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87-481-163438188
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DIAMOND DRILL PROGRAM ON THE
QR 1-8 MINERAL CLATMS
BRITISH COLUMBIA
CARIBOO MINING DIVISION
NTS 93A12
$52^{\circ} 41^{\prime} \mathrm{N}, 121^{\circ} 48^{\prime} \mathrm{W}$ $40^{\prime} 12^{\prime \prime} \quad 47^{\prime} 48^{\prime \prime}$
by
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August 8, 1987

## GEOLOGICAL BRANCH ASSESSMENTREPORT



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## SUMMARY

Results of diamond drilling in the $Q R$ Midwest zone and step-out holes to the east and west are given in this report. A total of 5,860 metres comprising holes $180-216$ to 248 was completed between March 1st and April 15th, 1987. Overall drilling costs were $\$ 107$ per metre.

Thirty-three holes were drilled within the limits of the Midwest zone and to the east and west of the area drilled in 1986. Results confirm that the Midwest zone is a tabular zone approximately 100 metres by 270 metres overall lying at the basalt-siltstone contact. The zone strikes $290^{\circ}$ and dips $60^{\circ}$ south. The mineralized horizon consists of a central zone of massive sulphide ( $+50 \%$ total sulphide) of pyrrhotite-pyrite-chalcopyrite some 80 metres by 80 metres in the vicinity of hole 187 enclosed by a relatively low sulphide, silicate-rich zone of pyritic and intensely propylitized basaltic tuff, breccia and basalt.

## INTRODUCTION

Results of diamond drilling on the Quesnel River property are given in this report. The object of the current program was to further test the Midwest zone by stepping out on north-south fences from the area drilled in late 1986. A total of 5,860 metres was drilled in 33 holes comprising holes $180-216$ to 180-248. Drill hole summaries and results of hole 180~234 are given herein.

## LOCATION, ACCESS AND TOPOGRAPHY

The Quesnel River property is situated 58 kilometres southeast of Quesnel and ten kilometres west of Quesnel Forks (Figure 1). Access to the site is by a series of gravel-surfaced public service roads from quesnel to Sardine Flats and by the Nyland Lake access road (2700 Road) to Maud Lake, an overall distance of 45 kilometres. Ten kilometres of rough, four-wheel drive access trail links the terminus of the access road and the Quesnel River camp. The end of the Nyland Lake access road is at kilometre 32 some five kilometres west of the $Q R$ claim block.

Local terrain consists of rolling hill country typical of the interior plateau region of central British Columbia. Deeply incised valleys of Quesnel River and Maud Creek lie near the south and east boundaries of property. The deposit, at an elevation of 1,000 metres, is situated in a low depression between the quesnel River to the south and a swampy, muskeg-filled valley that drains northerly to Maud Creek. Relief from the lowlands of Quesnel River valley to timbered summits northwest of the deposit is 500 metres.

## CLAIM INFORMATION

Claim data are given in Table I. All claims are valid until 1997. Work done this year will extend expiry dates by one year.

TABLE I

## CLATM INFORMATION

| NAME | RECORD NO. | NO. OF UNITS | EXPIRY DATE |
| :---: | :---: | :---: | :---: |
| X-Group ( 4 claims, 60 units) |  |  |  |
| QR 1 | 504 | 20 | October 18, 1997 |
| QR 3 | 506 | 20 | October 18, 1997 |
| QR 5 | 508 | 10 | October 18, 1997 |
| QR 6 | 509 | 10 | October 18, 1997 |
| Y-Group (4 claims, 60 units) |  |  |  |
| QR 2 | 505 | 20 | October 18, 1997 |
| QR 4 | 507 | 20 | October 18, 1997 |
| QR 7 | 1830 | 15 | August 8, 1997 |
| QR 8 | 1831 | 15 | August 8, 1997 |




## 1987 PROGRAM

The 1987 program consisted of 33 drill holes (180-216 to 180-248, 5,860 metres). Work was done between March 1st and May 28, 1987.

Drilling was done by J. T. Thomas of Smithers, B.C. at a cost of $\$ 64.45 /$ metre. All core was logged on-site and determinations made for recovery and rock quality index ( RQD ). One-metre samples of altered and mineralized material were submitted for gold assays, which were obtained by atomic absorption techniques by Acme Analytical Laboratories Limited. Geochemical analyses of composites comprising three one-metre samples were performed on barren rocks and reported in parts per billion (ppb). Drill hole locations are given in Figure 3.

Core is stored at Racing Road, Quesnel. A drill log for hole 180-234 complete with assay information is given in Appendix I.

## DRILLING

Thirty-three drill holes were completed in the 1987 program designed to further test the Midwest zone and to explore the basalt-siltstone contact east and west of the discovery area. Drill hole sumnaries are given below.

