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SUMMARY

A flotation testwork programme was undertaken on two composite samples of magnesite ore.

The head assays of the samples are shown in Table 1:

TABLE 1: HEAD ASSAYS

| Sample | MgO % | SiO ₂ % | Fe ₂ O ₃ % | CaO % | Al ₂ O ₃ % | LOI % | P ₂ O ₅ % | Na ₂ O % | SO ₃ % |
|---------|----------|-----------------------|-------------------------------------|----------|-------------------------------------|----------|------------------------------------|------------------------|----------------------|
| Comp. 1 | 43.9 | 2.82 | 0.80 | 2.32 | <0.05 | 50.1 | <0.01 | 0.10 | 0.06 |
| Comp. 2 | 42.0 | 3.03 | 3.31 | 2.80 | <0.05 | 49.0 | <0.01 | 0.09 | 0.06 |

Each sample underwent an ICP scan, giving the results shown in Table 2:

TABLE 2: ICP

| Sample | Ag ppm | Al ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca ppm | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe ppm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Comp 1 | <3 | <100 | <10 | <5 | <2 | <20 | 15486 | <2 | <5 | <10 | 11 | 4970 |
| Comp 2 | <3 | <100 | <10 | <5 | <2 | <20 | 18747 | <2 | <5 | <10 | 6 | 20406 |

| Sample | Hf ppm | K ppm | Li ppm | Mg ppm | Mn ppm | Mo ppm | Na ppm | Nb ppm | Ni ppm | P ppm | Pb ppm | S ppm |
|--------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|
| Comp 1 | <20 | <500 | <2 | 294904 | 412 | <10 | <50 | <10 | <10 | <30 | <20 | 168 |
| Comp 2 | <20 | <500 | <2 | 278128 | 850 | <10 | <50 | <10 | <10 | <30 | <20 | 199 |

| Sample | Sb ppm | Sc ppm | Se ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti ppm | U ppm | V ppm | Y ppm | Zn ppm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|
| Comp 1 | <10 | <2 | <10 | 11 | <20 | <10 | <10 | <10 | <100 | <2 | <2 | 25 |
| Comp 2 | <10 | <2 | <10 | 15 | <20 | <10 | <10 | <10 | <100 | <2 | <2 | 50 |

| Sample | P ₂ O ₅ % | Na ₂ O % | SO ₃ % | CO ₃ % | Zr ppm | B ppm |
|--------|------------------------------------|------------------------|----------------------|----------------------|-----------|----------|
| Comp 1 | <0.01 | 0.10 | 0.06 | 71.9 | <5 | <20 |
| Comp 2 | <0.02 | 0.09 | 0.06 | 68.0 | <5 | <20 |

A mineralogical examination of the two samples showed the major minerals in composite #1 to be magnesite and dolomite, and in composite #2 to be magnesite, dolomite, and talc. Quartz and pyrite were observed in both samples. The composition of the magnesite in composite #2 was found to vary, some sections being richer in iron than others.

Grind establishment testwork showed the samples to be very soft, composite #1 being softer than composite #2. The milling times were lengthened by removing 67% of the rod charge and the grind sizes were chosen to be P80 of 106 μ m and 212 μ m.

Screen analyses were performed on both composites after milling to a P80 of 106 μ m and 212 μ m, and also after stage-milling to a P100 of 212 μ m. These results are illustrated graphically in Figure 1 for composite #1 and in Figure 2 for composite #2.

The following comments can be made about the composite #1 results:

- The mass distribution of the milled material is biased towards the finer (<23 μ m) size fractions.
- The MgO and Fe₂O₃ distributions follow the mass distribution, while the SiO₂ and CaO are concentrated in the coarser fractions.
- The smallest slime production (arbitrarily taken as 11 μ m) occurred when the sample was milled to P80 = 212 μ m.

The following comments can be made about the composite 2 results:

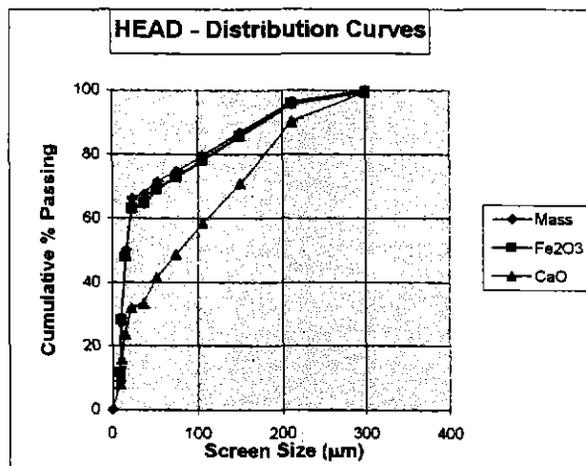
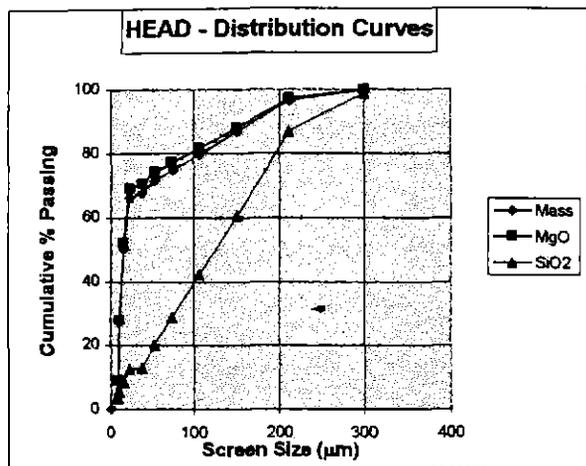
- The mass distribution of the milled material is more evenly distributed than in the composite #1 sample, but with a slight bias towards the fine (<23 μ m) and coarse (>75 μ m) fractions.
- The MgO and Fe₂O₃ distributions follow the mass distribution, while the SiO₂ and CaO are concentrated in the coarser fractions.
- The smallest slime production (arbitrarily taken as 11 μ m) occurred when the sample was milled to a P80 of 212 μ m.

The two samples were subjected to a number of float tests in an attempt to upgrade the magnesite.

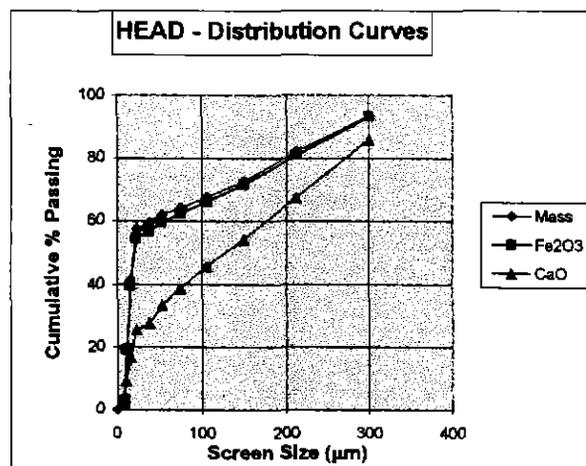
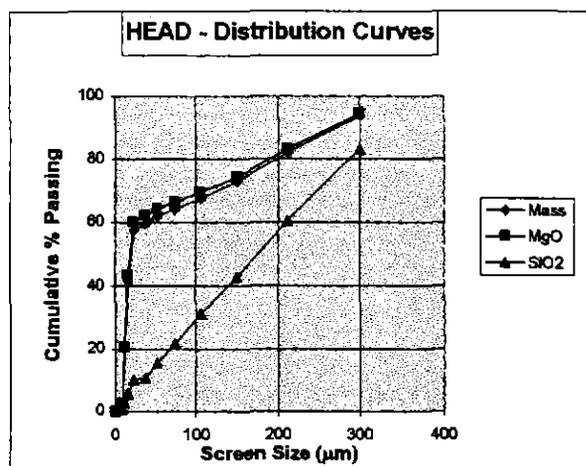
These results are summarised in Table 3

FIGURE 1: SIZE ANALYSES FOR COMPOSITE 1

Milled to a P80 of 106 μ m.



Milled to a P80 of 212 μ m.



Milled to a P100 of 212 μ m.

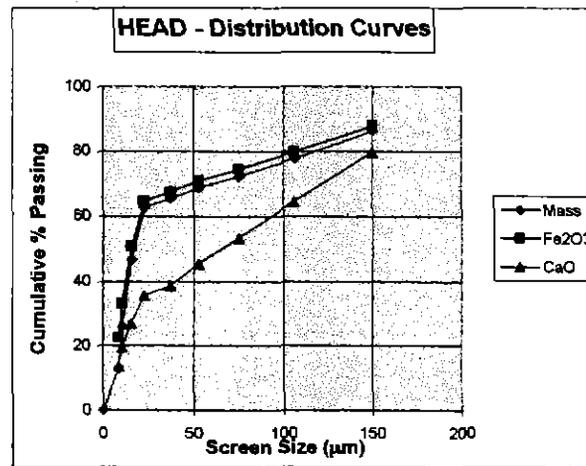
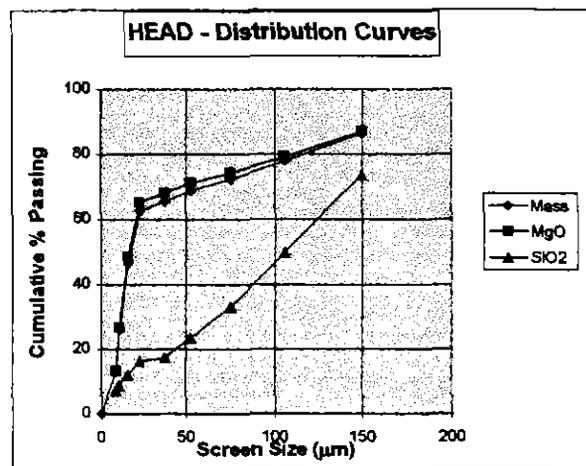
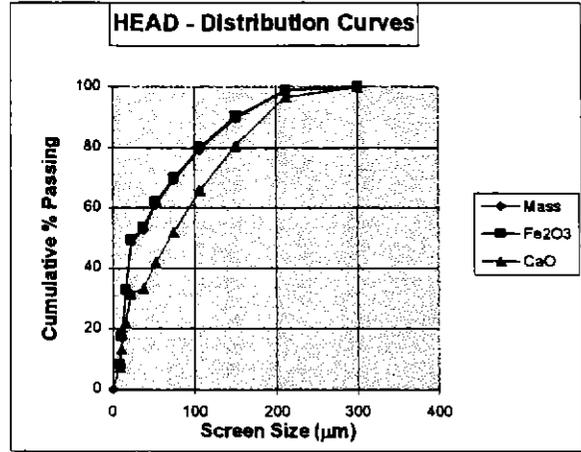
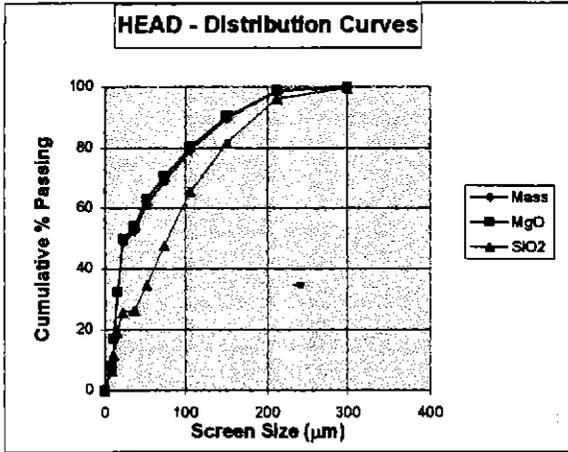
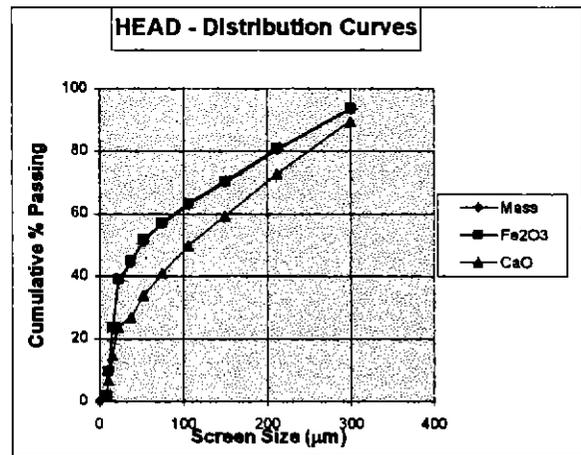
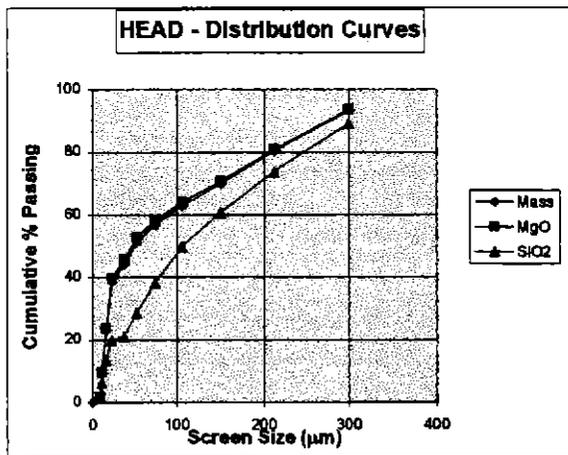


FIGURE 2: SIZE ANALYSES FOR COMPOSITE 2

Milled to a P80 of 106µm.



Milled to a P80 of 212µm.



Milled to a P100 of 212µm.

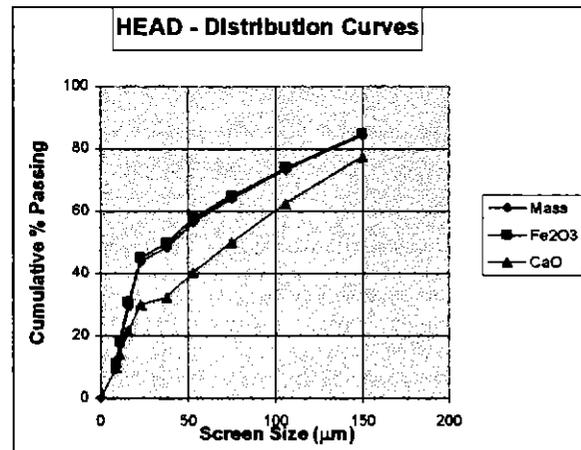
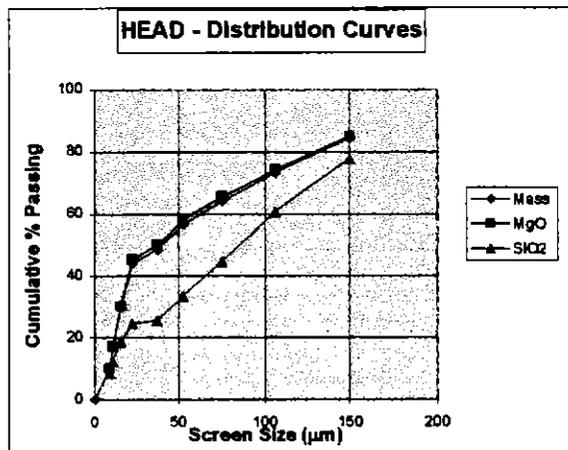


TABLE 3: SUMMARY OF FLOTATION RESULTS

| Test No. RB- | Conditions | Quartz Conct.(objective: 95%SiO ₂ reject) | | | | | Magnesite Conct. (Silica tails) | | | | |
|---------------|---|--|------------------|-------------|---------|-------------|---------------------------------|------------------|-------------|---------|-------------|
| | | Mass % | SiO ₂ | | MgO | | Mass % | SiO ₂ | | MgO | |
| | | | Grade % | Distribt. % | Grade % | Distribt. % | | Grade % | Distribt. % | Grade % | Distribt. % |
| Composite # 1 | | | | | | | | | | | |
| 2041 | P80=106µm, 600g/t K2C, 210g/t Starch, 600g/t FS2 | 38.5 | 7.8 | 97.6 | 41.9 | 37.3 | 61.5 | 0.12 | 2.4 | 44.2 | 62.7 |
| 2042 | P80=212µm, 450g/t K2C, 210g/t Starch, 600g/t FS2 | 23.4 | 11.2 | 94.1 | 41.1 | 22.0 | 76.6 | 0.21 | 5.9 | 44.6 | 78.0 |
| 2046 | P80=212µm, 450g/t K2C, 300g/t Starch, 800g/t FS2 | 36.0 | 7.0 | 93.7 | 42.8 | 35.0 | 64.0 | 0.26 | 6.3 | 44.6 | 65.0 |
| 2047 | P80=212µm, 400g/t K2C, 300g/t Starch, 1000g/t HAL519 | 7.6 | 35.1 | 94.9 | 28.9 | 5.0 | 92.4 | 0.15 | 5.1 | 45.3 | 95.0 |
| 2048 | P80=212µm, 450g/t K2C, 50g/t Quebr., 900g/t HAL519, 100g/t Sod Sil. | 44.9 | 5.4 | 92.0 | 43.2 | 44.2 | 55.1 | 0.39 | 8.0 | 44.5 | 55.8 |
| 2059 | P80=212µm, 200g/t K2C, 750g/t FS2, 100g/t Sod Sil. | 22.5 | 12.2 | 96.2 | 39.9 | 20.7 | 77.5 | 0.14 | 3.8 | 44.6 | 79.3 |
| 2063 | Rept. 2047 | 21.1 | 12.5 | 93.6 | 39.8 | 19.3 | 78.9 | 0.23 | 6.4 | 44.5 | 80.7 |
| Composite # 2 | | | | | | | | | | | |
| 2043 | P80=106µm, 450g/t K2C, 210g/t Starch, 800g/t FS2 | 31.6 | 8.7 | 92.2 | 40.2 | 30.4 | 68.4 | 0.34 | 7.8 | 42.6 | 69.6 |
| 2044 | P80=212µm, 450g/t K2C, 210g/t Starch, 800g/t FS2 | 26.0 | 11.3 | 95.7 | 39.2 | 24.4 | 74.0 | 0.18 | 4.3 | 42.5 | 75.6 |
| 2049 | P80=212µm, 450g/t K2C, 300g/t Starch, 800g/t FS2 | 24.1 | 10.1 | 84.1 | 39.5 | 22.9 | 75.9 | 0.61 | 15.9 | 42.2 | 77.1 |
| 2050 | P80=212µm, 400g/t K2C, 300g/t Starch, 800g/t HAL519 | 15.9 | 15.8 | 83.3 | 37.2 | 14.2 | 84.1 | 0.60 | 16.7 | 42.6 | 85.8 |
| 2051 | P80=212µm, 450g/t K2C, 50g/t Quebr., 900g/t HAL519, 100g/t Sod Sil. | 39.0 | 7.1 | 93.1 | 40.6 | 37.9 | 61.0 | 0.34 | 6.9 | 42.6 | 62.1 |
| 2060 | P80=212µm, 450g/t K2C, 750g/t FS2, 100g/t Sod Sil. | 9.1 | 28.8 | 87.7 | 31.8 | 6.9 | 90.9 | 0.00 | 12.3 | 42.7 | 93.1 |
| 2062 | P80=106µm, 300g/t K2C, 750g/t FS2, 100g/t Sod Sil. | 11.1 | 26.2 | 97.4 | 32.4 | 8.6 | 88.9 | 0.09 | 2.6 | 42.8 | 91.4 |

The following comments can be made about these results:

- The SiO₂ is successfully removed during the quartz prefloat.
- Subsequent MgO flotation was able to slightly increase the MgO grade, but at an unacceptably high loss of recovery.

