

DAV-94-37

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# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3E8

Page Number 1-A  
 Total Pages 4  
 Certificate Date 23-DEC-94  
 Invoice No. I-P432760  
 P.O. Number :  
 Account :

Project :

Comments: CC: WARREN BATES

## CERTIFICATE OF ANALYSIS A9432760

| SAMPLE DESCRIPTION | PREP CODE | Au ppb FA+AA | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca %   | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K %  | La ppm | Mg %   | Mn ppm | Mo ppm |
|--------------------|-----------|--------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|------|--------|--------|--------|--------|
| 37018              | 205 226   | 5950         | 1.12 | 88     | 30     | < 0.5  | < 2    | 0.10   | 1.5    | 1      | 42     | 43     | 0.79 | < 10   | < 1    | 0.64 | < 10   | 0.15   | 155    | 1      |
| 37019              | 205 226   | 210          | 0.91 | 140    | 20     | < 0.5  | < 2    | 0.02   | 3.0    | < 1    | 40     | 27     | 0.54 | < 10   | < 1    | 0.53 | 10     | 0.01   | 300    | 1      |
| 37020              | 205 226   | 520          | 0.83 | 158    | 20     | < 0.5  | 6      | 0.01   | 3.0    | < 1    | 38     | 38     | 0.86 | < 10   | < 1    | 0.49 | < 10   | 0.01   | 415    | 4      |
| 37021              | 205 226   | 425          | 0.79 | 288    | 20     | < 0.5  | 6      | 0.02   | 2.5    | 1      | 36     | 34     | 0.73 | < 10   | < 1    | 0.44 | 10     | 0.01   | 705    | 3      |
| 37022              | 205 226   | 140          | 0.78 | 102    | 10     | < 0.5  | < 2    | 0.04   | 1.5    | < 1    | 33     | 16     | 0.47 | < 10   | < 1    | 0.39 | 10     | < 0.01 | 3130   | 2      |
| 37023              | 205 226   | 480          | 0.83 | 232    | 20     | < 0.5  | < 2    | 0.03   | 3.5    | < 1    | 52     | 30     | 0.87 | < 10   | < 1    | 0.44 | 10     | 0.01   | 2300   | 2      |
| 37024              | 205 226   | 160          | 0.70 | 328    | 20     | < 0.5  | 10     | 0.02   | 3.5    | < 1    | 27     | 75     | 1.14 | < 10   | < 1    | 0.41 | 10     | < 0.01 | 825    | 5      |
| 37025              | 205 226   | 20           | 0.77 | 224    | 20     | < 0.5  | 2      | 0.01   | >100.0 | 1      | 34     | 132    | 0.60 | < 10   | < 1    | 0.46 | < 10   | 0.01   | 485    | 2      |
| 37026              | 205 226   | 80           | 0.94 | 226    | 30     | < 0.5  | 10     | 0.01   | 2.5    | < 1    | 31     | 268    | 0.64 | < 10   | < 1    | 0.52 | 10     | 0.01   | 490    | 6      |
| 37027              | 205 226   | 105          | 1.02 | 378    | 40     | < 0.5  | < 2    | 0.03   | 5.0    | 1      | 47     | 41     | 1.58 | < 10   | < 1    | 0.54 | 10     | 0.01   | 1675   | 7      |
| 37028              | 205 226   | 105          | 1.04 | 574    | 30     | < 0.5  | 2      | 0.02   | 2.0    | < 1    | 34     | 35     | 0.99 | < 10   | < 1    | 0.53 | 10     | 0.01   | 1845   | 1      |
| 37029              | 205 226   | 130          | 0.92 | 1105   | 60     | < 0.5  | < 2    | 0.01   | 12.5   | < 1    | 48     | 76     | 2.97 | < 10   | < 1    | 0.49 | 10     | 0.01   | 215    | 3      |
| 37030              | 205 226   | 75           | 0.95 | 1190   | 40     | < 0.5  | < 2    | 0.02   | 8.0    | < 1    | 30     | 59     | 2.18 | < 10   | < 1    | 0.49 | 10     | 0.01   | 1245   | 4      |
| 37031              | 205 226   | 20           | 0.74 | 418    | 20     | < 0.5  | < 2    | 0.01   | 1.5    | 1      | 26     | 24     | 0.79 | < 10   | < 1    | 0.42 | 10     | 0.01   | 835    | 3      |
| 37032              | 205 226   | 95           | 0.71 | 1165   | 30     | < 0.5  | < 2    | 0.01   | 5.5    | < 1    | 20     | 51     | 2.51 | < 10   | < 1    | 0.37 | 10     | < 0.01 | 555    | 9      |
| 37033              | 205 226   | 120          | 0.63 | 418    | 20     | < 0.5  | < 2    | 0.01   | 1.5    | < 1    | 25     | 27     | 0.66 | < 10   | < 1    | 0.36 | 10     | < 0.01 | 495    | 2      |
| 37034              | 205 226   | 425          | 0.50 | 184    | 20     | < 0.5  | < 2    | < 0.01 | 1.5    | < 1    | 18     | 25     | 0.67 | < 10   | < 1    | 0.32 | < 10   | < 0.01 | 40     | 2      |
| 37035              | 205 226   | 190          | 0.50 | 208    | 20     | < 0.5  | 4      | < 0.01 | 1.0    | < 1    | 29     | 19     | 0.86 | < 10   | < 1    | 0.35 | 10     | < 0.01 | 30     | 3      |
| 37036              | 205 226   | 130          | 0.40 | 176    | 20     | < 0.5  | 4      | < 0.01 | 0.5    | < 1    | 39     | 13     | 0.62 | < 10   | < 1    | 0.30 | < 10   | < 0.01 | 25     | 3      |
| 37037              | 205 226   | 790          | 0.44 | 256    | 20     | < 0.5  | 6      | 0.01   | 0.5    | < 1    | 56     | 16     | 1.11 | < 10   | < 1    | 0.35 | < 10   | 0.01   | 35     | 2      |
| 37038              | 205 226   | 755          | 0.56 | 272    | 30     | < 0.5  | 12     | 0.01   | 2.0    | 1      | 55     | 34     | 1.96 | < 10   | < 1    | 0.37 | < 10   | 0.01   | 40     | 4      |
| 37039              | 205 226   | 135          | 0.66 | 256    | 30     | < 0.5  | 2      | < 0.01 | 1.5    | < 1    | 69     | 19     | 1.26 | < 10   | < 1    | 0.43 | < 10   | < 0.01 | 45     | 4      |
| 37040              | 205 226   | 160          | 0.65 | 370    | 30     | < 0.5  | 4      | < 0.01 | 5.5    | < 1    | 59     | 35     | 1.83 | < 10   | < 1    | 0.42 | 10     | < 0.01 | 185    | 5      |
| 37041              | 205 226   | 155          | 0.67 | 336    | 30     | < 0.5  | 2      | < 0.01 | 5.0    | < 1    | 79     | 36     | 1.61 | < 10   | < 1    | 0.42 | < 10   | < 0.01 | 60     | 5      |
| 37042              | 205 226   | 65           | 0.68 | 266    | 40     | < 0.5  | < 2    | < 0.01 | 4.0    | < 1    | 63     | 22     | 1.75 | < 10   | < 1    | 0.45 | < 10   | < 0.01 | 85     | 6      |
| 37043              | 205 226   | 1510         | 0.72 | 330    | 90     | < 0.5  | < 2    | 0.01   | 1.5    | 2      | 65     | 107    | 3.27 | < 10   | 1      | 0.50 | < 10   | 0.01   | 145    | 5      |
| 37044              | 205 226   | 160          | 1.58 | 166    | 140    | < 0.5  | 2      | 0.27   | 93.5   | 75     | 57     | 299    | 2.70 | < 10   | < 1    | 0.92 | 10     | 0.13   | 1315   | 2      |
| 37045              | 205 226   | 195          | 1.86 | 148    | 200    | 0.5    | 2      | 0.38   | 45.0   | 69     | 82     | 183    | 2.38 | < 10   | 1      | 1.08 | 10     | 0.10   | 1535   | 3      |
| 37046              | 205 226   | 200          | 2.21 | 108    | 220    | < 0.5  | < 2    | 0.40   | 46.0   | 31     | 86     | 197    | 3.47 | < 10   | < 1    | 1.33 | 10     | 0.22   | 2690   | 2      |
| 37047              | 205 226   | 395          | 1.84 | 48     | 180    | < 0.5  | < 2    | 0.49   | 45.0   | 29     | 89     | 164    | 2.87 | < 10   | 1      | 1.13 | 20     | 0.15   | 2120   | 7      |
| 37048              | 205 226   | 1300         | 2.15 | 40     | 200    | < 0.5  | 4      | 0.46   | 21.5   | 24     | 78     | 116    | 3.35 | < 10   | < 1    | 1.31 | 10     | 0.17   | 2210   | 4      |
| 37049              | 205 226   | 635          | 1.36 | 78     | 350    | < 0.5  | < 2    | 0.42   | 21.5   | 25     | 96     | 57     | 4.81 | < 10   | < 1    | 2.06 | 20     | 0.46   | 3670   | < 1    |
| 37050              | 205 226   | 15           | 5.22 | 24     | 420    | < 0.5  | < 2    | 0.38   | 1.5    | 18     | 93     | 14     | 6.17 | < 10   | < 1    | 2.95 | 10     | 0.92   | 5150   | 1      |
| 37051              | 205 226   | 100          | 4.11 | 34     | 390    | < 0.5  | < 2    | 0.42   | 26.0   | 14     | 82     | 62     | 5.35 | < 10   | 1      | 2.45 | 10     | 0.78   | 4840   | 1      |
| 37052              | 205 226   | 15           | 4.32 | 52     | 440    | < 0.5  | < 2    | 0.38   | 4.0    | 17     | 80     | 12     | 5.96 | < 10   | < 1    | 2.73 | 10     | 0.96   | 5580   | < 1    |
| 37053              | 205 226   | 1260         | 2.78 | 80     | 270    | < 0.5  | < 2    | 0.41   | 26.0   | 20     | 77     | 122    | 4.13 | < 10   | 1      | 1.77 | 10     | 0.34   | 3440   | 1      |
| 37054              | 205 226   | 1240         | 2.95 | 76     | 170    | < 0.5  | < 2    | 0.40   | 51.5   | 33     | 78     | 147    | 4.34 | < 10   | < 1    | 1.74 | 10     | 0.50   | 3520   | 1      |
| 37055              | 205 226   | 290          | 4.45 | 20     | 390    | < 0.5  | < 2    | 0.40   | 18.0   | 12     | 91     | 34     | 5.88 | < 10   | < 1    | 2.31 | 10     | 1.24   | 5870   | < 1    |
| 37056              | 205 226   | 100          | 3.60 | 8      | 410    | < 0.5  | < 2    | 0.37   | 28.0   | 15     | 91     | 69     | 5.33 | < 10   | < 1    | 2.26 | 10     | 0.98   | 4870   | < 1    |
| 37057              | 205 226   | 20           | 3.59 | 34     | 310    | < 0.5  | < 2    | 0.42   | 19.5   | 21     | 86     | 102    | 4.86 | < 10   | < 1    | 2.11 | 10     | 0.77   | 4640   | < 1    |

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CERTIFICATION:

12/23/94 1:43PM CHEMEX LABS VAX-FAX1

PAGE 002



# Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver  
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 Comments: CC: WARREN BATES

