

**Geology Department  
Month End Report - November 1992**

**Ore Production**

**Vangorda**

- High grade "undiluted" ore production was 438,787 tonnes grading 4.21% lead, 5.16% zinc. Low grade production was 106,000 tonnes at 4.63% lead plus zinc.
- 100% of the ore mined during November was baritic/pyritic massive sulphides (G1 ore type).
- 1080 bench was completed during the month. Bench height for the following bench was increased to 9m from 6m (1071 toe elevation) to increase mine productivity. Additional dilution appeared to be minimal in the thicker NW section of the ore horizon. Mining of the thinner SE portion started at the end of the month and dilution will be monitored closely.

**Grum**

- High grade "undiluted" ore production was 8,826 tonnes grading 2.38% lead, 4.72% zinc. Low grade production was 16,746 tonnes at 5.19% lead plus zinc.
- The ore mined came from the 1270 and 1264 benches, the first ore to be mined from the Grum deposit. This ore was stockpiled to be sent for testing in the mill on December 1. All ore mined is moderately weathered, G2 carbonaceous quartzite from the "Gnome's Cap" structure of the Grum orebody.

**Faro**

- Ore recovery from the AY zone on the NE pit wall started on November 2. High grade ore tonnage broken during the month was 260,000 tonnes grading 2.83% lead, 5.28% zinc. Approximately 250,000 tonnes of minable high grade ore remains in this zone. Tonnage and grade is slightly higher than expected.

**Mill Feed**

- Undiluted feed to the primary crusher was 431,000 tonnes at 3.77% lead and 4.79% zinc (combined 8.56%). 23,454 tonnes were trammed out of the coarse ore bin to stockpile.
- The metallurgical balance millfeed for the period was 409,038 tonnes grading 3.57% lead, 4.50% zinc (combined 8.07%).
- Average apparent mining dilution for lead is 5.6%, zinc is 6.4% and combined is 6.0%.

**Ore Blending**

Crusher feed by source:

- Vangorda massive sulphide (G1) - 355,570 tonnes.
- Faro AY zone massive sulphide - 44,470 tonnes.
- Faro low grade semi-massive pyritic sulphide from LL stockpile - 31,412

**CURRAGH INC.**  
**Faro Operations Geology Dept.**  
**MONTH END REPORT**  
**BLASTHOLE CALCULATED MILL FEED BY SOURCE**

Nov-92

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**PRIMARY CRUSHER FEED DURING PERIOD – Norlap and Curragh**

| SOURCE                        | RECONCILED     |             | UNDILUTED GRADES |             |             |     |        | Volume<br>bcm  | Density<br>t/bcm |
|-------------------------------|----------------|-------------|------------------|-------------|-------------|-----|--------|----------------|------------------|
|                               | TONNES         | %Pb+Zn      | %Pb              | %Zn         | %Fe         | %Cu | Au g/t |                |                  |
| NORLAP DIRECT GRUM G1         |                |             |                  |             |             |     |        |                |                  |
| NORLAP DIRECT GRUM G2         |                |             |                  |             |             |     |        |                |                  |
| NORLAP DIRECT GRUM LG         |                |             |                  |             |             |     |        |                |                  |
| NORLAP DIRECT VAN G1          | 193,110        | 9.05        | 4.10             | 4.95        | 23.5        |     |        | 49,771         | 3.88             |
| NORLAP DIRECT VAN G2          |                |             |                  |             |             |     |        |                |                  |
| NORLAP DIRECT VAN LG          |                |             |                  |             |             |     |        |                |                  |
| LOADER GRUM G1                |                |             |                  |             |             |     |        |                |                  |
| LOADER GRUM G2                |                |             |                  |             |             |     |        |                |                  |
| LOADER GRUM LG                |                |             |                  |             |             |     |        |                |                  |
| LOADER VAN G1                 | 162,460        | 9.05        | 4.10             | 4.95        | 23.5        |     |        | 41,871         | 3.88             |
| LOADER VAN G2                 |                |             |                  |             |             |     |        |                |                  |
| LOADER FARO LG                | 31,412         | 3.89        | 1.46             | 2.42        | 29.8        |     |        | 8,266          | 3.80             |
| LOADER CAP ROCK (#2 Pile)     |                |             |                  |             |             |     |        |                |                  |
| OTHER (specify) Faro Salvage  | 44,470         | 8.01        | 2.80             | 5.21        | 29.9        |     |        | 10,318         | 4.31             |
| <b>TOTAL PRIMARY FEED</b>     | <b>431,452</b> | <b>8.57</b> | <b>3.77</b>      | <b>4.79</b> | <b>24.6</b> |     |        | <b>110,226</b> | <b>3.91</b>      |
| <b>TOTAL NORLAP DIRECT</b>    | <b>193,110</b> | <b>9.05</b> | <b>4.10</b>      | <b>4.95</b> | <b>23.5</b> |     |        | <b>49,771</b>  | <b>3.88</b>      |
| <b>TOTAL FROM MILL STKPLS</b> | <b>238,342</b> | <b>8.18</b> | <b>3.51</b>      | <b>4.67</b> | <b>25.5</b> |     |        | <b>60,455</b>  | <b>3.94</b>      |
| TRAMMED OUT OF COARSE ORE BIN | 23,454         | 8.16        | 3.73             | 4.43        | 24.5        |     |        | 5,992          | 3.91             |
| TRAMMED IN TO COARSE ORE BIN  | 1,040          | 8.16        | 3.73             | 4.43        | 24.5        |     |        | 266            | 3.91             |
| <b>TOTAL FEED TO MILL</b>     | <b>409,038</b> | <b>8.59</b> | <b>3.78</b>      | <b>4.81</b> | <b>24.6</b> |     |        | <b>104,500</b> | <b>3.91</b>      |

