974076

HOLE NO. : GP-90-8
SECTION : 2520.00 EAST

PLUTONIC OPERATIONS LIMITED
GOWRIE PARK

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DIAMOND DRILL RECORD

Northing : 4922.00
Easting : 2520.00
Grid : FIRE TOWER
Direction : Grid South
Inclination : -55.0
Elevation : 9975.00
Azimuth : 180.0
Mag Azimuth : 0.70 m
Length (m) : 30.15
Precol. (m) : 0.70 m
BOCO : 0.70 m
TFR : <0.70 m
Water Table :

Drill Type :
Core Size :
Contractor :N Poltock

Dip Tests Method:

| Depth | Az | Dip |
|---|---|---|
| 30.1 | 180.0 | -55.0 |

Property : FIRE TOWER
State : Tasmania
GMR : GOG 4440
E.L. No. : GOWRIE PARK
Project No. : 706
Date Started :
Date Completed:
Logged by : G. MacDONALD
Relogged by :
Date Logged : May '92
Interpreted : G. MacDONALD

Initialled

| From (m) | To (m) | Description | Sample No. | From (m) | To (m) | Width (m) | Au (ppm) |
|---|---|---|---|---|---|---|---|
| .00 | .70 | PRECOLLAR | | | | | |
| .70 | 3.70 | VOLCANICLASTIC<br>FINE GRAINED VOLCANICLASTIC.<br>Cream silica sericite altered fine grained volcaniclastic, weathered and leached with overprinting brown colour after haematite. Occasional haematite veins are generally at high angles to the core axis. Some fresh pyrite veins have oxidised haematite selvedges with approximately 2% pyrite throughout. Fine fractures have manganese staining. The rock contains fine quartz chlorite veins generally at high angles to the core axis, predominantly from 2.40 to 3.50 with a 20 mm thick vein with brecciated selvedges at 60 degrees to the core axis at 3.45. The rock is generally fine grained but contains very occasional medium grained quartz fragments at 2.30. Haematite veins postdate the quartz chlorite veins. From 3.50 to 3.70 the rock is very chloritic throughout with medium grained to coarse grained sub - rounded quartz clasts. | SH000X<br>SH0000<br>SH0001 | .70<br>2.00<br>3.00 | 2.00<br>3.00<br>4.00 | 1.30<br>1.00<br>1.00 | 1.34<br>1.18<br>.86 |
| 3.70 | 4.90 | VOLCANICLASTIC<br>QUARTZ LITHIC VOLCANICLASTIC, SERICITISED.<br>Pale cream silica sericite altered medium grained to coarse grained quartz and other lithics. The rock contains occasional pyrite clots with 1% pyrite throughout. The rock is occasionally weakly chloritic but with irregularly oriented quartz chlorite veins throughout. | SH0002 | 4.00 | 5.00 | 1.00 | .72 |
| 4.90 | 7.95 | VOLCANICLASTIC<br>QUARTZ LITHIC VOLCANICLASTIC, CHLORITIC.<br>Similar to overlying rock except moderately chlorite and carbonate altered. Rock has chlorite veins at 70 to 80 degrees to the core axis. Quartz carbonate veins at 70 to 80 degrees to the core axis cross-cut the quartz chlorite veins but the quartz chlorite veins cross-cut diffuse carbonate alteration. Quartz carbonate veins are often sub - parallel to the quartz chlorite veins. The rock is finely carbonate altered throughout. The rock contains occasional lithics and approximately 1% pyrite throughout | SH0003<br>SH0004<br>SH0005 | 5.00<br>6.00<br>7.00 | 6.00<br>7.00<br>8.00 | 1.00<br>1.00<br>1.00 | .29<br>.17<br>.99 |