Based on these results, each sample underwent bulk flotation to remove the quartz, yielding a magnesite product for further processing. These results are shown in Table 4:

TABLE 4: SUMMARY OF BULK FLOTATION TESTS

| Composite Sample #: | Conditions | Quartz Conct.(objective: 95%SiO ₂ reject) | | | | | Magnesite Conct. (Silica tails) | | | | |
|---------------------|-----------------------|--|------------------|-------------|---------|-------------|---------------------------------|------------------|-------------|---------|-------------|
| | | Mass % | SiO ₂ | | MgO | | Mass % | SiO ₂ | | MgO | |
| | | | Grade % | Distribt. % | Grade % | Distribt. % | | Grade % | Distribt. % | Grade % | Distribt. % |
| 1 | P80=212µm, 200g/t K2C | 13.8 | 18.4 | 98.3 | 37.1 | 11.7 | 86.2 | 0.05 | 1.7 | 44.8 | 88.3 |
| 2 | P80=106µm, 300g/t K2C | 18.6 | 16.2 | 99.2 | 36.9 | 16.5 | 81.4 | 0.03 | 0.8 | 42.9 | 83.5 |

The magnesite concentrates were subjected to an ICP scan, and these results are shown in Table 5:

TABLE 5: ICP SCAN OF MAGNESITE CONCENTRATE

| Sample | Ag ppm | Al ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca ppm | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe ppm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Comp 1 | <3 | <100 | <10 | <5 | <2 | <20 | 16777 | <2 | <5 | <10 | <5 | 4796 |
| Comp 2 | <3 | <100 | <10 | <5 | <2 | <20 | 20606 | <2 | <5 | 16 | <5 | 20808 |

| Sample | Hf ppm | K ppm | Li ppm | Mg ppm | Mn ppm | Mo ppm | Na ppm | Nb ppm | Ni ppm | P ppm | Pb ppm | S ppm |
|--------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|
| Comp 1 | <20 | <500 | <2 | 272038 | 427 | <10 | <50 | <10 | <10 | <30 | <20 | 51 |
| Comp 2 | <20 | <500 | <2 | 262626 | 889 | <10 | <50 | <10 | 19 | <30 | <20 | 47 |

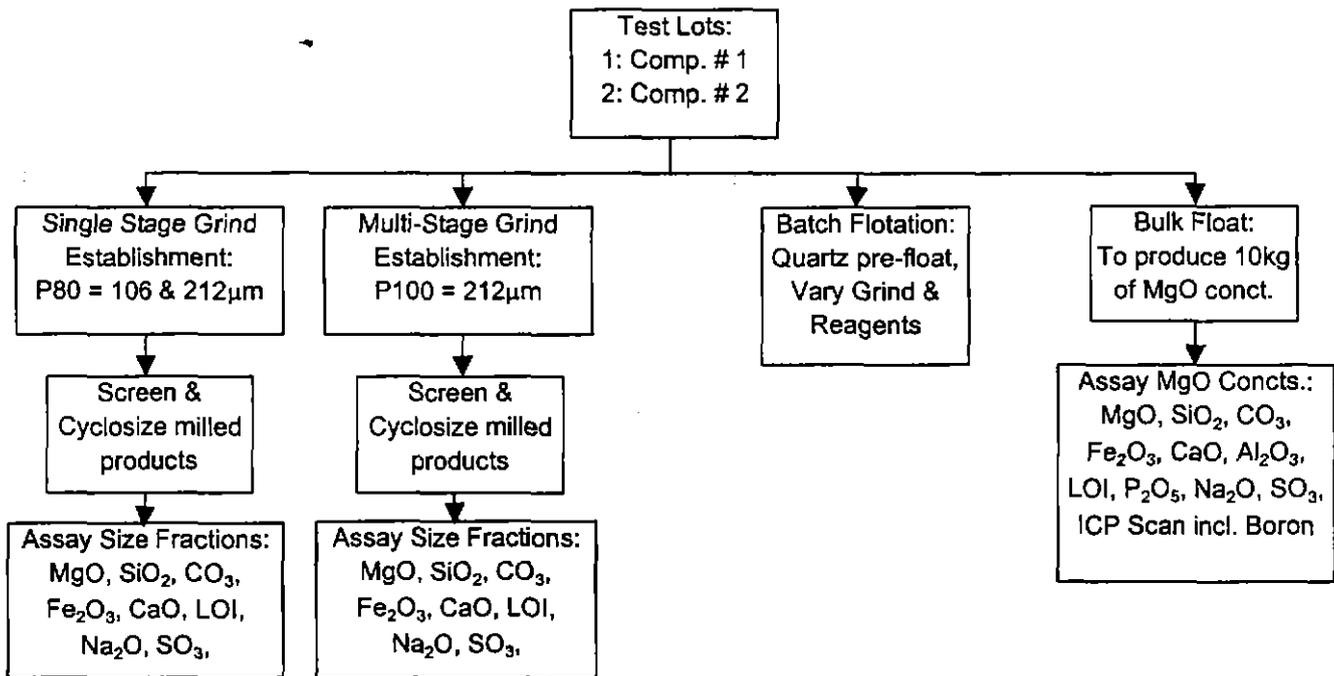
| Sample | Sb ppm | Sc ppm | Se ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti ppm | U ppm | V ppm | Y ppm | Zn ppm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|
| Comp 1 | <10 | <2 | <10 | 12 | <20 | <10 | <10 | 42 | <100 | <2 | <2 | 32 |
| Comp 2 | <10 | <2 | <10 | 17 | <20 | <10 | <10 | 14 | <100 | 2 | <2 | 58 |

| Sample | P2O5 % | Na2O % | SO3 % | CO3 % | Zr ppm | B ppm |
|--------|-----------|-----------|----------|----------|-----------|----------|
| Comp 1 | <0.01 | <0.05 | 0.03 | 72 | 9 | <20 |
| Comp 2 | <0.01 | <0.05 | 0.03 | 67.5 | <5 | <20 |

1 INTRODUCTION

Mr Andrew Firek, representing Golden Triangle Resources, requested Orestest Pty Ltd to perform a number of flotation tests on two samples of magnesite ore from Main Creek, Tasmania. The testwork programme is shown in Figure 3:

FIGURE 3: TESTWORK PROGRAMME



The aim of the testwork was to produce magnesite concentrates for further processing.

All assays were conducted by Analabs of Welshpool, Western Australia using the following methods:

- MgO, SiO₂, Fe₂O₃, LOI, P₂O₅, Na₂O, SO₃ – in solids - XRF
- CO₃ in solids - Leco Combustion
- ICP Scan - ICP – AES
- Boron in solids - Sodium Peroxide / ICP-AES

Mineralogical examination was carried out by Dr. Natalia Streltsova of Orestest.

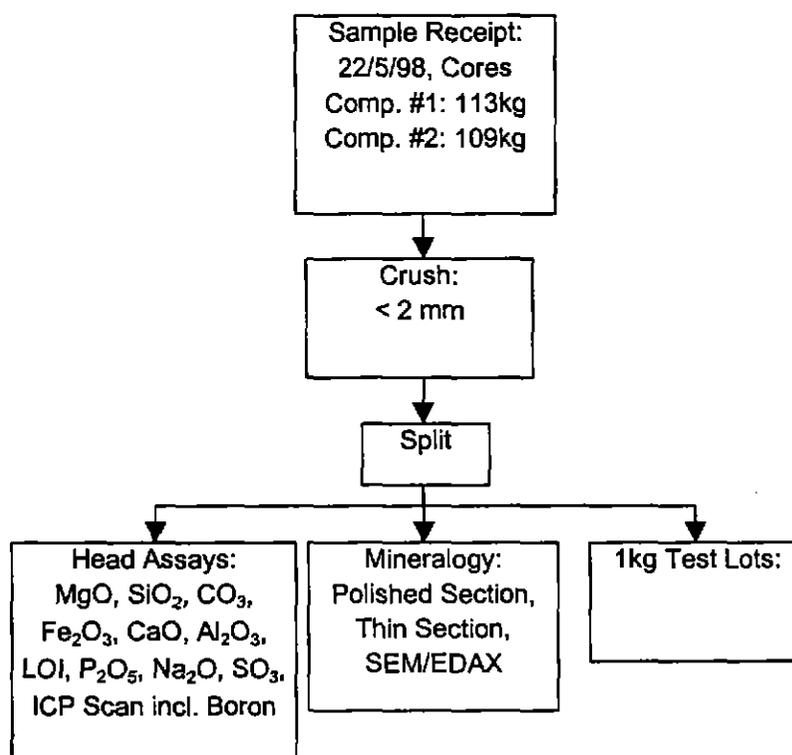
Sample preparation of solid samples was conducted at Oretest's laboratory sample preparation facility.

All tests were conducted in Perth tap water.

2 SAMPLES / SAMPLE PREPARATION

Two core samples, with a mass of approximately 100kg each, were delivered to Oretest on 22 May 1998. The samples were prepared according to the flowsheet shown in Figure 4:

FIGURE 4: SAMPLE PREPARATION



2.1 HEAD ASSAYS

The head assays and ICP scan of the two samples are shown in Tables 6 and 7 respectively:

At 30 June 1995, mining leases covered 128 sq km, or 0.2 per cent of the State, and the following exploration licenses (EL) and retention licenses (RL) were either pending or granted:

| <i>Lease Type</i> | <i>Area (Km²)</i> | <i>% of State</i> |
|------------------------|------------------------------|-------------------|
| Metallic EL and RL | 8,153 | 12 |
| Non-metallic EL and RL | 713 | 1 |
| On-shore petroleum EL | 3,478 | 5 |

During 1994-95, 15 Exploration Tender Areas were offered, and the resulting successful companies were given Exploration Licences. Companies submitted 157 exploration reports. These were indexed on the TASXPLORE database and incorporated into the division's collection, which totalled 4,467 reports at 30 June 1995. The reports are a valuable component to the geological and mineral knowledge of Tasmania. Microfilming of reports continued, and microfiche of all open-file reports are available.

Section Reports

Tasmanian Geological Survey

The Tasmanian Geological Survey is responsible for:

- Resource investigations and promotions;
- Engineering geology and groundwater;
- Geophysical services;
- Analytical services; and
- Petrology and mineralogy.

To achieve the objectives of this Section, the following activities are undertaken,

- Carrying out assessment of the earth resource potential of Tasmania.
- Provide advice and direct support to Government, industry and the general public on all geoscientific matters.
- Devise and implement projects and strategies to assist the development of mineral exploration and other industries in Tasmania.
- Collect, integrate, interpret, publish and present information on the geology, geophysics, geochemistry, earth resources and land stability of Tasmania.
- Promote and market the mineral resource potential of Tasmania.
- Regulate and monitor the progress of mineral exploration in Tasmania.
- Provide a repository and archival services for valuable geoscientific data, drill core, rock and mineral specimens.
- Provide essential support services for Section activities.

To achieve the outcomes of increased and more effective mineral investment in Tasmania, the Geological Survey is led so as to ensure :

TABLE 6 : HEAD ASSAYS

| Sample | MgO % | SiO ₂ % | Fe ₂ O ₃ % | CaO % | Al ₂ O ₃ % | LOI % | P ₂ O ₅ % | Na ₂ O % | SO ₃ % |
|---------|----------|-----------------------|-------------------------------------|----------|-------------------------------------|----------|------------------------------------|------------------------|----------------------|
| Comp. 1 | 43.9 | 2.82 | 0.80 | 2.32 | <0.05 | 50.1 | <0.01 | 0.10 | 0.06 |
| Comp. 2 | 42.0 | 3.03 | 3.31 | 2.80 | <0.05 | 49.0 | <0.01 | 0.09 | 0.06 |

TABLE 7 : ICP

| Sample | Ag ppm | Al ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca ppm | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe ppm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Comp 1 | <3 | <100 | <10 | <5 | <2 | <20 | 15486 | <2 | <5 | <10 | 11 | 4970 |
| Comp 2 | <3 | <100 | <10 | <5 | <2 | <20 | 18747 | <2 | <5 | <10 | 6 | 20406 |

| Sample | Hf ppm | K ppm | Li ppm | Mg ppm | Mn ppm | Mo ppm | Na ppm | Nb ppm | Ni ppm | P ppm | Pb ppm | S ppm |
|--------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|
| Comp 1 | <20 | <500 | <2 | 294904 | 412 | <10 | <50 | <10 | <10 | <30 | <20 | 168 |
| Comp 2 | <20 | <500 | <2 | 278128 | 850 | <10 | <50 | <10 | <10 | <30 | <20 | 199 |

| Sample | Sb ppm | Sc ppm | Se ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti ppm | U ppm | V ppm | Y ppm | Zn ppm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|
| Comp 1 | <10 | <2 | <10 | 11 | <20 | <10 | <10 | <10 | <100 | <2 | <2 | 25 |
| Comp 2 | <10 | <2 | <10 | 15 | <20 | <10 | <10 | <10 | <100 | <2 | <2 | 50 |

| Sample | P ₂ O ₅ % | Na ₂ O % | SO ₃ % | CO ₃ % | Zr ppm | B ppm |
|--------|------------------------------------|------------------------|----------------------|----------------------|-----------|----------|
| Comp 1 | <0.01 | 0.10 | 0.06 | 71.9 | <5 | <20 |
| Comp 2 | <0.02 | 0.09 | 0.06 | 68.0 | <5 | <20 |

2.2 MINERALOGY

The detailed mineralogical report is shown in Appendix 1. In summary, the following comments can be made:

- The major minerals in composite #1 are magnesite and dolomite.

- The major minerals in composite #2 are magnesite, dolomite and talc.
- Small quantities of quartz and pyrite were observed in both samples.
- The magnesite grains, in composite #1 are composed of smaller, rounded particles of 10 to 30µm diameter. This could be the reason for the production of fines during crushing and milling.
- The minerals in composite #2 are not as massive as those in composite #1.
- The magnesite grains observed in composite #2 have a variable composition, some containing iron-rich areas.

3 TESTWORK PROCEDURES AND RESULTS

3.1 PROCEDURES

The following standard procedures were utilised:

- Grind Establishment
- Screening and Size Assaying
- Batch Flotation

These procedures are presented in detail in Appendix 2.

3.2 RESULTS AND DISCUSSION

3.2.1 Grind Establishment

The two samples were extremely soft, returning milling times of approximately three minutes to achieve a P80 of 106 μ m. The mill rod inventory was reduced from 15 to 5 and the grind establishment repeated. The required milling times required to achieve a P80 of 106 and 212 μ m are shown in Table 8, while the detailed test data is shown in Tables 12 and 13 in Section 4.

TABLE 8: GRIND ESTABLISHMENT

| Composite # | Milling Times (mins) | |
|-------------|----------------------|-------------------|
| | P80 = 106 μ m | P80 = 212 μ m |
| 1 | 21.5 | 16.5 |
| 2 | 40.0 | 30.0 |

These results are indicative of extremely soft ores.

3.2.2 Size Analyses

Each sample was milled to a P80 of 106 and 212 μ m, and also stage milled to a P100 of 212 μ m. The products were screened and cyclosized, and the size fractions assayed. The detailed results may be found in Tables 14 to 19 in Section 4, while a graphical comparison may be found in Figures 5 and 6.

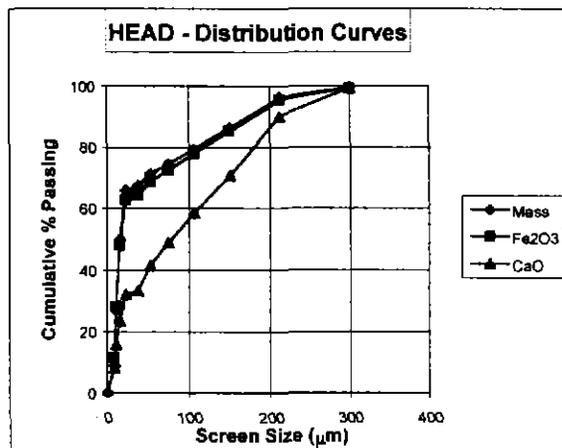
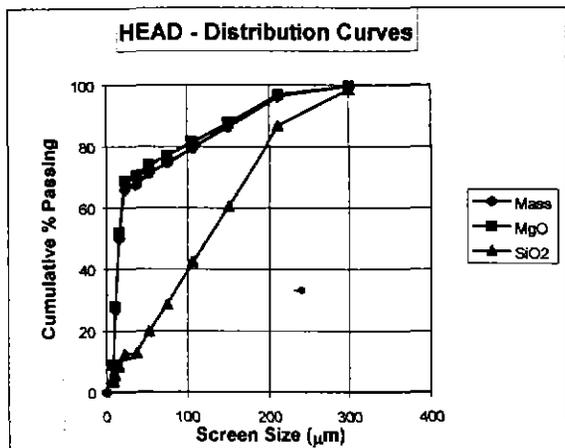
The following comments can be made about these results:

Composite #1:

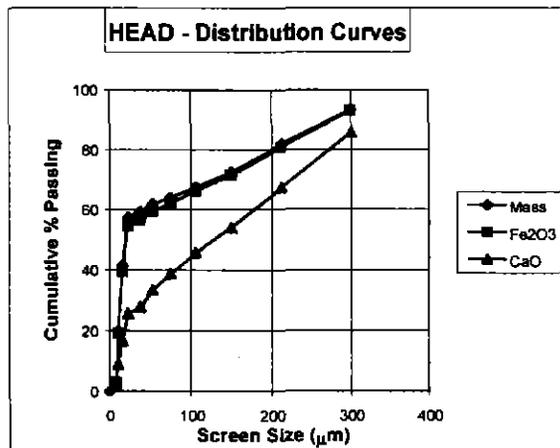
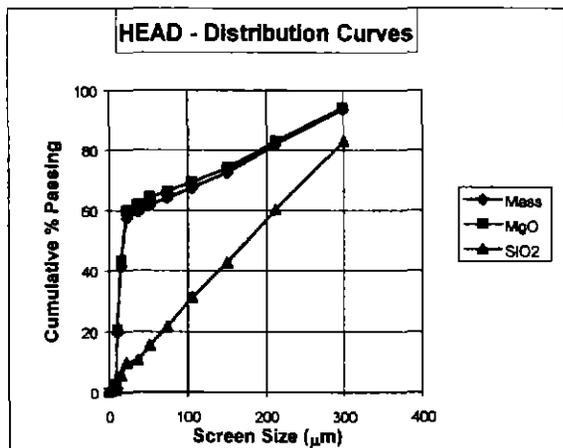
- This material readily breaks down to a size finer than 23 μ m. This is in agreement with the findings of the mineralogical examination.
- The MgO and Fe₂O₃ distributions closely follow the mass distribution, while the SiO₂ and CaO are concentrated in the coarser fractions.

FIGURE 5: SIZE ANALYSES FOR COMPOSITE 1

Milled to a P80 of 106 μ m.



Milled to a P80 of 212 μ m.



Milled to a P100 of 212 μ m.

