | -shear is weak at first - stronger later  | 240-241         | 4159       | 1.0       | NIL        |      |  |  |  |
|           | -minor aplite alteration - cherty seams   | 241-242.6       | 4160       | 1.6       | NIL        |      |  |  |  |
|           | -sericite + silicification - some rather well mineralizes sections.   | 247-249         | 4161       | 2.0       | NIL        |      |  |  |  |
|           | -sulfides include po-py-cpy   | 260.3-262       | 4162       | 1.7       | .005       |      |  |  |  |
|           | 234-238.7 - Lamp dyke   | 262-264         | 4163       | 2.0       | .01        | .005 |  |  |  |
|           | 259.4-260.3 - carbonate vein (calcite)  | 264-266         | 4164       | 2.0       | .005       |      |  |  |  |
|           | 277.8-280.3 - Lamp dyke   | 276-278         | 4165       | 2.0       | NIL        |      |  |  |  |
|           | 341.3-345 - Lamp dyke   | 280.4-282       | 4166       | 1.6       | NIL        |      |  |  |  |
|           |   | 282-284         | 4167       | 2.0       | NIL        |      |  |  |  |
|           |   | 284-286         | 4168       | 2.0       | .002       |      |  |  |  |
|           |   | 286-288         | 4169       | 2.0       | .002       |      |  |  |  |
|           | End of Hole   | 290-291         | 4170       | 1.0       | NIL        |      |  |  |  |
|           |   | 322.1-329       | 4171       | 1.9       | NIL        |      |  |  |  |
|           |   | 329-331         | 4172       | 2.0       | NIL        |      |  |  |  |
|           | -sampling incomplete  | 337.2-339.2     | 4173       | 2.0       | .005       | .005 |  |  |  |
|           |   | 339.2-341.2     | 4174       | 2.0       | .002       |      |  |  |  |



LEGEND

- 4 - Diabase.
- 3 - Granodiorite
- 2 - Felsic Volcanics
- 1 - mafic volcanics
- 5 - Shear zone
- Lamp - Lamprophyre dyke

DUNRAINE MINES Ltd.

DDH Sections # 1, # 7.

SCALE: 1 inch = 50 feet.

by: D. GIGNAC.

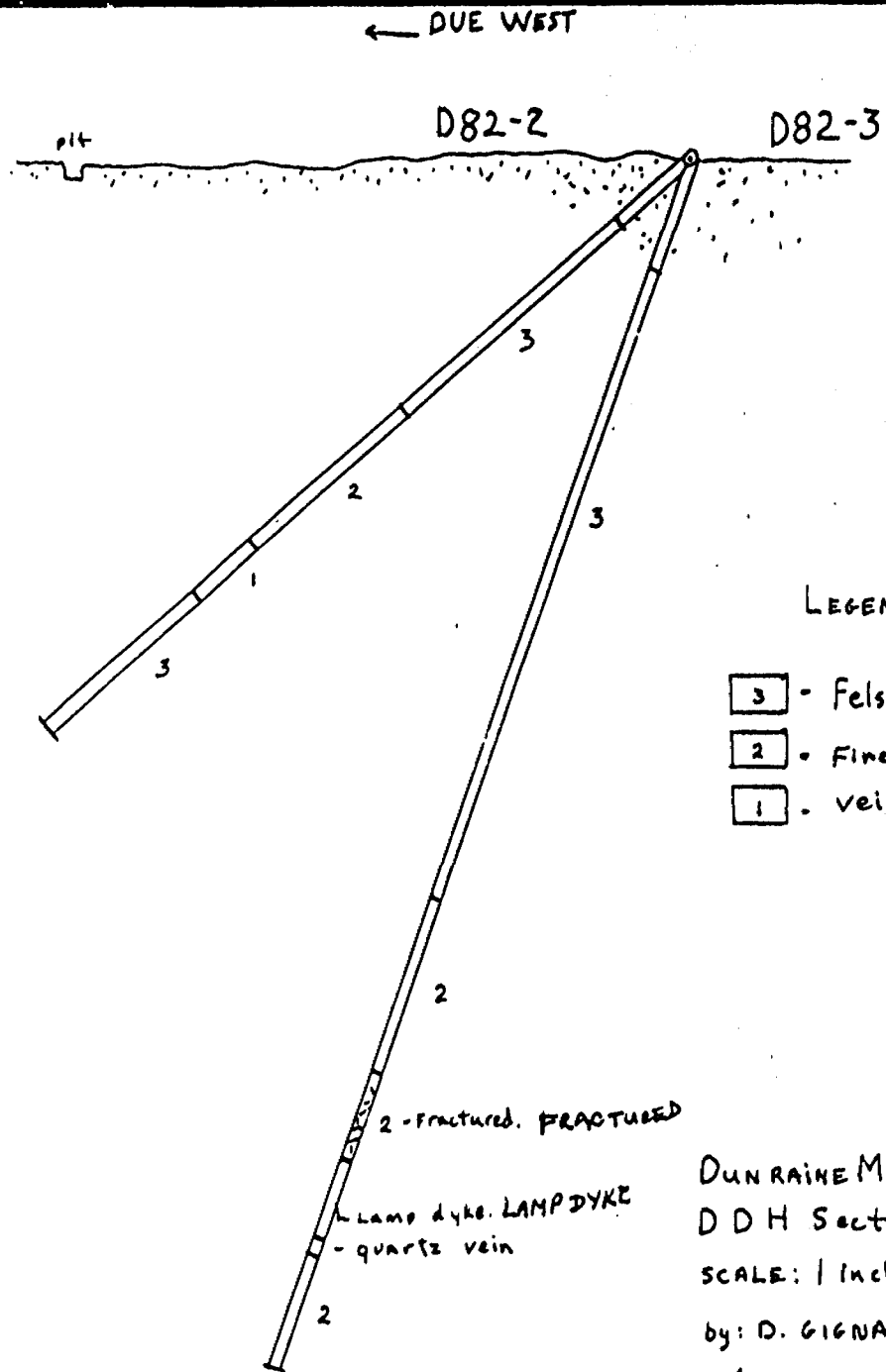


Grace Mines Ltd. PROPERTY: Darwin  
 AZIMUTH: L40W BEARING: 271°(due W) DIP: 40° STARTED: Dec. 7/82 COMPLETED: Dec 8/82 HOLE NO. D82-2  
 DEPARTURE: 4+60N V.D. H.D. DRILLED BY: Poisson Drilling DEPTH: 95  
 ELEVATION: LOCATION: Grace Vein Extension - immediately N of Diabase Fault LOGGED BY: D.G. acc