**RECONCILIATIONS**

| MILL FEED SOURCE      | TONNES  | %Pb+Zn | %Pb  | %Zn  | %Fe  | %Cu | Au g/t | tonnes<br>Pb metal | tonnes<br>Zn metal |
|-----------------------|---------|--------|------|------|------|-----|--------|--------------------|--------------------|
| CALC'D ROD MILL FEED  | 409,038 | 8.59   | 3.78 | 4.81 | 24.6 |     |        | 15,447             | 19,685             |
| METALLURGICAL BALANCE | 409,038 | 8.07   | 3.57 | 4.50 | 24.0 |     |        | 14,603             | 18,407             |
| ROLLING FORECAST      | 420,000 | 8.00   | 3.52 | 4.48 | 25.0 |     |        | 14,784             | 18,816             |
| BUDGET PREDICTION     | 394,500 | 8.19   | 3.29 | 4.90 | 25.0 |     |        | 12,979             | 19,331             |

**DIFFERENCES (Shown as a percentage of the Calculated Rod Mill Feed)**

| MILL FEED SOURCE      | TONNES | Pb+Zn | Pb  | Zn   | Fe   | Cu | Au | tonnes<br>Pb metal | tonnes<br>Zn metal |
|-----------------------|--------|-------|-----|------|------|----|----|--------------------|--------------------|
| METALLURGICAL BALANCE | 100%   | 94%   | 95% | 94%  | 98%  |    |    | 95%                | 94%                |
| ROLLING FORECAST      | 103%   | 93%   | 93% | 93%  | 102% |    |    | 96%                | 96%                |
| BUDGET PREDICTION     | 96%    | 95%   | 87% | 102% | 102% |    |    | 84%                | 98%                |

**DIFFERENCES (Shown as a percentage of the Budgeted Rod Mill Feed)**

| MILL FEED SOURCE      | TONNES | Pb+Zn | Pb   | Zn  | Fe   | Cu | Au | tonnes<br>Pb metal | tonnes<br>Zn metal |
|-----------------------|--------|-------|------|-----|------|----|----|--------------------|--------------------|
| CALC'D ROD MILL FEED  | 104%   | 105%  | 115% | 98% | 98%  |    |    | 119%               | 102%               |
| METALLURGICAL BALANCE | 104%   | 99%   | 109% | 92% | 96%  |    |    | 113%               | 95%                |
| ROLLING FORECAST      | 106%   | 98%   | 107% | 91% | 100% |    |    | 114%               | 97%                |

**CURRAGH INC.**  
**Faro Operations Geology Dept.**  
**MONTH END REPORT**

**SUMMARY OF PIT ORE PRODUCTION – Blasthole Calculation Nov–92**

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| <b>HIGH GRADE<br/>PIT PRODUCTION +5%</b> |              | TONNES         | %Pb+Zn      | UNDILUTED GRADES |             |             |     | Au g/t         | Volume<br>bcm | Density<br>t/bcm |
|--|--------------|----------------|-------------|------------------|-------------|-------------|-----|----------------|---------------|------------------|
|  |              |                |             | %Pb              | %Zn         | %Fe         | %Cu |                |               |                  |
| GRUM                                     | HG1          |                |             |                  |             |             |     |                |               |                  |
|  | HG2          | 8,826          | 7.10        | 2.38             | 4.72        | 8.5         |     | 2,913          | 3.03          |                  |
|  | HRF          |                |             |                  |             |             |     |                |               |                  |
| VANGORDA                                 | HG1          | 438,787        | 9.37        | 4.21             | 5.16        | 22.8        |     | 113,135        | 3.88          |                  |
|  | HG2          |                |             |                  |             |             |     |                |               |                  |
| FARO                                     | SALVAGE ops. | 249,365        | 8.01        | 2.80             | 5.21        | 29.9        |     | 57,857         | 4.31          |                  |
| <b>TOTAL +5% PRODUCTION</b>              |              | <b>696,978</b> | <b>8.85</b> | <b>3.68</b>      | <b>5.17</b> | <b>25.2</b> |     | <b>173,905</b> | <b>4.01</b>   |                  |