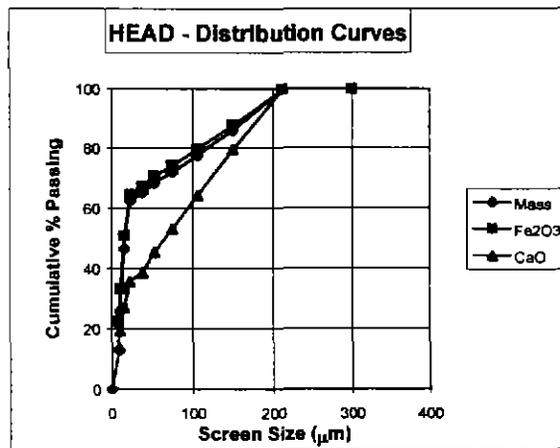
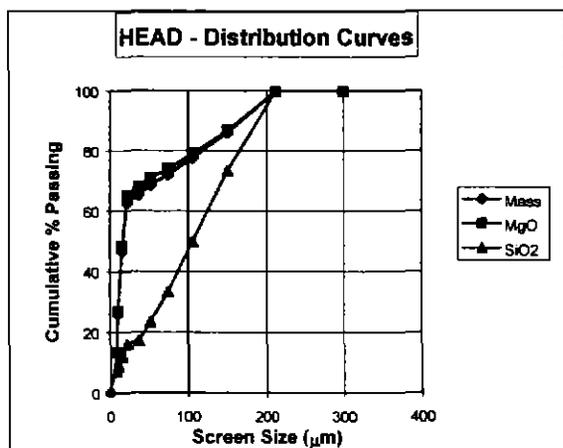
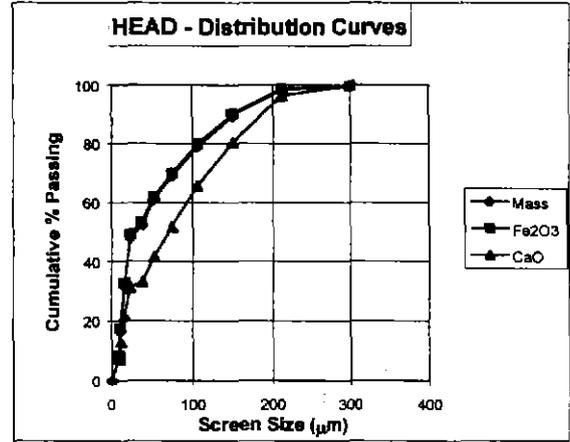
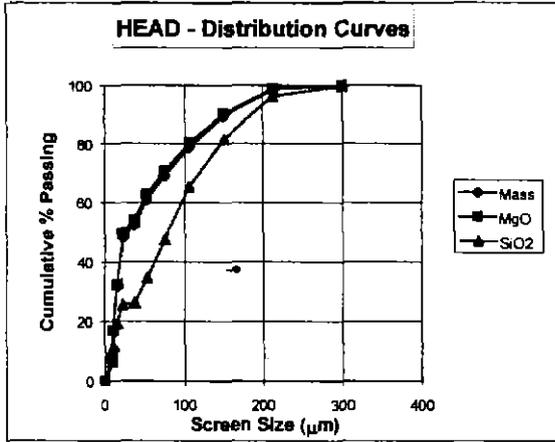
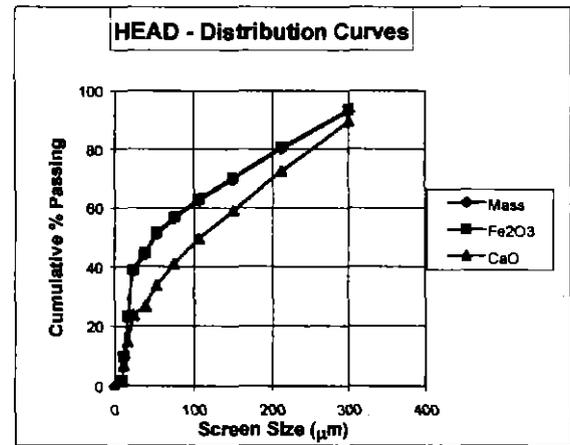
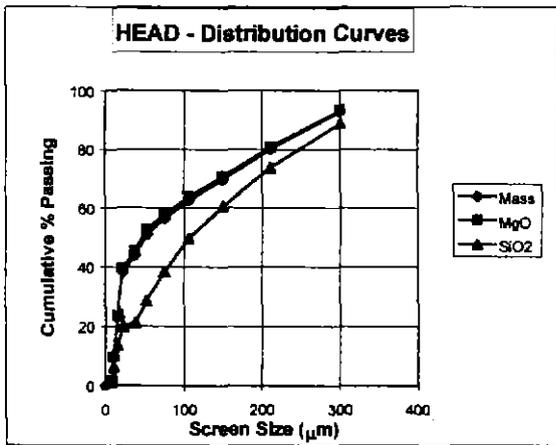


FIGURE 6: SIZE ANALYSES FOR COMPOSITE 2

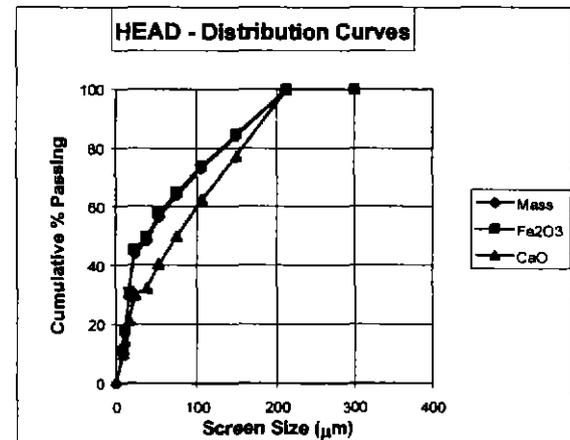
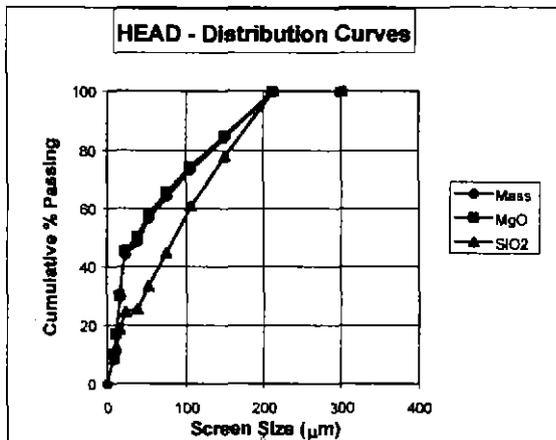
Milled to a P80 of 106 μ m.



Milled to a P80 of 212 μ m.



Milled to a P100 of 212 μ m.



- The production of slimes is deleterious to flotation, and should therefore be avoided. Of the three grinds investigated, milling in a single stage to a P80 of 212µm produced the least slime.

Composite #2

- The mass distribution of the milled material is more evenly distributed than in Composite #1, but with a slight bias towards the fine (<23µm) and coarse (>75µm) fractions.
- The MgO and Fe₂O₃ distributions closely follow the mass distribution, while the SiO₂ and CaO are concentrated in the coarser fractions.
- Single stage milling to a P80 of 212µm produced the least slime of the three grinds investigated.

3.2.3 Batch Flotation

The detailed test data may be found in Tables 20 to 33 in Section 4, while the results are summarised in Table 9 below:

TABLE 9: SUMMARY OF FLOTATION RESULTS

| Test No. RB- | Conditions | Quartz Conct.(objective: 95%SiO ₂ reject) | | | | | Magnesite Conct. (Silica tails) | | | | |
|---------------|---|--|------------------|-------------|---------|-------------|---------------------------------|------------------|-------------|---------|-------------|
| | | Mass % | SiO ₂ | | MgO | | Mass % | SiO ₂ | | MgO | |
| | | | Grade % | Distribt. % | Grade % | Distribt. % | | Grade % | Distribt. % | Grade % | Distribt. % |
| Composite # 1 | | | | | | | | | | | |
| 2041 | P80=106µm, 600g/t K2C, 210g/t Starch, 600g/t FS2 | 38.5 | 7.8 | 97.6 | 41.9 | 37.3 | 61.5 | 0.12 | 2.4 | 44.2 | 62.7 |
| 2042 | P80=212µm, 450g/t K2C, 210g/t Starch, 600g/t FS2 | 23.4 | 11.2 | 94.1 | 41.1 | 22.0 | 76.6 | 0.21 | 5.9 | 44.6 | 78.0 |
| 2046 | P80=212µm, 450g/t K2C, 300g/t Starch, 800g/t FS2 | 36.0 | 7.0 | 93.7 | 42.8 | 35.0 | 64.0 | 0.26 | 6.3 | 44.6 | 65.0 |
| 2047 | P80=212µm, 400g/t K2C, 300g/t Starch, 1000g/t HAL519 | 7.6 | 35.1 | 94.9 | 28.9 | 5.0 | 92.4 | 0.15 | 5.1 | 45.3 | 95.0 |
| 2048 | P80=212µm, 450g/t K2C, 50g/t Quebr., 900g/t HAL519, 100g/t Sod Sil. | 44.9 | 5.4 | 92.0 | 43.2 | 44.2 | 55.1 | 0.39 | 8.0 | 44.5 | 55.8 |
| 2059 | P80=212µm, 200g/t K2C, 750g/t FS2, 100g/t Sod Sil. | 22.5 | 12.2 | 96.2 | 39.9 | 20.7 | 77.5 | 0.14 | 3.8 | 44.6 | 79.3 |
| 2063 | Rept. 2047 | 21.1 | 12.5 | 93.6 | 39.8 | 19.3 | 78.9 | 0.23 | 6.4 | 44.5 | 80.7 |
| Composite # 2 | | | | | | | | | | | |
| 2043 | P80=106µm, 450g/t K2C, 210g/t Starch, 800g/t FS2 | 31.6 | 8.7 | 92.2 | 40.2 | 30.4 | 68.4 | 0.34 | 7.8 | 42.6 | 69.6 |
| 2044 | P80=212µm, 450g/t K2C, 210g/t Starch, 800g/t FS2 | 26.0 | 11.3 | 95.7 | 39.2 | 24.4 | 74.0 | 0.18 | 4.3 | 42.5 | 75.6 |
| 2049 | P80=212µm, 450g/t K2C, 300g/t Starch, 800g/t FS2 | 24.1 | 10.1 | 84.1 | 39.5 | 22.9 | 75.9 | 0.61 | 15.9 | 42.2 | 77.1 |
| 2050 | P80=212µm, 400g/t K2C, 300g/t Starch, 800g/t HAL519 | 15.9 | 15.8 | 83.3 | 37.2 | 14.2 | 84.1 | 0.60 | 16.7 | 42.6 | 85.8 |
| 2051 | P80=212µm, 450g/t K2C, 50g/t Quebr., 900g/t HAL519, 100g/t Sod Sil. | 39.0 | 7.1 | 93.1 | 40.6 | 37.9 | 61.0 | 0.34 | 6.9 | 42.6 | 62.1 |
| 2060 | P80=212µm, 450g/t K2C, 750g/t FS2, 100g/t Sod Sil. | 9.1 | 28.8 | 87.7 | 31.8 | 6.9 | 90.9 | 0.00 | 12.3 | 42.7 | 93.1 |
| 2062 | P80=106µm, 300g/t K2C, 750g/t FS2, 100g/t Sod Sil. | 11.1 | 26.2 | 97.4 | 32.4 | 8.6 | 88.9 | 0.09 | 2.6 | 42.8 | 91.4 |

The following comments can be made about these results:

- The SiO₂ may be successfully separated from the magnesite during the quartz flotation stage.
- Attempts to further increase the grade of MgO were not successful, a slight increase in grade only being achieved at the cost of a large loss of recovery.

3.2.4 Bulk Flotation

The bulk MgO concentrates, required for further testwork, were obtained by repeating the selected batch floats until approximately 10kg of MgO concentrate was produced for each composite sample. The detailed test data is shown in Table 34 and 35 of Section 4, while a summary of the results obtained is shown in Table 10:

TABLE 10: SUMMARY OF BULK FLOTATION TESTS

| Composite Sample #: | Conditions | Quartz Conct. (objective: 95%SiO ₂ reject) | | | | | Magnesite Conct. (Silica tails) | | | | |
|---------------------|-----------------------|---|------------------|-------------|---------|-------------|---------------------------------|------------------|-------------|---------|-------------|
| | | Mass % | SiO ₂ | | MgO | | Mass % | SiO ₂ | | MgO | |
| | | | Grade % | Distribt. % | Grade % | Distribt. % | | Grade % | Distribt. % | Grade % | Distribt. % |
| 1 | P80=212µm, 200g/t K2C | 13.8 | 18.4 | 98.3 | 37.1 | 11.7 | 86.2 | 0.05 | 1.7 | 44.8 | 88.3 |
| 2 | P80=106µm, 300g/t K2C | 18.6 | 16.2 | 99.2 | 36.9 | 16.5 | 81.4 | 0.03 | 0.8 | 42.9 | 83.5 |

The magnesite concentrates underwent an ICP scan, yielding the results shown in Table 11:

TABLE 11: ICP SCAN OF MAGNESITE CONCENTRATE

| Sample | Ag ppm | Al ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca ppm | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe ppm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Comp 1 | <3 | <100 | <10 | <5 | <2 | <20 | 16777 | <2 | <5 | <10 | <5 | 4796 |
| Comp 2 | <3 | <100 | <10 | <5 | <2 | <20 | 20606 | <2 | <5 | 16 | <5 | 20808 |

| Sample | Hf ppm | K ppm | Li ppm | Mg ppm | Mn ppm | Mo ppm | Na ppm | Nb ppm | Ni ppm | P ppm | Pb ppm | S ppm |
|--------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|
| Comp 1 | <20 | <500 | <2 | 272038 | 427 | <10 | <50 | <10 | <10 | <30 | <20 | 51 |
| Comp 2 | <20 | <500 | <2 | 262626 | 889 | <10 | <50 | <10 | 19 | <30 | <20 | 47 |

| Sample | Sb ppm | Sc ppm | Se ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti ppm | U ppm | V ppm | Y ppm | Zn ppm |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|
| Comp 1 | <10 | <2 | <10 | 12 | <20 | <10 | <10 | 42 | <100 | <2 | <2 | 32 |
| Comp 2 | <10 | <2 | <10 | 17 | <20 | <10 | <10 | 14 | <100 | 2 | <2 | 58 |

| Sample | P2O5 % | Na2O % | SO3 % | CO3 % | Zr ppm | B ppm |
|--------|-----------|-----------|----------|----------|-----------|----------|
| Comp 1 | <0.01 | <0.05 | 0.03 | 72 | 9 | <20 |
| Comp 2 | <0.01 | <0.05 | 0.03 | 67.5 | <5 | <20 |

3.3 COMMENTS AND CONCLUSIONS

The following comments can be made about the testwork performed:

- The two composite samples are extremely soft, and care needs to be taken to prevent overgrinding.
- Screening of the milled products reveals that the MgO and Fe₂O₃ distributions closely follow the mass distribution, while the SiO₂ and CaO are biased in favour of the coarser fractions.
- The major contaminants are SiO₂, CaO and Fe₂O₃.
- The SiO₂ can be successfully removed during flotation, however the close association of the dolomite and magnesite, and the fact that the iron is a component of the magnesite, means that the production of a magnesite concentrate low in CaO and Fe₂O₃ is unlikely.

4 DETAILED TEST DATA

- Tables 12-13: Grind Establishment**
- Tables 14-17: Single Stage Milling and Screening**
- Tables 18-19: Multi-Stage Milling and Screening**
- Tables 20-33: Batch Flotation Tests**
- Tables 34-35: Bulk Flotation Tests**

Table 12 Grind Establishment Results

| | | | |
|--------|-----------------|----------------------------|---------|
| Client | Golden Triangle | Laboratory Rod Mill | |
| Job No | 7740 | Charge Wt, g | 1000 |
| Sample | Comp. #2 | No of rods | 5 |
| Date | 26/05/98 | % solids | 50 |
| | | Mill | Flot #2 |

| Time/mins. | 30 | | 45 | |
|------------------------|-------------------|----------------|-------------------|----------------|
| Screen Size microns | Wt. Retained g | Cum Passing | Wt. Retained g | Cum Passing |
| 212 | 196.30 | 80.4% | 3.00 | 99.7% |
| 150 | 105.9 | 69.8% | 23.2 | 97.4% |
| 106 | 69.6 | 62.8% | 90.6 | 88.3% |
| -106 | 628.2 | | 883.2 | |
| Total | 1000.0 | | 1000.0 | |

| Time mins | 212 microns | 106 microns |
|--------------|----------------|----------------|
| 30 | 80.4% | 62.8% |
| 45 | 99.7% | 88.3% |

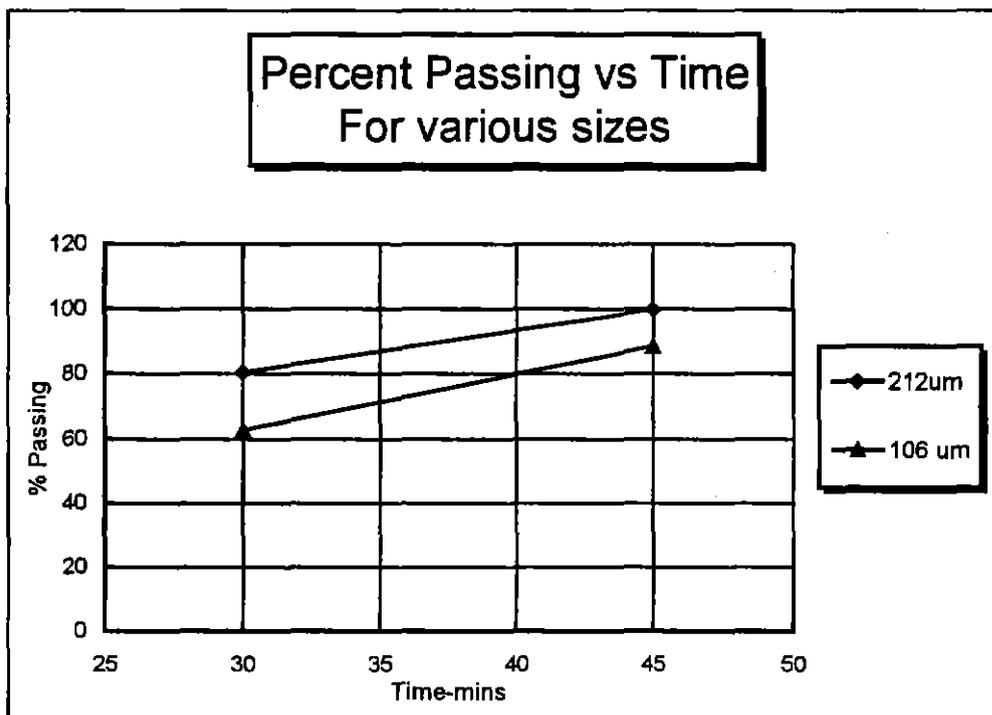


Table 13 Grind Establishment Results

| | | | |
|--------|-----------------|----------------------------|---------|
| Client | Golden Triangle | Laboratory Rod Mill | |
| Job No | 7740 | Charge Wt, g | 1000 |
| Sample | Comp. #1 | No of rods | 5 |
| Date | 26/05/98 | % solids | 50 |
| | | Mill | Flot #2 |

| Time/mins. | 10 | | 22 | |
|------------------------|-------------------|----------------|-------------------|----------------|
| Screen Size microns | Wt. Retained g | Cum Passing | Wt. Retained g | Cum Passing |
| 212 | 419.30 | 58.1% | 25.20 | 97.5% |
| 150 | 49.9 | 53.1% | 84.9 | 89.0% |
| 106 | 30.7 | 50.0% | 72.6 | 81.7% |
| -106 | 500.1 | | 817.3 | |
| Total | 1000.0 | | 1000.0 | |

| Time mins | 212 microns | 106 microns |
|--------------|----------------|----------------|
| 10 | 58.1% | 50.0% |
| 22 | 97.5% | 81.7% |

