KINGS
MINERALS NL

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# Kalman Preliminary Metallurgical Results

## Highlights

Copper Zone Material

- Excellent copper and gold recoveries to rougher concentrate, 95% and 82% respectively.

Molybdenum Zone Material

- Excellent molybdenum, copper and gold recoveries to rougher concentrate, 88%, 95% and 78% respectively.

Excellent recoveries of all valuable metals have been achieved in the preliminary flotation test work on samples from the two mineralised zones in the Kalman molybdenum-copper-rhenium-gold deposit. The flotation response and copper and gold recoveries from the copper zone material indicate very favourable and conventional process conditions for this material.

The flotation of the molybdenum zone material also produced excellent recovery of the molybdenum (and included rhenium*) into a low mass concentrate. The recoveries of copper and gold were also high.

The results indicated that the primary recovery stages will yield high metal recoveries for the downstream cleaning/upgrading stages. The results indicate that high value products from the deposit containing molybdenum, rhenium, copper and gold can be produced utilising a conventional flow sheet and process conditions.

## Preliminary Flotation Test Work Results

Eight diamond drill core samples were selected, blended and combined into two composite samples to represent the copper and molybdenum zone material.

**Table 1:**
**Composite Sample Assays**

| Sample | Cu<br>% | Mo<br>ppm | Au<br>g/t | S<br>% |
|---|---|---|---|---|
| Copper Composite | 0.54 | 23 | 0.09 | 1.56 |
| Molybdenum Composite | 0.29 | 1730 | 0.07 | 0.50 |

The two composite samples each underwent ten rougher flotation tests to determine the impact of primary grind distribution and pH on rougher recovery.

Kings Minerals NL Suite 1 Level 1 895 Ann Street Fortitude Valley QLD 4006
PO Box 2380 Fortitude Valley BC QLD 4006 ABN 72 006 381 684
t +61 7 3252 0122 f +61 7 3252 0166 e admin@kingsminerals.com w www.kingsminerals.com

## Copper Composite Sample

The preliminary results for the copper composite sample indicate that the copper recovery to rougher concentrate (Figure 1) is insensitive to grind and pH. Copper recovery of 95% to rougher concentrate was achieved after 8 minutes of flotation at a grind $P_{80}$ of 125µm and pH 11. Gold recovery of 82% was achieved at the same conditions. The cumulative mass recovery after 8 minutes was approximately 10%.

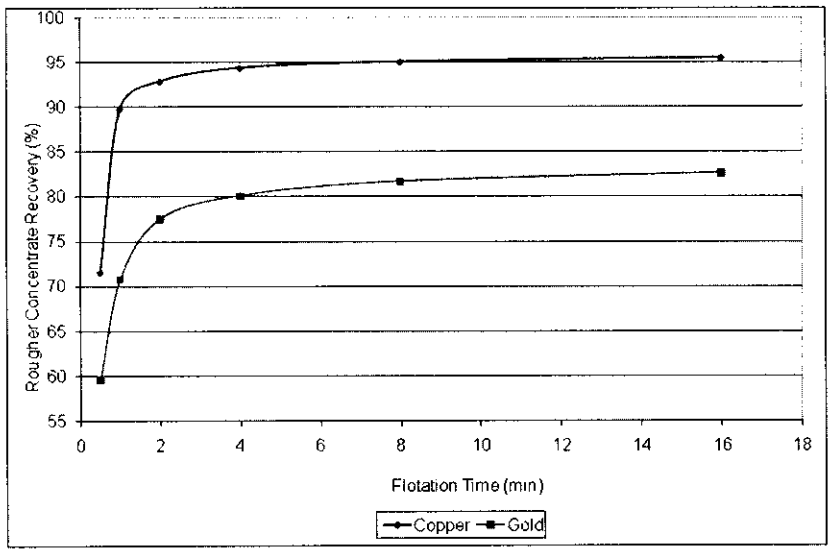


**Figure 1: Copper Composite Sample – Rougher Concentrate Recovery**

## Molybdenum Composite Sample

The preliminary results for the molybdenum composite sample indicate copper and molybdenum recoveries (Figure 2) are more sensitive to grind with molybdenum being more sensitive. The rougher recovery at a primary grind $P_{80}$ of 125µm and pH 10 was 95% copper and 88% molybdenum after 16 minutes of flotation time. The gold recovery was 78%. The cumulative mass recovery to rougher concentrate was approximately 4%.

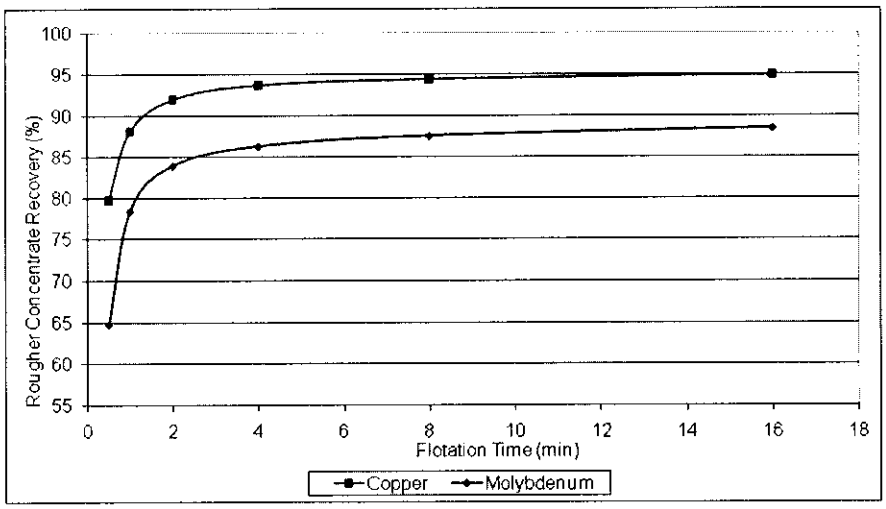


**Figure 2: Molybdenum Composite Sample – Rougher Concentrate Recovery**

Further testing is underway to investigate cleaning of the rougher concentrate at various regrind size distributions and to establish comminution characteristics of the material.

**Quantitative Mineralogical Analysis**

As previously reported six samples were analysed using both Scanning Electron Microscopy and Energy Dispersive X-ray techniques. The most abundant copper species was chalcopyrite (>90%) with chalcocite and bornite being present in trace amounts. No copper oxide or sulphate species were identified. The only molybdenum bearing mineral was molybdenite. The most significant sulphide gangue material was pyrite. Silicates were the dominate non-sulphide gangue minerals with high concentrations of quartz, albite, orthoclase, diopside, biotite and muscovite present. Calcite was the only carbonate mineral identified. Chlorite and clay were present in the samples.

Yours sincerely,
**KINGS MINERALS NL**

Dudley R Leitch
Managing Director

* rhenium is contained within the lattice of molybdenite and the recovery of this metal is expected to follow the recovery of molybdenum. Rhenium assays will be included in all future molybdenum zone material testing.

For further information, please contact Dudley Leitch on +61 7 3252 0122 or on our website www.kingsminerals.com.

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr John Skeet who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Skeet is a consultant to Kings Minerals NL and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2004 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Skeet consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.