| FOOTAGE   | DESCRIPTION   | SAMPLE FOOTAGES | SAMPLE No. | WIDTH FT. | ASSAY DATA |  |  |  |
|-----------|---|-----------------|------------|-----------|------------|--|--|--|
|           |   |                 |            |           | Au/ton     |  |  |  |
| 0-10      | Casing  |                 |            |           |            |  |  |  |
| 10-41.7   | Felsic Volcanic - xtal tuFF - minor sulfides - occasional carb stringers - some evidence of displacement - gradual grading into finer grained vols. |                 |            |           |            |  |  |  |
| 41.7-86.0 | Felsic volcanic - Fine grained grey-green some qtz eyes and minor irregular qtz carb stringers. - minor sulfides + bio.                             | 63-64           | 4125       | 1.0       | NIL        |  |  |  |
|           |   | 64-64.8         | 4126       | 0.8       | NIL        |  |  |  |
|           | 64.8-66   | 4127            | 1.2        | NIL       |            |  |  |  |
|           | 66-67 - Vein Material - schistose   | 66-67           | 4128       | 1.0       | 0.02       |  |  |  |
|           | qtz-carb-sericite, taum. - bio. - chlorite  | 67-68           | 4129       | 1.0       | 0.10       |  |  |  |
|           | sulfides include - much fine diss. aspy,  | 68-69           | 4130       | 1.0       | 0.22       |  |  |  |
|           | minor py-coy-go   | 69-70           | 4131       | 1.0       | 0.17       |  |  |  |
|           | 67.5-68.7 - Q.V. - Aspy, ser.   | 70-71           | 4132       | 1.0       | 0.14       |  |  |  |
|           | 69.8-70.4 - Q.V. - Aspy, ser.   | 71-71.8         | 4133       | 0.8       | 0.01       |  |  |  |
| 80.6-95.0 | Felsic volcanics - xtal tuFF (as before)  | 71.8-73         | 4134       | 1.2       | 0.005      |  |  |  |
|           | End of hole.  |                 |            |           |            |  |  |  |

Graine Mines Ltd. PROPERTY: Darwin  
 ALTITUDE: 140W BEARING: 271° (due W) DIP: 70° STARTED: Dec 8/82 COMPLETED: Dec 8/82 HOLE NO. D82-3  
 DEPARTURE: 4+60N V.D. H.D. DRILLED BY: Poisson Drilling. DEPTH: 138  
 ELEVATION: LOCATION: Grace Vein Extension - immediately W of diabase fault. LOGGED BY: D. Mac

| FOOTAGE    | DESCRIPTION   | SAMPLE FOOTAGES | SAMPLE No. | WIDTH FT. | ASSAY DATA |  |
|------------|---|-----------------|------------|-----------|------------|--|
|            |   |                 |            |           | Au/ton     |  |
| 0 - 12     | Casing.   |                 |            |           |            |  |
| 12 - 84.5  | Felsic Volcanics - XTn (Tuff - some gtz eyes<br>minor sulfides.<br>grades into finer grained volcanic<br>- two minor altered secondary qtz -<br>barren (at 22 and 23 Ft.) (0.2' each)   |                 |            |           |            |  |
| 84.5 - 138 | Felsic Volcanic Fine grained grey-blue<br>- numerous irregular gtz carb stringers.<br>- becomes very Fractured From<br>104 to 104.4.<br>- Fractures have no set orientation.<br>- some evidence of movement.<br>114.4 - 122.5 - Lamp dyke - Hanging wall<br>contact 70CA Foot wall at 45CA. |                 |            |           |            |  |
|            | 122.5 - 138 - Fine grained volcanics some<br>chloritic phases   | 122.5 - 123.5   | 4135       | 1.0       | .002       |  |
|            |   | 123.5 - 124.5   | 4136       | 1.0       | .002       |  |
|            | 122.5 - 125.5 - gtz carb vein material<br>py - po - bio - chlorite blobs.   | 124.5 - 125.5   | 4137       | 1.0       | .002       |  |
|            | End of hole.  |                 |            |           |            |  |

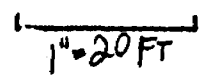


LEGEND

- 3 - felsic xtal tuFF.
- 2 - fine-grained volcanics
- 1 - vein material.

DUNRAINE MINES Ltd.  
 DDH Sections # 2, # 3.  
 SCALE: 1 inch = 20 feet.

by: D. GIGNAC





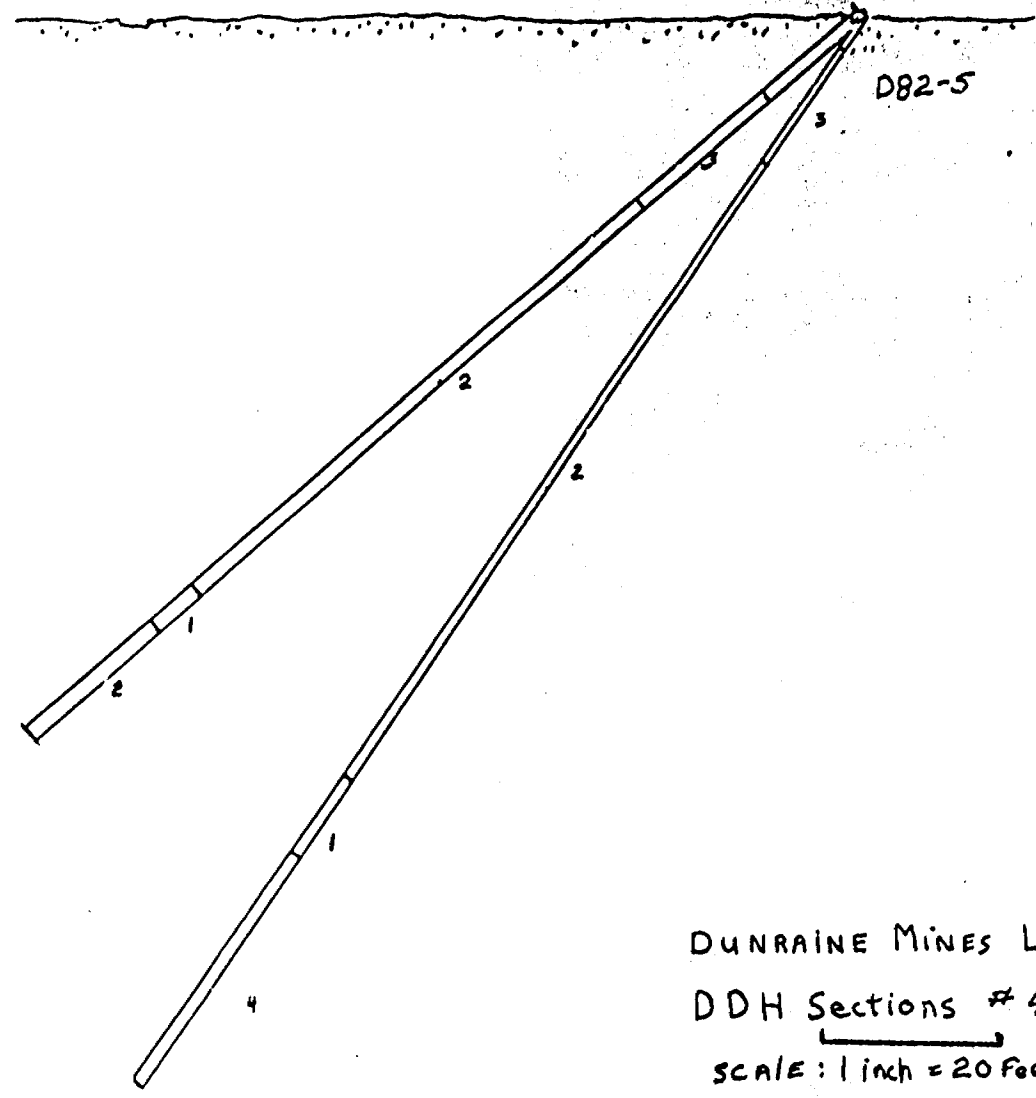
Dunrain Mines Ltd. PROPERTY: **DARWIN**  
 LATITUDE: **L40W** BEARING: **250°** DIP: **55°** STARTED: **Dec 11/82** COMPLETED: **Dec 11/82** HOLE NO. **D82-5**  
 DEPARTURE: **5730N** V.D. H.D. DRILLED BY: **Poisson Drilling** DEPTH: **139'**  
 ELEVATION: LOCATION: **30' SoF pit on N dipping QV and Grace Extension** LOGGED BY: **Dargac**