| <b>LOW GRADE<br/>PIT PRODUCTION 3–5%</b> |              | TONNES         | %Pb+Zn      | UNDILUTED GRADES |             |             |     | Au g/t        | Volume<br>bcm | Density<br>t/bcm |
|--|--------------|----------------|-------------|------------------|-------------|-------------|-----|---------------|---------------|------------------|
|  |              |                |             | %Pb              | %Zn         | %Fe         | %Cu |               |               |                  |
| GRUM                                     | LG1          |                |             |                  |             |             |     |               |               |                  |
|  | LG2          | 16,746         | 5.19        | 1.89             | 3.31        | 6.9         |     | 5,797         | 2.89          |                  |
| VANGORDA                                 | LG1          | 104,736        | 4.65        | 2.25             | 2.40        | 26.2        |     | 26,753        | 3.91          |                  |
|  | LG2          | 2,849          | 4.45        | 1.97             | 2.47        | 15.0        |     | 989           | 2.88          |                  |
| FARO                                     | SALVAGE ops. |                |             |                  |             |             |     |               |               |                  |
| <b>TOTAL 3–5% PRODUCTION</b>             |              | <b>124,331</b> | <b>4.72</b> | <b>2.20</b>      | <b>2.52</b> | <b>23.3</b> |     | <b>33,539</b> | <b>3.71</b>   |                  |

| <b>TOTAL +3% PRODUCTION<br/>BY PIT</b> |       | TONNES         | %Pb+Zn      | UNDILUTED GRADES |             |             |     | Au g/t         | Volume<br>bcm | Density<br>t/bcm |
|--|-------|----------------|-------------|------------------|-------------|-------------|-----|----------------|---------------|------------------|
|  |       |                |             | %Pb              | %Zn         | %Fe         | %Cu |                |               |                  |
| GRUM                                   | TOTAL | 25,572         | 5.85        | 2.06             | 3.79        | 7.4         |     | 8,710          | 2.94          |                  |
| VANGORDA                               | TOTAL | 546,372        | 8.44        | 3.82             | 4.62        | 23.4        |     | 140,877        | 3.88          |                  |
| FARO                                   | TOTAL | 249,365        | 8.01        | 2.80             | 5.21        | 29.9        |     | 57,857         | 4.31          |                  |
| <b>TOTAL +3% PRODUCTION</b>            |       | <b>821,309</b> | <b>8.23</b> | <b>3.46</b>      | <b>4.77</b> | <b>24.9</b> |     | <b>207,444</b> | <b>3.96</b>   |                  |

| <b>TOTAL +3% PRODUCTION<br/>BY ORE TYPE</b> |                    | TONNES         | %Pb+Zn      | UNDILUTED GRADES |             |             |     | Au g/t         | Volume<br>bcm | Density<br>t/bcm |
|---|--------------------|----------------|-------------|------------------|-------------|-------------|-----|----------------|---------------|------------------|
|   |                    |                |             | %Pb              | %Zn         | %Fe         | %Cu |                |               |                  |
| BARITIC MASSIVE SULPHIDES                   | G1                 | 543,523        | 8.46        | 3.83             | 4.63        | 23.4        |     | 139,888        | 3.89          |                  |
| CARBONACEOUS QUARTZITES                     | G2                 | 28,421         | 5.71        | 2.05             | 3.66        | 8.2         |     | 9,699          | 2.93          |                  |
| CAP ROCK                                    | (all types)        |                |             |                  |             |             |     |                |               |                  |
| OTHER                                       | – faro salvage 2EF | 249,365        | 8.01        | 2.80             | 5.21        | 29.9        |     | 57,857         | 4.31          |                  |
| <b>TOTAL +3% PRODUCTION</b>                 |                    | <b>821,309</b> | <b>8.23</b> | <b>3.46</b>      | <b>4.77</b> | <b>24.9</b> |     | <b>149,587</b> | <b>5.49</b>   |                  |