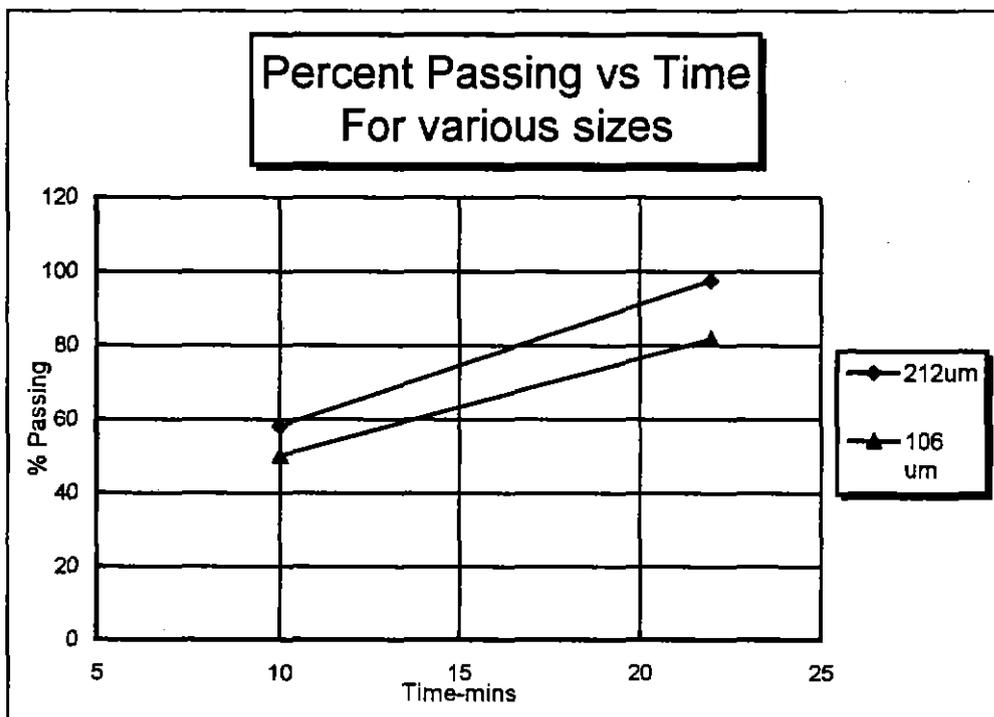


TABLE 14A

| | |
|---------------------|-------------------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #1: Milled to P80 = 106µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 5/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | MgO | | Cum. % | Cum. % | SiO ₂ | | Cum. % | Cum. % | Al ₂ O ₃ |
|-----------|--------|-------|---------------|----------|-----------|----------|---------------|-------------|------------------|----------|---------------|--------------------------|--------------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | Passing Grade | MgO Passing | Assay (%) | Dist (%) | Passing Grade | SiO ₂ Passing | Assay % |
| 300 | 3 | 0.3 | 99.7 | 0.3 | 36.1 | 0.2 | 43.6 | 99.8 | 13.0 | 1.3 | 2.8 | 98.7 | 0.14 |
| 212 | 34 | 3.4 | 96.4 | 3.6 | 37.0 | 2.8 | 43.8 | 96.9 | 9.9 | 11.9 | 2.5 | 86.9 | <0.05 |
| 150 | 99 | 9.9 | 86.5 | 13.5 | 39.8 | 9.0 | 44.3 | 87.9 | 7.5 | 26.3 | 2.0 | 60.5 | <0.05 |
| 106 | 71 | 7.1 | 79.4 | 20.6 | 40.1 | 6.5 | 44.7 | 81.4 | 7.2 | 18.2 | 1.5 | 42.3 | <0.05 |
| 75 | 49 | 4.9 | 74.6 | 25.4 | 39.5 | 4.4 | 45.0 | 77.0 | 7.8 | 13.6 | 1.1 | 28.7 | <0.05 |
| 53 | 32 | 3.2 | 71.3 | 28.7 | 40.0 | 3.0 | 45.2 | 74.0 | 7.6 | 8.8 | 0.8 | 19.9 | <0.05 |
| 38 | 38 | 3.8 | 67.5 | 32.5 | 41.3 | 3.6 | 45.4 | 70.4 | 5.1 | 7.0 | 0.5 | 12.9 | <0.05 |
| 23 | 16 | 1.6 | 66.0 | 34.0 | 45.3 | 1.6 | 45.4 | 68.8 | 0.8 | 0.4 | 0.5 | 12.5 | <0.05 |
| 16 | 160 | 16.0 | 50.0 | 50.0 | 46.2 | 16.9 | 45.2 | 51.9 | 0.7 | 3.9 | 0.5 | 8.6 | <0.05 |
| 11 | 229 | 22.9 | 27.1 | 72.9 | 45.6 | 24.0 | 44.9 | 27.9 | 0.4 | 2.9 | 0.6 | 5.6 | <0.05 |
| 9 | 182 | 18.2 | 8.90 | 91.1 | 45.5 | 18.9 | 43.7 | 8.92 | 0.3 | 2.2 | 1.1 | 3.4 | <0.05 |
| 0 | 89 | 8.9 | 0.00 | 100.0 | 43.7 | 8.92 | | | 1.1 | 3.4 | | | 0.10 |
| Total | 1,000 | 100.0 | | | 43.6 | 100.0 | | | 2.8 | 100.0 | | | |
| Heads | | 100.0 | | | 43.9 | | | | 2.82 | | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Fe ₂ O ₃ | | Cum. % | Cum. % | CaO | | Cum. % | Cum. % | P ₂ O ₅ |
|-----------|--------|-------|---------------|----------|--------------------------------|----------|---------------|--|-----------|----------|---------------|-------------|-------------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | Passing Grade | Fe ₂ O ₃ Passing | Assay (%) | Dist (%) | Passing Grade | CaO Passing | Assay % |
| 300 | 3 | 0.3 | 99.7 | 0.3 | 1.67 | 0.6 | 0.76 | 99.4 | 5.1 | 0.6 | 2.20 | 99.4 | <0.01 |
| 212 | 34 | 3.4 | 96.4 | 3.6 | 0.88 | 3.9 | 0.76 | 95.6 | 6.07 | 9.2 | 2.07 | 90.2 | <0.01 |
| 150 | 99 | 9.9 | 86.5 | 13.5 | 0.79 | 10.2 | 0.75 | 85.3 | 4.3 | 19.2 | 1.81 | 70.9 | <0.01 |
| 106 | 71 | 7.1 | 79.4 | 20.6 | 0.80 | 7.4 | 0.75 | 78.0 | 3.88 | 12.4 | 1.63 | 58.5 | <0.01 |
| 75 | 49 | 4.9 | 74.6 | 25.4 | 0.85 | 5.4 | 0.74 | 72.6 | 4.35 | 9.6 | 1.45 | 48.9 | <0.01 |
| 53 | 32 | 3.2 | 71.3 | 28.7 | 0.88 | 3.7 | 0.74 | 68.8 | 5.02 | 7.3 | 1.29 | 41.6 | <0.01 |
| 38 | 38 | 3.8 | 67.5 | 32.5 | 0.88 | 4.4 | 0.73 | 64.4 | 4.69 | 8.1 | 1.09 | 33.5 | <0.01 |
| 23 | 16 | 1.6 | 66.0 | 34.0 | 0.82 | 1.7 | 0.73 | 62.8 | 2.03 | 1.4 | 1.07 | 32.0 | <0.01 |
| 16 | 160 | 16.0 | 50.0 | 50.0 | 0.71 | 14.9 | 0.73 | 47.9 | 1.16 | 8.4 | 1.04 | 23.6 | <0.01 |
| 11 | 229 | 22.9 | 27.1 | 72.9 | 0.66 | 19.8 | 0.80 | 28.1 | 0.74 | 7.7 | 1.30 | 16.0 | <0.01 |
| 9 | 182 | 18.2 | 8.9 | 91.1 | 0.70 | 16.6 | 0.99 | 11.5 | 0.94 | 7.7 | 2.04 | 8.2 | <0.01 |
| 0 | 89 | 8.9 | 0.0 | 100.0 | 0.99 | 11.5 | | | 2.04 | 8.2 | | | <0.01 |
| Total | 1,000 | 100.0 | | | 0.76 | 100.0 | | | 2.21 | 100.0 | | | |
| Heads | | 100.0 | | | 0.80 | | | | 2.3 | | | | |

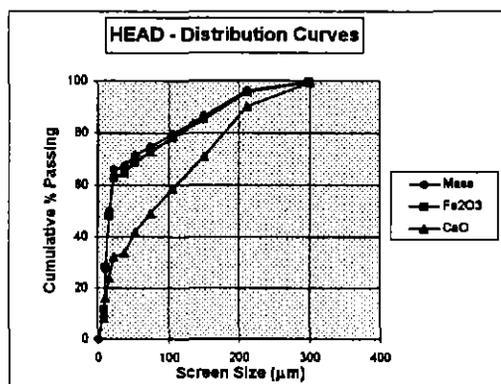
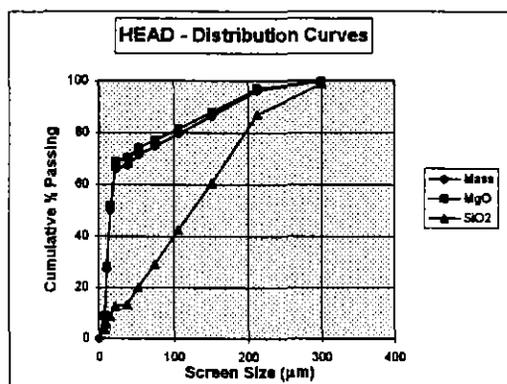


TABLE 14B

| | |
|---------------------|-------------------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #1: Milled to P80 = 106µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 5/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Na ₂ O | | Cum % Passing Grade | Cum. % Na ₂ O Passing | SO ₃ | | Cum % Passing Grade | Cum. % SO ₃ Passing |
|-----------|--------|-------|---------------|----------|-------------------|----------|---------------------|----------------------------------|-----------------|----------|---------------------|--------------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (%) | Dist (%) | | |
| 300 | 3 | 0.3 | 99.7 | 0.3 | 0.14 | 0.4 | 0.10 | 99.6 | 0.12 | 0.5 | 0.06 | 99.5 |
| 212 | 34 | 3.4 | 96.4 | 3.6 | 0.11 | 3.6 | 0.10 | 96.0 | 0.07 | 3.8 | 0.06 | 95.6 |
| 150 | 99 | 9.9 | 86.5 | 13.5 | 0.10 | 9.7 | 0.10 | 86.3 | 0.07 | 11.4 | 0.06 | 84.3 |
| 106 | 71 | 7.1 | 79.4 | 20.6 | 0.10 | 7.0 | 0.10 | 79.3 | 0.10 | 11.6 | 0.06 | 72.7 |
| 75 | 49 | 4.9 | 74.6 | 25.4 | 0.11 | 5.3 | 0.10 | 74.1 | 0.18 | 14.4 | 0.05 | 58.3 |
| 53 | 32 | 3.2 | 71.3 | 28.7 | 0.11 | 3.5 | 0.10 | 70.6 | 0.23 | 12.2 | 0.04 | 46.1 |
| 38 | 38 | 3.8 | 67.5 | 32.5 | 0.11 | 4.1 | 0.10 | 66.4 | 0.18 | 11.3 | 0.03 | 34.8 |
| 23 | 16 | 1.6 | 66.0 | 34.0 | 0.10 | 1.5 | 0.10 | 64.9 | 0.07 | 1.8 | 0.03 | 33.0 |
| 16 | 160 | 16.0 | 50.0 | 50.0 | 0.10 | 15.7 | 0.10 | 49.1 | 0.03 | 7.9 | 0.03 | 25.2 |
| 11 | 229 | 22.9 | 27.1 | 72.9 | 0.08 | 18.0 | 0.12 | 31.1 | 0.02 | 7.5 | 0.04 | 17.6 |
| 9 | 182 | 18.2 | 8.90 | 91.1 | 0.12 | 21.4 | 0.11 | 9.64 | 0.02 | 6.0 | 0.08 | 11.7 |
| 0 | 89 | 8.9 | 0.00 | 100.0 | 0.11 | 9.64 | | | 0.08 | 11.7 | | |
| Total | 1,000 | 100.0 | | | 0.10 | 100.0 | | | 0.06 | 100.0 | | |
| Heads | | 100.0 | | | 0.1 | | | | 0.06 | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | LOI | | Cum % Passing Grade | Cum. % LOI Passing | CO ₂ | | Cum % Passing Grade | Cum. % CO ₂ Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|---------------------|--------------------|-----------------|----------|---------------------|--------------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (%) | Dist (%) | | |
| 300 | 3 | 0.3 | 99.7 | 0.3 | 45.0 | 0.2 | 50.06 | 99.8 | 65.0 | 0.3 | 67.87 | 99.7 |
| 212 | 34 | 3.4 | 96.4 | 3.6 | 45.6 | 3.1 | 50.22 | 96.7 | 63.0 | 3.1 | 68.04 | 96.6 |
| 150 | 99 | 9.9 | 86.5 | 13.5 | 47.3 | 9.3 | 50.55 | 87.4 | 63.3 | 9.2 | 68.58 | 87.4 |
| 106 | 71 | 7.1 | 79.4 | 20.6 | 47.4 | 6.7 | 50.83 | 80.7 | 65.9 | 6.9 | 68.82 | 80.6 |
| 75 | 49 | 4.9 | 74.6 | 25.4 | 46.9 | 4.6 | 51.09 | 76.1 | 66.7 | 4.8 | 68.96 | 75.8 |
| 53 | 32 | 3.2 | 71.3 | 28.7 | 46.9 | 3.0 | 51.27 | 73.1 | 61.7 | 2.9 | 69.28 | 72.8 |
| 38 | 38 | 3.8 | 67.5 | 32.5 | 48.2 | 3.7 | 51.45 | 69.4 | 67.8 | 3.8 | 69.37 | 69.0 |
| 23 | 16 | 1.6 | 66.0 | 34.0 | 49.0 | 1.5 | 51.50 | 67.9 | 69.0 | 1.6 | 69.38 | 67.4 |
| 16 | 160 | 16.0 | 50.0 | 50.0 | 51.4 | 16.4 | 51.55 | 51.5 | 69.7 | 16.4 | 69.27 | 51.0 |
| 11 | 229 | 22.9 | 27.1 | 72.9 | 51.7 | 23.6 | 51.47 | 27.8 | 68.1 | 23.0 | 70.27 | 28.0 |
| 9 | 182 | 18.2 | 8.9 | 91.1 | 51.7 | 18.7 | 51.07 | 9.1 | 70.3 | 18.8 | 70.20 | 9.2 |
| 0 | 89 | 8.9 | 0.0 | 100.0 | 51.1 | 9.1 | | | 70.2 | 9.2 | | |
| Total | 1,000 | 100.0 | | | 50.0 | 100.0 | | | 67.9 | 100.0 | | |
| Heads | | 100.0 | | | 50.1 | | | | 71.9 | | | |

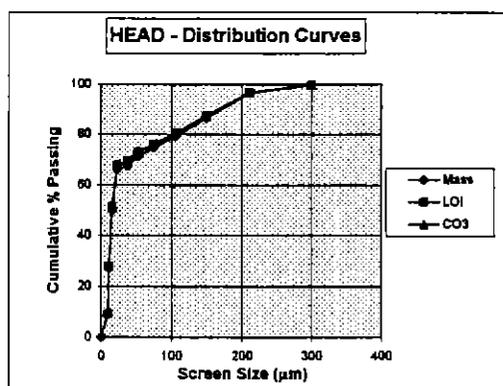
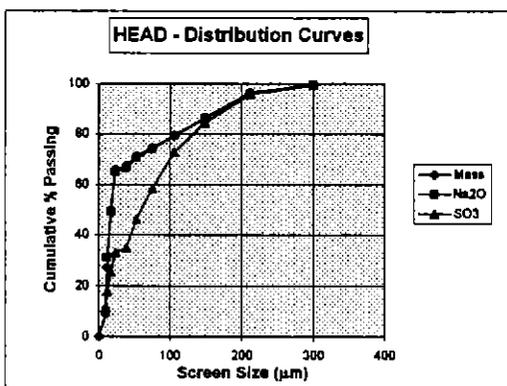


TABLE 15A

| | |
|---------------------|-------------------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #1: Milled to P80 = 212µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 5/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | MgO | | Cum. % | Cum. % | SiO ₂ | | Cum. % | Cum. % | Al ₂ O ₃ |
|-----------|--------|-------|---------------|----------|-----------|----------|---------------|-------------|------------------|----------|---------------|--------------------------|--------------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | Passing Grade | MgO Passing | Assay (ppm) | Dist (%) | Passing Grade | SiO ₂ Passing | Assay % |
| 300 | 64 | 6.4 | 93.6 | 6.4 | 39.7 | 5.7 | 44.3 | 94.3 | 7.22 | 16.9 | 2.42 | 83.1 | <0.05 |
| 212 | 117 | 11.7 | 81.9 | 18.1 | 42.1 | 11.2 | 44.6 | 83.0 | 5.30 | 22.8 | 2.00 | 60.3 | <0.05 |
| 150 | 93 | 9.3 | 72.6 | 27.4 | 41.9 | 8.9 | 44.9 | 74.2 | 5.15 | 17.6 | 1.60 | 42.7 | <0.05 |
| 106 | 52 | 5.2 | 67.5 | 32.5 | 41.1 | 4.8 | 45.2 | 69.4 | 6.06 | 11.5 | 1.26 | 31.2 | <0.05 |
| 75 | 35 | 3.4 | 64.0 | 36.0 | 39.6 | 3.1 | 45.5 | 66.3 | 7.60 | 9.6 | 0.92 | 21.6 | <0.05 |
| 53 | 22 | 2.2 | 61.8 | 38.2 | 39.8 | 2.0 | 45.7 | 64.2 | 7.45 | 6.1 | 0.68 | 15.5 | <0.05 |
| 38 | 24 | 2.4 | 59.4 | 40.6 | 40.2 | 2.2 | 45.9 | 62.0 | 5.38 | 4.8 | 0.49 | 10.7 | <0.05 |
| 23 | 20 | 2.0 | 57.3 | 42.7 | 45.2 | 2.1 | 46.0 | 59.9 | 0.97 | 0.7 | 0.47 | 10.0 | <0.05 |
| 16 | 159 | 15.9 | 41.4 | 58.6 | 46.1 | 16.7 | 45.9 | 43.3 | 0.72 | 4.2 | 0.38 | 5.8 | <0.05 |
| 11 | 215 | 21.5 | 19.9 | 80.1 | 46.4 | 22.7 | 45.3 | 20.5 | 0.36 | 2.8 | 0.40 | 2.9 | <0.05 |
| 9 | 174 | 17.4 | 2.5 | 97.5 | 45.6 | 18.0 | 43.8 | 2.5 | 0.34 | 2.2 | 0.79 | 0.7 | <0.05 |
| 0 | 25 | 2.5 | 0.0 | 100.0 | 43.8 | 2.5 | 0.0 | 0.0 | 0.79 | 0.7 | 0.00 | 0.0 | 0.05 |
| Total | 1,000 | 100.0 | | | 44.0 | 100.0 | | | 2.72 | 100.0 | | | |
| Heads | | 100.0 | | | 43.9 | | | | 2.82 | | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Fe ₂ O ₃ | | Cum. % | Cum. % | CaO | | Cum. % | Cum. % | P ₂ O ₅ |
|-----------|--------|-------|---------------|----------|--------------------------------|----------|---------------|--|-----------|----------|---------------|-------------|-------------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | Passing Grade | Fe ₂ O ₃ Passing | Assay (%) | Dist (%) | Passing Grade | CaO Passing | Assay % |
| 300 | 64 | 6.4 | 93.6 | 6.4 | 0.82 | 7.0 | 0.74 | 93.0 | 4.82 | 14.2 | 1.98 | 85.8 | <0.01 |
| 212 | 117 | 11.7 | 81.9 | 18.1 | 0.78 | 12.2 | 0.74 | 80.8 | 3.42 | 18.5 | 1.78 | 67.3 | <0.01 |
| 150 | 93 | 9.3 | 72.6 | 27.4 | 0.75 | 9.3 | 0.74 | 71.5 | 3.10 | 13.3 | 1.61 | 54.0 | <0.01 |
| 106 | 52 | 5.2 | 67.5 | 32.5 | 0.79 | 5.4 | 0.73 | 66.1 | 3.51 | 8.4 | 1.46 | 45.6 | <0.01 |
| 75 | 35 | 3.4 | 64.0 | 36.0 | 0.85 | 3.9 | 0.73 | 62.2 | 4.37 | 7.0 | 1.31 | 38.7 | <0.01 |
| 53 | 22 | 2.2 | 61.8 | 38.2 | 0.95 | 2.8 | 0.72 | 59.4 | 5.20 | 5.3 | 1.17 | 33.4 | <0.01 |
| 38 | 24 | 2.4 | 59.4 | 40.6 | 0.87 | 2.8 | 0.71 | 56.5 | 5.04 | 5.7 | 1.01 | 27.7 | <0.01 |
| 23 | 20 | 2.0 | 57.3 | 42.7 | 0.82 | 2.2 | 0.71 | 54.3 | 2.34 | 2.2 | 0.96 | 25.5 | <0.01 |
| 16 | 159 | 15.9 | 41.4 | 58.6 | 0.70 | 14.8 | 0.71 | 39.5 | 1.20 | 8.8 | 0.87 | 16.7 | <0.01 |
| 11 | 215 | 21.5 | 19.9 | 80.1 | 0.71 | 20.4 | 0.72 | 19.0 | 0.76 | 7.6 | 0.99 | 9.1 | <0.01 |
| 9 | 174 | 17.4 | 2.5 | 97.5 | 0.70 | 16.3 | 0.83 | 2.8 | 0.90 | 7.2 | 1.62 | 1.9 | <0.01 |
| 0 | 25 | 2.5 | 0.0 | 100.0 | 0.83 | 2.8 | | | 1.62 | 1.9 | | | <0.01 |
| Total | 1,000 | 100.0 | | | 0.75 | 100.0 | | | 2.16 | 100.0 | | | |
| Heads | | 100.0 | | | 0.80 | | | | 2.30 | | | | |

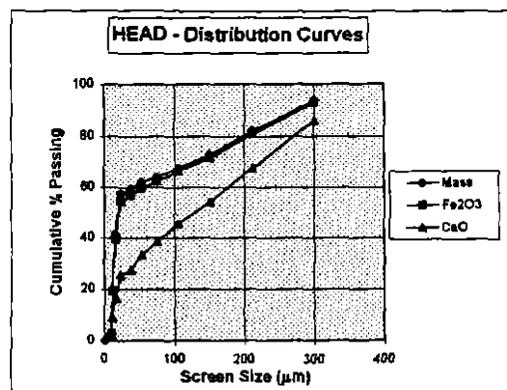
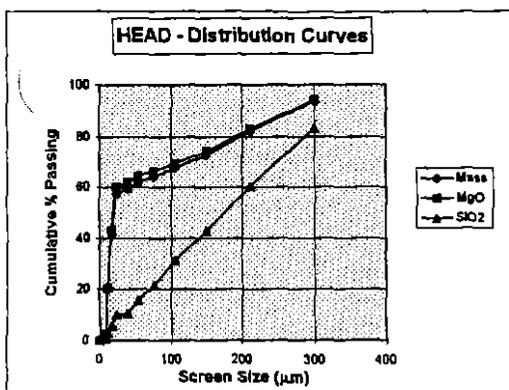