## CERTIFICATE OF ANALYSIS A9432760

| SAMPLE DESCRIPTION | PREP CODE | Na %   | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti %   | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Ag ppm |
|--------------------|-----------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|
| 37018              | 205 226   | 0.02   | 2      | 220   | 318    | 8      | 1      | 9      | 0.01   | < 10   | < 10  | 9     | < 10  | 104    | 2.1    |
| 37019              | 205 226   | 0.01   | < 1    | 130   | 400    | 16     | < 1    | 5      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 104    | 2.7    |
| 37020              | 205 226   | 0.01   | < 1    | 160   | 608    | 20     | < 1    | 4      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 146    | 5.6    |
| 37021              | 205 226   | 0.01   | < 1    | 420   | 1875   | 24     | < 1    | 9      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 124    | 5.8    |
| 37022              | 205 226   | 0.01   | < 1    | 130   | 626    | 22     | < 1    | 3      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 86     | 4.9    |
| 37023              | 205 226   | 0.01   | < 1    | 240   | 1260   | 20     | < 1    | 3      | < 0.01 | < 10   | < 10  | 1     | < 10  | 136    | 5.3    |
| 37024              | 205 226   | 0.01   | < 1    | 300   | 1550   | 20     | < 1    | 8      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 194    | 14.2   |
| 37025              | 205 226   | 0.01   | < 1    | 180   | 1805   | 12     | < 1    | 9      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 2020   | 13.0   |
| 37026              | 205 226   | 0.01   | < 1    | 380   | 1825   | 16     | < 1    | 12     | < 0.01 | < 10   | < 10  | 1     | < 10  | 186    | 21.6   |
| 37027              | 205 226   | 0.01   | < 1    | 540   | 1590   | 18     | < 1    | 22     | < 0.01 | < 10   | < 10  | 1     | < 10  | 216    | 5.3    |
| 37028              | 205 226   | 0.01   | < 1    | 500   | 3130   | 24     | < 1    | 12     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 186    | 13.6   |
| 37029              | 205 226   | 0.01   | < 1    | 860   | 2430   | 26     | < 1    | 28     | < 0.01 | < 10   | < 10  | 1     | < 10  | 278    | 2.8    |
| 37030              | 205 226   | 0.01   | < 1    | 610   | 3020   | 28     | < 1    | 19     | < 0.01 | < 10   | < 10  | 1     | < 10  | 194    | 4.6    |
| 37031              | 205 226   | 0.01   | < 1    | 270   | 1935   | 20     | < 1    | 8      | < 0.01 | < 10   | < 10  | 1     | < 10  | 116    | 3.7    |
| 37032              | 205 226   | 0.01   | < 1    | 730   | 4290   | 40     | < 1    | 13     | < 0.01 | < 10   | < 10  | 1     | < 10  | 270    | 7.2    |
| 37033              | 205 226   | 0.01   | < 1    | 240   | 1360   | 16     | < 1    | 7      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 90     | 1.8    |
| 37034              | 205 226   | < 0.01 | < 1    | 150   | 402    | 4      | < 1    | 7      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 76     | 1.3    |
| 37035              | 205 226   | 0.01   | < 1    | 330   | 224    | 6      | < 1    | 15     | < 0.01 | < 10   | < 10  | 1     | < 10  | 68     | 3.1    |
| 37036              | 205 226   | 0.01   | < 1    | 160   | 538    | 12     | < 1    | 11     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 52     | 2.1    |
| 37037              | 205 226   | 0.01   | < 1    | 270   | 514    | 18     | < 1    | 17     | < 0.01 | < 10   | < 10  | 2     | < 10  | 88     | 2.6    |
| 37038              | 205 226   | 0.01   | < 1    | 650   | 478    | 28     | < 1    | 18     | < 0.01 | < 10   | < 10  | 1     | < 10  | 188    | 7.7    |
| 37039              | 205 226   | 0.01   | < 1    | 510   | 554    | 18     | < 1    | 25     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 134    | 3.6    |
| 37040              | 205 226   | 0.01   | < 1    | 450   | 380    | 14     | < 1    | 16     | < 0.01 | < 10   | < 10  | 1     | < 10  | 172    | 4.3    |
| 37041              | 205 226   | 0.01   | < 1    | 370   | 258    | 18     | < 1    | 11     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 168    | 4.0    |
| 37042              | 205 226   | 0.01   | < 1    | 430   | 176    | 16     | < 1    | 10     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 170    | 2.4    |
| 37043              | 205 226   | 0.01   | 2      | 910   | 242    | 22     | 1      | 41     | < 0.01 | < 10   | < 10  | 1     | < 10  | 576    | 6.3    |
| 37044              | 205 226   | 0.01   | 54     | 1220  | 226    | 8      | 2      | 51     | 0.16   | < 10   | < 10  | 29    | < 10  | 7660   | 2.8    |
| 37045              | 205 226   | 0.02   | 53     | 1580  | 164    | 8      | 3      | 36     | 0.15   | < 10   | < 10  | 34    | < 10  | 6330   | 3.0    |
| 37046              | 205 226   | 0.01   | 71     | 1570  | 56     | 8      | 3      | 30     | 0.19   | < 10   | < 10  | 46    | < 10  | 7390   | 1.3    |
| 37047              | 205 226   | 0.01   | 53     | 1930  | 368    | 14     | 3      | 45     | 0.16   | < 10   | < 10  | 37    | < 10  | 7920   | 2.2    |
| 37048              | 205 226   | 0.02   | 33     | 1840  | 764    | 12     | 3      | 42     | 0.18   | < 10   | < 10  | 42    | < 10  | 5230   | 5.2    |
| 37049              | 205 226   | 0.01   | 48     | 1680  | 142    | 6      | 5      | 50     | 0.22   | < 10   | < 10  | 67    | < 10  | 5050   | 1.2    |
| 37050              | 205 226   | 0.02   | 37     | 1470  | 142    | 4      | 8      | 28     | 0.26   | < 10   | < 10  | 90    | < 10  | 724    | 0.9    |
| 37051              | 205 226   | 0.02   | 32     | 1740  | 1300   | 10     | 6      | 36     | 0.24   | < 10   | < 10  | 78    | < 10  | 4910   | 7.7    |
| 37052              | 205 226   | 0.02   | 31     | 1430  | 504    | 2      | 7      | 17     | 0.23   | < 10   | < 10  | 85    | < 10  | 1030   | 2.8    |
| 37053              | 205 226   | 0.01   | 34     | 1640  | 18     | 6      | 4      | 24     | 0.21   | < 10   | < 10  | 57    | < 10  | 4920   | 0.9    |
| 37054              | 205 226   | 0.02   | 65     | 1610  | 418    | 2      | 4      | 20     | 0.22   | < 10   | < 10  | 62    | < 10  | 8690   | 3.9    |
| 37055              | 205 226   | 0.03   | 29     | 1510  | 544    | 2      | 7      | 16     | 0.25   | < 10   | < 10  | 94    | < 10  | 3150   | 3.5    |
| 37056              | 205 226   | 0.01   | 26     | 1540  | 246    | 4      | 5      | 14     | 0.27   | < 10   | < 10  | 73    | < 10  | 4620   | 2.3    |
| 37057              | 205 226   | 0.02   | 34     | 1650  | 52     | 10     | 6      | 22     | 0.26   | < 10   | < 10  | 69    | < 10  | 3500   | 0.6    |

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12/23/94 1:45PM CHEMEX LABS VAX-FAX1 PAGE 003

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
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 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.  
 VANCOUVER, BC  
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 Comments: CC: WARREN BATES