**REHANDLED ORE TO MILL STOCKPILES DURING PERIOD – Norlap and Curragh**

| <b>TYPE OF ORE TRANSFERED</b> |                  | TONNES         | %Pb+Zn      | UNDILUTED GRADES |             |             |     | Au g/t         | Volume<br>bcm | Density<br>t/bcm |
|-------------------------------|------------------|----------------|-------------|------------------|-------------|-------------|-----|----------------|---------------|------------------|
|                               |                  |                |             | %Pb              | %Zn         | %Fe         | %Cu |                |               |                  |
| Norlap                        | Vangorda G1      | 379,916        | 9.05        | 4.10             | 4.95        | 23.5        |     | 97,916         | 3.88          |                  |
|                               | Vangorda Cap Rck |                |             |                  |             |             |     |                |               |                  |
|                               | Vangorda Low grd | 35,554         | 5.34        | 2.38             | 2.96        | 17.0        |     | 12,260         | 2.90          |                  |
|                               | Grum G1          |                |             |                  |             |             |     |                |               |                  |
|                               | Grum G2          |                |             |                  |             |             |     |                |               |                  |
| Curragh                       | Grum Low grade   |                |             |                  |             |             |     |                |               |                  |
|                               | FARO Low grd 'A' |                |             |                  |             |             |     |                |               |                  |
|                               | FARO Low grd 'L' | 31,412         | 3.89        | 1.46             | 2.42        | 29.8        |     | 8,266          | 3.80          |                  |
|                               | FARO Low grd 'C' |                |             |                  |             |             |     |                |               |                  |
|                               | Faro Pit Salvage | 44,470         | 8.01        | 2.80             | 5.21        | 29.9        |     | 10,318         | 4.31          |                  |
| <b>TOTAL TO MILL STKPLS</b>   |                  | <b>491,352</b> | <b>8.36</b> | <b>3.69</b>      | <b>4.67</b> | <b>24.0</b> |     | <b>128,761</b> | <b>3.82</b>   |                  |
| <b>TOTAL NORLAP HAUL</b>      |                  | <b>415,470</b> | <b>8.73</b> | <b>3.95</b>      | <b>4.78</b> | <b>22.9</b> |     | <b>110,176</b> | <b>3.77</b>   |                  |
| <b>TOTAL CURRAGH HAUL</b>     |                  | <b>75,882</b>  | <b>6.30</b> | <b>2.25</b>      | <b>4.06</b> | <b>29.9</b> |     | <b>18,584</b>  | <b>4.08</b>   |                  |

**VANGORDA PIT HIGH GRADE "G1" MASSIVE SULPHIDE +5% ORE MINED DURING MONTH**

| ORE TYPE/PHASE           | BENCH BLAST |      | TONNES         | UNDILUTED GRADES |             |             |             |     | Au g/t         | Volume<br>bcm | Density<br>t/bcm |
|--------------------------|-------------|------|----------------|------------------|-------------|-------------|-------------|-----|----------------|---------------|------------------|
|                          | ELEV.       | ID.  |                | %Pb+Zn           | %Pb         | %Zn         | %Fe         | %Cu |                |               |                  |
| HG1                      | V           | 1080 | 77,052         | 8.46             | 3.96        | 4.50        | 27.9        |     | 18,676         | 4.13          |                  |
| HG1                      | V           | 1071 | 361,735        | 9.56             | 4.26        | 5.30        | 21.7        |     | 94,459         | 3.83          |                  |
| HG1                      | V           |      |                |                  |             |             |             |     |                |               |                  |
| HG1                      | V           |      |                |                  |             |             |             |     |                |               |                  |
| HG1                      | V           |      |                |                  |             |             |             |     |                |               |                  |
| HG1                      | V           |      |                |                  |             |             |             |     |                |               |                  |
| <b>TOTAL ALL BENCHES</b> |             |      | <b>438,787</b> | <b>9.37</b>      | <b>4.21</b> | <b>5.16</b> | <b>22.8</b> |     | <b>113,135</b> | <b>3.88</b>   |                  |

**VANGORDA PIT HIGH GRADE "G2" CARBONACEOUS +5% ORE MINED DURING MONTH**

| ORE TYPE/PHASE           | BENCH BLAST |     | TONNES | UNDILUTED GRADES |     |     |     |     | Au g/t | Volume<br>bcm | Density<br>t/bcm |
|--------------------------|-------------|-----|--------|------------------|-----|-----|-----|-----|--------|---------------|------------------|
|                          | ELEV.       | ID. |        | %Pb+Zn           | %Pb | %Zn | %Fe | %Cu |        |               |                  |
| HG2                      | V           |     |        |                  |     |     |     |     |        |               |                  |
| HG2                      | V           |     |        |                  |     |     |     |     |        |               |                  |
| HG2                      | V           |     |        |                  |     |     |     |     |        |               |                  |
| HG2                      | V           |     |        |                  |     |     |     |     |        |               |                  |
| HG2                      | V           |     |        |                  |     |     |     |     |        |               |                  |
| HG2                      | V           |     |        |                  |     |     |     |     |        |               |                  |
| <b>TOTAL ALL BENCHES</b> |             |     |        |                  |     |     |     |     |        |               |                  |