TABLE 15B

| | |
|---------------------|-------------------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #1: Milled to P80 = 212µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 5/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Na2O | | Cum. % Passing Grade | Cum. % Na2O Passing | SO3 | | Cum. % Passing Grade | Cum. % SO3 Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|----------------------|---------------------|-------------|----------|----------------------|--------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (ppm) | Dist (%) | | |
| 300 | 64 | 6.4 | 93.6 | 6.4 | 0.13 | 8.0 | 0.1 | 92.0 | 0.07 | 8.1 | 0.05 | 91.9 |
| 212 | 117 | 11.7 | 81.9 | 18.1 | 0.12 | 13.6 | 0.1 | 78.5 | 0.06 | 12.8 | 0.05 | 79.1 |
| 150 | 93 | 9.3 | 72.6 | 27.4 | 0.09 | 8.0 | 0.1 | 70.4 | 0.06 | 10.2 | 0.05 | 68.9 |
| 106 | 52 | 5.2 | 67.5 | 32.5 | 0.09 | 4.5 | 0.1 | 66.0 | 0.12 | 11.3 | 0.05 | 57.6 |
| 75 | 35 | 3.4 | 64.0 | 36.0 | 0.09 | 3.0 | 0.1 | 63.0 | 0.20 | 12.6 | 0.04 | 45.1 |
| 53 | 22 | 2.2 | 61.8 | 38.2 | 0.10 | 2.1 | 0.1 | 60.8 | 0.37 | 15.0 | 0.03 | 30.1 |
| 38 | 24 | 2.4 | 59.4 | 40.6 | 0.10 | 2.3 | 0.1 | 58.5 | 0.19 | 8.4 | 0.02 | 21.7 |
| 23 | 20 | 2.0 | 57.3 | 42.7 | 0.11 | 2.1 | 0.1 | 56.3 | 0.07 | 2.6 | 0.02 | 19.1 |
| 16 | 159 | 15.9 | 41.4 | 58.6 | 0.11 | 16.8 | 0.1 | 39.5 | 0.02 | 5.8 | 0.02 | 13.3 |
| 11 | 215 | 21.5 | 19.9 | 80.1 | 0.09 | 18.7 | 0.1 | 20.9 | 0.02 | 7.8 | 0.02 | 5.4 |
| 9 | 174 | 17.4 | 2.5 | 97.5 | 0.11 | 18.4 | 0.1 | 2.4 | 0.01 | 3.2 | 0.05 | 2.3 |
| 0 | 25 | 2.5 | 0.0 | 100.0 | 0.10 | 2.4 | | | 0.05 | 2.3 | | |
| Total | 1,000 | 100.0 | | | 0.10 | 100.0 | | | 0.05 | 100.0 | | |
| Heads | | 100.0 | | | 0.10 | | | | 0.06 | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | LOI | | Cum. % Passing Grade | Cum. % LOI Passing | CO3 | | Cum. % Passing Grade | Cum. % CO3 Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|----------------------|--------------------|-----------|----------|----------------------|--------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (%) | Dist (%) | | |
| 300 | 64 | 6.4 | 93.6 | 6.4 | 47.2 | 6.0 | 50.3 | 94.0 | 72.2 | 6.9 | 65.9 | 93.1 |
| 212 | 117 | 11.7 | 81.9 | 18.1 | 48.5 | 11.3 | 50.6 | 82.7 | 70.0 | 12.4 | 65.3 | 80.7 |
| 150 | 93 | 9.3 | 72.6 | 27.4 | 48.6 | 9.0 | 50.9 | 73.7 | 64.2 | 9.0 | 65.5 | 71.7 |
| 106 | 52 | 5.2 | 67.5 | 32.5 | 48.0 | 4.9 | 51.1 | 68.7 | 63.7 | 5.0 | 65.6 | 66.8 |
| 75 | 35 | 3.4 | 64.0 | 36.0 | 47.0 | 3.2 | 51.3 | 65.5 | 66.0 | 3.4 | 65.6 | 63.3 |
| 53 | 22 | 2.2 | 61.8 | 38.2 | 47.1 | 2.1 | 51.4 | 63.4 | 67.0 | 2.2 | 65.6 | 61.1 |
| 38 | 24 | 2.4 | 59.4 | 40.6 | 48.1 | 2.3 | 51.6 | 61.1 | 62.6 | 2.3 | 65.7 | 58.8 |
| 23 | 20 | 2.0 | 57.3 | 42.7 | 51.0 | 2.1 | 51.6 | 59.0 | 63.0 | 1.9 | 65.8 | 56.9 |
| 16 | 159 | 15.9 | 41.4 | 58.6 | 51.3 | 16.3 | 51.7 | 42.7 | 61.2 | 14.7 | 67.5 | 42.2 |
| 11 | 215 | 21.5 | 19.9 | 80.1 | 51.7 | 22.2 | 51.7 | 20.6 | 66.5 | 21.6 | 68.7 | 20.6 |
| 9 | 174 | 17.4 | 2.5 | 97.5 | 51.7 | 18.0 | 52.0 | 2.6 | 68.6 | 18.0 | 69.0 | 2.6 |
| 0 | 25 | 2.5 | 0.0 | 100.0 | 52.0 | 2.6 | | | 69.0 | 2.6 | | |
| Total | 1,000 | 100.0 | | | 50.1 | 100.0 | | | 66.3 | 100.0 | | |
| Heads | | 100.0 | | | 50.1 | | | | 71.9 | | | |

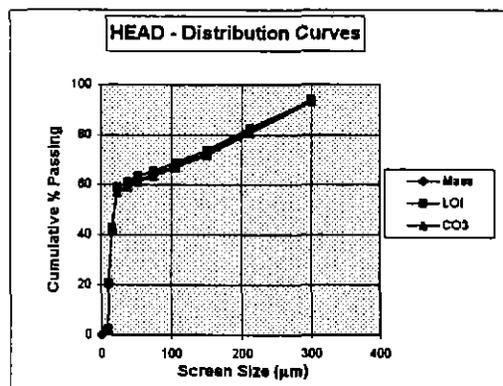
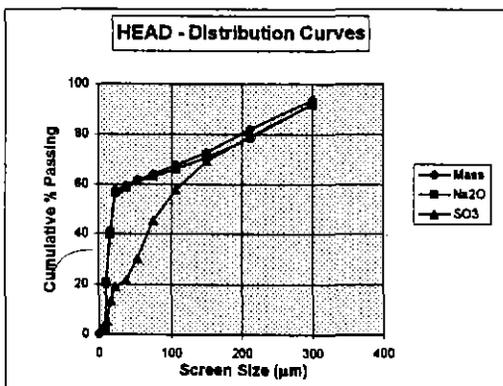


TABLE 16A

| | |
|---------------------|---|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #2: Milled to P80 = 106 μ m |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 5/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (μ m) | Weight | | Cum. % Weight | | MgO | | Cum. % | Cum. % | SiO ₂ | | Cum. % | Cum. % |
|--------------------|--------|-------|---------------|----------|--------------|-------------|------------------|----------------|------------------|-------------|------------------|-----------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | Passing Grade | MgO Passing | Assay (ppm) | Dist (%) | Passing Grade | SiO ₂ Passing |
| 300 | 1 | 0.1 | 99.9 | 0.1 | 38.7 | 0.1 | 41.8 | 99.9 | 8.36 | 0.4 | 3.01 | 99.6 |
| 212 | 13 | 1.3 | 98.5 | 1.5 | 36.6 | 1.2 | 41.8 | 98.7 | 7.88 | 3.5 | 2.94 | 96.2 |
| 150 | 90 | 9.0 | 89.6 | 10.4 | 39.6 | 8.5 | 42.0 | 90.2 | 4.88 | 14.5 | 2.75 | 81.6 |
| 106 | 104 | 10.4 | 79.2 | 20.8 | 40.0 | 9.9 | 42.3 | 80.3 | 4.70 | 16.2 | 2.49 | 65.5 |
| 75 | 101 | 10.1 | 69.1 | 30.9 | 39.8 | 9.6 | 42.7 | 70.7 | 5.33 | 17.8 | 2.08 | 47.6 |
| 53 | 80 | 8.0 | 61.1 | 38.9 | 41.1 | 7.9 | 42.9 | 62.7 | 4.86 | 13.0 | 1.71 | 34.6 |
| 38 | 86 | 8.6 | 52.5 | 47.5 | 42.5 | 8.7 | 43.0 | 54.0 | 2.98 | 8.5 | 1.50 | 26.2 |
| 23 | 42 | 4.2 | 48.3 | 51.7 | 44.2 | 4.4 | 42.9 | 49.6 | 0.47 | 0.7 | 1.59 | 25.5 |
| 16 | 165 | 16.5 | 31.8 | 68.2 | 43.6 | 17.3 | 42.5 | 32.3 | 1.18 | 6.5 | 1.80 | 19.0 |
| 11 | 150 | 15.0 | 16.8 | 83.3 | 42.7 | 15.4 | 42.2 | 16.9 | 1.47 | 7.3 | 2.11 | 11.7 |
| 9 | 90 | 9.0 | 7.7 | 92.3 | 42.8 | 9.2 | 41.6 | 7.7 | 1.75 | 5.2 | 2.52 | 6.5 |
| 0 | 77 | 7.7 | 0.0 | 100.0 | 41.6 | 7.7 | 0.0 | 0.0 | 2.52 | 6.5 | 0.00 | 0.0 |
| Total | 1,000 | 100.0 | | | 41.8 | 100.0 | | | 3.01 | 100.0 | | |
| Heads | | 100.0 | | | 42.0 | | | | 3.03 | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (μ m) | Weight | | Cum. % Weight | | Fe ₂ O ₃ | | Cum. % | Cum. % | CaO | | Cum. % | Cum. % |
|--------------------|--------|-------|---------------|----------|--------------------------------|-------------|------------------|---|--------------|-------------|------------------|----------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | Passing Grade | Fe ₂ O ₃ Passing | Assay (%) | Dist (%) | Passing Grade | CaO Passing |
| 300 | 1 | 0.1 | 99.9 | 0.1 | 3.61 | 0.2 | 3.25 | 99.8 | 3.7 | 0.2 | 2.7 | 99.8 |
| 212 | 13 | 1.3 | 98.5 | 1.5 | 2.79 | 1.1 | 3.25 | 98.7 | 6.9 | 3.4 | 2.6 | 96.5 |
| 150 | 90 | 9.0 | 89.6 | 10.4 | 3.10 | 8.6 | 3.27 | 90.2 | 4.8 | 15.9 | 2.4 | 80.6 |
| 106 | 104 | 10.4 | 79.2 | 20.8 | 3.21 | 10.3 | 3.28 | 79.9 | 3.9 | 14.8 | 2.2 | 65.7 |
| 75 | 101 | 10.1 | 69.1 | 30.9 | 3.23 | 10.0 | 3.28 | 69.9 | 3.7 | 13.9 | 2.0 | 51.8 |
| 53 | 80 | 8.0 | 61.1 | 38.9 | 3.26 | 8.1 | 3.29 | 61.8 | 3.4 | 10.1 | 1.8 | 41.7 |
| 38 | 86 | 8.6 | 52.5 | 47.5 | 3.19 | 8.4 | 3.30 | 53.4 | 2.7 | 8.4 | 1.7 | 33.3 |
| 23 | 42 | 4.2 | 48.3 | 51.7 | 3.35 | 4.3 | 3.30 | 49.1 | 1.3 | 2.0 | 1.8 | 31.3 |
| 16 | 165 | 16.5 | 31.8 | 68.2 | 3.26 | 16.6 | 3.32 | 32.5 | 1.6 | 9.6 | 1.9 | 21.8 |
| 11 | 150 | 15.0 | 16.8 | 83.3 | 3.26 | 15.1 | 3.37 | 17.4 | 1.6 | 8.7 | 2.1 | 13.1 |
| 9 | 90 | 9.0 | 7.7 | 92.3 | 3.35 | 9.3 | 3.40 | 8.1 | 1.8 | 5.9 | 2.5 | 7.2 |
| 0 | 77 | 7.7 | 0.0 | 100.0 | 3.40 | 8.1 | | | 2.5 | 7.2 | | |
| Total | 1,000 | 100.0 | | | 3.25 | 100.0 | | | 2.7 | 100.0 | | |
| Heads | | 100.0 | | | 3.31 | | | | 2.8 | | | |

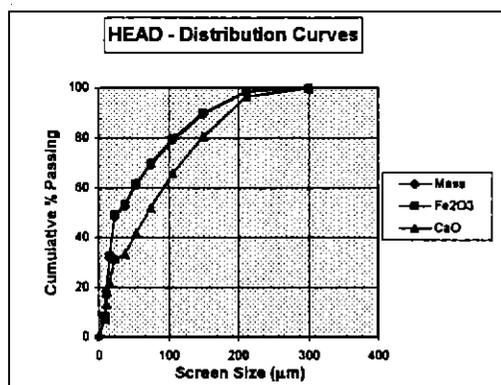
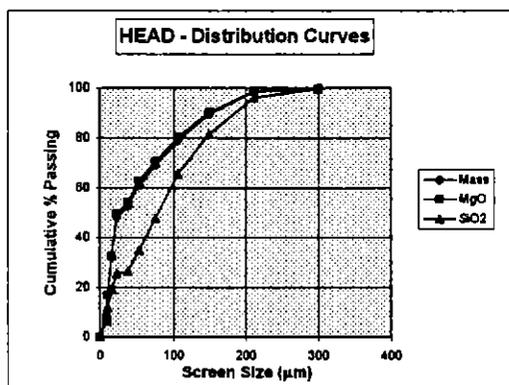


TABLE 16B

| | |
|---------------------|-------------------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #2: Milled to P80 = 106µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 5/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Na2O | | Cum % Passing Grade | Cum. % Na2O Passing | SO3 | | Cum % Passing Grade | Cum. % SO3 Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|---------------------|---------------------|-------------|----------|---------------------|--------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (ppm) | Dist (%) | | |
| 300 | 1 | 0.1 | 99.9 | 0.1 | 0.09 | 0.1 | 0.09 | 99.9 | 0.05 | 0.1 | 0.06 | 99.9 |
| 212 | 13 | 1.3 | 98.5 | 1.5 | 0.11 | 1.6 | 0.09 | 98.3 | 0.04 | 0.9 | 0.06 | 98.9 |
| 150 | 90 | 9.0 | 89.6 | 10.4 | 0.11 | 10.7 | 0.09 | 87.6 | 0.05 | 8.0 | 0.06 | 90.9 |
| 106 | 104 | 10.4 | 79.2 | 20.8 | 0.09 | 10.1 | 0.09 | 77.5 | 0.08 | 14.8 | 0.05 | 76.1 |
| 75 | 101 | 10.1 | 69.1 | 30.9 | 0.09 | 9.8 | 0.09 | 67.7 | 0.11 | 19.8 | 0.05 | 56.3 |
| 53 | 80 | 8.0 | 61.1 | 38.9 | 0.11 | 9.6 | 0.09 | 58.1 | 0.11 | 15.8 | 0.04 | 40.5 |
| 38 | 86 | 8.6 | 52.5 | 47.5 | 0.09 | 8.3 | 0.09 | 49.8 | 0.07 | 10.7 | 0.03 | 29.8 |
| 23 | 42 | 4.2 | 48.3 | 51.7 | 0.10 | 4.5 | 0.09 | 45.3 | 0.07 | 5.2 | 0.03 | 24.6 |
| 16 | 165 | 16.5 | 31.8 | 68.2 | 0.09 | 16.1 | 0.08 | 29.2 | 0.03 | 8.9 | 0.03 | 15.7 |
| 11 | 150 | 15.0 | 16.8 | 83.3 | 0.08 | 13.0 | 0.09 | 16.2 | 0.02 | 5.4 | 0.03 | 10.4 |
| 9 | 90 | 9.0 | 7.7 | 92.3 | 0.08 | 7.8 | 0.10 | 8.4 | 0.03 | 4.8 | 0.04 | 5.5 |
| 0 | 77 | 7.7 | 0.0 | 100.0 | 0.10 | 8.4 | | | 0.04 | 5.5 | | |
| Total | 1,000 | 100.0 | | | 0.09 | 100.0 | | | 0.06 | 100.0 | | |
| Heads | | 100.0 | | | 0.09 | | | | 0.06 | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | LOI | | Cum % Passing Grade | Cum. % LOI Passing | CO3 | | Cum % Passing Grade | Cum. % CO3 Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|---------------------|--------------------|-----------|----------|---------------------|--------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (%) | Dist (%) | | |
| 300 | 1 | 0.1 | 99.9 | 0.1 | 45.8 | 0.1 | 49.0 | 99.9 | 63.5 | 0.1 | 69.5 | 99.9 |
| 212 | 13 | 1.3 | 98.5 | 1.5 | 45.9 | 1.2 | 49.1 | 98.6 | 63.4 | 1.2 | 69.6 | 98.7 |
| 150 | 90 | 9.0 | 89.6 | 10.4 | 47.7 | 8.7 | 49.2 | 89.9 | 66.9 | 8.6 | 69.8 | 90.0 |
| 106 | 104 | 10.4 | 79.2 | 20.8 | 48.0 | 10.2 | 49.4 | 79.7 | 68.3 | 10.2 | 70.0 | 79.8 |
| 75 | 101 | 10.1 | 69.1 | 30.9 | 47.6 | 9.8 | 49.6 | 70.0 | 69.3 | 10.1 | 70.2 | 69.8 |
| 53 | 80 | 8.0 | 61.1 | 38.9 | 48.0 | 7.9 | 49.8 | 62.1 | 63.1 | 7.3 | 71.1 | 62.5 |
| 38 | 86 | 8.6 | 52.5 | 47.5 | 49.0 | 8.6 | 50.0 | 53.5 | 66.4 | 8.2 | 71.9 | 54.3 |
| 23 | 42 | 4.2 | 48.3 | 51.7 | 50.6 | 4.3 | 49.9 | 49.2 | 64.2 | 3.9 | 72.5 | 50.4 |
| 16 | 165 | 16.5 | 31.8 | 68.2 | 50.2 | 16.9 | 49.7 | 32.3 | 70.9 | 16.9 | 73.3 | 33.6 |
| 11 | 150 | 15.0 | 16.8 | 83.3 | 50.0 | 15.3 | 49.5 | 16.9 | 72.3 | 15.6 | 74.3 | 17.9 |
| 9 | 90 | 9.0 | 7.7 | 92.3 | 49.8 | 9.2 | 49.2 | 7.8 | 74.2 | 9.6 | 74.4 | 8.3 |
| 0 | 77 | 7.7 | 0.0 | 100.0 | 49.2 | 7.8 | | 0.0 | 74.4 | 8.3 | | 0.0 |
| Total | 1,000 | 100.0 | | | 49.0 | 100.0 | | | 69.5 | 100.0 | | |
| Heads | | 100.0 | | | 49.0 | | | | 68.0 | | | |

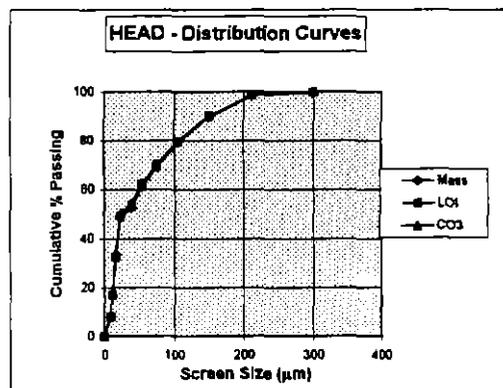
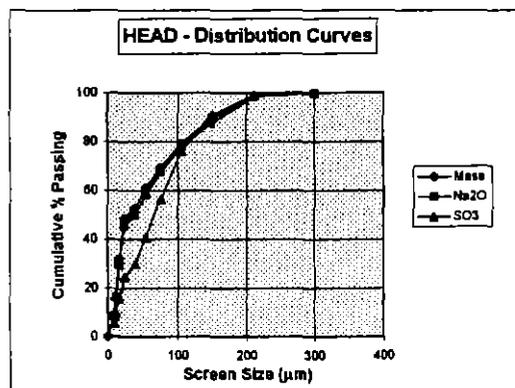