| FOOTAGE      | DESCRIPTION   | SAMPLE FOOTAGES | SAMPLE No. | WIDTH FT. | ASSAY DATA |      |
|--------------|---|-----------------|------------|-----------|------------|------|
|              |   |                 |            |           | QZ         | DATA |
| 0 - 4        | Casing  |                 |            |           |            |      |
| 4 - 19.1     | Felsic Volcanic - xtal Tuff.  |                 |            |           |            |      |
| 19.1 - 109.2 | Felsic volcanic - Fine grained grey green<br>- chloritic phases<br>- occasional qtz carb stringers +<br>veinlets - sulfid barren. |                 |            |           |            |      |
|              | 58-61 QV - Vitreous - neg sulfid:s -<br>- minor chloritic inclusions  |                 |            |           |            |      |
|              | 80-85 CA.   |                 |            |           |            |      |
|              | 63 - 0.1 blob pyroxite - minor cpy<br>in glassy qtz stringer  |                 |            |           |            |      |
|              | 102-109.2 - Vein material   | 101-102         | 4146       |           | .002       |      |
|              | - schistose bio-py-cpy ser.   | 102-103         | 4147       |           | NIL        |      |
|              | 107-109.2 - minor Aspy  | 103-104         | 4148       |           | .002       |      |
|              |   | 104-105         | 4149       |           | .005       |      |
|              |   | 105-106         | 4150       |           | .002       |      |
|              |   | 106-107         | 4151       |           | .002       |      |
|              |   | 107-108         | 4152       |           | .002       |      |
|              |   | 108-109.2       | 4153       |           | .005       |      |
| 109.2-139    | Diabase - qtz variety<br>- occasional karyophyro.   |                 |            |           |            |      |

← 870W

D82-4

D82-5



LEGEND:

- 4 - DIABASE
- 3 - Felsic XTal TUFF.
- 2 - Felsic tuff Fine grained
- 1 - Vein material

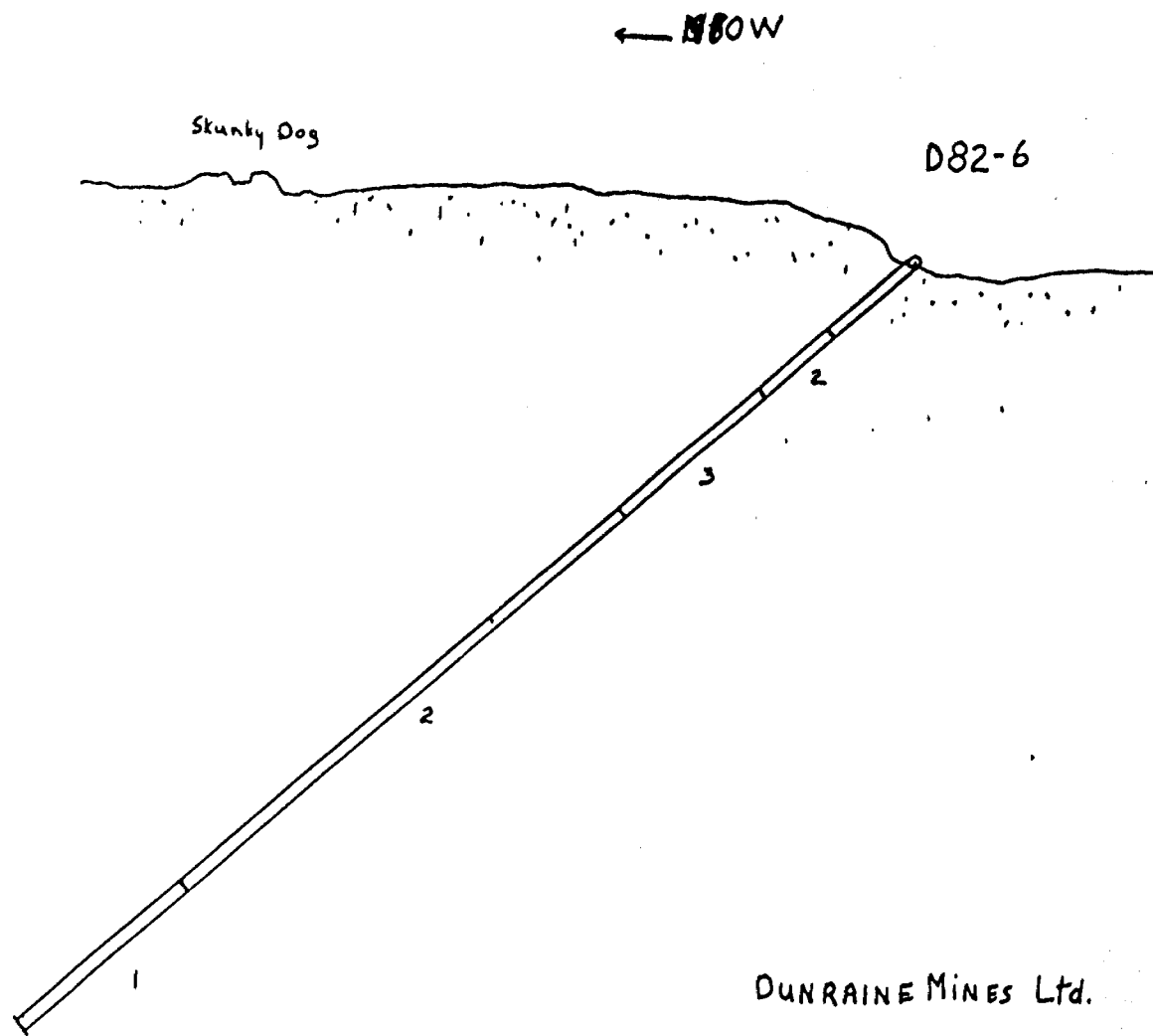
DUNRAINE MINES Ltd.  
DDH Sections # 4, #5  
SCALE: 1 inch = 20 feet  
by: D. GIGNAC

Dunrainie Mines Ltd. PROPERTY: Darwin

LATITUDE: L40W 100'E FLK BEARING: 280° DIP: 40° STARTED: Dec 14/62 COMPLETED: Dec 14/62  
 DEPARTURE: 7N V.D. H.D. DRILLED BY: Poisson Drilling DEPTH: 129  
 ELEVATION: LOCATION: 1+30 E of T North - Skunky Dog Showing LOGGED BY: D. G. ...