**VANGORDA PIT LOW GRADE "LG1" MASSIVE SULPHIDE 3-5% ORE MINED DURING MONTH**

| ORE TYPE/PHASE           | BENCH BLAST |      | TONNES         | UNDILUTED GRADES |             |             |             |     | Au g/t        | Volume<br>bcm | Density<br>t/bcm |
|--------------------------|-------------|------|----------------|------------------|-------------|-------------|-------------|-----|---------------|---------------|------------------|
|                          | ELEV.       | ID.  |                | %Pb+Zn           | %Pb         | %Zn         | %Fe         | %Cu |               |               |                  |
| LG1                      | V           | 1080 | 40,042         | 3.66             | 1.69        | 1.97        | 28.5        |     | 10,016        | 4.00          |                  |
| LG1                      | V           | 1071 | 64,694         | 5.26             | 2.60        | 2.66        | 24.8        |     | 16,737        | 3.87          |                  |
| LG1                      | V           |      |                |                  |             |             |             |     |               |               |                  |
| LG1                      | V           |      |                |                  |             |             |             |     |               |               |                  |
| LG1                      | V           |      |                |                  |             |             |             |     |               |               |                  |
| LG1                      | V           |      |                |                  |             |             |             |     |               |               |                  |
| <b>TOTAL ALL BENCHES</b> |             |      | <b>104,736</b> | <b>4.65</b>      | <b>2.25</b> | <b>2.40</b> | <b>26.2</b> |     | <b>26,753</b> | <b>3.91</b>   |                  |

**VANGORDA PIT LOW GRADE "LG2" CARBONACEOUS 3-5% ORE MINED DURING MONTH**

| ORE TYPE/PHASE           | BENCH BLAST |      | TONNES       | UNDILUTED GRADES |             |             |             |     | Au g/t     | Volume<br>bcm | Density<br>t/bcm |
|--------------------------|-------------|------|--------------|------------------|-------------|-------------|-------------|-----|------------|---------------|------------------|
|                          | ELEV.       | ID.  |              | %Pb+Zn           | %Pb         | %Zn         | %Fe         | %Cu |            |               |                  |
| LG2                      | V           | 1080 | 1,323        | 4.36             | 1.92        | 2.44        | 13.8        |     | 408        | 3.24          |                  |
| LG2                      | V           | 1071 | 1,526        | 4.52             | 2.02        | 2.50        | 16.0        |     | 581        | 2.63          |                  |
| LG2                      | V           |      |              |                  |             |             |             |     |            |               |                  |
| LG2                      | V           |      |              |                  |             |             |             |     |            |               |                  |
| LG2                      | V           |      |              |                  |             |             |             |     |            |               |                  |
| LG2                      | V           |      |              |                  |             |             |             |     |            |               |                  |
| <b>TOTAL ALL BENCHES</b> |             |      | <b>2,849</b> | <b>4.45</b>      | <b>1.97</b> | <b>2.47</b> | <b>15.0</b> |     | <b>989</b> | <b>2.88</b>   |                  |

**GRUM PIT HIGH GRADE "G1" MASSIVE SULPHIDE +5% ORE MINED DURING MONTH**

| ORE TYPE/PHASE | BENCH BLAST |     | TONNES | UNDILUTED GRADES |     |     |     |     | Au g/t | Volume<br>bcm | Density<br>t/bcm |
|----------------|-------------|-----|--------|------------------|-----|-----|-----|-----|--------|---------------|------------------|
|                | ELEV.       | ID. |        | %Pb+Zn           | %Pb | %Zn | %Fe | %Cu |        |               |                  |
| HG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |

**TOTAL ALL BENCHES****GRUM PIT HIGH GRADE "G2" CARBONACEOUS +5% ORE MINED DURING MONTH**

| ORE TYPE/PHASE | BENCH BLAST |      | TONNES | UNDILUTED GRADES |      |      |     |     | Au g/t | Volume<br>bcm | Density<br>t/bcm |
|----------------|-------------|------|--------|------------------|------|------|-----|-----|--------|---------------|------------------|
|                | ELEV.       | ID.  |        | %Pb+Zn           | %Pb  | %Zn  | %Fe | %Cu |        |               |                  |
| HG2            | stg 1       | 1270 | 8,826  | 7.10             | 2.38 | 4.72 | 8.5 |     | 2,913  | 3.03          |                  |
| HG2            | stg 1       |      |        |                  |      |      |     |     |        |               |                  |
| HG2            | stg 1       |      |        |                  |      |      |     |     |        |               |                  |
| HG2            | stg 1       |      |        |                  |      |      |     |     |        |               |                  |
| HG2            | stg 1       |      |        |                  |      |      |     |     |        |               |                  |
| HG2            | stg 1       |      |        |                  |      |      |     |     |        |               |                  |

**TOTAL ALL BENCHES 8,826 7.10 2.38 4.72 8.5 2,913 3.03****GRUM PIT LOW GRADE "LG1" MASSIVE SULPHIDES 3-5% ORE MINED DURING MONTH**

| ORE TYPE/PHASE | BENCH BLAST |     | TONNES | UNDILUTED GRADES |     |     |     |     | Au g/t | Volume<br>bcm | Density<br>t/bcm |
|----------------|-------------|-----|--------|------------------|-----|-----|-----|-----|--------|---------------|------------------|
|                | ELEV.       | ID. |        | %Pb+Zn           | %Pb | %Zn | %Fe | %Cu |        |               |                  |
| LG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| LG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| LG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| LG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| LG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| LG1            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |

**TOTAL ALL BENCHES****GRUM PIT LOW GRADE "LG2" CARBONACEOUS 3-5% ORE MINED DURING MONTH**

| ORE TYPE/PHASE | BENCH BLAST |      | TONNES | UNDILUTED GRADES |      |      |     |     | Au g/t | Volume<br>bcm | Density<br>t/bcm |
|----------------|-------------|------|--------|------------------|------|------|-----|-----|--------|---------------|------------------|
|                | ELEV.       | ID.  |        | %Pb+Zn           | %Pb  | %Zn  | %Fe | %Cu |        |               |                  |
| LG2            | stg 1       | 1270 | 7,040  | 4.37             | 1.69 | 2.68 | 4.3 |     | 2,570  | 2.74          |                  |
| LG2            | stg 1       | 1264 | 9,706  | 5.79             | 2.03 | 3.76 | 8.7 |     | 3,227  | 3.01          |                  |
| LG2            | stg 1       |      |        |                  |      |      |     |     |        |               |                  |
| LG2            | stg 1       |      |        |                  |      |      |     |     |        |               |                  |
| LG2            | stg 1       |      |        |                  |      |      |     |     |        |               |                  |
| LG2            | stg 1       |      |        |                  |      |      |     |     |        |               |                  |

**TOTAL ALL BENCHES 16,746 5.19 1.89 3.31 6.9 5,797 2.89****GRUM PIT "CAP ROCK" +3% ORE MINED DURING MONTH**

| ORE TYPE/PHASE | BENCH BLAST |     | TONNES | UNDILUTED GRADES |     |     |     |     | Au g/t | Volume<br>bcm | Density<br>t/bcm |
|----------------|-------------|-----|--------|------------------|-----|-----|-----|-----|--------|---------------|------------------|
|                | ELEV.       | ID. |        | %Pb+Zn           | %Pb | %Zn | %Fe | %Cu |        |               |                  |
| HRF            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HRF            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HRF            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HRF            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HRF            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |
| HRF            | stg 1       |     |        |                  |     |     |     |     |        |               |                  |

**TOTAL ALL BENCHES**

**CURRAGH INC  
FARO DIVISION  
HIGH GRADE STOCKPILE STATUS DECEMBER 1 1992**

| GRADE            | from PIT           | DESCRIPTION  | CODE  | TYPE | LOCATION  | tonnes         | Pb+Zn%      | Pb%         | Zn%         |
|------------------|--------------------|--|-------|------|---|----------------|-------------|-------------|-------------|
| +6%              | Vangorda           | baritic massive sulphide   | 4G    | G1   | Vangorda high grade transfer pad by "Pelly Pond"  | 141,691        | 9.38        | 4.08        | 5.30        |
| +6%              | Vangorda           | baritic massive sulphide   | 4G    | G1   | Part of Crusher stockpile at mill site, isolated in center  | 89,195         | 9.05        | 4.10        | 4.95        |
| +6%              | Vangorda           | carbonaceous quartzite with potential for high CN soluble copper                       | 4A    | G2   | Part of Crusher stockpile at mill site, isolated on the north side of stockpile                                   | 40,000         | 10.00       | 4.10        | 5.90        |
| +6%              | Vangorda           | carbonaceous quartzite with potential for high CN soluble copper                       | 4A    | G2   | Stockpiled separately at the "intersection" piles between Crusher & Faro lube shack on the east side of haul road | 71,162         | 8.39        | 3.64        | 4.75        |
| +6%              | Vangorda           | baritic massive sulphide from upper horizons with potential for high CN soluble copper | 4G    | CAP  | Remains in the "high floor" area where screening plant was set up at the Vangorda dumps.                          | 57,197         | 9.24        | 4.41        | 4.83        |
| +6%              | Grum               | carbonaceous quartzite from upper benches, low iron content                            | 2     | G2   | Grum high grade transfer pad  | 8,826          | 7.10        | 2.38        | 4.72        |
| +6%              | Faro (salvage)     | pyritic massive sulphide with varying amounts of carbonaceous quartzite                | 2F/2A | AY   | Part of Crusher stockpile at mill site, isolated in the south side of pile  | 70,510         | 8.01        | 2.80        | 5.21        |
| +6%              | Faro (salvage)     | pyritic massive sulphide with varying amounts of carbonaceous quartzite                | 2F/2A | AY   | Broken in pit and available for mill feed.  | 134,385        | 8.01        | 2.80        | 5.21        |
| +6%              | Faro (underground) | pyritic massive sulphide with varying amounts of carbonaceous quartzite                | 2F/2A | U/G  | Part of Crusher stockpile at mill site, isolated in the south west side of ramp                                   | 14,045         | 11.27       | 4.33        | 6.94        |
| <b>total +6%</b> | <b>ALL PITS</b>    |  |       |      |   | <b>627,011</b> | <b>8.81</b> | <b>3.63</b> | <b>5.18</b> |