180-216
Hole 216 was collared 45 metres north of hole 199 , which intersected 1 m of 12.90 gpt gold - largely massive sulphide. Hole 216 cored siltstone, argillite and felsic sills and dykes to 208.7 m , calcareous basalt to 207.6 m , and propylitic basalt to 209.7 m . This hole was drilled close to the alteration front at the north boundary of the mineralized zone.

180-217
Hole 180-217 was collared 30 metres north of hole 192 , which intersected four metres of 3.31 gpt gold. Hole 217 intersected pyritic siltstone, felsic dykes and sills and black argillite to 160.9 m , massive propylite to 168.8 m , a felsic dyke from 168.8 to 172.3 m , massive propylite to 177.4 m and propylitic basalt to 195.8 m . Calcareous basalt was cored from 195.8 m to 214.3 m .

180-218
Hole 218 was collared on section $116+00 \mathrm{E}$ sixty metres south of hole 85 . Hole 218 cored felsic dykes and pyritic siltstone to 194.1 m , interbedded siltstone and propylite layers to 225.1 m , massive propylite to 232.2 m and weakly altered basalt to 268.8 m .

180-219
Hole 219 was collared at the same setup as hole 194 on section $116+20 \mathrm{E}$. This hole cored pyritic siltstone and felsic dykes to 228.4 m , propylitic basalt to 234.3 m and weakly altered basalt to 252.1 m .

180-220
Hole 220 was collared on section $116+43 \mathrm{E}$ sixty metres south of hole 200 . Hole 220 cored pyritic siltstone and felsic dykes and sills to 160 m , interbedded propylite and siltstone to 168.4 m , massive propylite to 175 m , and propylitic basalt to 212.4m.

180-221
Hole 221 was collared at the south end of the drill grid 45 metres east of hole 218. Hole 221 cored felsic dykes and bedded siltstones to 227.7 m and weakly altered basalt to 241.4 m .

180-223
Hole 223 was collared 35 metres northeast of hole 221 on section $116+68 \mathrm{E}$. Hole 223 penetrated siltstones and felsic dykes to 174.5 m , interbedded siltstone and propylite units to 183.4 m , massive sulphides and propylite to 188.8 m , propylite to 196.1 m , and propylitic basalt to 215.2 m .

180-224
Hole 224 was collared on section $116+93 E$ thirty metres north of hole 207. Hole 224 cored siltstone to 68 m , interbedded siltstone and propylite to 78.5 m , massive propylite to 97.4 m and propylitic basalt to 108.8 m .

180-225
Hole 225 was collared 25 metres east of hole 207 on section $1178+25 \mathrm{E}$. Hole 225 cored siltstone to 67.6 m , propylite to 92.7 m and propylitic basalt to 105.5 m .

180-226
Hole 226 was collared 50 metres south of hole 225 and drilled north at 45 degrees. Hole 226 cored pyritic siltstone and felsic dykes to 100.5 m , massive propylite to 116.8 m and propylitic basalt to 131.7 m .

180-227
Hole 227 was collared 25 metres east of hole 226 on section 117+42E. Hole 227 penetrated pyritic siltstone and felsic dykes and sills to 91.5 m , massive propylite to 96 m , propylitic basalt to 100.6 m , massive propylite to 117.9 m and propylitic basalt to 133.2 m .

180-228
Hole 228 was collared 40 metres east of hole 211 on section $117+83 \mathrm{E}$. Hole 228 cored siltstone to 30 m , and propylitic basalt containing up to $20 \%$ pyrite, traces of chalcopyrite and garnets to 51.5 m .

180-229
Hole 229 was collared 40 metres south of hole 228 . Hole 229 cored siltstone to 61 m , mixed siltstone and propylite to 64 m , massive propylite with $20 \%$ pyrite to 74 m , propylitic basalt to 93 m , gouge and felsic dykes to 94 m , propylite to 104 m , and propylitic basalt to 136 m .

180-230
Hole 230 was collared 40 metres south of hole 229. Hole 230 cored felsic dykes and pyritic siltstone to 99.6 m , massive propylite to 102.6 m , and propylitic basalt to 175.9 m .

180-231
Hole 231 was collared 30 metres east of hole 229 on section 118+10E. Hole 231 cored siltstone to 22 m , propylite with $20 \%$ pyrite to 30 m , pyritic gouge to 34 m , mixed propylitic basalt and propylite with $10 \%$ pyrite to 91 m , gouge and sheared rock to 94.2 m , felsic dyke to 96 m , propylite to 108 m and propylitic basalt to 135.4 m .