HOLE NO. 082-6  
page 1 of 1

| FOOTAGE | DESCRIPTION  | SAMPLE FOOTAGES | SAMPLE No. | WIDTH FT. | ASSAY DATA |    |    |       |
|---------|--|-----------------|------------|-----------|------------|----|----|-------|
|         |  |                 |            |           | Ag         | Pb | Zn | Other |
| 0-12    | Casing   |                 |            |           |            |    |    |       |
| 12-21.9 | Felsic Volcanics - xtal TuFF<br>Fairly massive - minor diss. sulfides            |                 |            |           |            |    |    |       |
| 21.9-42 | Mafic Intrusive - Diabase - blue gray<br>gtz variety.                            |                 |            |           |            |    |    |       |
| 42-105  | Felsic Volcanics - xtal TuFF as<br>before<br>- becoming finer grained gray-green |                 |            |           |            |    |    |       |
| 105-129 | Felsic Volcanics - Fine grained<br>minor sulfides + biotite blotches             |                 |            |           |            |    |    |       |
|         | - No Evidence of shear vein<br>- No Evidence of Aspy msa.                        |                 |            |           |            |    |    |       |
|         | End of Hole.   |                 |            |           |            |    |    |       |



LEGEND.

- 3 - DIABASE.
- 2 - Felsic XTAL TuFF.
- 1 - Felsic TuFF Fine grained.

DUNRAINE MINES Ltd.

DDH Section #6

SCALE: 1 inch = 20 Feet.

by: D. GIGNAC



CODE: L BEARING: Grid W DIP: 45° STARTED: Dec 18/82 COMPLETED: Dec 23/82  
 DEPARTURE: O+10E V.D. H.D. DRILLED BY: Poisson Drilling #1 of 3 282-7  
 ELEVATION: LOCATION: Darwin Shear. to intersect possible Au zone in Shear. DEPTH: 285  
 LOGGED BY: D. G. ...

| FOOTAGE     | DESCRIPTION  | SAMPLE FOOTAGES | SAMPLE No. | WIDTH FT. | ASSAY DATA |  |  |  |
|-------------|--|-----------------|------------|-----------|------------|--|--|--|
|             |  |                 |            |           | Au/ton     |  |  |  |
| 0-15        | Casing.  |                 |            |           |            |  |  |  |
| 15-19.1     | Lamp dyke  |                 |            |           |            |  |  |  |
| 19.1-64.5   | Granodiorite - Stock - Fairly massive<br>- occasional qtz carb stringers<br>- some aplitic altered seams   |                 |            |           |            |  |  |  |
| 64.5-73.1   | Mafic volcanics - chloritic - ash -<br>minor irregular carb stringers  |                 |            |           |            |  |  |  |
| 73.1-77.4   | Granodiorite - as before   |                 |            |           |            |  |  |  |
| 77.4-86.1   | Felsic volcanics - TuFFs - biotite blobs<br>and minor py min   |                 |            |           |            |  |  |  |
| 86.1-87     | Mafic vols - ash?  |                 |            |           |            |  |  |  |
| 87-87.5     | Lamp dyke.   |                 |            |           |            |  |  |  |
| 87.5-119.7  | Felsic volcanics - v. tal TuFF. - Felsic<br>Feldspar + biotite rich - numerous irregular<br>qtz-carb stringers - minor py min.<br>- aplitic alteration near old grey dyke<br>90.7-93.7 - dyke grey-cemented<br>Fault gouge.<br>- lower volcanic contact severely<br>altered blue by lamp intrusion |                 |            |           |            |  |  |  |
| 119.7-125   | Lamp dyke.   |                 |            |           |            |  |  |  |
| 125-134.7   | Mafic vols - as before.  |                 |            |           |            |  |  |  |
| 129-131.4   | Lamp dyke.   |                 |            |           |            |  |  |  |
| 134.7-143.7 | Felsic volcanics - Fine grained - minor<br>sulfides - becoming coarser at lower  |                 |            |           |            |  |  |  |

PROPERTY:

|            |           |      |             |            |                            |
|------------|-----------|------|-------------|------------|----------------------------|
| ALTITUDE:  | BEARING:  | DIP: | STARTED:    | COMPLETED: | HOLE NO. D82-1<br># 2 of 3 |
| DEPARTURE: | V.D.      | H.D. | DRILLED BY: | DEPTH:     |                            |
| ELEVATION: | LOCATION: |      |             |            | LOGGED BY:                 |

| FOOTAGE     | DESCRIPTION  | SAMPLE FOOTAGES  | SAMPLE No.   | WIDTH FT.  | ASSAY DATA   |           |
|-------------|--|--|--|--|--|-----------|
|             |  |  |  |  | Au/ton   | Ag/ton    |
|             | contact - grading into mafic vols.   |  |  |  |  |           |
| 143.7-148.1 | Mafic Volcanics - as before -  |  |  |  |  |           |
| 148.1-194.1 | Felsic Volcanics - Fine grained<br>- numerous irregular qtz carb stringers at 70CA.<br>- 165.4-166 - Aplitic Alteration<br>- 173.7-175.5 - Aplitic Alteration - vuggy some py<br>- 189.2-189.6 - carb vein - neg sulfides.   |  |  |  |  |           |
| 194.1-281.7 | Darwin Shear - sheared contactd.<br>volcanics, chlorite + sericite schist.<br>qtz carb stringers - some cherty seams<br>Fairly well mineralized sections.<br>- sulfides = py - <sup>Fine</sup> Aspy - minor spy<br>- tourmaline also evident. as is biotite.<br>- 250.4-252.7 - Lump dyle.<br>- wing samples possible in Footwall. | 194-195<br>195-197<br>197-199<br>199-201<br>201-203<br>203-205<br>205-207<br>207-209<br>209-211<br>211-213<br>213-215<br>215-217<br>217-218<br>218-220<br>220-222<br>222-224 | 2601<br>2602<br>2603<br>2604<br>2605<br>2606<br>2607<br>2608<br>2609<br>2610<br>2611<br>2612<br>2613<br>2614<br>2615<br>2616 | 1.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>2.0<br>1.0<br>2.0<br>2.0<br>2.0 | NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL<br>NIL |           |
|             |  |  |  |  |  | .005 .002 |
|             |  |  |  |  |  |           |