## CERTIFICATE OF ANALYSIS A9432760

| SAMPLE DESCRIPTION | PREP CODE | Au ppb FA+AA | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm |
|--------------------|-----------|--------------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|--------|
| 37058              | 205 226   | 35           | 3.81 | 4      | 360    | < 0.5  | < 2    | 0.44 | 16.0   | 19     | 85     | 79     | 5.35 | < 10   | 3      | 2.38 | 10     | 0.78 | 4920   | 1      |
| 37059              | 205 226   | 75           | 3.65 | 20     | 400    | < 0.5  | < 2    | 0.40 | 12.5   | 18     | 78     | 53     | 5.13 | < 10   | < 1    | 2.42 | 10     | 0.93 | 4700   | 2      |
| 37060              | 205 226   | 35           | 3.15 | 76     | 330    | < 0.5  | < 2    | 0.40 | 25.0   | 27     | 80     | 131    | 4.80 | < 10   | < 1    | 2.03 | 10     | 0.68 | 4240   | 2      |
| 37061              | 205 226   | 335          | 2.74 | 58     | 170    | < 0.5  | < 2    | 0.40 | 49.0   | 29     | 83     | 219    | 4.38 | < 10   | < 1    | 1.77 | 10     | 0.51 | 3600   | < 1    |
| 37062              | 205 226   | 225          | 3.30 | 66     | 330    | < 0.5  | < 2    | 0.40 | 46.5   | 24     | 78     | 121    | 5.10 | < 10   | < 1    | 2.15 | 10     | 0.65 | 4290   | < 1    |
| 37063              | 205 226   | 130          | 3.61 | 60     | 310    | < 0.5  | < 2    | 0.41 | 39.0   | 23     | 86     | 161    | 5.60 | < 10   | < 1    | 2.33 | 10     | 0.66 | 4660   | < 1    |
| 37064              | 205 226   | 45           | 3.46 | 20     | 390    | < 0.5  | < 2    | 0.42 | 12.0   | 15     | 81     | 34     | 4.84 | < 10   | < 1    | 2.33 | 10     | 0.67 | 4500   | < 1    |
| 37065              | 205 226   | 20           | 3.86 | 30     | 380    | < 0.5  | < 2    | 0.42 | 41.5   | 20     | 89     | 114    | 6.12 | < 10   | < 1    | 2.47 | 10     | 0.73 | 5260   | 1      |
| 37066              | 205 226   | 210          | 3.18 | 80     | 260    | < 0.5  | < 2    | 0.43 | 18.0   | 20     | 96     | 137    | 5.20 | < 10   | < 1    | 2.09 | 10     | 0.58 | 4430   | 2      |
| 37067              | 205 226   | 20           | 3.12 | 58     | 280    | 0.5    | < 2    | 0.42 | 4.5    | 15     | 89     | 71     | 4.46 | < 10   | 3      | 2.02 | 10     | 0.46 | 4140   | 1      |
| 37068              | 205 226   | 25           | 2.49 | 102    | 160    | < 0.5  | < 2    | 0.43 | 51.0   | 31     | 89     | 130    | 4.50 | < 10   | < 1    | 1.52 | 10     | 0.31 | 2770   | < 1    |
| 37069              | 205 226   | < 5          | 3.15 | 64     | 280    | < 0.5  | < 2    | 0.43 | 16.5   | 20     | 101    | 48     | 4.81 | < 10   | < 1    | 1.98 | 10     | 0.46 | 4010   | 1      |
| 37070              | 205 226   | < 5          | 2.49 | 122    | 240    | < 0.5  | < 2    | 0.45 | 15.5   | 20     | 90     | 64     | 4.17 | < 10   | < 1    | 1.62 | 10     | 0.31 | 3570   | < 1    |
| 37071              | 205 226   | 295          | 2.62 | 58     | 190    | < 0.5  | < 2    | 0.44 | 39.0   | 19     | 77     | 88     | 4.11 | < 10   | < 1    | 1.68 | 10     | 0.33 | 3090   | 3      |
| 37072              | 205 226   | 50           | 3.75 | 36     | 290    | < 0.5  | < 2    | 0.42 | 11.0   | 17     | 104    | 43     | 5.73 | < 10   | < 1    | 2.55 | 10     | 0.70 | 4400   | < 1    |
| 37073              | 205 226   | 5            | 4.11 | 38     | 160    | < 0.5  | < 2    | 0.56 | 8.0    | 14     | 104    | 22     | 5.54 | < 10   | < 1    | 1.52 | 10     | 1.39 | 6190   | < 1    |
| 37074              | 205 226   | < 5          | 4.16 | 28     | 140    | < 0.5  | < 2    | 0.61 | 8.0    | 17     | 107    | 17     | 5.10 | < 10   | < 1    | 1.64 | 10     | 1.67 | 6650   | < 1    |
| 37075              | 205 226   | 20           | 4.10 | 30     | 150    | < 0.5  | < 2    | 0.87 | 20.0   | 16     | 109    | 148    | 5.04 | < 10   | < 1    | 1.14 | 10     | 1.72 | 8310   | < 1    |
| 37076              | 205 226   | 10           | 4.89 | 42     | 120    | < 0.5  | < 2    | 0.80 | 20.5   | 16     | 110    | 17     | 5.66 | < 10   | < 1    | 1.25 | 10     | 1.90 | 7900   | 1      |
| 37077              | 205 226   | < 5          | 3.95 | 34     | 280    | < 0.5  | < 2    | 0.41 | 25.5   | 16     | 103    | 57     | 5.68 | < 10   | < 1    | 2.73 | 10     | 1.06 | 4450   | < 1    |
| 37078              | 205 226   | 40           | 3.39 | 224    | 280    | < 0.5  | < 2    | 0.39 | 63.5   | 20     | 82     | 91     | 5.97 | < 10   | < 1    | 2.38 | 10     | 0.54 | 3830   | 2      |
| 37079              | 205 226   | 45           | 3.16 | 136    | 310    | < 0.5  | < 2    | 0.43 | 22.5   | 19     | 83     | 67     | 5.28 | < 10   | < 1    | 2.23 | 10     | 0.50 | 3370   | 1      |
| 37080              | 205 226   | 55           | 3.40 | 82     | 330    | < 0.5  | < 2    | 0.39 | 27.5   | 19     | 85     | 78     | 6.20 | < 10   | < 1    | 2.40 | 10     | 0.53 | 3860   | 1      |
| 37081              | 205 226   | 140          | 3.03 | 128    | 300    | < 0.5  | < 2    | 0.36 | 24.0   | 15     | 76     | 74     | 5.77 | < 10   | < 1    | 2.13 | 10     | 0.39 | 3340   | 1      |
| 37082              | 205 226   | 320          | 2.04 | 138    | 140    | < 0.5  | < 2    | 0.31 | 90.5   | 16     | 79     | 112    | 4.25 | < 10   | < 1    | 1.20 | 10     | 0.26 | 2330   | 3      |
| 37083              | 205 226   | 505          | 1.88 | 162    | 120    | < 0.5  | 2      | 0.35 | 46.5   | 18     | 76     | 128    | 3.45 | < 10   | < 1    | 1.11 | 10     | 0.20 | 1805   | 3      |
| 37084              | 205 226   | 590          | 2.31 | 258    | 110    | < 0.5  | 4      | 0.33 | 61.0   | 17     | 98     | 173    | 4.54 | < 10   | < 1    | 1.48 | 10     | 0.31 | 2220   | 2      |
| 37085              | 205 226   | 145          | 2.58 | 88     | 160    | < 0.5  | < 2    | 0.36 | 34.5   | 12     | 83     | 92     | 4.59 | < 10   | < 1    | 1.75 | 10     | 0.37 | 2590   | 1      |
| 37086              | 205 226   | 75           | 2.91 | 90     | 250    | < 0.5  | < 2    | 0.35 | 19.0   | 10     | 87     | 37     | 5.29 | < 10   | < 1    | 1.92 | 10     | 0.44 | 3580   | < 1    |
| 37087              | 205 226   | 600          | 1.62 | 252    | 110    | < 0.5  | 6      | 0.34 | 33.0   | 28     | 71     | 174    | 4.46 | < 10   | < 1    | 1.05 | 10     | 0.22 | 1640   | 4      |
| 37088              | 205 226   | 510          | 1.86 | 142    | 120    | < 0.5  | 2      | 0.31 | 40.5   | 20     | 75     | 105    | 4.20 | < 10   | 1      | 1.22 | 10     | 0.28 | 2190   | 3      |
| 37089              | 205 226   | 1340         | 1.67 | 176    | 100    | < 0.5  | 16     | 0.31 | 31.5   | 25     | 73     | 126    | 4.43 | < 10   | 1      | 1.10 | 10     | 0.23 | 2030   | 4      |
| 37090              | 205 226   | 1460         | 1.61 | 134    | 90     | < 0.5  | 4      | 0.34 | 59.0   | 19     | 67     | 130    | 4.14 | < 10   | 1      | 1.06 | 10     | 0.20 | 1800   | 2      |
| 37091              | 205 226   | 630          | 1.35 | 126    | 70     | 0.5    | 16     | 0.32 | 65.5   | 18     | 58     | 169    | 3.38 | < 10   | < 1    | 0.88 | 10     | 0.11 | 1600   | 3      |
| 37092              | 205 226   | 665          | 1.27 | 202    | 70     | 0.5    | 14     | 0.32 | 83.0   | 22     | 72     | 154    | 3.32 | < 10   | < 1    | 0.79 | 10     | 0.10 | 2020   | 5      |
| 37093              | 205 226   | 950          | 1.12 | 386    | 70     | 0.5    | 20     | 0.28 | 54.0   | 32     | 62     | 241    | 3.93 | < 10   | < 1    | 0.70 | < 10   | 0.06 | 1665   | 2      |
| 37094              | 205 226   | 230          | 1.50 | 146    | 70     | 0.5    | < 2    | 0.36 | 34.5   | 19     | 74     | 156    | 3.80 | < 10   | < 1    | 0.97 | 10     | 0.14 | 2410   | 3      |
| 37095              | 205 226   | 500          | 1.47 | 154    | 70     | 0.5    | 6      | 0.37 | 67.0   | 17     | 58     | 104    | 3.38 | < 10   | 2      | 0.90 | 10     | 0.15 | 1980   | 2      |
| 37096              | 205 226   | 1170         | 0.89 | 154    | 60     | 0.5    | 18     | 0.24 | 20.5   | 28     | 56     | 212    | 4.19 | < 10   | < 1    | 0.58 | 10     | 0.03 | 1300   | 2      |
| 37097              | 205 226   | 600          | 1.37 | 84     | 90     | 0.5    | 4      | 0.27 | 77.5   | 12     | 71     | 128    | 3.32 | < 10   | < 1    | 0.87 | 10     | 0.13 | 1810   | 1      |

Massive Andesite

68.38  
 PbS + ZnS + wire Ag  
 + pyrobitumen

PO  
 ↑

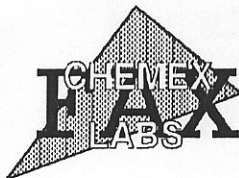
Transitional Breccia

PO → ZnS

Phreatic Breccia

1 1/2 PO minor ZnS  
 to 4  
 13/0

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3E8

Page Number 2-B  
 Total Pages 4  
 Certificate Date 23-DEC-94  
 Invoice No. I-9432760  
 P.O. Number :  
 Account :

Project :  
 Comments: CC: WARREN BATES

## CERTIFICATE OF ANALYSIS A9432760

| SAMPLE DESCRIPTION | PREP CODE | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Ag ppm | Aqua R |
|--------------------|-----------|------|--------|-------|--------|--------|--------|--------|------|--------|-------|-------|-------|--------|--------|--------|
| 37058              | 205 226   | 0.04 | 34     | 1600  | 62     | 8      | 6      | 26     | 0.22 | < 10   | < 10  | 75    | < 10  | 3210   | 0.7    |        |
| 37059              | 205 226   | 0.02 | 35     | 1540  | 116    | 8      | 6      | 15     | 0.20 | < 10   | < 10  | 71    | < 10  | 3100   | 1.1    |        |
| 37060              | 205 226   | 0.02 | 42     | 1530  | 260    | 8      | 4      | 17     | 0.19 | < 10   | < 10  | 62    | < 10  | 5700   | 2.7    |        |
| 37061              | 205 226   | 0.02 | 40     | 1550  | 144    | 8      | 4      | 20     | 0.19 | < 10   | < 10  | 57    | < 10  | 8970   | 2.1    |        |
| 37062              | 205 226   | 0.02 | 32     | 1520  | 214    | 6      | 5      | 19     | 0.21 | < 10   | < 10  | 67    | < 10  | 7690   | 2.8    |        |
| 37063              | 205 226   | 0.02 | 36     | 1570  | 312    | 6      | 6      | 21     | 0.24 | < 10   | < 10  | 72    | < 10  | 6030   | 3.2    |        |
| 37064              | 205 226   | 0.02 | 23     | 1610  | 176    | 2      | 6      | 20     | 0.22 | < 10   | < 10  | 74    | < 10  | 2030   | 1.3    |        |
| 37065              | 205 226   | 0.02 | 32     | 1570  | 954    | 4      | 6      | 20     | 0.27 | < 10   | < 10  | 77    | < 10  | 6450   | 6.4    |        |
| 37066              | 205 226   | 0.02 | 28     | 1620  | 770    | 8      | 4      | 28     | 0.25 | < 10   | < 10  | 60    | < 10  | 2660   | 5.0    |        |
| 37067              | 205 226   | 0.02 | 21     | 1600  | 32     | 6      | 4      | 40     | 0.23 | < 10   | < 10  | 58    | < 10  | 1110   | 0.4    |        |
| 37068              | 205 226   | 0.01 | 47     | 1710  | 112    | 6      | 4      | 29     | 0.16 | < 10   | < 10  | 56    | < 10  | 9160   | 1.3    |        |
| 37069              | 205 226   | 0.02 | 37     | 1610  | 864    | 8      | 4      | 22     | 0.19 | < 10   | < 10  | 67    | < 10  | 3450   | 4.3    |        |
| 37070              | 205 226   | 0.01 | 33     | 1730  | 542    | 6      | 3      | 24     | 0.19 | < 10   | < 10  | 55    | < 10  | 3300   | 3.0    |        |
| 37071              | 205 226   | 0.02 | 38     | 1670  | 416    | 12     | 4      | 23     | 0.23 | < 10   | < 10  | 58    | < 10  | 6860   | 3.2    |        |
| 37072              | 205 226   | 0.02 | 28     | 1560  | 150    | 4      | 6      | 18     | 0.26 | < 10   | < 10  | 83    | < 10  | 2340   | 0.7    |        |
| 37073              | 205 226   | 0.07 | 29     | 1540  | 2190   | 4      | 10     | 36     | 0.23 | < 10   | 10    | 112   | < 10  | 1795   | 7.8    |        |
| 37074              | 205 226   | 0.10 | 27     | 1420  | 2480   | 4      | 11     | 47     | 0.22 | < 10   | 10    | 121   | < 10  | 1605   | 8.3    |        |
| 37075              | 205 226   | 0.24 | 26     | 1370  | 6280   | 8      | 12     | 101    | 0.21 | < 10   | 10    | 123   | < 10  | 3380   | 21.0   |        |
| 37076              | 205 226   | 0.19 | 28     | 1390  | 2930   | 8      | 12     | 79     | 0.24 | < 10   | 10    | 126   | < 10  | 3690   | 10.0   |        |
| 37077              | 205 226   | 0.02 | 31     | 1510  | 144    | 2      | 8      | 14     | 0.26 | < 10   | < 10  | 94    | < 10  | 3950   | 1.1    |        |
| 37078              | 205 226   | 0.01 | 29     | 1470  | 70     | 4      | 5      | 25     | 0.22 | < 10   | < 10  | 69    | < 10  | 9160   | 1.0    |        |
| 37079              | 205 226   | 0.01 | 31     | 1640  | 34     | 6      | 4      | 30     | 0.22 | < 10   | < 10  | 59    | < 10  | 4320   | 0.5    |        |
| 37080              | 205 226   | 0.02 | 33     | 1490  | 192    | 6      | 5      | 24     | 0.22 | < 10   | < 10  | 64    | < 10  | 3980   | 2.1    |        |
| 37081              | 205 226   | 0.01 | 25     | 1370  | 212    | 4      | 4      | 23     | 0.19 | < 10   | < 10  | 59    | < 10  | 3890   | 2.2    |        |
| 37082              | 205 226   | 0.01 | 25     | 1190  | 444    | 4      | 3      | 24     | 0.13 | < 10   | < 10  | 35    | < 10  | >10000 | 4.6    |        |
| 37083              | 205 226   | 0.01 | 26     | 1360  | 578    | 8      | 3      | 26     | 0.13 | < 10   | < 10  | 31    | < 10  | 6340   | 6.6    |        |
| 37084              | 205 226   | 0.01 | 21     | 1270  | 544    | 10     | 3      | 21     | 0.15 | < 10   | < 10  | 40    | < 10  | 7760   | 7.2    |        |
| 37085              | 205 226   | 0.01 | 25     | 1380  | 220    | 6      | 3      | 21     | 0.18 | < 10   | < 10  | 47    | < 10  | 4610   | 3.4    |        |
| 37086              | 205 226   | 0.01 | 26     | 1370  | 196    | 8      | 4      | 19     | 0.19 | < 10   | < 10  | 50    | < 10  | 2880   | 2.3    |        |
| 37087              | 205 226   | 0.01 | 42     | 1290  | 480    | 18     | 2      | 22     | 0.11 | < 10   | < 10  | 28    | < 10  | 6190   | 7.0    |        |
| 37088              | 205 226   | 0.01 | 40     | 1190  | 214    | 14     | 2      | 19     | 0.14 | < 10   | < 10  | 33    | < 10  | 7480   | 3.2    |        |
| 37089              | 205 226   | 0.01 | 33     | 1220  | 654    | 18     | 2      | 19     | 0.11 | < 10   | < 10  | 29    | < 10  | 5550   | 10.2   |        |
| 37090              | 205 226   | 0.01 | 23     | 1310  | 250    | 10     | 2      | 20     | 0.13 | < 10   | < 10  | 28    | < 10  | 8110   | 4.4    |        |
| 37091              | 205 226   | 0.01 | 39     | 1220  | 910    | 16     | 2      | 21     | 0.14 | < 10   | < 10  | 21    | < 10  | 9870   | 11.6   |        |
| 37092              | 205 226   | 0.01 | 26     | 1190  | 822    | 22     | 2      | 25     | 0.13 | < 10   | < 10  | 20    | < 10  | >10000 | 10.0   |        |
| 37093              | 205 226   | 0.01 | 28     | 1070  | 942    | 38     | 1      | 19     | 0.08 | < 10   | < 10  | 14    | < 10  | 8300   | 10.8   |        |
| 37094              | 205 226   | 0.01 | 35     | 1380  | 306    | 24     | 2      | 23     | 0.14 | < 10   | < 10  | 24    | < 10  | 7040   | 4.2    |        |
| 37095              | 205 226   | 0.01 | 29     | 1420  | 352    | 22     | 2      | 22     | 0.13 | < 10   | < 10  | 25    | < 10  | >10000 | 4.6    |        |
| 37096              | 205 226   | 0.01 | 34     | 940   | 686    | 30     | 1      | 16     | 0.07 | < 10   | < 10  | 12    | < 10  | 4380   | 12.2   |        |
| 37097              | 205 226   | 0.01 | 18     | 1040  | 292    | 14     | 2      | 18     | 0.11 | < 10   | < 10  | 20    | < 10  | >10000 | 4.8    |        |