| From (m) | To (m) | Description | Sample No. | From (m) | To (m) | Width (m) | Au (ppm) |
|---|---|---|---|---|---|---|---|
| | | in clots. | | | | | |
| 7.95 | 9.50 | VOLCANICLASTIC<br>FINE GRAINED VOLCANICLASTIC, SERICITISED.<br>Fine grained, beige green silica sericite carbonate altered volcaniclastic with medium grained to coarse grained fiamme to 2 mm. Veining more common downhole with veins consisting of chlorite, haematite, carbonate and pyrite with approximately 2% pyrite throughout. The rock has a moderately brecciated, chlorite sericite altered lower contact with the underlying quartz rich volcaniclastic. | SH0006<br>SH0007 | 8.00<br>9.00 | 9.00<br>10.00 | 1.00<br>1.00 | .05<br>.01 |
| 9.50 | 11.10 | VOLCANICLASTIC<br>FINE AND MEDIUM GRAINED VOLCANICLASTIC, SERICITISED.<br>Interbedded fine grained beige green volcaniclastic with some medium grained fiamme and medium grained to coarse grained quartz, occasional lithics, volcaniclastic. The rock is silica sericite and carbonate altered throughout. The rock contains three weathered and leached haematite veins at 20 degrees to the core axis. The lower contact is irregular and at 25 degrees to the core axis. | SH0008<br>SH0009 | 10.00<br>11.00 | 11.00<br>12.00 | 1.00<br>1.00 | <.01<br><.01 |
| 11.10 | 16.25 | VOLCANICLASTIC<br>QUARTZ LITHIC FIAMME VOLCANICLASTIC.<br>11.10 14.20 The rock is silica sericite and carbonate altered throughout. The rock is foliated at 60 degrees to the core axis. Lithics include siltstone and fine grained tuff fragments to 30 mm.<br>14.20 15.50 Rock is silica sericite and carbonate altered and is strongly oxidised with approximately 4% pyrite in veins often oxidised. Rock contains some fine chlorite veins with weak chlorite alteration downhole.<br>15.50 16.25 Rock now moderately to strongly chlorite and sericite altered. Oxidised haematite veins after pyrite are at 80 and 40 degrees to the core axis. All sulphides oxidised. Lower contact has manganese staining and is at 35 degrees to the core axis. | SH0010<br>SH0011<br>SH0012<br>SH0013<br>SH0014 | 12.00<br>13.00<br>14.00<br>15.00<br>16.00 | 13.00<br>14.00<br>15.00<br>16.00<br>17.00 | 1.00<br>1.00<br>1.00<br>1.00<br>1.00 | <.01<br><.01<br><.01<br><.01<br><.01 |
| 16.25 | 17.20 | PELITE<br>SILTSTONE, GREY GREEN.<br>Fine grained, grey green, siliceous chloritic siltstone with ovoid quartz to 5 mm and bedding at 15 degrees to the core axis at 17.15. The rock contains carbonate filled fractures throughout and weathered and leached haematite veins. Lower contact is sharp and marked by a quartz carbonate haematite vein at 20 degrees to the core axis. | SH0015 | 17.00 | 18.00 | 1.00 | .04 |
| 17.20 | 19.75 | VOLCANICLASTIC<br>QUARTZ VOLCANICLASTIC, CHLORITE AND SERICITE ALTERED.<br>17.20 19.25 Medium grained quartz rich volcaniclastic with numerous quartz haematite carbonate veins generally at 80 degrees to the core axis and 30 degrees to the core axis. Some manganese | SH0016<br>SH0017 | 18.00<br>19.00 | 19.00<br>20.00 | 1.00<br>1.00 | <.01<br><.01 |

| From (m) | To (m) | Description | Sample No. | From (m) | To (m) | Width (m) | Au (ppm) |
|---|---|---|---|---|---|---|---|
| | | staining of fractures from 17.20 to 17.50. Rock is more silicified downhole. Rock contains negligible sulphides. | | | | | |
| | 19.25 19.75 | Very fine grained, siliceous, green to beige green rock with ovoid pods of quartz, occasionally with chlorite rims, elongate to 25 degrees to the core axis. Rock is cross-cut by numerous leached haematite veins at 65 to 90 degrees to the core axis and fine quartz chlorite veins. Rock contains negligible sulphides. | | | | | |
| 19.75 | 30.15 | VOLCANICLASTIC | | | | | |
| | | QUARTZ LITHIC VOLCANICLASTIC, CHLORITE AND SERICITE ALTERED | SH0018 | 20.00 | 21.00 | 1.00 | <.01 |
| | 19.75 27.15 | Medium grained to coarse grained sub - rounded quartz and lithic rich volcaniclastic. Lithics are generally fine grained pale green to dark green siltstones. To 21.40 the rock is silica carbonate and moderately chlorite altered. Below 21.40 it is variably chlorite and sericite altered with silica and carbonate alteration throughout. The rock contains a fine grained siltstone from 20.95 to 21.05 with upper contact and lower contact marked by leached haematite veins. The rock is predominantly lithic rich below 22.00 with lithics 25% of the rock. The rock contains chalcopyrite in a quartz haematite vein at 25.85. The rock contains quartz chlorite veins at 70 to 90 degrees to the core axis below 26.20. The rock contains quartz carbonate haematite veins at 45 to 70 degrees to the core axis throughout. | SH0019 | 21.00 | 22.00 | 1.00 | <.01 |
| | | | SH0020 | 22.00 | 23.00 | 1.00 | .01 |
| | | | SH0021 | 23.00 | 24.00 | 1.00 | <.01 |
| | | | SH0022 | 24.00 | 25.00 | 1.00 | n/a |
| | | | SH0023 | 25.00 | 26.00 | 1.00 | <.01 |
| | | | SH0024 | 26.00 | 27.00 | 1.00 | <.01 |
| | | | SH0025 | 27.00 | 28.00 | 1.00 | <.01 |
| | | | SH0026 | 28.00 | 29.00 | 1.00 | .02 |
| | | | SH0027 | 29.00 | 30.00 | 1.00 | .01 |
| | 27.15 27.25 | As above but strongly chlorite altered with some haematite veins after pyrite. | | | | | |
| | 27.25 28.35 | As above but silica sericite altered rock in broken core. | | | | | |
| | 28.35 30.15 | As above with some fine grained dark grey lithics to 15 mm. Rock is silica sericite and carbonate altered becoming more silicified downhole. | | | | | |
| | 30.15 | E.O.H. | | | | | |