LATITUDE : \_\_\_\_\_ BEARING : \_\_\_\_\_ DIST. : \_\_\_\_\_ DRILLED BY : \_\_\_\_\_ DEPTH : 282-7  
 DEPARTURE : \_\_\_\_\_ V.D. : \_\_\_\_\_ H.D. : \_\_\_\_\_ LOGGED BY : \_\_\_\_\_  
 ELEVATION : \_\_\_\_\_ LOCATION : \_\_\_\_\_

# 5 of 3

| FOOTAGE                             | SAMPLE FOOTAGES | SAMPLE No. | WIDTH FT. | ASSAY DATA |     |  |  |
|-------------------------------------|-----------------|------------|-----------|------------|-----|--|--|
|                                     |                 |            |           | Au/ton     |     |  |  |
| Darwin Shear - Sampling continued - | 224-228         | 2617       | 2.0       | NIL        |     |  |  |
|                                     | 228-228         | 2618       | 2.0       | NIL        |     |  |  |
|                                     | 228-230         | 2619       | 2.0       | NIL        |     |  |  |
|                                     | 230-232         | 2620       | 2.0       | NIL        |     |  |  |
|                                     | 232-234         | 2621       | 2.0       | NIL        |     |  |  |
|                                     | 234-236         | 2622       | 2.0       | NIL        |     |  |  |
|                                     | 236-238         | 2623       | 2.0       | NIL        |     |  |  |
|                                     | 238-240         | 2624       | 2.0       | NIL        |     |  |  |
|                                     | 240-242         | 2625       | 2.0       | NIL        |     |  |  |
|                                     | 242-245         | 2626       | 3.0       | NIL        |     |  |  |
|                                     | 245-246         | 2627       | 1.0       | NIL        |     |  |  |
|                                     | 246-248         | 2628       | 2.0       | NIL        |     |  |  |
|                                     | 248-250.4       | 2629       | 2.4       | NIL        |     |  |  |
|                                     | 252.7-255       | 2630       | 2.3       | .002       |     |  |  |
|                                     | 255-257         | 2631       | 2.0       | .002       |     |  |  |
|                                     | 257-258         | 2632       | 1.0       | NIL        |     |  |  |
|                                     | 258-260         | 2633       | 2.0       | NIL        |     |  |  |
|                                     | 260-262         | 2634       | 2.0       | .03        | .03 |  |  |
| 262-264                             | 2635            | 2.0        | .002      |            |     |  |  |
| 277.5-279                           | 2636            | 1.5        | NIL       |            |     |  |  |
| End of Hole                         |                 |            |           |            |     |  |  |

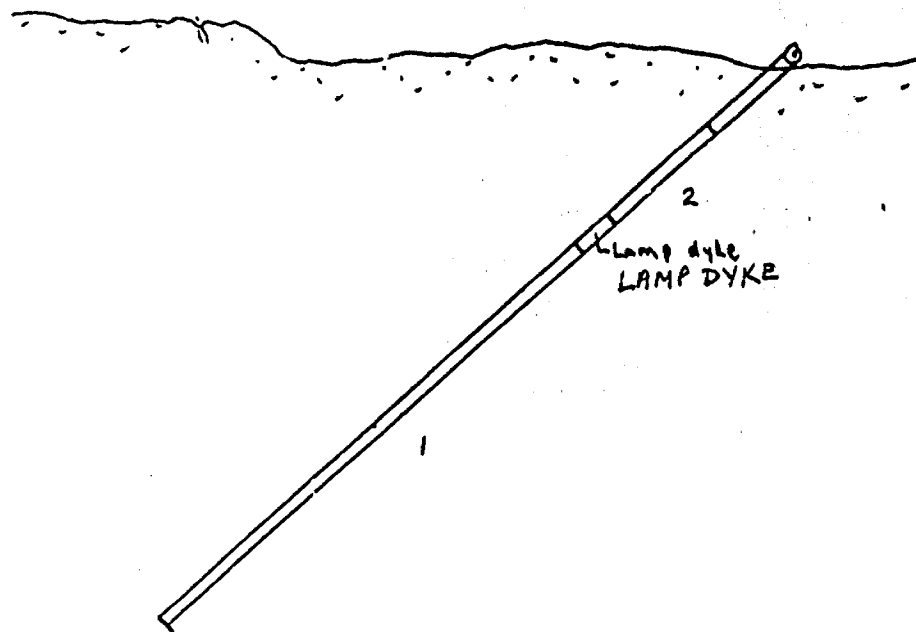




← DUE EAST

HAYNE VEIN

D82-8



LEGEND

- 2 - Felsic xtal TUFF.
- 1 - Felsic Tuff Fine grained.

DUNRAINE MINES Ltd.

DDH Section # 8

SCALE: 1 inch = 20 Feet.  
by D. GIGNAC.

Line  
34 W  
-2+00 S.

Surluga  
road.  
→ To  
Parkhill  
mine

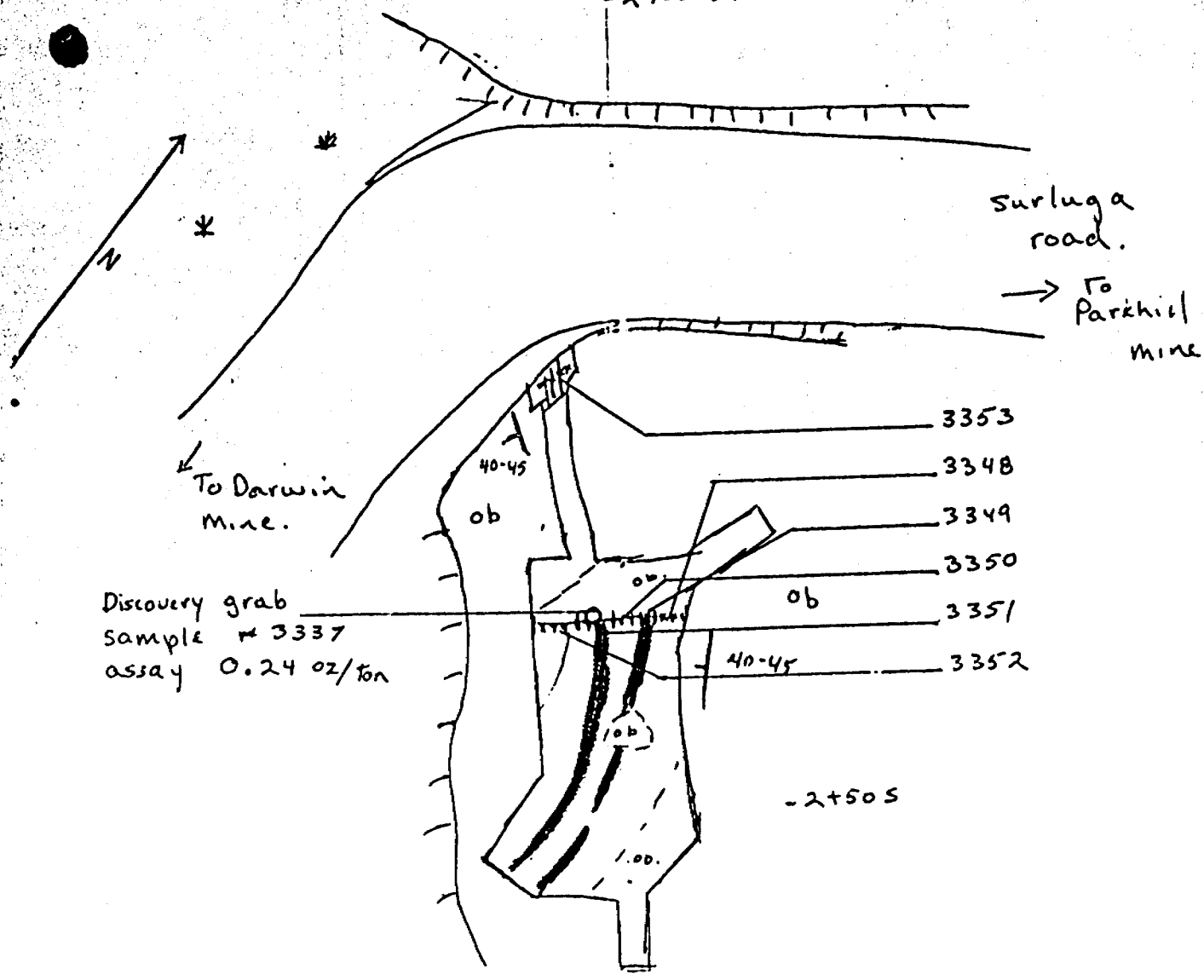
↓ To Darwin  
mine.