Massive Andesite

68.58  
 Pb+Zn Sr wire Ag + pyrobitumen

PO 9

Transitional Breccia  
 Pb > Zn

Phreatic Breccia

1% PO minor ZnS

ONLY

12/23/94 1:47PM CHEMEX LABS VAX-FAX1

PAGE 005

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3E8

Page Number 3-A  
 Total Pages 4  
 Certificate Date 23-DEC-04  
 Invoice No. 1-P432760  
 P.O. Number :  
 Account :

Project :  
 Comments: CC: WARREN BATES

## CERTIFICATE OF ANALYSIS A9432760

| SAMPLE DESCRIPTION | PREP CODE | Au ppb<br>FA+AA | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K %  | La ppm | Mg % | Mn ppm | Mo ppm |
|--------------------|-----------|-----------------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|--------|
| 37098              | 205 226   | 230             | 1.51 | 74     | 90     | < 0.5  | 4      | 0.25 | 61.0   | 10     | 51     | 86     | 4.16 | < 10   | < 1    | 0.89 | < 10   | 0.23 | 2130   | 3      |
| 37099              | 205 226   | 45              | 2.81 | 128    | 180    | < 0.5  | 12     | 0.39 | 40.5   | 17     | 61     | 67     | 5.80 | < 10   | < 1    | 1.71 | 10     | 0.39 | 3940   | 2      |
| 37100              | 205 226   | 10              | 3.20 | 8      | 240    | < 0.5  | < 2    | 0.43 | 2.5    | 13     | 64     | 37     | 5.95 | < 10   | < 1    | 2.07 | 10     | 0.41 | 4430   | < 1    |
| 37101              | 205 226   | 15              | 3.08 | 22     | 210    | < 0.5  | 2      | 0.41 | 25.5   | 15     | 59     | 57     | 6.09 | < 10   | < 1    | 1.86 | 10     | 0.43 | 4460   | < 1    |
| 37102              | 205 226   | < 5             | 2.81 | 20     | 180    | < 0.5  | < 2    | 0.41 | 7.5    | 19     | 54     | 96     | 5.49 | < 10   | < 1    | 1.69 | 10     | 0.51 | 3590   | 1      |
| 37103              | 205 226   | 35              | 2.68 | 40     | 160    | < 0.5  | < 2    | 0.40 | 41.0   | 16     | 46     | 90     | 5.85 | < 10   | < 1    | 1.62 | 10     | 0.48 | 4260   | 1      |
| 37104              | 205 226   | 1630            | 0.88 | 104    | 60     | 0.5    | 6      | 0.20 | 36.5   | 15     | 28     | 190    | 3.23 | < 10   | < 1    | 0.53 | 10     | 0.04 | 2300   | 3      |
| 37105              | 205 226   | 200             | 2.24 | 62     | 120    | < 0.5  | 4      | 0.28 | 31.5   | 12     | 38     | 69     | 5.06 | < 10   | < 1    | 1.43 | < 10   | 0.38 | 3830   | 1      |
| 37106              | 205 226   | 45              | 2.96 | 36     | 180    | < 0.5  | < 2    | 0.36 | 23.0   | 11     | 43     | 21     | 5.93 | < 10   | < 1    | 1.98 | < 10   | 0.51 | 4400   | 1      |
| 37107              | 205 226   | 110             | 2.38 | 52     | 130    | < 0.5  | < 2    | 0.40 | 44.0   | 14     | 35     | 53     | 5.68 | < 10   | < 1    | 1.52 | 10     | 0.43 | 4350   | 1      |
| 37108              | 205 226   | 1420            | 0.62 | 80     | 40     | < 0.5  | 8      | 0.13 | 12.5   | 14     | 20     | 97     | 2.52 | < 10   | < 1    | 0.41 | < 10   | 0.03 | 1725   | 5      |
| 37109              | 205 226   | 565             | 0.34 | 108    | 40     | < 0.5  | 16     | 0.04 | 46.0   | 8      | 25     | 53     | 1.60 | < 10   | < 1    | 0.23 | < 10   | 0.01 | 1650   | 2      |
| 37110              | 205 226   | 3440            | 0.60 | 48     | 60     | < 0.5  | 22     | 0.02 | 53.0   | 8      | 43     | 126    | 2.04 | < 10   | < 1    | 0.36 | < 10   | 0.01 | 1290   | 3      |
| 37111              | 205 226   | 880             | 0.61 | 32     | 40     | < 0.5  | 16     | 0.02 | 14.5   | 7      | 34     | 79     | 1.84 | < 10   | < 1    | 0.32 | < 10   | 0.03 | 1415   | 1      |
| 37112              | 205 226   | 710             | 0.62 | 24     | 50     | < 0.5  | 12     | 0.02 | 41.5   | 6      | 55     | 79     | 1.14 | < 10   | < 1    | 0.35 | < 10   | 0.02 | 510    | 2      |
| 37113              | 205 226   | 320             | 0.60 | 18     | 30     | < 0.5  | 4      | 0.02 | 40.5   | 6      | 44     | 117    | 1.51 | < 10   | < 1    | 0.36 | < 10   | 0.01 | 430    | 4      |
| 37114              | 205 226   | 600             | 0.53 | 40     | 20     | < 0.5  | 6      | 0.01 | 29.5   | 6      | 54     | 153    | 1.79 | < 10   | < 1    | 0.33 | < 10   | 0.01 | 370    | 1      |
| 37115              | 205 226   | 595             | 0.53 | 20     | 30     | < 0.5  | 2      | 0.01 | 76.5   | 3      | 45     | 67     | 1.05 | < 10   | < 1    | 0.35 | < 10   | 0.01 | 295    | 9      |
| 37116              | 205 226   | 535             | 0.53 | 32     | 30     | < 0.5  | 8      | 0.01 | 67.0   | 4      | 57     | 64     | 1.13 | < 10   | < 1    | 0.33 | < 10   | 0.01 | 255    | 2      |
| 37117              | 205 226   | 620             | 0.51 | 488    | 20     | < 0.5  | 18     | 0.04 | 21.5   | 8      | 48     | 124    | 1.56 | < 10   | < 1    | 0.32 | < 10   | 0.01 | 170    | 2      |
| 37118              | 205 226   | 1350            | 0.76 | 194    | 30     | 0.5    | 10     | 0.18 | 63.0   | 12     | 54     | 109    | 3.22 | < 10   | < 1    | 0.47 | < 10   | 0.03 | 415    | 3      |
| 37119              | 205 226   | 555             | 0.70 | 220    | 20     | 0.5    | 4      | 0.22 | 44.0   | 10     | 43     | 131    | 4.12 | < 10   | < 1    | 0.43 | < 10   | 0.04 | 2010   | 3      |
| 37120              | 205 226   | 100             | 0.48 | 62     | 30     | < 0.5  | 6      | 0.03 | 29.0   | 2      | 61     | 62     | 1.40 | < 10   | < 1    | 0.32 | < 10   | 0.01 | 595    | 2      |
| 37121              | 205 226   | 235             | 0.45 | 130    | 20     | < 0.5  | 2      | 0.02 | 40.5   | 2      | 50     | 48     | 1.15 | < 10   | < 1    | 0.32 | < 10   | 0.01 | 485    | 2      |
| 37122              | 205 226   | 710             | 0.56 | 18     | 20     | < 0.5  | 2      | 0.02 | 57.5   | 2      | 65     | 68     | 1.18 | < 10   | < 1    | 0.37 | < 10   | 0.01 | 475    | 2      |
| 37123              | 205 226   | 100             | 0.35 | 36     | 10     | < 0.5  | 4      | 0.02 | 36.0   | 2      | 45     | 54     | 1.17 | < 10   | < 1    | 0.24 | < 10   | 0.01 | 545    | 1      |
| 37124              | 205 226   | 100             | 0.46 | 66     | 20     | < 0.5  | 2      | 0.01 | 38.0   | 1      | 61     | 41     | 0.83 | < 10   | < 1    | 0.33 | < 10   | 0.01 | 250    | 1      |
| 37125              | 205 226   | 245             | 0.31 | 20     | 10     | < 0.5  | < 2    | 0.01 | 53.5   | 1      | 52     | 38     | 0.57 | < 10   | < 1    | 0.22 | < 10   | 0.01 | 250    | 1      |
| 37126              | 205 226   | 225             | 0.50 | 38     | 20     | < 0.5  | 2      | 0.01 | 33.5   | 2      | 59     | 56     | 1.12 | < 10   | < 1    | 0.32 | 10     | 0.01 | 565    | 2      |
| 37127              | 205 226   | 80              | 0.51 | 24     | 20     | < 0.5  | 2      | 0.01 | 21.5   | 1      | 55     | 62     | 0.87 | < 10   | < 1    | 0.31 | 10     | 0.01 | 170    | 3      |
| 37128              | 205 226   | 265             | 0.50 | 12     | 20     | < 0.5  | 2      | 0.01 | 39.0   | 1      | 61     | 53     | 0.81 | < 10   | < 1    | 0.29 | < 10   | 0.01 | 85     | 10     |
| 37129              | 205 226   | 70              | 0.38 | 30     | 20     | < 0.5  | 4      | 0.01 | 19.5   | 1      | 52     | 46     | 0.92 | < 10   | < 1    | 0.25 | < 10   | 0.01 | 350    | 19     |
| 37130              | 205 226   | 200             | 0.43 | 40     | 20     | < 0.5  | 2      | 0.02 | 44.0   | 1      | 59     | 42     | 0.91 | < 10   | < 1    | 0.28 | < 10   | 0.01 | 305    | 43     |
| 37131              | 205 226   | 275             | 0.38 | 80     | 10     | < 0.5  | 6      | 0.02 | 21.5   | 2      | 41     | 70     | 1.68 | < 10   | < 1    | 0.18 | < 10   | 0.03 | 390    | 9      |
| 37132              | 205 226   | 255             | 0.52 | 92     | 20     | 0.5    | 10     | 0.08 | 44.5   | 6      | 53     | 85     | 2.06 | < 10   | < 1    | 0.31 | < 10   | 0.01 | 720    | 6      |
| 37133              | 205 226   | 185             | 0.37 | 188    | 10     | 0.5    | 4      | 0.04 | 36.5   | 3      | 26     | 85     | 1.76 | < 10   | < 1    | 0.17 | < 10   | 0.03 | 640    | 16     |
| 37134              | 205 226   | 200             | 0.63 | 318    | 20     | 0.5    | 4      | 0.01 | 7.0    | 11     | 57     | 94     | 3.05 | < 10   | < 1    | 0.32 | < 10   | 0.02 | 255    | 84     |
| 37135              | 205 226   | 375             | 0.55 | 90     | 20     | < 0.5  | 8      | 0.01 | 16.0   | 3      | 59     | 57     | 1.31 | < 10   | < 1    | 0.34 | < 10   | 0.01 | 130    | 6      |
| 37136              | 205 226   | 150             | 0.50 | 38     | 20     | < 0.5  | 2      | 0.01 | 24.0   | 1      | 63     | 28     | 1.11 | < 10   | < 1    | 0.34 | 10     | 0.01 | 235    | 1      |
| 37137              | 205 226   | 105             | 0.41 | 46     | 20     | < 0.5  | 2      | 0.02 | 26.5   | 1      | 51     | 25     | 1.06 | < 10   | < 1    | 0.29 | 10     | 0.01 | 455    | 1      |