TABLE 17A

| | |
|---------------------|-------------------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #2: Milled to P80 = 212µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 5/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | MgO | | Cum. % Passing Grade | Cum. % MgO Passing | SiO2 | | Cum. % Passing Grade | Cum. % SiO2 Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|----------------------|--------------------|-------------|----------|----------------------|---------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (ppm) | Dist (%) | | |
| 300 | 69 | 6.9 | 93.1 | 6.9 | 39.9 | 6.6 | 42.0 | 93.4 | 4.65 | 11.0 | 2.79 | 89.0 |
| 212 | 128 | 12.8 | 80.3 | 19.7 | 41.1 | 12.6 | 42.1 | 80.8 | 3.48 | 15.3 | 2.68 | 73.7 |
| 150 | 105 | 10.5 | 69.8 | 30.2 | 40.6 | 10.2 | 42.3 | 70.6 | 3.64 | 13.1 | 2.54 | 60.6 |
| 106 | 70 | 7.0 | 62.8 | 37.2 | 40.2 | 6.7 | 42.6 | 63.9 | 4.53 | 10.9 | 2.31 | 49.7 |
| 75 | 62 | 6.2 | 56.6 | 43.4 | 40.1 | 5.9 | 42.9 | 57.9 | 5.36 | 11.4 | 1.98 | 38.3 |
| 53 | 55 | 5.5 | 51.1 | 48.9 | 40.7 | 5.4 | 43.1 | 52.6 | 5.20 | 9.8 | 1.63 | 28.5 |
| 38 | 70 | 7.0 | 44.0 | 56.0 | 42.5 | 7.1 | 43.2 | 45.5 | 3.08 | 7.4 | 1.40 | 21.1 |
| 23 | 56 | 5.6 | 38.4 | 61.6 | 44.3 | 5.9 | 43.0 | 39.5 | 0.71 | 1.4 | 1.50 | 19.8 |
| 16 | 154 | 15.4 | 23.0 | 77.0 | 43.5 | 16.0 | 42.7 | 23.5 | 1.22 | 6.4 | 1.69 | 13.3 |
| 11 | 136 | 13.6 | 9.4 | 90.6 | 42.9 | 14.0 | 42.4 | 9.5 | 1.52 | 7.1 | 1.94 | 6.2 |
| 9 | 78 | 7.8 | 1.6 | 98.4 | 42.5 | 7.9 | 42.0 | 1.6 | 1.83 | 4.9 | 2.46 | 1.3 |
| 0 | 16 | 1.6 | 0.0 | 100.0 | 42.0 | 1.6 | | | 2.46 | 1.3 | | |
| Total | 999 | 100.0 | | | 41.8 | 100.0 | | | 2.92 | 100.0 | | |
| Heads | | 100.0 | | | 42.0 | | | | 3.03 | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Fe2O3 | | Cum. % Passing Grade | Cum. % Fe2O3 Passing | CaO | | Cum. % Passing Grade | Cum. % CaO Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|----------------------|----------------------|-----------|----------|----------------------|--------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (%) | Dist (%) | | |
| 300 | 69 | 6.9 | 93.1 | 6.9 | 3.04 | 6.5 | 3.26 | 93.5 | 4.11 | 10.6 | 2.58 | 89.4 |
| 212 | 128 | 12.8 | 80.3 | 19.7 | 3.24 | 12.8 | 3.26 | 80.7 | 3.52 | 16.8 | 2.43 | 72.7 |
| 150 | 105 | 10.5 | 69.8 | 30.2 | 3.26 | 10.6 | 3.26 | 70.2 | 3.46 | 13.5 | 2.28 | 59.1 |
| 106 | 70 | 7.0 | 62.8 | 37.2 | 3.26 | 7.0 | 3.27 | 63.1 | 3.63 | 9.5 | 2.13 | 49.7 |
| 75 | 62 | 6.2 | 56.6 | 43.4 | 3.26 | 6.2 | 3.27 | 56.9 | 3.75 | 8.7 | 1.95 | 41.0 |
| 53 | 55 | 5.5 | 51.1 | 48.9 | 3.16 | 5.4 | 3.28 | 51.6 | 3.56 | 7.3 | 1.78 | 33.7 |
| 38 | 70 | 7.0 | 44.0 | 56.0 | 3.20 | 6.9 | 3.29 | 44.6 | 2.69 | 7.0 | 1.63 | 26.7 |
| 23 | 56 | 5.6 | 38.4 | 61.6 | 3.34 | 5.8 | 3.28 | 38.9 | 1.44 | 3.0 | 1.66 | 23.7 |
| 16 | 154 | 15.4 | 23.0 | 77.0 | 3.25 | 15.4 | 3.30 | 23.4 | 1.57 | 9.0 | 1.72 | 14.7 |
| 11 | 136 | 13.6 | 9.4 | 90.6 | 3.29 | 13.8 | 3.33 | 9.6 | 1.56 | 7.9 | 1.94 | 6.8 |
| 9 | 78 | 7.8 | 1.6 | 98.4 | 3.31 | 8.0 | 3.40 | 1.7 | 1.82 | 5.3 | 2.53 | 1.5 |
| 0 | 16 | 1.6 | 0.0 | 100.0 | 3.40 | 1.7 | | | 2.53 | 1.5 | | |
| Total | 999 | 100.0 | | | 3.25 | 100.0 | | | 2.69 | 100.0 | | |
| Heads | | 100.0 | | | 3.31 | | | | 2.80 | | | |

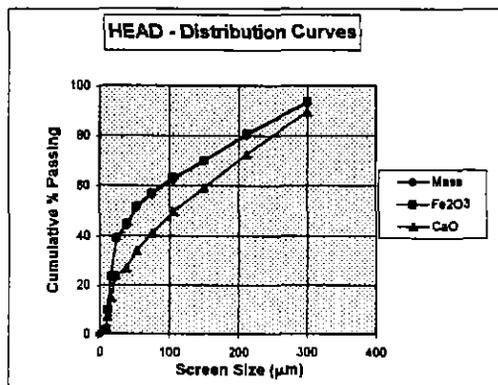
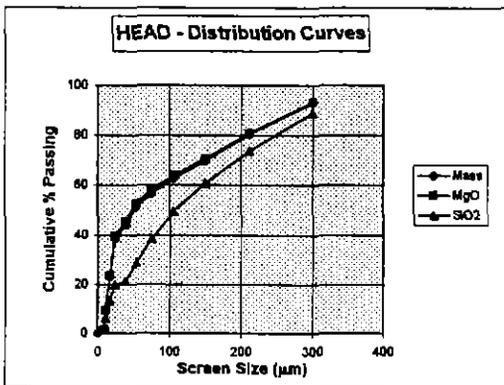


TABLE 17B

| | |
|---------------------|-------------------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #2: Milled to P80 = 212µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 5/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Na2O | | Cum % Passing Grade | Cum. % Na2O Passing | SO3 | | Cum % Passing Grade | Cum. % SO3 Passing |
|--------------|--------|-------|---------------|----------|--------------|-------------|---------------------------|---------------------------|----------------|-------------|---------------------------|--------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (ppm) | Dist (%) | | |
| 300 | 69 | 6.9 | 93.1 | 6.9 | 0.10 | 6.9 | 0.10 | 93.1 | 0.05 | 6.0 | 0.06 | 94.0 |
| 212 | 128 | 12.8 | 80.3 | 19.7 | 0.12 | 15.3 | 0.10 | 77.8 | 0.06 | 13.5 | 0.06 | 80.5 |
| 150 | 105 | 10.5 | 69.8 | 30.2 | 0.10 | 10.5 | 0.10 | 67.4 | 0.07 | 12.9 | 0.06 | 67.6 |
| 106 | 70 | 7.0 | 62.8 | 37.2 | 0.11 | 7.7 | 0.10 | 59.7 | 0.09 | 11.0 | 0.05 | 56.5 |
| 75 | 62 | 6.2 | 56.6 | 43.4 | 0.10 | 6.2 | 0.10 | 53.5 | 0.12 | 13.0 | 0.04 | 43.5 |
| 53 | 55 | 5.5 | 51.1 | 48.9 | 0.11 | 6.0 | 0.09 | 47.5 | 0.09 | 8.7 | 0.04 | 34.8 |
| 38 | 70 | 7.0 | 44.0 | 56.0 | 0.10 | 7.0 | 0.09 | 40.5 | 0.07 | 8.6 | 0.03 | 26.2 |
| 23 | 56 | 5.6 | 38.4 | 61.6 | 0.08 | 4.5 | 0.09 | 36.1 | 0.08 | 7.9 | 0.03 | 18.4 |
| 16 | 154 | 15.4 | 23.0 | 77.0 | 0.10 | 15.3 | 0.09 | 20.7 | 0.03 | 8.1 | 0.03 | 10.3 |
| 11 | 136 | 13.6 | 9.4 | 90.6 | 0.10 | 13.5 | 0.08 | 7.2 | 0.02 | 4.8 | 0.03 | 5.5 |
| 9 | 78 | 7.8 | 1.6 | 98.4 | 0.08 | 6.2 | 0.06 | 1.0 | 0.03 | 4.1 | 0.05 | 1.4 |
| 0 | 16 | 1.6 | 0.0 | 100.0 | 0.06 | 1.0 | | | 0.05 | 1.4 | | |
| Total | 999 | 100.0 | | | 0.10 | 100.0 | | | 0.06 | 100.0 | | |
| Heads | | 100.0 | | | 0.09 | | | | 0.06 | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | LOI | | Cum % Passing Grade | Cum. % LOI Passing | CO3 | | Cum % Passing Grade | Cum. % CO3 Passing |
|--------------|--------|-------|---------------|----------|--------------|-------------|---------------------------|--------------------------|--------------|-------------|---------------------------|--------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (%) | Dist (%) | | |
| 300 | 69 | 6.9 | 93.1 | 6.9 | 47.9 | 6.7 | 49.1 | 93.3 | 66.2 | 6.5 | 70.2 | 93.5 |
| 212 | 128 | 12.8 | 80.3 | 19.7 | 48.6 | 12.7 | 49.2 | 80.6 | 69.0 | 12.6 | 70.4 | 80.8 |
| 150 | 105 | 10.5 | 69.8 | 30.2 | 48.5 | 10.4 | 49.3 | 70.2 | 71.4 | 10.7 | 70.3 | 70.1 |
| 106 | 70 | 7.0 | 62.8 | 37.2 | 48.1 | 6.9 | 49.5 | 63.3 | 67.7 | 6.8 | 70.5 | 63.3 |
| 75 | 62 | 6.2 | 56.6 | 43.4 | 47.4 | 6.0 | 49.7 | 57.3 | 70.7 | 6.3 | 70.5 | 57.0 |
| 53 | 55 | 5.5 | 51.1 | 48.9 | 47.8 | 5.4 | 49.9 | 51.9 | 70.3 | 5.5 | 70.5 | 51.5 |
| 38 | 70 | 7.0 | 44.0 | 56.0 | 49.0 | 7.0 | 50.0 | 44.9 | 69.9 | 7.0 | 70.7 | 44.5 |
| 23 | 56 | 5.6 | 38.4 | 61.6 | 50.5 | 5.8 | 50.0 | 39.2 | 77.1 | 6.2 | 69.7 | 38.3 |
| 16 | 154 | 15.4 | 23.0 | 77.0 | 50.2 | 15.8 | 49.8 | 23.4 | 71.0 | 15.7 | 68.8 | 22.7 |
| 11 | 136 | 13.6 | 9.4 | 90.6 | 50.0 | 13.9 | 49.6 | 9.5 | 70.7 | 13.8 | 66.2 | 8.9 |
| 9 | 78 | 7.8 | 1.6 | 98.4 | 49.7 | 7.9 | 49.0 | 1.6 | 66.4 | 7.4 | 65.0 | 1.5 |
| 0 | 16 | 1.6 | 0.0 | 100.0 | 49.0 | 1.6 | | 0.0 | 65.0 | 1.5 | | 0.0 |
| Total | 999 | 100.0 | | | 49.1 | 100.0 | | | 69.9 | 100.0 | | |
| Heads | | 100.0 | | | 49.0 | | | | 68.0 | | | |

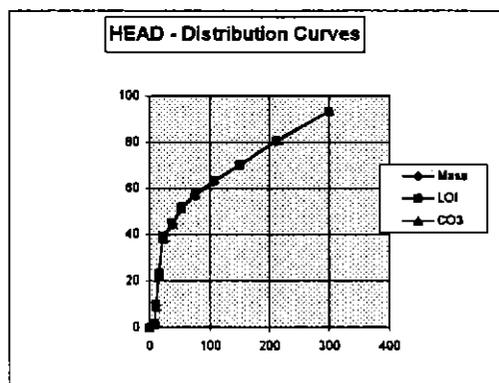
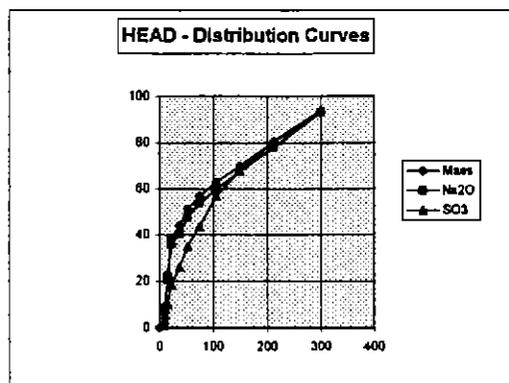


TABLE 18A

| | |
|---------------------|--|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #1: Stage - milled to P100 = 212µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 10/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | MgO | | Cum % Passing Grade | Cum. % MgO Passing | SiO ₂ | | Cum % Passing Grade | Cum. % SiO ₂ Passing | Al ₂ O ₃ Assay % |
|-----------|--------|-------|---------------|----------|-----------|----------|---------------------|--------------------|------------------|----------|---------------------|---------------------------------|--|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (ppm) | Dist (%) | | | |
| 150 | 139 | 13.8 | 86.2 | 13.8 | 41.6 | 13.2 | 44.0 | 86.8 | 5.37 | 26.6 | 2.38 | 73.4 | <0.05 |
| 106 | 85 | 8.5 | 77.7 | 22.3 | 40.1 | 7.8 | 44.4 | 79.0 | 7.78 | 23.6 | 1.79 | 49.7 | <0.05 |
| 75 | 56 | 5.6 | 72.1 | 27.9 | 39.2 | 5.0 | 44.8 | 74.0 | 8.37 | 16.7 | 1.28 | 33.0 | <0.05 |
| 53 | 35 | 3.5 | 68.6 | 31.4 | 38.6 | 3.1 | 45.1 | 70.9 | 7.73 | 9.8 | 0.95 | 23.2 | <0.05 |
| 38 | 32 | 3.2 | 65.4 | 34.6 | 41.1 | 3.0 | 45.3 | 67.9 | 5.23 | 6.0 | 0.74 | 17.2 | <0.05 |
| 23 | 29 | 2.9 | 62.5 | 37.5 | 44.1 | 2.9 | 45.4 | 65.0 | 1.05 | 1.1 | 0.72 | 16.2 | <0.05 |
| 16 | 159 | 15.9 | 46.5 | 53.5 | 45.4 | 16.6 | 45.4 | 48.4 | 0.75 | 4.3 | 0.71 | 11.9 | <0.05 |
| 11 | 207 | 20.7 | 25.9 | 74.1 | 46.2 | 21.9 | 44.7 | 26.5 | 0.42 | 3.1 | 0.95 | 8.8 | <0.05 |
| 9 | 129 | 12.9 | 13.0 | 87.0 | 45.6 | 13.5 | 43.8 | 13.0 | 0.39 | 1.8 | 1.50 | 7.0 | <0.05 |
| 0 | 130 | 13.0 | 0.0 | 100.0 | 43.8 | 13.0 | | | 1.50 | 7.0 | | | 0.15 |
| Total | 1,000 | 100.0 | | | 43.7 | 100.0 | | | 2.79 | 100.0 | | | |
| Heads | | 100.0 | | | 43.9 | | | | 2.82 | | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Fe ₂ O ₃ | | Cum % Passing Grade | Cum. % Fe ₂ O ₃ Passing | CaO | | Cum % Passing Grade | Cum. % CaO Passing | P ₂ O ₅ Assay % |
|-----------|--------|-------|---------------|----------|--------------------------------|----------|---------------------|---|-----------|----------|---------------------|--------------------|---------------------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (%) | Dist (%) | | | |
| 150 | 139 | 13.8 | 86.2 | 13.8 | 0.74 | 12.3 | 0.85 | 87.7 | 3.36 | 20.3 | 2.12 | 79.7 | <0.01 |
| 106 | 85 | 8.5 | 77.7 | 22.3 | 0.77 | 7.9 | 0.85 | 79.8 | 4.13 | 15.3 | 1.90 | 64.4 | <0.01 |
| 75 | 56 | 5.6 | 72.1 | 27.9 | 0.83 | 5.6 | 0.86 | 74.3 | 4.57 | 11.1 | 1.69 | 53.2 | <0.01 |
| 53 | 35 | 3.5 | 68.6 | 31.4 | 0.84 | 3.6 | 0.86 | 70.7 | 5.11 | 7.9 | 1.51 | 45.3 | <0.01 |
| 38 | 32 | 3.2 | 65.4 | 34.6 | 0.87 | 3.3 | 0.86 | 67.3 | 4.83 | 6.8 | 1.35 | 38.6 | <0.01 |
| 23 | 29 | 2.9 | 62.5 | 37.5 | 0.82 | 2.8 | 0.86 | 64.5 | 2.37 | 3.0 | 1.30 | 35.6 | <0.01 |
| 16 | 159 | 15.9 | 46.5 | 53.5 | 0.72 | 13.8 | 0.91 | 50.7 | 1.25 | 8.7 | 1.32 | 26.9 | <0.01 |
| 11 | 207 | 20.7 | 25.9 | 74.1 | 0.71 | 17.6 | 1.06 | 33.0 | 0.83 | 7.5 | 1.72 | 19.4 | <0.01 |
| 9 | 129 | 12.9 | 13.0 | 87.0 | 0.69 | 10.7 | 1.43 | 22.3 | 1.01 | 5.7 | 2.42 | 13.7 | <0.01 |
| 0 | 130 | 13.0 | 0.0 | 100.0 | 1.43 | 22.3 | | | 2.42 | 13.7 | | | <0.01 |
| Total | 1,000 | 100.0 | | | 0.83 | 100.0 | | | 2.29 | 100.0 | | | |
| Heads | | 100.0 | | | 0.80 | | | | 2.32 | | | | |

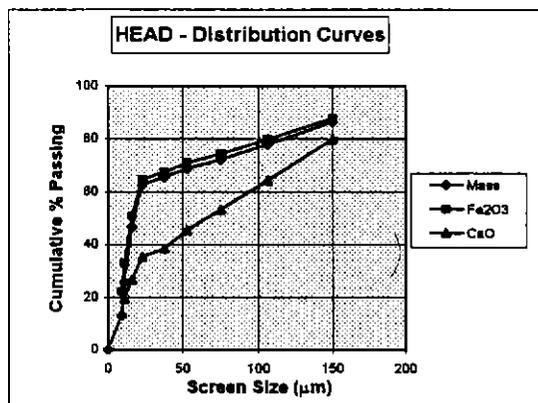
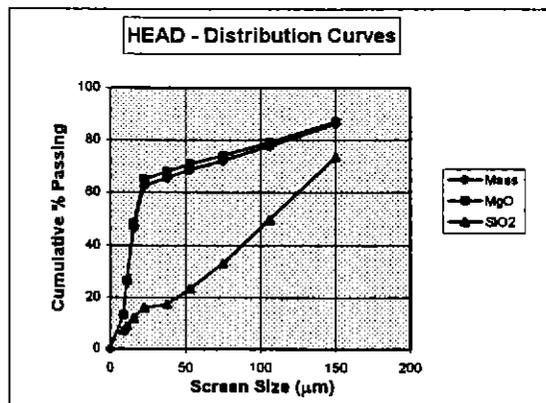