Discovery grab  
sample # 3337  
assay 0.24 oz/ton

- 3353
- 3348
- 3349
- 3350
- 3351
- 3352

-2+50 S

9V's









# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 53427

Date: June 14 1982

Received June 7 1982 6 Samples of Ore

Submitted by Dunraine Mines Limited, Wawa, Ontario Att'n: Mr. D. Gionac

| SAMPLE NO. | GOLD<br>Oz./ton       |
|------------|-----------------------|
| 3327       | 0.002<br>0.002<br>Nil |
| 3328       | Nil                   |
| 3329       | Nil                   |
| 3330       | 0.005                 |
| 3331       | 0.002                 |
| 3332       | 0.002                 |

Per

G. Lebel - Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS


## Certificate of Analysis

Certificate No. 53577 Date: July 5 1982

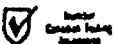
Received June 30 1982 2 Samples of Ore

Submitted by Dunraine Mines Limited, Wawa, Ontario Att'n: Mr. D. Gignac

| SAMPLE NO. | GOLD<br>Oz./ton |
|------------|-----------------|
| 3333       | 0.002           |
| 3336       | 0.005           |

Per   
G. Lebel - Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

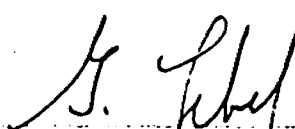
Certificate No. 53741

Date: August 9, 1982

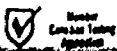
Received August 3, 1982 4 Samples of Ore

Submitted by Dunraine Mines Limited, Wawa, Ontario Attn: Mr. D. Gignac

| SAMPLE NO. | GOLD<br>Oz./ton |
|------------|-----------------|
| 3337       | 0.24            |
| 3338       | 2.14            |
| 3339       | 0.41            |
| 3340       | 0.10            |

Per   
G. Lebel - Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
TELEPHONE: (705) 642 3244  
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

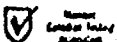
## Certificate of Analysis

Certificate No. 54078 Date: October 13, 1982  
Received October 6, 1982 6 Samples of Ore  
Submitted by Dunraine Mines Limited, Wawa, Ontario Attn: Mr D. Gignac

| SAMPLE NO. | GOLD<br>Oz./ton |
|------------|-----------------|
| 3348       | 0.11            |
| 3349       | 0.02            |
| 3350       | 0.18            |
| 3351       | 0.14            |
| 3352       | 0.16            |
| 3353       | 0.005           |

Per *G. Lebel*  
G. Lebel - Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
TELEPHONE: (705) 642-3244  
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 54308 Date: November 30 1982

Received Nov. 26/82 1 Sample of Ore

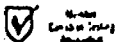
Submitted by Dunraine Mines Limited, Wawa, Ontario Att'n: Mr. D. Gignac

| SAMPLE NO. | GOLD<br>Oz./ton | Second Pulp     |
|------------|-----------------|-----------------|
|            |                 | GOLD<br>Oz./ton |
| 3354       | 0.20            | 0.19            |

Per

G. Lebel - Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
TELEPHONE: (705) 642-3244  
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 54363

Date: December 14 1982

Received Dec.13/82 13 Samples of split core

Submitted by Dunreine Mines Limited, Wawa, Ontario Att'n: Mr. D. Gignac

| SAMPLE NO. | GOLD<br>Oz./ton |
|------------|-----------------|
| 4125       | Nil ✓           |
| 4126       | Nil ✓           |
| 4127       | Nil ✓           |
| 4128       | 0.002 ✓         |
| 4129       | 0.10 ✓          |
| 4130       | 0.22 ✓          |
| 4131       | 0.17 ✓          |
| 4132       | 0.14 ✓          |
| 4133       | 0.01 ✓          |
| 4134       | 0.005 ✓         |
| 4135       | 0.002 ✓         |
| 4136       | 0.002 ✓         |
| 4137       | 0.002 ✓         |

*Handwritten annotations:*  
 D82-2 (vertical line with arrows at top and bottom, spanning samples 4125 to 4134)  
 D82-3 (vertical line with arrows at top and bottom, spanning samples 4134 to 4137)

Per G. Lebel  
G. Lebel - Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
TELEPHONE: (705) 642-3244  
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 54378

Date: December 16 1982

Received Dec. 15/82 16 Samples of Split core

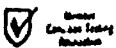
Submitted by Dunraine Mines Limited, Wawa, Ontario Att'n: Mr. D. Gignac

| SAMPLE NO. | Second Pulp     |                 |
|------------|-----------------|-----------------|
|            | GOLD<br>Oz./ton | GOLD<br>Oz./ton |
| 4138       | 0.22 ✓          |                 |
| 4139       | 0.002 ✓         |                 |
| 4140       | 0.28 ✓          |                 |
| 4141       | 0.58 ✓          | 0.54            |
| 4142       | 0.03 ✓          |                 |
| 4143       | 0.002 ✓         |                 |
| 4144       | 0.005 ✓         |                 |
| 4145       | 0.005 ✓         |                 |
| 4146       | 0.002 ✓         |                 |
| 4147       | Nil ✓           |                 |
| 4148       | 0.002 ✓         |                 |
| 4149       | 0.005 ✓         |                 |
| 4150       | 0.002 ✓         |                 |
| 4151       | 0.002 ✓         |                 |
| 4152       | 0.002 ✓         |                 |
| 4153       | 0.005 ✓         |                 |

*Handwritten notes:*  
 A vertical line with arrows at both ends spans from sample 4138 to 4153. To the left of the line, 'D-82-4' is written between samples 4141 and 4142, and 'D-82-5' is written between samples 4149 and 4150.