11ssom  
 po = 2-10%

ANDESITE

19% po  
 PHREATIC  
 BX

Change in  
 rock type?  
 5 to 10 zns

RHYOLITE  
 Zns -> 70%

133.6  
 Zns, po,  
 py, pbs

PHREATIC  
 BX

RHY.

+Zns, pbs, po

CERTIFICATION: \_\_\_\_\_

12/23/94 1:49PM CHEMEX LABS VAX-FA11 PAGE 006





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3E8

Page Number 3-B  
 Total Pages 4  
 Certificate Date 23-DEC-94  
 Invoice No. I-9432760  
 P.O. Number :  
 Account :

Project :  
 Comments: CC: WARREN BATES

## CERTIFICATE OF ANALYSIS A9432760

| SAMPLE DESCRIPTION | PREP CODE | Na %   | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti %   | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Ag ppm | ppm Aqua R |
|--------------------|-----------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|------------|
| 37098              | 205 226   | < 0.01 | 16     | 1040  | 292    | 14     | 1      | 16     | 0.12   | < 10   | < 10  | 21    | 40    | 7300   |        | 4.6        |
| 37099              | 205 226   | 0.01   | 22     | 1510  | 742    | 16     | 3      | 18     | 0.19   | < 10   | < 10  | 57    | 20    | 5530   |        | 9.5        |
| 37100              | 205 226   | 0.01   | 19     | 1680  | 102    | 12     | 4      | 16     | 0.24   | < 10   | < 10  | 70    | < 10  | 760    |        | 1.3        |
| 37101              | 205 226   | 0.01   | 25     | 1640  | 438    | 16     | 3      | 17     | 0.21   | < 10   | < 10  | 67    | 10    | 3910   |        | 4.9        |
| 37102              | 205 226   | 0.01   | 34     | 1660  | 694    | 18     | 3      | 19     | 0.18   | < 10   | < 10  | 58    | < 10  | 2350   |        | 7.5        |
| 37103              | 205 226   | < 0.01 | 30     | 1620  | 180    | 18     | 3      | 17     | 0.17   | < 10   | < 10  | 55    | 30    | 5910   |        | 1.7        |
| 37104              | 205 226   | 0.01   | 18     | 760   | 200    | 32     | < 1    | 17     | 0.01   | < 10   | < 10  | 8     | 20    | 5570   |        | 3.6        |
| 37105              | 205 226   | < 0.01 | 18     | 1160  | 84     | 26     | 2      | 22     | 0.12   | < 10   | < 10  | 39    | 20    | 4240   |        | 1.4        |
| 37106              | 205 226   | < 0.01 | 21     | 1440  | 8      | 14     | 3      | 26     | 0.18   | < 10   | < 10  | 51    | 10    | 3080   |        | 0.2        |
| 37107              | 205 226   | < 0.01 | 25     | 1620  | 24     | 16     | 2      | 35     | 0.14   | < 10   | < 10  | 44    | 30    | 5880   |        | 0.5        |
| 37108              | 205 226   | < 0.01 | 15     | 510   | 528    | 30     | < 1    | 17     | < 0.01 | < 10   | < 10  | 5     | < 10  | 2200   |        | 7.5        |
| 37109              | 205 226   | < 0.01 | 6      | 150   | 852    | 46     | < 1    | 7      | < 0.01 | < 10   | < 10  | 1     | 30    | 6820   |        | 9.5        |
| 37110              | 205 226   | < 0.01 | 6      | 100   | 964    | 50     | < 1    | 6      | < 0.01 | < 10   | < 10  | 1     | 50    | 8300   |        | 13.2       |
| 37111              | 205 226   | < 0.01 | 4      | 110   | 952    | 36     | < 1    | 7      | < 0.01 | < 10   | < 10  | < 1   | 20    | 4730   |        | 10.7       |
| 37112              | 205 226   | < 0.01 | 4      | 90    | 816    | 28     | < 1    | 9      | < 0.01 | < 10   | < 10  | < 1   | 30    | 7290   |        | 9.6        |
| 37113              | 205 226   | < 0.01 | 4      | 90    | 358    | 14     | < 1    | 8      | < 0.01 | < 10   | < 10  | 1     | 30    | 5970   |        | 4.8        |
| 37114              | 205 226   | < 0.01 | 3      | 70    | 396    | 18     | < 1    | 6      | < 0.01 | < 10   | < 10  | < 1   | 20    | 4890   |        | 5.1        |
| 37115              | 205 226   | < 0.01 | 3      | 70    | 158    | 8      | < 1    | 4      | < 0.01 | < 10   | < 10  | < 1   | 60    | 9310   |        | 3.0        |
| 37116              | 205 226   | < 0.01 | 3      | 90    | 450    | 16     | < 1    | 7      | < 0.01 | < 10   | < 10  | < 1   | 60    | 8230   |        | 5.8        |
| 37117              | 205 226   | < 0.01 | 8      | 200   | 928    | 30     | < 1    | 13     | < 0.01 | < 10   | < 10  | 2     | 20    | 4810   |        | 13.0       |
| 37118              | 205 226   | < 0.01 | 23     | 850   | 498    | 32     | < 1    | 37     | 0.01   | < 10   | < 10  | 7     | 80    | 10000  |        | 6.5        |
| 37119              | 205 226   | < 0.01 | 19     | 920   | 270    | 16     | < 1    | 44     | < 0.01 | < 10   | < 10  | 8     | 30    | 7290   |        | 4.2        |
| 37120              | 205 226   | < 0.01 | 4      | 150   | 484    | 18     | < 1    | 11     | < 0.01 | < 10   | < 10  | 1     | 10    | 4350   |        | 6.0        |
| 37121              | 205 226   | < 0.01 | 2      | 140   | 196    | 12     | < 1    | 11     | < 0.01 | < 10   | < 10  | < 1   | 20    | 5760   |        | 2.6        |
| 37122              | 205 226   | < 0.01 | 2      | 130   | 190    | 8      | < 1    | 14     | < 0.01 | < 10   | < 10  | < 1   | 40    | 7570   |        | 4.6        |
| 37123              | 205 226   | < 0.01 | 1      | 110   | 278    | 10     | < 1    | 14     | < 0.01 | < 10   | < 10  | < 1   | 20    | 5170   |        | 5.0        |
| 37124              | 205 226   | < 0.01 | < 1    | 60    | 112    | 6      | < 1    | 7      | < 0.01 | < 10   | < 10  | < 1   | 20    | 4960   |        | 2.3        |
| 37125              | 205 226   | < 0.01 | 1      | 60    | 82     | 6      | < 1    | 6      | < 0.01 | < 10   | < 10  | < 1   | 30    | 6650   |        | 2.1        |
| 37126              | 205 226   | < 0.01 | 3      | 70    | 122    | 12     | < 1    | 8      | < 0.01 | < 10   | < 10  | < 1   | 20    | 4880   |        | 3.2        |
| 37127              | 205 226   | < 0.01 | 4      | 70    | 142    | 6      | < 1    | 6      | < 0.01 | < 10   | < 10  | < 1   | 10    | 3510   |        | 4.6        |
| 37128              | 205 226   | < 0.01 | 3      | 70    | 126    | 8      | < 1    | 4      | < 0.01 | < 10   | < 10  | < 1   | 20    | 5370   |        | 4.9        |
| 37129              | 205 226   | < 0.01 | 4      | 70    | 254    | 16     | < 1    | 7      | < 0.01 | < 10   | < 10  | < 1   | 10    | 3280   |        | 6.7        |
| 37130              | 205 226   | < 0.01 | 6      | 100   | 172    | 6      | < 1    | 9      | < 0.01 | < 10   | < 10  | < 1   | 30    | 6090   |        | 5.6        |
| 37131              | 205 226   | < 0.01 | 7      | 90    | 372    | 16     | < 1    | 8      | < 0.01 | < 10   | < 10  | < 1   | 20    | 4880   |        | 13.4       |
| 37132              | 205 226   | < 0.01 | 12     | 350   | 740    | 14     | < 1    | 26     | < 0.01 | < 10   | < 10  | 3     | 40    | 6850   |        | 18.0       |
| 37133              | 205 226   | < 0.01 | 7      | 210   | 1510   | 42     | < 1    | 15     | < 0.01 | < 10   | < 10  | 1     | 20    | 5200   |        | 46.0       |
| 37134              | 205 226   | < 0.01 | 7      | 80    | 396    | 18     | < 1    | 8      | < 0.01 | < 10   | < 10  | 1     | < 10  | 2320   |        | 14.2       |
| 37135              | 205 226   | < 0.01 | 4      | 70    | 314    | 12     | < 1    | 6      | < 0.01 | < 10   | < 10  | < 1   | 20    | 4090   |        | 12.0       |
| 37136              | 205 226   | < 0.01 | 3      | 80    | 158    | 8      | < 1    | 8      | < 0.01 | < 10   | < 10  | < 1   | 10    | 3830   |        | 4.5        |
| 37137              | 205 226   | < 0.01 | 2      | 100   | 174    | 10     | < 1    | 9      | < 0.01 | < 10   | < 10  | < 1   | 10    | 3810   |        | 4.2        |

dissem po 2-1070  
 ANDESITE  
 1/2 po PHREATIC BX, ADDS  
 Change in rock type?  
 5-10% ZnS  
 RHYOLITE  
 ZnS → po  
 PHREATIC BX,  
 137.6 po, ZnS, PbS  
 RHY.  
 + ZnS, PbS, po