TABLE 18B

| | |
|---------------------|--|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #1: Stage - milled to P100 = 212µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 10/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Na2O | | Cum. % Passing Grade | Cum. % Na2O Passing | SO3 | | Cum. % Passing Grade | Cum. % SO3 Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|----------------------|---------------------|-------------|----------|----------------------|--------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dirt (%) | | | Assay (ppm) | Dirt (%) | | |
| 150 | 139 | 13.8 | 86.2 | 13.8 | 0.10 | 13.7 | 0.10 | 86.3 | 0.07 | 15.3 | 0.06 | 84.7 |
| 106 | 85 | 8.5 | 77.7 | 22.3 | 0.10 | 8.4 | 0.10 | 77.9 | 0.12 | 16.1 | 0.06 | 68.6 |
| 75 | 56 | 5.6 | 72.1 | 27.9 | 0.09 | 5.0 | 0.10 | 73.0 | 0.15 | 13.2 | 0.05 | 55.4 |
| 53 | 35 | 3.5 | 68.6 | 31.4 | 0.10 | 3.5 | 0.10 | 69.5 | 0.18 | 10.1 | 0.04 | 45.3 |
| 38 | 32 | 3.2 | 65.4 | 34.6 | 0.12 | 3.8 | 0.10 | 65.7 | 0.20 | 10.1 | 0.03 | 35.2 |
| 23 | 29 | 2.9 | 62.5 | 37.5 | 0.12 | 3.4 | 0.10 | 62.3 | 0.07 | 3.2 | 0.03 | 32.0 |
| 16 | 159 | 15.9 | 46.5 | 53.5 | 0.10 | 15.8 | 0.10 | 46.5 | 0.02 | 5.0 | 0.04 | 27.0 |
| 11 | 207 | 20.7 | 25.9 | 74.1 | 0.09 | 18.4 | 0.11 | 28.2 | 0.02 | 6.5 | 0.05 | 20.5 |
| 9 | 129 | 12.9 | 13.0 | 87.0 | 0.09 | 11.5 | 0.13 | 16.7 | 0.03 | 6.1 | 0.07 | 14.4 |
| 0 | 130 | 13.0 | 0.0 | 100.0 | 0.13 | 16.7 | | | 0.07 | 14.4 | | |
| Total | 1,000 | 100.0 | | | 0.10 | 100.0 | | | 0.06 | 100.0 | | |
| Heads | | 100.0 | | | 0.10 | | | | 0.06 | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | LOI | | Cum. % Passing Grade | Cum. % LOI Passing | CO3 | | Cum. % Passing Grade | Cum. % CO3 Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|----------------------|--------------------|-----------|----------|----------------------|--------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dirt (%) | | | Assay (%) | Dirt (%) | | |
| 150 | 139 | 13.8 | 86.2 | 13.8 | 48.5 | 13.4 | 50.3 | 86.6 | 64.2 | 13.1 | 68.4 | 86.9 |
| 106 | 85 | 8.5 | 77.7 | 22.3 | 47.2 | 8.0 | 50.7 | 78.6 | 63.4 | 7.9 | 69.0 | 79.0 |
| 75 | 56 | 5.6 | 72.1 | 27.9 | 46.7 | 5.2 | 51.0 | 73.4 | 64.3 | 5.3 | 69.3 | 73.7 |
| 53 | 35 | 3.5 | 68.6 | 31.4 | 47.0 | 3.3 | 51.2 | 70.1 | 65.2 | 3.4 | 69.5 | 70.3 |
| 38 | 32 | 3.2 | 65.4 | 34.6 | 48.1 | 3.1 | 51.3 | 67.0 | 59.7 | 2.8 | 70.0 | 67.5 |
| 23 | 29 | 2.9 | 62.5 | 37.5 | 50.9 | 2.9 | 51.3 | 64.1 | 67.2 | 2.8 | 70.2 | 64.6 |
| 16 | 159 | 15.9 | 46.5 | 53.5 | 51.3 | 16.3 | 51.3 | 47.7 | 68.6 | 16.1 | 70.7 | 48.5 |
| 11 | 207 | 20.7 | 25.9 | 74.1 | 51.7 | 21.3 | 51.1 | 26.4 | 70.8 | 21.6 | 70.6 | 26.9 |
| 9 | 129 | 12.9 | 13.0 | 87.0 | 51.6 | 13.3 | 50.6 | 13.1 | 71.2 | 13.5 | 70.0 | 13.4 |
| 0 | 130 | 13.0 | 0.0 | 100.0 | 50.6 | 13.1 | | | 70.0 | 13.4 | | |
| Total | 1,000 | 100.0 | | | 50.1 | 100.0 | | | 67.8 | 100.0 | | |
| Heads | | 100.0 | | | 50.1 | | | | 71.9 | | | |

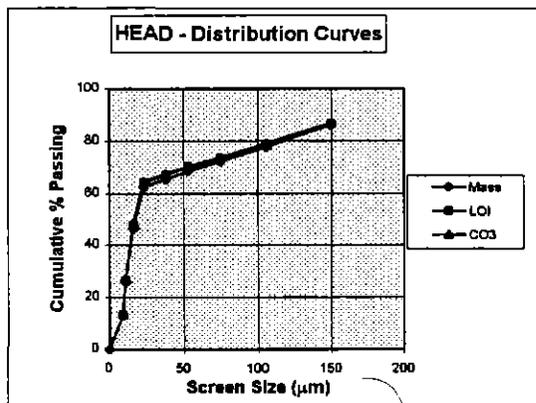
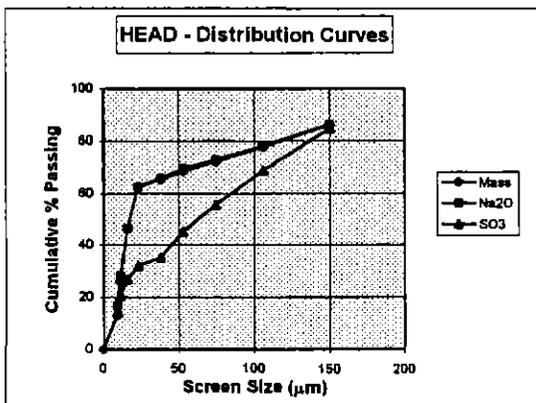


TABLE 19A

| | |
|---------------------|--|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #2: Stage - milled to P100 = 212µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 10/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | MgO | | Cum. % | Cum. % | SiO ₂ | | Cum. % | Cum. % | Al ₂ O ₃ |
|--------------|--------|-------|---------------|----------|--------------|-------------|------------------|----------------|------------------|-------------|------------------|-----------------------------|--------------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | Passing Grade | MgO Passing | Assay (ppm) | Dist (%) | Passing Grade | SiO ₂ Passing | Assay % |
| 150 | 158 | 15.8 | 84.2 | 15.8 | 39.8 | 15.1 | 41.8 | 84.9 | 4.25 | 22.3 | 2.77 | 77.7 | <0.05 |
| 106 | 109 | 10.9 | 73.4 | 26.6 | 40.4 | 10.6 | 42.0 | 74.3 | 4.67 | 16.9 | 2.49 | 60.8 | <0.05 |
| 75 | 92 | 9.2 | 64.1 | 35.9 | 39.3 | 8.8 | 42.3 | 65.5 | 5.28 | 16.2 | 2.09 | 44.6 | <0.05 |
| 53 | 76 | 7.6 | 56.6 | 43.4 | 40.6 | 7.4 | 42.6 | 58.1 | 4.50 | 11.3 | 1.77 | 33.3 | <0.05 |
| 38 | 82 | 8.2 | 48.4 | 51.6 | 41.6 | 8.2 | 42.7 | 49.9 | 2.89 | 7.9 | 1.58 | 25.4 | <0.05 |
| 23 | 45 | 4.4 | 43.9 | 56.1 | 43.9 | 4.7 | 42.6 | 45.2 | 0.66 | 1.0 | 1.67 | 24.4 | <0.05 |
| 16 | 144 | 14.4 | 29.5 | 70.5 | 43.5 | 15.1 | 42.2 | 30.0 | 1.20 | 5.8 | 1.90 | 18.6 | <0.05 |
| 11 | 125 | 12.5 | 17.0 | 83.0 | 42.8 | 12.9 | 41.8 | 17.1 | 1.48 | 6.2 | 2.21 | 12.5 | <0.05 |
| 9 | 69 | 6.9 | 10.1 | 89.9 | 42.4 | 7.1 | 41.3 | 10.0 | 1.75 | 4.0 | 2.53 | 8.5 | <0.05 |
| 0 | 101 | 10.1 | 0.0 | 100.0 | 41.3 | 10.0 | | | 2.53 | 8.5 | | | 0.12 |
| Total | 1,000 | 100.0 | | | 41.5 | 100.0 | | | 3.01 | 100.0 | | | |
| Heads | | 100.0 | | | 42.0 | | | | 3.03 | | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Fe ₂ O ₃ | | Cum. % | Cum. % | CaO | | Cum. % | Cum. % | P ₂ O ₅ |
|--------------|--------|-------|---------------|----------|--------------------------------|-------------|------------------|---|--------------|-------------|------------------|----------------|-------------------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | Passing Grade | Fe ₂ O ₃ Passing | Assay (%) | Dist (%) | Passing Grade | CaO Passing | Assay % |
| 150 | 158 | 15.8 | 84.2 | 15.8 | 3.14 | 15.2 | 3.27 | 84.8 | 3.94 | 22.6 | 2.53 | 77.4 | <0.01 |
| 106 | 109 | 10.9 | 73.4 | 26.6 | 3.25 | 10.9 | 3.28 | 73.9 | 3.75 | 14.8 | 2.35 | 62.6 | <0.01 |
| 75 | 92 | 9.2 | 64.1 | 35.9 | 3.16 | 9.0 | 3.29 | 64.9 | 3.76 | 12.6 | 2.14 | 50.0 | <0.01 |
| 53 | 76 | 7.6 | 56.6 | 43.4 | 3.16 | 7.3 | 3.31 | 57.6 | 3.50 | 9.6 | 1.96 | 40.3 | <0.01 |
| 38 | 82 | 8.2 | 48.4 | 51.6 | 3.14 | 7.9 | 3.34 | 49.7 | 2.73 | 8.1 | 1.83 | 32.2 | <0.01 |
| 23 | 45 | 4.4 | 43.9 | 56.1 | 3.33 | 4.6 | 3.34 | 45.1 | 1.34 | 2.2 | 1.88 | 30.0 | <0.01 |
| 16 | 144 | 14.4 | 29.5 | 70.5 | 3.24 | 14.4 | 3.39 | 30.7 | 1.63 | 8.6 | 2.00 | 21.5 | <0.01 |
| 11 | 125 | 12.5 | 17.0 | 83.0 | 3.28 | 12.6 | 3.48 | 18.1 | 1.58 | 7.2 | 2.32 | 14.3 | <0.01 |
| 9 | 69 | 6.9 | 10.1 | 89.9 | 3.34 | 7.1 | 3.57 | 11.0 | 1.77 | 4.4 | 2.69 | 9.8 | <0.01 |
| 0 | 101 | 10.1 | 0.0 | 100.0 | 3.57 | 11.0 | | | 2.69 | 9.8 | | | <0.01 |
| Total | 1,000 | 100.0 | | | 3.25 | 100.0 | | | 2.75 | 100.0 | | | |
| Heads | | 100.0 | | | 3.31 | | | | 2.80 | | | | |

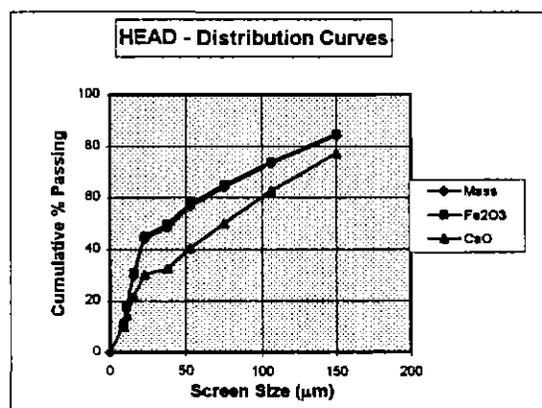
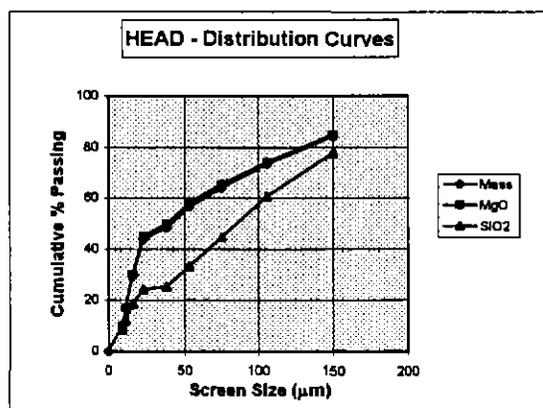


TABLE 19B

| | |
|---------------------|--|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Composite #2: Stage - milled to P100 = 212µm |
| JOB NUMBER: | 7740 |
| TEST NUMBER: | |
| DATE: | 10/06/98 |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | Na2O | | Cum % Passing Grade | Cum. % Na2O Passing | SO3 | | Cum % Passing Grade | Cum. % SO3 Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|---------------------|---------------------|-------------|----------|---------------------|--------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (ppm) | Dist (%) | | |
| 150 | 158 | 15.8 | 84.2 | 15.8 | 0.10 | 15.7 | 0.10 | 84.3 | 0.07 | 14.7 | 0.08 | 85.3 |
| 106 | 109 | 10.9 | 73.4 | 26.6 | 0.10 | 10.8 | 0.10 | 73.5 | 0.09 | 13.1 | 0.07 | 72.3 |
| 75 | 92 | 9.2 | 64.1 | 35.9 | 0.09 | 8.3 | 0.10 | 65.2 | 0.09 | 11.1 | 0.07 | 61.2 |
| 53 | 76 | 7.6 | 56.6 | 43.4 | 0.11 | 8.3 | 0.10 | 57.0 | 0.10 | 10.1 | 0.07 | 51.1 |
| 38 | 82 | 8.2 | 48.4 | 51.6 | 0.11 | 9.0 | 0.10 | 48.0 | 0.08 | 8.7 | 0.07 | 42.4 |
| 23 | 45 | 4.4 | 43.9 | 56.1 | 0.10 | 4.4 | 0.10 | 43.6 | 0.10 | 5.9 | 0.06 | 36.5 |
| 16 | 144 | 14.4 | 29.5 | 70.5 | 0.11 | 15.8 | 0.09 | 27.8 | 0.04 | 7.7 | 0.07 | 28.8 |
| 11 | 125 | 12.5 | 17.0 | 83.0 | 0.09 | 11.2 | 0.10 | 16.6 | 0.03 | 5.0 | 0.11 | 23.8 |
| 9 | 69 | 6.9 | 10.1 | 89.9 | 0.11 | 7.6 | 0.09 | 9.0 | 0.04 | 3.7 | 0.15 | 20.1 |
| 0 | 101 | 10.1 | 0.0 | 100.0 | 0.09 | 9.0 | | | 0.15 | 20.1 | | |
| Total | 1,000 | 100.0 | | | 0.10 | 100.0 | | | 0.08 | 100.0 | | |
| Heads | | 100.0 | | | 0.09 | | | | 0.06 | | | |

HEAD - SIZE AND METAL DISTRIBUTION ANALYSIS

| SIZE (µm) | Weight | | Cum. % Weight | | LOI | | Cum % Passing Grade | Cum. % LOI Passing | CO3 | | Cum % Passing Grade | Cum. % CO3 Passing |
|-----------|--------|-------|---------------|----------|-----------|----------|---------------------|--------------------|-----------|----------|---------------------|--------------------|
| | (g) | (%) | Passing | Retained | Assay (%) | Dist (%) | | | Assay (%) | Dist (%) | | |
| 150 | 158 | 15.8 | 84.2 | 15.8 | 48.3 | 15.5 | 49.2 | 84.5 | 69.6 | 15.7 | 69.8 | 84.3 |
| 106 | 109 | 10.9 | 73.4 | 26.6 | 48.0 | 10.7 | 49.4 | 73.8 | 71.6 | 11.2 | 69.5 | 73.1 |
| 75 | 92 | 9.2 | 64.1 | 35.9 | 47.6 | 9.0 | 49.6 | 64.9 | 68.8 | 9.1 | 69.6 | 64.0 |
| 53 | 76 | 7.6 | 56.6 | 43.4 | 48.2 | 7.4 | 49.8 | 57.4 | 65.4 | 7.1 | 70.2 | 56.9 |
| 38 | 82 | 8.2 | 48.4 | 51.6 | 49.0 | 8.2 | 49.9 | 49.2 | 67.1 | 7.9 | 70.7 | 49.0 |
| 23 | 45 | 4.4 | 43.9 | 56.1 | 50.5 | 4.6 | 49.9 | 44.7 | 67.8 | 4.3 | 71.0 | 44.7 |
| 16 | 144 | 14.4 | 29.5 | 70.5 | 50.3 | 14.8 | 49.7 | 29.8 | 70.5 | 14.6 | 71.3 | 30.1 |
| 11 | 125 | 12.5 | 17.0 | 83.0 | 50.2 | 12.8 | 49.3 | 17.1 | 70.1 | 12.6 | 72.1 | 17.5 |
| 9 | 69 | 6.9 | 10.1 | 89.9 | 49.8 | 7.0 | 48.9 | 10.0 | 72.8 | 7.2 | 71.7 | 10.3 |
| 0 | 101 | 10.1 | 0.0 | 100.0 | 48.9 | 10.0 | | | 71.7 | 10.3 | | |
| Total | 1,000 | 100.0 | | | 49.0 | 100.0 | | | 69.8 | 100.0 | | |
| Heads | | 100.0 | | | 49.0 | | | | 68.0 | | | |

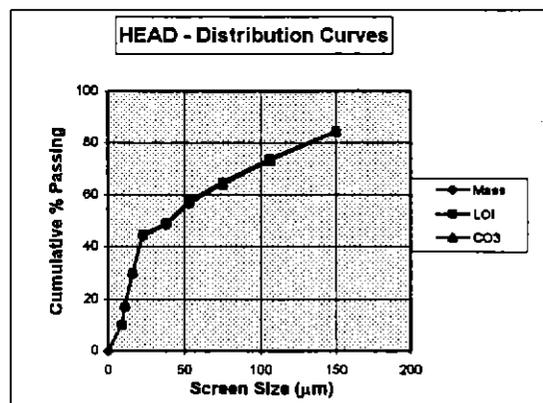
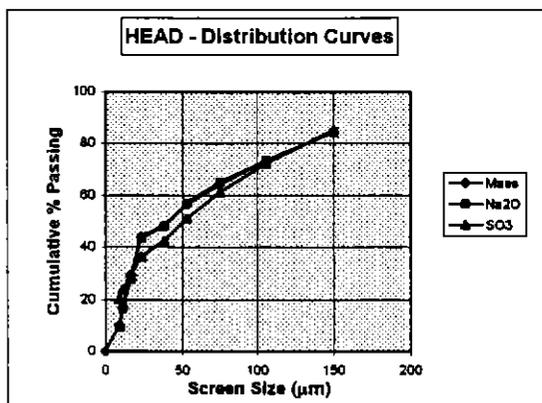