CURRAGH INC  
FARO DIVISION  
**LOW GRADE STOCKPILE STATUS DECEMBER 1 1992**

| GRADE                 | from PIT            | DESCRIPTION  | CODE        | TYPE | LOCATION  | tonnes           | Pb+Zn%      | Pb%         | Zn%         |
|-----------------------|---------------------|--|-------------|------|---|------------------|-------------|-------------|-------------|
| 3-6%                  | Vangorda            | carbonaceous quartzite with potential for high CN soluble copper | 4A          | LG2  | Stockpiled separately at the "intersection" piles between Crusher & Faro lube shack on the west side of haul road | 127,502          | 5.68        | 2.52        | 3.16        |
| 3-6%                  | Vangorda            | carbonaceous quartzite with potential for high CN soluble copper | 4A          | LG2  | Stockpiled within the limits of the Grum Stage II pit design, near haul road.                                     | 210,377          | 5.25        | 2.35        | 2.90        |
| 3-6%                  | Vangorda            | carbonaceous quartzite with potential for high CN soluble copper | 4A          | LG2  | Stockpiled near Vangorda waste dumps beside the refractory screened fines.  | 40,000           | 5.25        | 2.35        | 2.90        |
| 3-6%                  | Vangorda            | semi-massive pyritic quartzite with minor quantities of 4A       | 4EC         | LG1  | Contained within the south limits of Vangorda Pit   | 220,523          | 5.25        | 2.35        | 2.90        |
| 3-6%                  | Grum                | carbonaceous quartzite from upper benches, low iron content      | 2           | LG2  | Grum low grade transfer pad   | 16,746           | 5.19        | 1.89        | 3.31        |
| 4-5%                  | Faro                | massive & semi-massive sulphides with minor quantities of 4A     | 2EF/<br>2EC | LGA  | Behind Faro lube shack  | 814,253          | 4.65        | 1.92        | 2.73        |
| 3-4%                  | Faro                | massive & semi-massive sulphides with minor quantities of 4A     | 2EF/<br>2EC | LGL  | Between Faro zone 1 ramp and old "ranch" area to the SE (south 1/2 of large stockpile)                            | 530,419          | 3.89        | 1.46        | 2.42        |
| 4-5%                  | Faro                | carbonaceous quartzite   | 2A          | LGC  | Between Faro zone 1 ramp and old "ranch" area to the SE (north 1/2 of large stockpile)                            | 571,892          | 4.54        | 1.56        | 2.98        |
| <b>total<br/>3-6%</b> | <b>ALL<br/>PITS</b> |  |             |      |   | <b>2,531,712</b> | <b>4.63</b> | <b>1.85</b> | <b>2.78</b> |

**CURRAGH INC.**

**FARO PIT – AY SALVAGE PROJECT – SUMMARY TO DATE – 01–Dec  
Pelly Construction Contractor (scheduled completion date Dec 18)**

| <b>Work Performed by Curragh</b>          |         |                       |                  |
|---|---------|-----------------------|------------------|
| <b>loading pad construction:</b>          |         |                       |                  |
| D9 operating hours –                      | 114     | cost =                | \$14,250         |
| <b>ore loading/hauling:</b>               |         |                       |                  |
| total wabco loads –                       | 222     |                       |                  |
| total euclid loads –                      | 937     |                       |                  |
| total tonnes moved to crusher stockpile – | 137,105 | cost =                | \$205,658        |
| <b>surveying:</b>                         |         |                       |                  |
| total crew hours on project –             | 52.5    | cost =                | \$1,971          |
| <b>scaling:</b>                           |         |                       |                  |
| site preparation by contractor –          |         | cost =                | \$58,433         |
| total ERT crew hours on project –         | 10      | cost =                | \$190            |
|   |         | <b>cost to date =</b> | <b>\$280,502</b> |

| <b>Work Performed by Pelly Construction</b> |         |                       |                  |
|---|---------|-----------------------|------------------|
| <b>drill/doze:</b>                          |         |                       |                  |
| number of blasts to date –                  | 12      |                       |                  |
| * estimated BCM broke –                     | 66,199  | cost =                | \$463,392        |
| estimated tonnage broke –                   | 259,988 |                       |                  |
| actual surveyed BCM mucked –                | 59,046  | cost =                | \$413,322        |
| **calculated density of ore t/BCM –         | 4.31    |                       |                  |
| calculated tonnage mucked –                 | 254,285 |                       |                  |
| weight averaged assayed Pb% –               | 2.83    |                       |                  |
| weight averaged assayed Zn% –               | 5.28    |                       |                  |
| weight averaged assayed Fe% –               | 31.4    |                       |                  |
| weight averaged Pb + Zn% –                  | 8.11    |                       |                  |
|   |         | <b>cost to date =</b> | <b>\$463,392</b> |

|                               |        |                       |                 |
|-------------------------------|--------|-----------------------|-----------------|
| <b>blasting:</b>              |        |                       |                 |
| kilograms of Amex II used –   | 8,500  | cost =                | \$6,086         |
| kilograms of Impact X used –  | 22,801 | cost =                | \$50,573        |
| kilograms of Powerfrac used – | 1,088  | cost =                | \$5,035         |
| accessories –                 |        | cost =                | \$20,910        |
|                               |        | <b>cost to date =</b> | <b>\$82,604</b> |