Per G. Lebel  
G. Lebel - Manager

ESTABLISHED 1928





# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 54396 54396 Date: December 23 1982

Received Dec. 22/82 22 Samples of split core SPLIT CORE

Submitted by Dunraine Mines Limited, Wawa, Ontario Attn: Mr. D. Gignac  
(Attn)

| SAMPLI. NO.          | GOLD<br>Oz./ton | SAMPLI. NO. | GOLD<br>Oz./ton |
|----------------------|-----------------|-------------|-----------------|
| <u>D-82-1</u> ↓ 4154 | 0.002           | 4170        | Nil             |
| 4155                 | Nil             | 4171        | Nil             |
| ↓ 4156               | 0.002           | ↓ 4172      | Nil             |
| 4157                 | 0.002           | 4173        | 0.005           |
| 4158                 | Nil             | ↑ 4174      | 0.005           |
| 4159                 | Nil             | ↓ 4175      | 0.002           |
| 4160                 | Nil             |             | 0.002           |
| 4161                 | Nil             |             |                 |
| 4162                 | 0.005           | 4159        | Repeat Assay    |
| 4163                 | 0.01<br>0.005   |             | 0.005           |
| 4164                 | 0.005           |             | 0.005           |
| 4165                 | Nil             |             |                 |
| 4166                 | Nil             |             |                 |
| 4167                 | Nil             |             |                 |
| 4168                 | 0.002           |             |                 |
| 4169                 | 0.002           |             |                 |

Per G. Lebel  
G. Lebel - Manager

ESTABLISHED 1928







# SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0  
TELEPHONE: (705) 642-3244  
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

## Certificate of Analysis

Certificate No. 54450

Date: January 17 1983

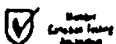
Received Jan. 13/83 36 Samples of split core . D-82-7

Submitted by Dunraine Mines Limited, Wawa, Ontario Att'n: Mr. D. Gignac

| SAMPLE NO. | GOLD<br>Oz./ton | SAMPLE NO. | GOLD<br>OZ./ton |
|------------|-----------------|------------|-----------------|
| 2601       | Nil             | 2620       | Nil             |
| 2602       | Nil             | 2621       | Nil             |
| 2603       | Nil             | 2622       | Nil             |
| 2604       | Nil             | 2623       | Nil             |
|            | Nil             | 2624       | Nil             |
| 2605       | Nil             | 2625       | Nil             |
| 2606       | Nil             |            | Nil             |
| 2607       | Nil             | 2626       | Nil             |
| 2608       | Nil             | 2627       | Nil             |
| 2609       | Nil             | 2628       | Nil             |
| 2610       | Nil             | 2629       | Nil             |
| 2611       | Nil             | 2630       | 0.002           |
| 2612       | Nil             | 2631       | 0.002           |
| 2613       | Nil             | 2632       | Nil             |
| 2614       | 0.005           | 2633       | Nil             |
|            | 0.002           | 2634       | 0.03            |
| 2615       | Nil             |            | 0.03            |
| 2616       | Nil             | 2635       | 0.002           |
| 2617       | Nil             | 2636       | Nil             |
| 2618       | Nil             |            |                 |
| 2619       | Nil             |            |                 |

Per G. Lebel  
G. Lebel - Manager

ESTABLISHED 1928



WRITE IT!  
DON'T SAY IT!

41N15NE9044 MCMURRAY 56 MCMURRAY

900

TO Dumaine Mines Head Office DATE July 31/82

Dear Dave + Hank,

Recently three additional surface samples were cut and sent for assay. The sample numbers location and descriptions are as follows.

# 3337 - L34W, 2+40S South of Road near Rock cut.  
- banded gtz, ser, bio. 5% Aspy. .24

# 3338 - L40W, 8+00N - Skunky Dog showing - cherty schist  
- Fairly massive fine Aspy - black gossan N. Extension of Grace Vein - some fine py - Aspy = 75% .214

# 3339 - L39W, 10N Muck from near pit on NE Ext. of Grace Vein  
- banded granular gtz - py - ser - bio. .41

30593

SIGNATURE

See you soon Dan.

00211

WRITE IT!  
DON'T SAY IT!

- 2 -

TO Dumaine DATE Oct 2/82  
H.O. + H.G.H. grab .24

- Surface Sampling of Hayne Vein.

# 3348 - 2 FT chip, E Wall - Altered vols gtz carb  
py - Aspy - bio. .11

3349 - 1 FT. chip, gtz carb vein neg. sulfide .02 (1/4)

3350 - 2 FT chip, gtz, ser, py - Aspy - bio - tourmal. .18

3351 - 2 FT chip, gtz. Aspy + ser rich walls. bio. py. .14

3352 - 3 FT chip, gtz ser py Aspy bio carb. W. wall  
Altered chloritic ~~vols~~ vols. .16

3353 - OC by road. 4 FT true width random chips  
across Face py - ser, gtz, bio. .005

30595

SIGNATURE

Dan.

00211

**LCONBRIDGE NICKEL MINES LIMITED**

INTER-OFFICE MEMORANDUM

DATE: November 10, 1982  
TO: J.E. Muir  
COPIES TO: CMHJ/AMC  
FROM: H.R. Stockford  
SUBJECT: Dunraine Mines Ltd. Property - Wawa Area, Ontario PN 503-05

RECEIVED  
NOV 12 1982  
GEO. G. DEPT.

I am forwarding herewith four specimens of core which represent some of the rock types on the Parkhill/Darwin properties of Dunraine Mines:

| <u>Dunraine terminology</u> | <u>DDH #</u> | <u>Depth</u> | <u>Comments</u>            |
|-----------------------------|--------------|--------------|----------------------------|
| 1. Intermediate-felsic tuff | 81-19        | 75'          | Carb. rich basic volcanic? |
| 2. Felsic crystal tuff      | 81-17        | 25'          |                            |
| 3. Darwin shear zone        | 81-7         | 217'         | Carb. rich fault zone?     |
| 4. Conglomerate             | 80-35        | ?            | Debris flow?               |

Please examine thin sections of these and analyze for ppb gold.

I also enclose a small arsenopyrite-bearing grab sample from the "Skunky Dog" showing (#B8115) which assayed 3.40 oz/ton Au, a sample from the "Hayne Vein" (#B8117) which assayed 0.14 oz/ton Au and a piece of quartz sericite schist from the Surluga dump (#B8118) which assayed 0.05 oz/ton Au. Please make and examine polished thin sections of these.

I am looking forward to receiving your comments on these samples.

Best regards.