180-232
Hole 232 was collared on section 118+41E at the hole 78 site. Hole 232 cored massive propylite to 42.5 m , and propylitic basalt to 78.3 m . Gouge and sheared rock was cored from 30 to 32.3 m .

Hole 233 was collared on section $115+00 \mathrm{E}, 40$ metres north of hole 86 . Hole 233 cored pyritic siltstone and felsic dykes to 223.7 m and weakly propylitized basalt to 274.9 m . Pyrite content is low.

180-234
Hole 234 was collared on section 113+96E, 40 metres north of hole 87 . Hole 234 cored felsic dykes, black argillite and siltstone to 164.1 m , basaltic wacke, lapillistone and basalt to 172 m and propylitic basalt to 199 m . Pyrite content varies from $1 \%$ to $2 \%$.

180-235
Hole 235 was collared on section $112+00 \mathrm{E}, 200$ metres west of hole 87 . Hole 235 cored argillite, siltstone and felsic dykes to 162.6 m and propylitic basalt to 188.1 m .

180-236
Hole 236 was collared on section $110+00 \mathrm{E}$ at $101+60 \mathrm{~N}$. Hole 236 penetrated black argillite and felsic dykes to 60 m , siltstone to 142 m and propylitic basalt to 169.8 m . Pyrite content is low throughout.

## 180-237

Hole 237 was collared on section $112+00 \mathrm{E}$ at the same site as hole 235 . Hole 237 cored felsic dykes, siltstone and black argillite to 163.8 m and propylitic basalt to 190.2 m . Pyrite content is uniformly low throughout.

180-238
Hole 238 was collared on section 115+00E, 65 metres north of hole 233. Hole 238 cored argillite, siltstone and felsic dykes to 185.0 m and barren-looking propylitic basalt to 238.4 m .

180-239
Hole 239 was collared on section 115+72E at the site of hole 189. Hole 239 collared felsic dykes and pyritic siltstones to 219.6 m , propylite and propylitic basalt to 231 m and weakly altered basalt to 247.5 m .

Hole 240 was collared on section $116+20 \mathrm{E}$ at the same site as 219 and 194. Hole 240 collared siltstones and felsic dykes to 201.9 m , massive propylite to 210.8 m and propylitic basalt to 239.6 m . Both the propylite and underlying propylitic basalt are weakly pyritic, up to $8 \%$ fine grained pyrite.

180-242
Hole 242 was collared on section $117+20 \mathrm{E}, 60$ metres south of hole 226 . Hole 242 cored pyritic siltstones and felsic dykes to 134.8 m and propylitic basalt to 187.1 m . Much of the siltstone unit between 55 and 134.8 m is sheared and brecciated.

180-243
Hole 243 was collared on section 119+00E, 55 metres south of hole 52 . Hole 243 cored a felsic dyke to 9.3 m , siltstone to 10.3 m and propylitic basalt to 102.1 m . Pyrite content varies from $1 \%$ to $5 \%$ throughout.

180-244
Hole 244 was collared on section 118+72E, 30 metres west of hole 243. Hole 244 collared propylitic basalt to 52.9 m , a felsic dyke to 55.9 m and calcareous basalt to 102.7 m .

180-245
Hole 245 was collared on section $118+41 \mathrm{E}, 30$ metres west of hole 244 . Hole 245 cored a felsic dyke to 12.1 m and propylitized basalt to 113.3 m . Pyrite content decreases downhole.

180-246
Hole 246 was collared on section $118+10 \mathrm{E}, 40$ metres north of hole 231 . Hole 246 cored propylite to 7 m , a felsic dyke to 26.4 m , weakly propylitized basalt to 47.7 m and calcareous basalt to 118.2 m . The propylite unit contains about $1 \%$ pyrite, elsewhere pyrite content is low.

180-247
Hole 247 was collared on section $117+15 \mathrm{E}$, 25 metres north of hole 225. Hole 247 cored pyritic siltstone to 48 m and weakly propylitized basalt to 107 m . A layer of massive pyrite was cored between 49 and 51 m , elsewhere pyrite content is low.

## 180-248

Hole 248 was collared 40 metres south of hole 227 on section $117+42 \mathrm{E}$. Hole 248 cored siltstone to 17.9 m , a felsic dyke to 54.5 m , pyritic siltstone to 161.5 m , magnetite-rich skarn to 164.8 m and felsic dykes and thin siltstone beds to 185.5 m .

## DISBURSEMENTS

1. Diamond drilling, by contract.

Drill hole 180-234 199m @\$64.45/m
Total
\$ 12,825.55

Work applied as follows:
X Group - drill hole 180-234
\$ 12,825:55

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rox coolegical cennultante Led 06/18/47
-h. Cameron is -p praduate gedogint with 4years experience on the property.