ONLY

CERTIFICATION: \_\_\_\_\_

12/23/94 1:50PM CHEMEX LABS VAX-FAX1 PAGE 007



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3E8

Page Number 4-A  
 Total Pages 4  
 Certificate Date 23-DEC-94  
 Invoice No. I-B432760  
 P.O. Number :  
 Account :

Project :  
 Comments: CC: WARREN BATES

## CERTIFICATE OF ANALYSIS A9432760

| SAMPLE DESCRIPTION                                | PREP CODE | Au ppb<br>FA+AA | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K %  | La ppm | Mg %   | Mn ppm | Mo ppm |
|---|-----------|-----------------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|--------|--------|--------|
| R77Y<br>37138<br>37139<br>37140<br>37141<br>37142 | 205 226   | 45              | 0.28 | 40     | 20     | < 0.5  | 2      | 0.03 | 18.0   | 2      | 40     | 35     | 0.88 | < 10   | < 1    | 0.21 | 10     | < 0.01 | 380    | 1      |
|   | 205 226   | 490             | 0.50 | 108    | 30     | < 0.5  | 8      | 0.03 | 20.0   | 3      | 56     | 75     | 1.43 | < 10   | < 1    | 0.34 | 10     | 0.01   | 465    | 2      |
|   | 205 226   | 225             | 0.33 | 44     | 20     | < 0.5  | 6      | 0.02 | 19.5   | 3      | 39     | 50     | 1.15 | < 10   | < 1    | 0.22 | 10     | < 0.01 | 470    | 1      |
|   | 205 226   | 2810            | 0.46 | 86     | 30     | < 0.5  | 8      | 0.02 | 22.0   | 4      | 54     | 41     | 1.30 | < 10   | < 1    | 0.31 | 10     | < 0.01 | 540    | 4      |
|   | 205 226   | 1100            | 0.46 | 142    | 30     | < 0.5  | 6      | 0.14 | 49.5   | 9      | 47     | 57     | 2.50 | < 10   | < 1    | 0.32 | < 10   | 0.01   | 1570   | 8      |
| BX,<br>37143<br>37144<br>37145<br>37146<br>37147  | 205 226   | 155             | 0.61 | 174    | 30     | < 0.5  | < 2    | 0.20 | 64.0   | 11     | 37     | 68     | 3.17 | < 10   | < 1    | 0.35 | 10     | 0.03   | 2030   | 7      |
|   | 205 226   | 250             | 0.55 | 314    | 30     | < 0.5  | 2      | 0.14 | 51.5   | 10     | 34     | 50     | 2.19 | < 10   | < 1    | 0.32 | 10     | 0.03   | 1310   | 64     |
|   | 205 226   | 235             | 0.70 | 454    | 30     | < 0.5  | < 2    | 0.20 | 52.5   | 12     | 32     | 83     | 4.09 | < 10   | < 1    | 0.37 | 10     | 0.04   | 3940   | 2      |
|   | 205 226   | 660             | 0.86 | 472    | 30     | < 0.5  | < 2    | 0.22 | 39.5   | 16     | 26     | 101    | 4.89 | < 10   | < 1    | 0.38 | 10     | 0.09   | 3210   | 3      |
|   | 205 226   | 445             | 1.21 | 172    | 50     | 1.0    | < 2    | 0.25 | 32.0   | 9      | 19     | 88     | 3.47 | < 10   | < 1    | 0.44 | 10     | 0.09   | 1890   | 3      |
| R77Y<br>37148<br>37149<br>37150<br>37151<br>37152 | 205 226   | 345             | 0.27 | 360    | 10     | < 0.5  | 14     | 0.01 | 1.5    | 7      | 15     | 31     | 0.65 | < 10   | < 1    | 0.19 | 20     | < 0.01 | 145    | 1      |
|   | 205 226   | 4810            | 0.54 | 302    | 20     | < 0.5  | 4      | 0.03 | 37.5   | 5      | 23     | 54     | 1.04 | < 10   | < 1    | 0.32 | < 10   | 0.01   | 585    | 4      |
|   | 205 226   | 1180            | 0.34 | 100    | 10     | < 0.5  | 4      | 0.03 | 39.0   | 3      | 28     | 180    | 1.56 | < 10   | < 1    | 0.20 | < 10   | 0.02   | 240    | 10     |
|   | 205 226   | 1540            | 0.40 | 80     | 20     | < 0.5  | 8      | 0.02 | 58.0   | 3      | 54     | 241    | 0.78 | < 10   | 1      | 0.26 | 10     | 0.01   | 460    | 9      |
|   | 205 226   | 1760            | 0.29 | 110    | 10     | < 0.5  | 12     | 0.01 | 66.0   | 5      | 36     | 351    | 1.42 | < 10   | 1      | 0.18 | < 10   | < 0.01 | 245    | 8      |
| Change minor Zn's in rock type?<br>371491         | 205 226   | 390             | 0.51 | 78     | 20     | < 0.5  | < 2    | 0.01 | < 0.5  | 3      | 35     | 29     | 0.55 | < 10   | < 1    | 0.32 | < 10   | < 0.01 | 135    | 2      |

PRELIMINARY

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221

To: GRANGES INC.

2230 - 885 W. GEORGIA ST.  
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Page Number 4-B  
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 Invoice No. I-9432760  
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 Account :

Project :  
 Comments: CC: WARREN BATES

## CERTIFICATE OF ANALYSIS A9432760

| SAMPLE DESCRIPTION                               | PREP CODE | Na %   | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti %   | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Ag ppm          |
|--|-----------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|-----------------|
| RHY<br>37133<br>37139<br>37140<br>37141<br>37142 | 205 226   | < 0.01 | 2      | 110   | 268    | 8      | < 1    | 11     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 3170   | 5.6             |
|  | 205 226   | < 0.01 | 4      | 120   | 484    | 8      | < 1    | 9      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 3990   | <del>11.8</del> |
|  | 205 226   | < 0.01 | 4      | 100   | 342    | 4      | < 1    | 8      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 3530   | 7.8             |
|  | 205 226   | < 0.01 | 4      | 100   | 416    | 8      | < 1    | 7      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 3890   | <del>10.4</del> |
|  | 205 226   | < 0.01 | 13     | 520   | 408    | 10     | < 1    | 18     | < 0.01 | < 10   | < 10  | 3     | < 10  | 7210   | 9.2             |
| BX<br>37143<br>37144<br>37145<br>37146<br>37147  | 205 226   | < 0.01 | 23     | 790   | 182    | 6      | < 1    | 25     | 0.01   | < 10   | < 10  | 6     | < 10  | 9080   | 4.6             |
|  | 205 226   | < 0.01 | 20     | 580   | 198    | 8      | < 1    | 23     | 0.01   | < 10   | < 10  | 4     | < 10  | 7240   | 4.4             |
|  | 205 226   | < 0.01 | 21     | 800   | 128    | 24     | 1      | 39     | 0.02   | < 10   | < 10  | 7     | < 10  | 7210   | 3.3             |
|  | 205 226   | < 0.01 | 20     | 890   | 106    | 20     | 1      | 33     | 0.03   | < 10   | < 10  | 9     | < 10  | 6010   | 3.2             |
|  | 205 226   | < 0.01 | 13     | 1370  | 118    | 16     | 1      | 46     | < 0.01 | < 10   | < 10  | 10    | < 10  | 6370   | 4.2             |
| RHY<br>37148<br>37149<br>37150<br>37151<br>37152 | 205 226   | < 0.01 | 14     | 50    | 88     | 30     | < 1    | 4      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 1350   | 8.7             |
|  | 205 226   | < 0.01 | 4      | 150   | 20     | 8      | < 1    | 15     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 5140   | 1.6             |
|  | 205 226   | < 0.01 | 2      | 130   | 122    | 16     | < 1    | 19     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 5150   | 5.5             |
|  | 205 226   | < 0.01 | 3      | 80    | 302    | 32     | < 1    | 21     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 7220   | 6.6             |
|  | 205 226   | < 0.01 | 2      | 60    | 308    | 18     | < 1    | 10     | < 0.01 | < 10   | < 10  | < 1   | < 10  | 8110   | 13.5            |
| 371491   | 205 226   | < 0.01 | 16     | 20    | 8      | 6      | < 1    | 5      | < 0.01 | < 10   | < 10  | < 1   | < 10  | 650    | 0.5             |

change in rock type?

minor Zn & Pb

PRELIMINARY ONLY

CERTIFICATION: \_\_\_\_\_

12/23/94 1:52PM CHEMEX LABS VAX-FAX1

PAGE 009



**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

ZONE:

Page 1-14

Property DAVIDSON Project No. 120 Depth 152.40 Date Began NOV 30, 1994  
 Hole No. DAV-94-37 Co ord. 10+00W Horizontal Length 107.76 Date Completed DEC 04, 1994  
 Claim No. PEM 9+25 S Core Size NQ II Drilled By J.T. THOMAS  
 Grid No. Angle & Grid Direction 335°-46° Elevation ~211.5 m Logged By V.P. VAN DAMME

| INTERVAL FEET / METRES | MAJOR GEOLOGICAL CODE | DESCRIPTION  | INTERVAL FEET / METRES   | MINOR GEOLOGICAL CODE |
|------------------------|-----------------------|--|--|-----------------------|
| 0-18.28                | CAS                   | OVERBURDEN / CASING  |  |                       |
| 18.28-43.47            | RHY                   | RHYOLITE - MASSIVE<br>- WKLY OXIDIZED ALONG FRACTURES<br>- MASSIVE - LT GY → GY BUFF<br>- FINE GRAINED 0.2-0.5 MM LOCALLY, GRADATIONALLY APHANITIC<br>- CORE SURFACE PITTED 1-2%. 1-2MM SUBANGULAR CAVITIES → PROBABLE DISSOLVED SULPHIDE  | 370251<br>HS, TMS<br>25.90   |                       |
|                        |                       | 18.28-24.92<br>- FINE 1MM WHITE SPHERULITES LOCALLY<br>- OC PRESERVED SX: PY=SL ASSOCIATED WITH SPHERULITES AND ALONG FRACTURE SURFACES AS PATCHY AGGREGATE FINE GRAINED MASSES<br>- SL IS RED BROWN   | 370371<br>WR, TMS<br>37.10   |                       |
|                        |                       | 24.92-26.22<br>- APPEARANCE OF BLACK HABERL - PROBABLE CHLORITE IN PATCHY DENDRITIC AND 1CM VEIN FORM USUALLY COLLOFORM + CA<br>- PY > SL OCCURS IN PROXIMITY ASSOC W/ WHITE SPHERULES AS BOTH CORE REPLACEMENTS AND REMNANTS  | 370571<br>WR, TMS<br>57.75   |                       |
|                        |                       | 26.22-43.47<br>- FAINT CORE AXIS PARALLEL FOLIATION LOCALLY PRESENT<br>- TRACE 0.5-1MM FELDSPARS PRESENT<br>FINAL METRE RAPID GRADATIONAL INCREASE IN SIZE OF WHITE SPHERULES AND FELDSPARS TO 7% (SPHERULES > FSP)<br><br>- LOWER CONTACT IN 1.0 METRE FAULT W/ MINOR GAPS AT 2.3° TO CORE AXIS BUZZY → OXIDIZED<br><br>FRACTURES AT 55° HAZELING OXIDIZED<br>5-10° BRITTLE RECLINATED<br>22° HAZELING OXIDIZED | 370791<br>WR, TMS<br>79.25<br><br>ACID TESTS<br>270'<br>53.5° MBAS<br>44.5° TRUE<br><br>500'<br>54° MBAS<br>45° TRUE |                       |