**total cost to date = \$826,497**  
**cost/tonne broke to date = \$3.18**

\* an approximate estimation of volume is found by measuring the area prior to each blast, average depth of each blast is taken from Pelly's blast report.

\*\* a multiple regression formula is applied to the assayed grade and a density factor is calculated.

**CURRAGH INC.**  
**FARO PIT – AY SALVAGE PROJECT – SUMMARY TO DATE –**  
**Pelly Construction Contractor (scheduled completion date Dec 18)**

01–Dec

| Work Performed by Curragh |   | Avg to date      |                  |                    | Project          |            |                    |
|---------------------------|---|------------------|------------------|--------------------|------------------|------------|--------------------|
| JOB                       | DESCRIPTION   | Estimate         | To date          | Variance           | Estimate         | Final      | Variance           |
| Scaling                   | Scaling off all loose material above the project area and construction of a high impact catch fence. Contracted out to Canadian Gun–Crete & Grouting Ltd.       | \$59,634         | \$58,433         | (\$1,201)          | \$59,634         | \$58,433   | (\$1,201)          |
| Loading Pads              | Construct two ore pads, (upper & lower). Involves filling in old main sump area with material pushed from waste dump. Removal of pipe and electrical equipment. | \$16,500         | \$14,250         | (\$2,250)          | \$16,500         | N/A        | (\$16,500)         |
| Survey                    | Obtain survey highwall before job starts, survey of ore pads when completed. Every two weeks the volume of material blasted/dozed from wall are surveyed.       | \$3,447          | \$1,971          | (\$1,476)          | \$5,400          | N/A        | (\$5,400)          |
| Load & Haul               | When enough ore is pushed down on to the ore pads, a loader and two trucks are assigned to load and haul it to the crusher stockpiles.                          | \$469,149        | \$205,658        | (\$263,491)        | \$735,000        | N/A        | (\$735,000)        |
| <b>Total</b>              |   | <b>\$548,730</b> | <b>\$280,312</b> | <b>(\$268,418)</b> | <b>\$816,534</b> | <b>N/A</b> | <b>(\$816,534)</b> |

| Work Performed by Pelly Construction |  | Avg to date      |                  |                    | Project          |            |                    |
|--------------------------------------|--|------------------|------------------|--------------------|------------------|------------|--------------------|
| JOB                                  | DESCRIPTION  | Estimate         | To date          | Variance           | Estimate         | Final      | Variance           |
| Drill/Doze                           | Benches are drilled 20 feet deep on a pattern size approximately 10X10 feet. After blasting a dozer pushes the ore over the edge on to the ore pads. | \$569,326        | \$463,392        | (\$105,934)        | \$902,632        | N/A        | (\$902,632)        |
| Extra                                | Any operating hours with Pelly equipment not specified in the contract.  | \$0              | \$0              | \$0                | \$0              | \$0        | \$0                |
| <b>Total</b>                         |  | <b>\$569,326</b> | <b>\$463,392</b> | <b>(\$105,934)</b> | <b>\$902,632</b> | <b>\$0</b> | <b>(\$902,632)</b> |

| Explosives and Accessories |   | Avg to date      |                 |                   | Project          |            |                    |
|----------------------------|---|------------------|-----------------|-------------------|------------------|------------|--------------------|
| TYPE                       | DESCRIPTION   | Estimate         | To date         | Variance          | Estimate         | Final      | Variance           |
| Amex II                    | To be used where holes are dry, trying to maximize use. | \$18,511         | \$6,086         | (\$12,425)        | \$29,000         | N/A        | (\$29,000)         |
| Impact X                   | To replace stick powder in wetter holes.                | \$118,085        | \$50,573        | (\$67,512)        | \$185,000        | N/A        | (\$185,000)        |
| Powerfrac                  | To be used only where necessary.                        | \$0              | \$5,035         | \$5,035           | \$0              | N/A        | \$0                |
| Accessories                | Includes all detonating devices.                        | \$31,915         | \$20,910        | (\$11,005)        | \$50,000         | N/A        | (\$50,000)         |
| <b>Total</b>               |   | <b>\$168,511</b> | <b>\$82,604</b> | <b>(\$85,907)</b> | <b>\$264,000</b> | <b>\$0</b> | <b>(\$264,000)</b> |