H.R. Stockford

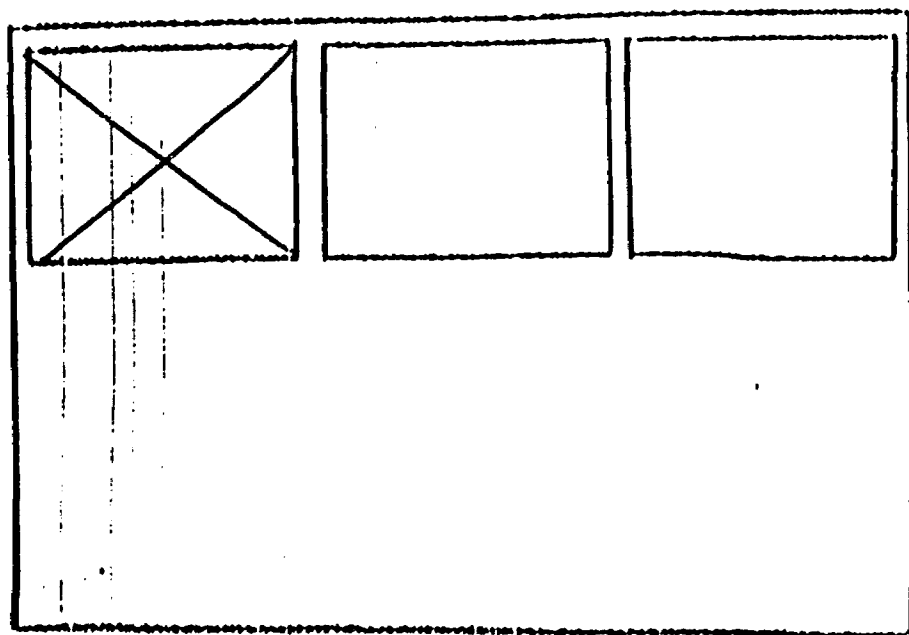
SEE ACCOMPANYING  
MAP(S) IDENTIFIED AS

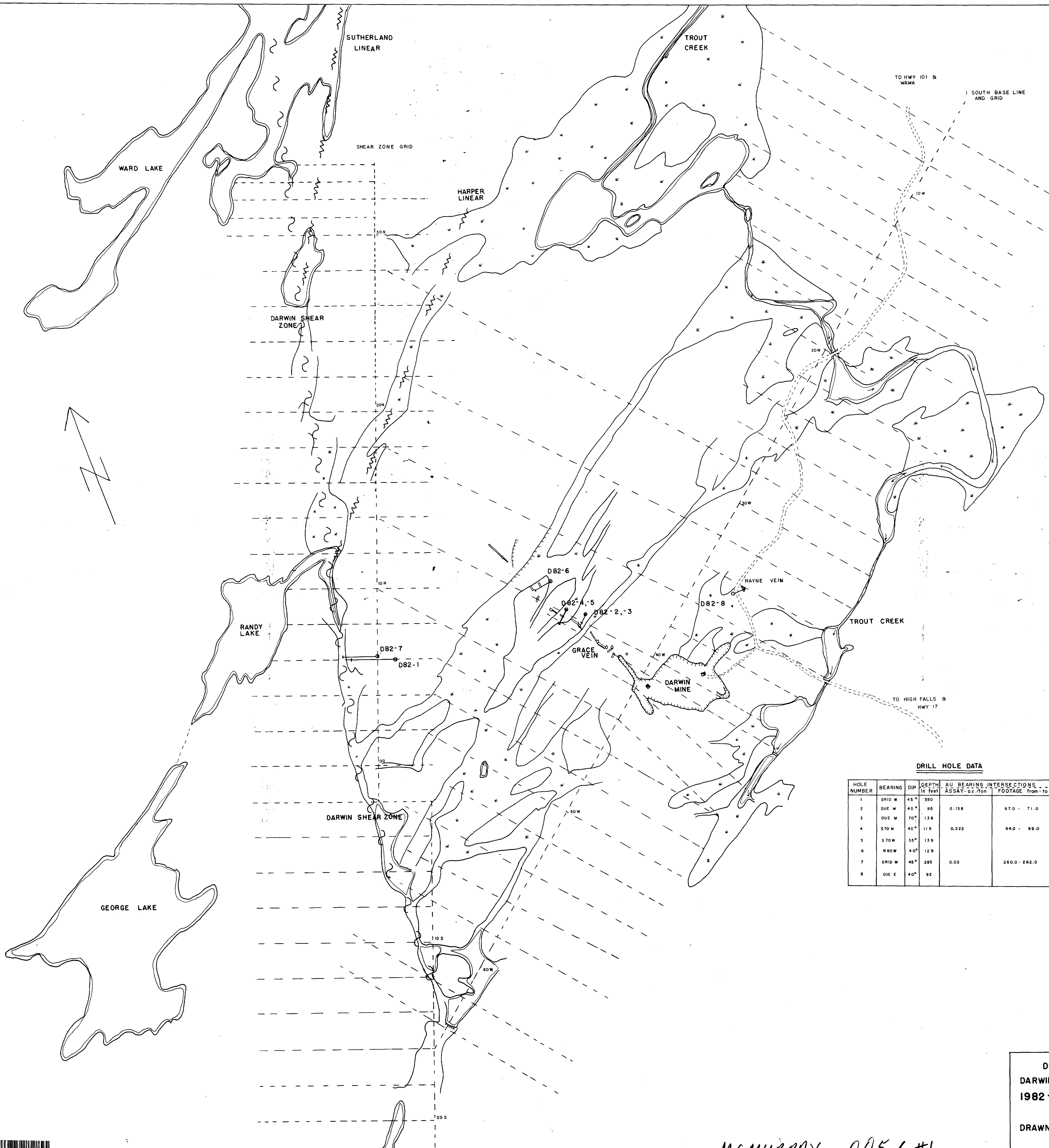
MCMURRAY-0056, #1

\_\_\_\_\_

\_\_\_\_\_

LOCATED IN THE MAP  
CHANNEL IN THE FOLLOWING  
SEQUENCE (X)





DRILL HOLE DATA

| HOLE NUMBER | BEARING | DIP | DEPTH<br>In feet | AU BEARING INTERSECTIONS<br>ASSAY - oz./ton | FOOTAGE from - to |
|-------------|---------|-----|------------------|---|-------------------|
| 1           | GRID W  | 45° | 350              |   |                   |
| 2           | DUE W   | 40° | 95               | 0.158                                       | 67.0 - 71.0       |
| 3           | DUE W   | 70° | 158              |   |                   |
| 4           | S70 W   | 40° | 119              | 0.222                                       | 94.0 - 99.0       |
| 5           | S70 W   | 55° | 139              |   |                   |
| 6           | N80 W   | 40° | 129              |   |                   |
| 7           | GRID W  | 45° | 285              | 0.03  | 260.0 - 282.0     |
| 8           | DUE E   | 40° | 92               |   |                   |

DUNRAINE MINES LIMITED  
 DARWIN PROPERTY - WAWA, ONTARIO  
 1982 - DIAMOND DRILL PLAN  
 SCALE: 1 inch = 200 feet  
 DRAWN BY: Daniel J. Gignac  
 January, 1983.

MCMURRAY - 0056, #1