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

ZONE:

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Property **DAVIDSON** Project No. **120** Depth **152.40** Date Began **Nov/30/1994**  
 Hole No. **DAN-94-37** Coord. **10+00W** Horizontal Length **107.76** Date Completed **DEC/04/1994**  
 Claim No. **PEM** **9+25S** Core Size **NQ II** Drilled By **J.T. THOMAS**  
 Grid No. Angle & Grid Direction **335°/-46°** Elevation Logged By **V.P. VAN DAMME**

| INTERVAL FEET / METRES | MAJOR GEOLOGICAL CODE | DESCRIPTION   | INTERVAL FEET / METRES | MINOR GEOLOGICAL CODE |
|------------------------|-----------------------|---|------------------------|-----------------------|
| 18.28-43.47<br>(CONT)  | RHY                   | - RELATIVELY UNALTERED WK SILICIFICATION TOWARDS AND AT LOWER FAULT CONTACT<br>- AVG HDNESS 5.5<br>- BRECCIATED PARTIALLY HEALED 29.30-30.20<br>- GAUGE INTERVALS 37.77-38.17, 38.64 POINT GAUGE ~23°CA   |                        |                       |
| 43.47 81.42            | AND                   | ANDESITE MASSIVE<br>- FINE-MEDIUM GRAINED 0.5-1.5 MM DK GR MASSIVE<br>- BRECCIATED SUBANGULAR 1-3 CM FRAGMENTS IN PALER GRAY GINGER GRAINED ANDESITE Mtx<br>- FRAGMENTS STIPPLED -> NO ROTATION<br>- MINDR FINE GRAINED PYRITE AS BLOBS NEAR FRACTURES AND FRACTURE FILLINGS AT 26° AND 52° TO CA<br>- FRAGMENTS BECOME MORE RAPID DOWN HOLE<br>46.00-48.16<br>GAUGE INTERVAL 40% GAUGE AT 22-25°CA<br><br>48.16-81.42<br>PYRRHOTITE APPEARS AS U.FINE DISSEMINATIONS WITHIN DARKER FRAGMENTS 1/2-1Y, INCREASING DOWN HOLE TRACE SL AT END OF INTERVAL.<br><br>57.41 59.64 POINT GAUGE 64.64-67.06 GAUGE ZONE W/ SHARP CONTACTS AT 35°CA 71.04-72.0 40% GAUGE INTERVAL<br>- FRACTURES AT 32°, 10°, 60°<br><br>* 68.58 GALENA OBSERVED IN SPLITTING UNDER MICROSCOPE RED BROWN TRANSLUCENT SL, W/ SILVER, PYROBITUMEN, 68.58-72.0M | 370681<br>HS           |                       |

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

ZONE:

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Property DAVIDSON Project No. 120 Depth 152.40 Date Began NOV 30, 1994  
 Hole No. DAL 94-37 Co ord. 10+00W Horizontal Length 107.76 Date Completed DEC 04, 1994  
 Claim No. P6M 9+25S Core Size N&II Drilled By J.T. THOMAS  
 Grid No. \_\_\_\_\_ Angle & Grid Direction 335°/-46 Elevation \_\_\_\_\_ Logged By V.P. VAN DAMME

| INTERVAL<br>FEET / METRES | MAJOR<br>GEOLOGICAL<br>CODE | DESCRIPTION  | INTERVAL<br>FEET / METRES | MINOR<br>GEOLOGICAL<br>CODE |
|---------------------------|-----------------------------|--|---------------------------|-----------------------------|
| 81.42-91.90               |                             | <p>TRANSITIONAL BRECCIA</p> <ul style="list-style-type: none"> <li>- UNIT SOMEWHAT ARBITRARY - TRANSITIONAL BETWEEN MASSIVE ANDESITE AND PHREATIC BRECCIA</li> <li>- CONTACT DECIDED BY FIRST APPEARANCE OF FELSIC FRAGMENT</li> <li>- ANDESITE FRAGS 80-90% RHY 10-20% AND ANGULAR - SUBANGULAR 0.5-10 CM RHY ANGULAR 0.5-5 CM</li> <li>- FRAGS 30-40% MTX 60-70% COMPOSITION</li> <li>- AND AS IN PREVIOUS INTERVAL</li> <li>- RHYOLITE MASSIVE, Banded, CHGRY, UEL CHL ALT</li> <li>- MTX FINE GRAINED 0.5-2MM LIGHT GRAY-WHITE COMPRISED ENTIRELY OF MILLED FRAGS SILICEOUS → MOSTLY MILLED RHYOLITE</li> <li>- SX CONTENT 0.5-1% P<sub>0</sub> &gt; SL</li> <li>- P<sub>0</sub> OCCURS AS DISS BLEGBY PATCHES AND REPLACEMENT LAMINAE IN FRAGS - SL WITH P<sub>0</sub> BUT ALSO REMAINING FRAGS</li> <li>- RARE PYRITE VEINING AT 60° POST INVASIVE</li> <li>- FRACTURES AT 28°, 55°, 10° POINT GOLGE 60° AT 87M</li> <li>- GOLGE 10CM AT 87.17 AT 30° TO CA</li> <li>- LOWER CONTACT IN GOLGE</li> </ul> |                           |                             |
| 91.90-99.31               |                             | <p>PHREATIC BRECCIA</p> <ul style="list-style-type: none"> <li>- UPPER CONTACT IN GOLGE (20%) 91.74-91.90</li> <li>- 40-50% FRAGMENTS IN LIGHT-MED GRAY FINE GRAINED MTX</li> <li>- 60/40 AND /RHY → 40/60 AND /RHY DOWN INTERVAL</li> <li>- AND FRAGS 1-3CM SUBANGULAR</li> <li>- RHY FRAGS 0.5-1CM SUBANGULAR</li> <li>- AND FRAGS MASSIVE GOLI GRANULAR, RARE AMPHIBOLITE AND/OR FELDSPAR PORPHYRITIC ANDESITE</li> <li>- RHYOLITE; CHL ALT FLOW BANDED FRAGS AND MASSIVE WHITE TO CHL ALT</li> <li>- MTX HARD</li> <li>- 0.5-1% P<sub>0</sub> BLEGBS IN MAFICS; LOCALLY 15% SX (SL &gt; P<sub>0</sub>) IN RHY BAND REPLIC</li> <li>- MTX BARREN → TOTAL SX CONTENT 1-2%</li> <li>- MINOR PY VEINS AT 23°, 62°</li> <li>- LOWER CONTACT SHARP REGULAR AT 53°</li> </ul>   |                           |                             |

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

ZONE:

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Property **DAVIDSON** Project No. **120** Depth **152.40** Date Began **NOV 30, 1994**  
 Hole No. **DAV-94-37** Co ord. **10+00W** Horizontal Length **1077.6** Date Completed **DEC 04 1994**  
 Claim No. **PEM** **94255** Core Size **NQ II** Drilled By **J.T. THOMAS**  
 Grid No. Angle & Grid Direction **335°/-46°** Elevation Logged By **V.P. VAN DAMME**

| INTERVAL FEET / METRES | MAJOR GEOLOGICAL CODE | DESCRIPTION   | INTERVAL FEET / METRES    | MINOR GEOLOGICAL CODE |
|------------------------|-----------------------|---|---------------------------|-----------------------|
| 99.31-104.24           | AND                   | <p><b>ANDESITE MASSIVE</b></p> <ul style="list-style-type: none"> <li>- DK GRAY FINE GRAINED 0.5-10MM - BRECCIATED</li> <li>- ANGULAR FRAGS IN LIGHTER GY-MTX - INTEGRAL CONTACTS AT 55°</li> <li>- FRAGMENTS CONTAIN DISSEMINATED P<sub>6</sub> UP TO 10% GENERALLY 3-5% AVERAGE 1-2% FOR INTERVAL</li> <li>- SOME SL BUT P<sub>6</sub> &gt; SL</li> <li>- LOWER CONTACT AT 30° CA GRADATIONAL OVER 20CM</li> <li>- INTERVAL HAS FRAGMENTS BECOMING MORE RAFTED DOWN HOLE</li> </ul>                 | 371061<br>WE THS<br>10680 |                       |
| 104.24-105.46          | BX                    | <p><b>PHREATIC BRECCIA</b></p> <ul style="list-style-type: none"> <li>- 70% RHY 30% AND FRAGS / 70% MTX 30% FRAGS</li> <li>- AND FRAGS SUBROUNDED - RHY FRAGS SUBANGULAR</li> <li>- AND FRAGS UNALT NO MIN - RHY FRAGS CHL ALT (DEEP SEA CR)</li> <li>- NO MIN IN RHY</li> <li>- LOWER CONTACT SHARP W/RY AT 55° CA</li> </ul>  |                           |                       |
| 105.46-108.00          | AND                   | <p><b>ANDESITE MASSIVE</b></p> <ul style="list-style-type: none"> <li>- DK GY FINE-MEDIUM GRAINED 0.5-10MM BRECCIATED</li> <li>- LT GY 'MTX FINE GRAINED 30% FRAGS 70% MTX</li> <li>- AND FRAGS SUBANGULAR 0.5-5CM MTX SUPPORT CLAST CONTACT</li> <li>- 1-2% P<sub>6</sub> &gt; SL IN FRAGS AVERAGE FOR TOTAL ROCK 0.5%</li> <li>- MINOR PYRITE VEINLETS AT 58° CA</li> <li>- LOWER CONTACT BLOCKY IRREGULAR -&gt; POSSIBLE REAL STRAT CONTACT</li> </ul>   |                           |                       |
| 108.00-120.40          | BX                    | <p><b>PHREATIC BRECCIA</b></p> <ul style="list-style-type: none"> <li>- 70% FRAGMENTS AVERAGING 0.5-2CM OCCASIONAL 5-10CM ENTIRELY RHYOLITE FRAGS BELOW 111.14</li> <li>- AND FRAGS MX 5-7CM SUBROUNDED WT SMOOTH ALT RIMMED EDGES; ONE AND FRAG WITH FSP AMYGS (SL)</li> <li>- RHY FRAGS CHL ALT WITH SOME CLAY ALT FRAGS UP INTERVAL - MASSIVE OR FLOW BANNED</li> <li>- ABOVE 112.31 MINOR SL &gt; P<sub>6</sub> AS RHY BAND REPLACEMENTS</li> <li>- 108.24 CL AS BLEBBY CHLALT FR FILL</li> </ul> |                           |                       |

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

ZONE:

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Property **DAVIDSON** Project No. **120** Depth **152.40** Date Began **NOV 30, 1994**  
 Hole No. **DAV 94-37** Co ord. **10+00W** Horizontal Length **107.76** Date Completed **DEC 04, 1994**  
 Claim No. **PEM** **9+25S** Core Size **NQ II** Drilled By **J.T. THOMAS**  
 Grid No. \_\_\_\_\_ Angle & Grid Direction **335°/-46°** Elevation \_\_\_\_\_ Logged By **V.P. VAN DAMME**

| INTERVAL FEET / METRES  | MAJOR GEOLOGICAL CODE | DESCRIPTION  | INTERVAL FEET / METRES       | MINOR GEOLOGICAL CODE |
|-------------------------|-----------------------|--|------------------------------|-----------------------|
| 108.00-120.40<br>(CONT) |                       | 112.31-116.81 7-10% SX SL > Po AVERAGE FOR INTERVAL 5-7% SX<br>SL AS BLEBS AND BAND REPLACEMENTS ALWAYS IN<br>RHY FRAGS MINOR GL NOTED SPORADIC  |                              |                       |
|                         |                       | 116.81 10CM GULGE * ABOVE GULGE EXTD RHY INT INVASIVE BX<br>* BELOW GULGE TRUE PHREATIC BX?  | 37126                        | WR/THS                |
|                         |                       | 116.81-120.40 0.5-1% SX Po > SL  |                              |                       |
| 120.40-130.01           | RHY                   | RHYOLITE - MASSIVE FLOW BANDED<br>- LIGHT TO GREEN MASSIVE TO FAINTLY REGULAR BANDING<br>- CHLORITE OVERPRINTED BY SILICA<br>- BRECCIATED IN SITU SOME ROTATION OF SMALLER FRAGS<br>- MINOR UP TO 10% SERICITIZED FRAGS<br>- ANGULAR TO SUBANGULAR 0.5-40CM AVERAGE DCL 15-25 CM<br>- FLOW BANDING 23-26° CA AT 126M. 27° AT 124M<br>- RARE CRYPTIC BLK CHL 1MM VEINLETS 30°, 80° CA<br>- SL > Po AS BLEBBY REPLACEMENTS OF BANDS IN SMALLER FRAGS<br>IN FRAGMENT FRACTURES AND TO A LESSER EXTENT INTERSTITIALLY<br>- LOCALLY 5-7% SX AVERAGE OVER INTERVAL 1-2%<br>- POINT GULGE AND BROKEN CORE 127.50-129.30<br>- LOWER CONTACT DIFFUSE IRRREGULAR |                              |                       |
| 130.01-133.70           | BX                    | PHREATIC BRECCIA<br>- FINE-MEDIUM GRAINED 0.5-2MM MILLED MTX<br>- 0.5-2.0 CM RHY FRAGS IN LAST CONTACT MAFICS ABSENT<br>- MED GRAY-MAROON - MINOR DK GR CHL+PY FEL ON FR<br>AT 50, 75°<br>- LOWER CONTACT IN GULGE AT 50° CA<br>- 133.6 BLACK CHL, SL, GL, Po, Py 1CM VEIN AND 2MM VEINLETS<br>AT 75° AND 28° CA - ELSE SX 1/2% SL, Po   | 371331<br>HS<br>371341<br>MS |                       |
| 133.70-142.20           | RHY                   | RHYOLITE MASSIVE - FLOW BANDED<br>- AS DESCRIBED IN 108-120.40<br>- MINOR GULGE AND BROKEN CORE 133.7-134.3<br>- LOWER CONTACT DIFFUSE AT 65°<br>- SX VEIN 1CM AT 134.1 BLK CHL, SL, GL, Po<br>- FLOW BANDING 63° AT 138M  |                              |                       |

















GRANGES EXPLORATION LTD.

## DIAMOND DRILL LOG

11-14

PROPERTY BLACKWATER - WATKINSON

PROJECT NO. 120

HOLE NO. DAN-94-37

DEPTH. 152.40 CORE SIZE NO. II

| FROM  | TO     | INTERVAL | MEASURED | RECOVERY | >100mm | RQD  |
|-------|--------|----------|----------|----------|--------|------|
| 18.28 | 21.34  | 306      | 299      | 97.7%    | 246    | 80.4 |
|       | 24.38  | 304      | 277      | 91.1     | 279    | 91.8 |
|       | 27.43  | 305      | 305      | 100      | 274    | 89.8 |
|       | 30.48  | 305      | 305      | 100      | 256    | 83.9 |
|       | 33.53  | 305      | 286      | 93.8     | 172    | 56.4 |
|       | 36.58  | 305      | 300      | 98.4     | 278    | 91.1 |
|       | 39.62  | 305      | 305      | 100      | 206    | 67.5 |
|       | 42.67  | 305      | 305      | 100      | 126    | 41.3 |
|       | 45.72  | 305      | 274      | 89.8     | 125    | 41.0 |
|       | 47.85  | 213      | 185      | 86.9     | 78     | 36.6 |
|       | 49.07  | 122      | 121      | 99.2     | 57     | 46.7 |
|       | 50.29  | 122      | 122      | 100      | 83     | 68.0 |
|       | 51.82  | 153      | 153      | 100      | 147    | 96.1 |
|       | 53.34  | 152      | 137      | 90.1     | 107    | 70.4 |
|       | 55.47  | 213      | 213      | 100      | 169    | 79.3 |
|       | 57.61  | 214      | 175      | 81.8     | 66     | 30.8 |
|       | 59.74  | 213      | 205      | 96.2     | 170    | 79.8 |
|       | 61.26  | 152      | 152      | 100      | 115    | 75.7 |
|       | 64.01  | 275      | 266      | 96.7     | 242    | 88.0 |
|       | 67.06  | 305      | 280      | 91.8     | 20     | 6.6  |
|       | 68.58  | 152      | 79       | 52.0     | 15     | 9.9  |
|       | 71.02  | 244      | 232      | 95.1     | 145    | 59.4 |
|       | 72.84  | 182      | 147      | 80.8     | 96     | 52.7 |
|       | 75.44  | 260      | 259      | 99.6     | 189    | 72.7 |
|       | 77.72  | 228      | 223      | 97.8     | 130    | 57.0 |
|       | 79.25  | 153      | 113      | 73.9     | 68     | 44.4 |
|       | 82.30  | 305      | 289      | 94.8     | 246    | 80.7 |
|       | 85.04  | 274      | 274      | 100      | 245    | 89.4 |
|       | 85.65  | 61       | 45       | 73.8     | 34     | 55.7 |
|       | 87.17  | 152      | 152      | 100      | 125    | 82.2 |
|       | 88.39  | 122      | 119      | 97.4     | 35     | 28.7 |
|       | 90.22  | 193      | 79       | 40.9     | 31     | 16.1 |
|       | 91.74  | 152      | 139      | 91.4     | 127    | 83.6 |
|       | 94.49  | 275      | 144      | 52.4     | 56     | 20.4 |
|       | 97.54  | 305      | 272      | 89.2     | 175    | 57.4 |
|       | 100.58 | 304      | 297      | 97.7     | 280    | 92.1 |
|       | 103.63 | 305      | 253      | 83.0     | 204    | 66.9 |
|       | 105.16 | 153      | 144      | 94.1     | 82     | 53.6 |





GRANGES EXPLORATION LTD.

## DIAMOND DRILL LOG

13-14

PROPERTY BLACKWATER-DAVIDSON

PROJECT NO. 120

HOLE NO. DAV-94-37

DATE: NOV 30-DEC 04/94

LENGTH 152.40 m

CORE SIZE NO II

| FROM  | TO    | ROCK | MSU  | FROM  | TO     | ROCK    | MSU  | FROM   | TO     | ROCK   | MSU  |
|-------|-------|------|------|-------|--------|---------|------|--------|--------|--------|------|
| 18.28 | 21.34 | RHY  | 0.08 | 64.01 | 67.06  | "       | 0.40 | 100.58 | 103.63 | "      | 1.40 |
|       | 24.38 | "    | 0.06 |       | 68.58  | "       | 0.86 |        | 104.18 | "      | 1.35 |
|       | 27.43 | "    | 0.07 |       | 71.02  | "       | 0.74 |        | 105.42 | INT BX | 1.22 |
|       | 30.48 | "    | 0.07 |       | 72.84  | "       | 0.70 |        | 108.00 | AND    | 1.47 |
|       | 33.53 | "    | 0.05 |       | 75.44  | "       | 0.39 |        | 109.73 | INT BX | 0.88 |
|       | 36.58 | "    | 0.04 |       | 77.72  | "       | 0.95 |        | 111.78 | "      | 0.55 |
|       | 39.62 | "    | 0.05 |       | 79.25  | "       | 1.20 |        | 115.82 | "      | 1.12 |
|       | 42.67 | "    | 0.04 |       | 81.42  | "       | 1.29 |        | 118.57 | "      | 0.91 |
|       | 43.57 | "    | 0.09 | 81.42 | 82.30  | INT BX  | 1.05 |        | 120.40 | "      | 3.76 |
| 43.57 | 45.72 | AND  | 0.10 |       | 85.04  | (TRANS) | 1.31 |        | 124.66 | RHY    | 0.68 |
|       | 47.85 | "    | 0.61 |       | 85.65  | "       | 0.59 |        | 128.33 | "      | 0.64 |
|       | 49.07 | "    | 0.61 |       | 87.17  | "       | 0.42 |        | 130.45 | "      | 0.72 |
|       | 50.29 | "    | 0.56 |       | 88.39  | "       | 0.93 |        | 134.42 | INT BX | 0.97 |
|       | 51.82 | "    | 0.53 |       | 90.22  | "       | 1.26 |        | 137.16 | RHY    | 1.13 |
|       | 53.34 | "    | 0.51 |       | 91.74  | "       | 1.72 |        | 140.20 | "      | 0.60 |
|       | 55.47 | "    | 0.58 | 91.74 | 92.04  | INT BX  | 0.23 |        | 144.78 | INT BX | 1.25 |
|       | 57.61 | "    | 1.11 |       | 94.49  | "       | 0.98 |        | 149.96 | "      | 0.12 |
|       | 59.74 | "    | 0.65 |       | 97.54  | "       | 1.21 |        | 152.40 | RHY    | 0.10 |
|       | 61.26 | "    | 0.58 |       | 99.50  | "       | 2.01 |        | -EOH-  |        |      |
|       | 64.01 | "    | 0.65 | 99.50 | 100.58 | AND     | 1.28 |        |        |        |      |



GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG

14-14

PROPERTY BLACKWATER-DAVIDSON  
PROJECT NO 120  
HOLE NO DAY-94-37  
DATE NOV 30-DEC 04 1994

DEPTH 152.40  
CORE SIZE NQ II

| BOX # | FROM   | TO     | BOX # | FROM   | TO     | BOX # | FROM | TO  |
|-------|--------|--------|-------|--------|--------|-------|------|-----|
| 1     | 18.28  | 24.14  | 21    | 126.00 | 131.20 | 41    |      |     |
| 2     | 24.14  | 30.00  | 22    | 131.20 | 136.31 | 42    |      |     |
| 3     | 30.00  | 35.04  | 23    | 136.31 | 141.96 | 43    |      |     |
| 4     | 35.04  | 40.24  | 24    | 141.96 | 147.88 | 44    |      |     |
| 5     | 40.24  | 45.31  | 25    | 147.88 | 152.40 | 45    |      |     |
| 6     | 45.31  | 50.11  | 26    |        | -EOH-  | 46    |      |     |
| 7     | 50.11  | 54.86  | 27    |        |        | 47    |      |     |
| 8     | 54.86  | 59.80  | 28    |        |        | 48    |      |     |
| 9     | 59.80  | 65.12  | 29    |        |        | 49    |      |     |
| 10    | 65.12  | 71.00  | 30    |        |        | 50    |      |     |
| 11    | 71.00  | 76.08  | 31    |        |        | 51    |      |     |
| 12    | 76.08  | 81.42  | 32    |        |        | 52    |      |     |
| 13    | 81.42  | 86.50  | 33    |        |        | 53    |      |     |
| 14    | 86.50  | 94.13  | 34    |        |        | 54    |      |     |
| 15    | 94.13  | 99.00  | 35    |        |        | 55    |      |     |
| 16    | 99.00  | 105.00 | 36    |        |        | 56    |      |     |
| 17    | 105.00 | 110.30 | 37    |        |        | 57    |      |     |
| 18    | 110.30 | 115.43 | 38    |        |        | 58    |      |     |
| 19    | 115.43 | 120.31 | 39    |        |        | 59    |      |     |
| 20    | 120.31 | 126.00 | 40    |        |        | 60    |      |     |
|       |        |        |       |        |        |       |      | DDH |