TABLE : 20

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #1 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2041 |
| DATE : | 11-Jun-98 |

| | | | | |
|--|-----------------|-----------------|-----------|---------|
| OBJECTIVES Optimise grade and recovery of magnesite. Vary grind | COMMENTS | | | |
| | | | | Scraper |
| | Stage | Cell Size litre | Rotor RPM | Size mm |
| | Rougher | 2.5 | 900 | n/a |
| | Cleaner | na | | |
| Reclnr | na | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum % | MgO | | Cum % | SiO ₂ | | Cum % | Fe ₂ O ₃ |
|--------------|--------|-------|-------|-------|-------|-------|------------------|-------|-------|--------------------------------|
| | g | % | | % | %dist | | % | %dist | | |
| Feed | 1000 | | | 43.90 | | | 2.82 | | | 0.80 |
| Quartz con 1 | 384.7 | 38.5 | 38.5 | 41.9 | 37.3 | 41.9 | 37.3 | 7.8 | 97.6 | 7.8 |
| Quartz con 2 | 113.3 | 11.3 | 49.8 | 45.4 | 11.9 | 42.7 | 49.1 | 0.4 | 1.4 | 6.1 |
| Magn. Con 1 | 201 | 20.1 | 20.1 | 45.1 | 20.9 | 45.1 | 20.9 | 0.0 | 0.1 | 0.0 |
| Magn. Con 2 | 91.7 | 9.2 | 29.3 | 43.6 | 9.2 | 44.6 | 30.1 | 0.0 | 0.0 | 0.0 |
| Magn. Con 3 | 34.1 | 3.4 | 32.7 | 42.6 | 3.4 | 44.4 | 33.5 | 0.0 | 0.0 | 0.0 |
| Tail | 175.5 | 17.5 | 100.0 | 42.9 | 17.4 | 42.9 | 100.0 | 0.2 | 0.9 | 0.2 |
| Calc'd Head | 1000.3 | 100.0 | | 43.3 | 100.0 | | | 3.1 | 100.0 | |
| Assay Head | | | | 43.9 | | | | 2.8 | | |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 106 µm

| Operation | Time (min) | | K2C g/t | FS-2 g/t | Caust. Starch g/t | Flotol B g/t | pH | mV (Sat. AgCl) | Temp °C |
|---------------|-------------|------------------|------------|------------|-------------------|--------------|------|----------------|---------|
| | Condn. | Float (firh.rmv) | | | | | | | |
| Grind | 21.5 | | | | | | | | |
| Condition | 5.0 | | 600 | | 210 | | 10.7 | | |
| Qrtz con 1 | 0.0 | 5.0 | | | | 33 | | | |
| Qrtz con 2 | 0.0 | 3.0 | | | | | 10.4 | | |
| MgO con 1 | 3.0 | 3.0 | | 600 | | | 9.9 | | |
| MgO con 2 | 0.0 | 3.0 | | | | | | | |
| MgO con 3 | 0.0 | 2.0 | | | | 16.5 | 9.0 | | |
| TOTALS | 29.5 | 16.0 | 600 | 600 | 210 | 49.5 | | | |

FLOTATION PROCEDURE

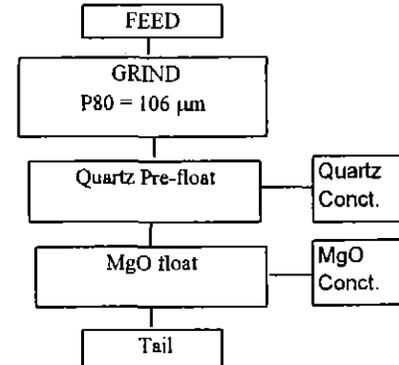


TABLE : 21

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #1 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2042 |
| DATE : | 11-Jun-98 |

| | | | | | |
|--|-----------------|-----------------|-----------|---------|-----------|
| OBJECTIVES Optimise grade and recovery of magnesite. Slighter, Vary Grind | COMMENTS | | | | |
| | Scraper | | | | |
| | Stage | Cell Size litre | Rotor RPM | Size mm | Freq. sec |
| | Rougher | 2.5 | 900 | n/a | n/a |
| | Cleaner | na | | | |
| Reclnr | na | | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum % | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ % |
|--------------|-------|-------|-------|-------|-------|------|-------|------------------|-------|------|-------|----------------------------------|
| | g | % | | % | % | % | % | % | % | % | | |
| Feed | 1000 | | | 43.90 | | | | 2.82 | | | | 0.80 |
| Quartz con 1 | 230.9 | 23.4 | 23.4 | 41.1 | 22.0 | 41.1 | 22.0 | 11.2 | 94.1 | 11.2 | 94.1 | 0.75 |
| Quartz con 2 | 60.9 | 6.2 | 29.6 | 45.4 | 6.4 | 42.0 | 28.4 | 1.1 | 2.5 | 9.1 | 96.7 | 0.76 |
| Magn. Con 1 | 159.9 | 16.2 | 16.2 | 46.2 | 17.1 | 46.2 | 17.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.70 |
| Magn. Con 2 | 116.0 | 11.8 | 28.0 | 45.2 | 12.1 | 45.8 | 29.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.75 |
| Magn. Con 3 | 48.3 | 4.9 | 32.8 | 45.1 | 5.0 | 45.7 | 34.3 | 0.1 | 0.2 | 0.0 | 0.3 | 0.79 |
| Tail | 371.1 | 37.6 | 100.0 | 43.5 | 37.3 | 43.5 | 100.0 | 0.2 | 3.0 | 0.2 | 100.0 | 0.79 |
| Calc'd Head | 987.1 | 100.0 | | 43.7 | 100.0 | | | 2.8 | 100.0 | | | 0.76 |
| Assay Head | | | | 43.9 | | | | 2.8 | | | | 0.80 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | FS-2 g/t | Caust. Starch g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|-------------|-----------------|------------|------------|-------------------|--------------|------|---------------|---------|
| | Condn. | Float (fth rml) | | | | | | | |
| Grind | 16.5 | | | | | | | | |
| Condition | 5.0 | | 450 | | 210 | | 10.7 | | |
| Qrtz con 1 | 0.0 | 4.0 | | | | 33 | | | |
| Qrtz con 2 | 0.0 | 2.0 | | | | | 10.3 | | |
| MgO con 1 | 3.0 | 3.0 | | 600 | | | 9.9 | 75 | |
| MgO con 2 | 0.0 | 3.0 | | | | | | | |
| MgO con 3 | 0.0 | 2.0 | | | | 16.5 | 9.3 | 115 | |
| TOTALS | 24.5 | 14.0 | 450 | 600 | 210 | 49.5 | | | |

FLOTATION PROCEDURE

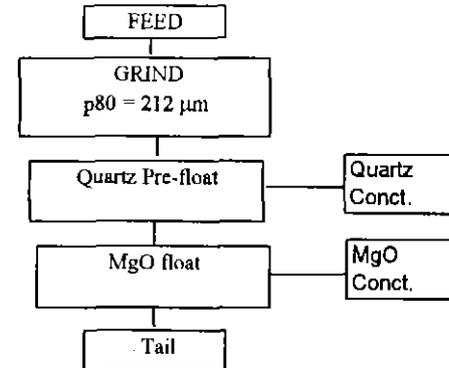


TABLE : 22

BATCH FLOTATION

| | |
|----------------------|-------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite # 1 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2046 |
| DATE : | 15-Jun-98 |

| OBJECTIVES | COMMENTS | | | |
|--|----------|-----------------|-----------|----------------------------------|
| | Stage | Cell Size litre | Rotor RPM | Scrapper Size mm Freq. sec |
| Optimise grade and recovery of magnesite. Increase Starch, FS-2 | Rougher | 2.5 | 900 | n/a n/a |
| | Cleaner | na | | |
| | Reclnr | na | | |
| | | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum % | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ % | CO ₃ % |
|--------------|-------|-------|-------|------|-------|-------|-------|------------------|-------|-------|-------|----------------------------------|-------------------|
| | g | % | | % | % | %dist | % | %dist | % | %dist | % | | |
| Feed | 1000 | | | 43.9 | | | | 2.82 | | | | 0.80 | 71.9 |
| Quartz con 1 | 325.9 | 33.0 | 33.0 | 42.6 | 31.9 | 42.6 | 31.9 | 7.4 | 90.9 | 7.4 | 90.9 | 0.74 | 65.7 |
| Quartz con 2 | 29.9 | 3.0 | 36.0 | 45.0 | 3.1 | 42.8 | 35.0 | 2.5 | 2.8 | 7.0 | 93.7 | 0.76 | 72.7 |
| Magn. Con 1 | 220.7 | 22.3 | 22.3 | 46.0 | 23.4 | 46.0 | 23.4 | 0.0 | 0.1 | 0.0 | 0.1 | 0.75 | 70.9 |
| Magn. Con 2 | 171.1 | 17.3 | 39.6 | 44.1 | 17.4 | 45.2 | 40.8 | 0.0 | 0.1 | 0.0 | 0.1 | 0.79 | 66.3 |
| Magn. Con 3 | 85.2 | 8.6 | 48.3 | 43.7 | 8.6 | 44.9 | 49.3 | 0.2 | 0.6 | 0.0 | 0.7 | 0.80 | 63.4 |
| Tail | 155.4 | 15.7 | 100.0 | 43.7 | 15.6 | 43.7 | 100.0 | 1.0 | 5.5 | 1.0 | 100.0 | 0.82 | 65.4 |
| Calc'd Head | 988.2 | 100.0 | | 44.0 | 100.0 | | | 2.7 | 100.0 | | | 0.77 | 66.9 |
| Assay Head | | | | 43.9 | | | | 2.8 | | | | 0.80 | 71.9 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | FS-2 g/t | Caust Starch g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|-------------|------------------|------------|------------|------------------|--------------|------|---------------|---------|
| | Condm. | Float (lith rml) | | | | | | | |
| Grind | 16.5 | | | | | | 9.5 | 115 | 17.5 |
| Condition | 5.0 | | 450 | | 300 | | 10.8 | -22 | 18 |
| Qrtz con 1 | 0.0 | 5.0 | | | | | | | |
| Qrtz con 2 | 0.0 | 3.0 | | | | | 10.2 | -15 | 18 |
| MgO con 1 | 3.0 | 3.0 | | 600 | | | | | |
| MgO con 2 | 2.0 | 3.0 | | 100 | | | | | |
| MgO con 3 | 2.0 | 3.0 | | 100 | | 16.5 | 8.6 | 130 | 19 |
| TOTALS | 28.5 | 17.0 | 450 | 800 | 300 | 16.5 | | | |

FLOTATION PROCEDURE

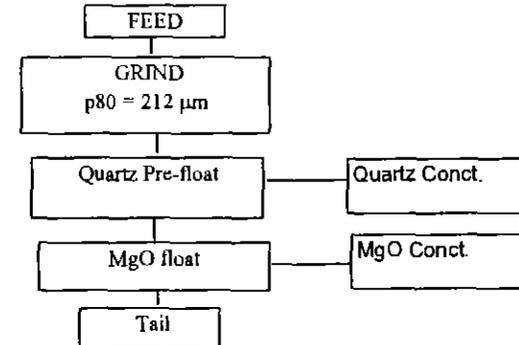


TABLE : 23

BATCH FLOTATION

| | |
|----------------------|-------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite # 1 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2047 |
| DATE : | 16-Jun-98 |

| | | | | |
|--|-----------------|-----------------|-----------|--------------------------------|
| OBJECTIVES | COMMENTS | | | |
| | Stage | Cell Size litre | Rotor RPM | Scrapers Size num Freq. sec |
| Optimise grade and recovery of magnesite. | Rougher | 2.5 | 900 | n/a n/a |
| Decrease K2C, increase Starch, and HAL 519 | Cleaner | na | | |
| | Reclnr | na | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | MgO | | | SiO ₂ | | Fe ₂ O ₃ | | CO ₃ | |
|--------------|-------|-------|-------|------|-------|------------------|-------|--------------------------------|-------|-----------------|------|
| | g | % | Cum % | % | %dist | Cum % | %dist | % | %dist | % | % |
| Feed | 1000 | | | 43.9 | | | 2.82 | | | 0.80 | 71.9 |
| Quartz con 1 | 75.3 | 7.6 | 7.6 | 28.9 | 5.0 | 28.9 | 5.0 | 35.1 | 94.9 | 0.75 | 33.9 |
| Quartz con 2 | 50.8 | 5.1 | 12.7 | 45.9 | 5.3 | 35.7 | 10.3 | 1.0 | 1.8 | 21.3 | 55.8 |
| Magn. Con 1 | 33.7 | 3.4 | 3.4 | 46.6 | 3.6 | 46.6 | 3.6 | 0.0 | 0.0 | 0.0 | 66.6 |
| Magn. Con 2 | 143.1 | 14.4 | 17.7 | 46.5 | 15.2 | 46.5 | 18.7 | 0.0 | 0.0 | 0.0 | 62.0 |
| Magn. Con 3 | 339.4 | 34.1 | 51.8 | 45.7 | 35.4 | 46.0 | 54.1 | 0.0 | 0.0 | 0.0 | 55.7 |
| Tail | 354.1 | 35.5 | 100.0 | 44.1 | 35.6 | 44.1 | 100.0 | 0.3 | 3.3 | 0.3 | 52.4 |
| Calc'd Head | 996.4 | 100.0 | | 44.0 | 100.0 | | | 2.8 | 100.0 | | 54.2 |
| Assay Head | | | | 43.9 | | | | 2.8 | | | 71.9 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | HAL519 g/t | Caust. Starch g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|-------------|---------------------|------------|---------------|-------------------------|-----------------|------|------------------|------------|
| | Condn. | Float (frth rml) | | | | | | | |
| Grind | 16.5 | | | | | | 9.5 | 205 | 16 |
| Condition | 5.0 | | 300 | | 300 | 16.5 | | | 16 |
| Qrtz con 1 | 0.0 | 5.0 | | | | | | | |
| Qrtz con 2 | 1.0 | 4.0 | | | | | 10.3 | 58 | 18.5 |
| MgO con 1 | 3.0 | 3.0 | | 600 | | 33 | | | |
| MgO con 2 | 1.0 | 3.0 | | 200 | | | | | |
| MgO con 3 | 1.0 | 7.0 | | 200 | | 16.5 | 8.5 | 240 | 20 |
| TOTALS | 27.5 | 22.0 | 300 | 1000 | 300 | 66 | | | |

FLOTATION PROCEDURE

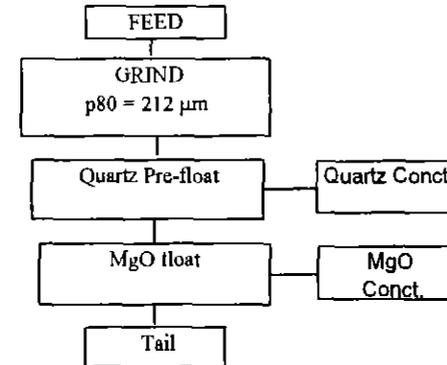


TABLE : 24

BATCH FLOTATION

| | |
|----------------------|-------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite # 1 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2063 |
| DATE : | 29-Jun-98 |

| | | | | | |
|--|-----------------|-----------------|-----------|---------|-----------|
| OBJECTIVES Optimise grade and recovery of magnesite. Repeat RB 2047 Decrease K2C, increase Starch, and HAL 519 | COMMENTS | | | | |
| | | | Scraper | | |
| | Stage | Cell Size litre | Rotor RPM | Size mm | Freq. sec |
| | Rougher | 2.5 | 900 | n/a | n/a |
| | Cleaner | na | | | |
| Reclnr | na | | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ | CO ₃ |
|--------------|-------|-------|-------|------|-------|------|-------|------------------|-------|------|-------|--------------------------------|-----------------|
| | g | % | % | % | %dist | % | %dist | % | %dist | % | %dist | % | % |
| Feed | 1000 | | | 43.9 | | | | 2.82 | | | | 0.80 | 71.9 |
| Quartz con 1 | 139.5 | 14.0 | 14.0 | 37.4 | 12.1 | 37.4 | 12.1 | 17.9 | 89.0 | 17.9 | 89.0 | 0.81 | |
| Quartz con 2 | 70.7 | 7.1 | 21.1 | 44.4 | 7.2 | 39.8 | 19.3 | 1.9 | 4.7 | 12.5 | 93.6 | 0.81 | |
| Magn. Con 1 | 36.6 | 3.7 | 3.7 | 45.9 | 3.9 | 45.9 | 3.9 | 0.2 | 0.3 | 0.2 | 0.3 | 0.76 | |
| Magn. Con 2 | 209.2 | 21.0 | 24.7 | 45.9 | 22.2 | 45.9 | 26.1 | 0.0 | 0.0 | 0.0 | 0.3 | 0.71 | |
| Magn. Con 3 | 253.5 | 25.5 | 50.2 | 44.5 | 26.1 | 45.2 | 52.1 | 0.0 | 0.0 | 0.0 | 0.3 | 0.73 | |
| Tail | 285.6 | 28.7 | 100.0 | 43.3 | 28.6 | 43.3 | 100.0 | 0.6 | 6.1 | 0.6 | 100.0 | 0.75 | |
| Calc'd Head | 995.1 | 100.0 | | 43.5 | 100.0 | | | 2.8 | 100.0 | | | 0.75 | 0.0 |
| Assay Head | | | | 43.9 | | | | 2.8 | | | | 0.80 | 71.9 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | HAL519 g/t | Caust. Starch g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|------------|---------------------|------------|---------------|-------------------------|-----------------|------|------------------|------------|
| | Condn. | Float (fith mvl) | | | | | | | |
| Grind | 16.5 | | | | | | 9.6 | 165 | 12 |
| Condition | 5.0 | | 300 | | 300 | 16.5 | | | 13 |
| Qrtz con 1 | 0.0 | 5.0 | 100 | | | | 10.6 | 82 | 15 |
| Qrtz con 2 | 2.0 | 3.0 | | | | | | | |
| MgO con 1 | 3.0 | 3.0 | | 600 | | 33 | | | |
| MgO con 2 | 1.0 | 3.0 | | 200 | | | | | |
| MgO con 3 | 1.0 | 7.0 | | 200 | | 16.5 | 8.5 | 146 | 16 |
| TOTALS | 28.5 | 21.0 | 400 | 1000 | 300 | 66 | | | |

FLOTATION PROCEDURE

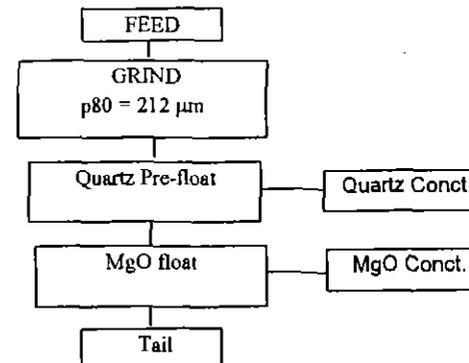


TABLE : 25

BATCH FLOTATION

| | |
|----------------------|-------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite # 1 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2048 |
| DATE : | 16-Jun-98 |

| OBJECTIVES | | | COMMENTS | | | | |
|---|--|--|----------|-----------------|-----------|---------|-----------|
| Optimise grade and recovery of magnesite. | | | Scraper | | | | |
| | | | Stage | Cell Size litre | Rotor RPM | Size mm | Freq. sec |
| Hal 519, Quebracho, Sod Silicate | | | Rougher | 2.5 | 900 | n/a | n/a |
| | | | Cleaner | na | | | |
| | | | Reclnr | aa | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum % | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ % | CO ₃ % |
|--------------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|----------------------------------|-------------------|
| | g | % | | % | % | %dist | % | %dist | % | %dist | % | | |
| Feed | 1000 | | | 43.90 | | | | 2.82 | | | | 0.80 | 71.9 |
| Quartz con 1 | 352.9 | 35.5 | 35.5 | 42.6 | 34.4 | 42.6 | 34.4 | 6.6 | 87.9 | 6.6 | 87.9 | 0.74 | 59.8 |
| Quartz con 2 | 93.8 | 9.4 | 44.9 | 45.5 | 9.8 | 43.2 | 44.2 | 1.2 | 4.1 | 5.4 | 92.0 | 0.73 | 51.5 |
| Magn. Con 1 | 197.4 | 19.8 | 19.8 | 45.2 | 20.4 | 45.2 | 20.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.71 | 42.8 |
| Magn. Con 2 | 81.7 | 8.2 | 28.1 | 44.1 | 8.2 | 44.9 | 28.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.75 | 52.6 |
| Tail | 269.1 | 27.0 | 100.0 | 44.0 | 27.1 | 44.0 | 100.0 | 0.8 | 8.0 | 0.8 | 100.0 | 0.78 | 50.8 |
| Calc'd Head | 994.9 | 100.0 | | 43.9 | 100.0 | | | 2.7 | 100.0 | | | 0.74 | 52.6 |
| Assay Head | | | | 43.9 | | | | 2.8 | | | | 0.80 | 71.9 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | Hal 519 g/t | Quebracho g/t | Sodium Silicate g/t | Flotal B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|-------------|-------------------|------------|-------------|---------------|---------------------|--------------|-----|---------------|---------|
| | Condn | Float (frth rrvl) | | | | | | | | |
| Grind | 16.5 | | | | | | | 9.6 | 300 | 17 |
| Condition | 5.0 | | 450 | | 50 | | 16.5 | | | 17.5 |
| Qrtz con 1 | 0.0 | 4.0 | | | | | | 9.2 | 150 | 19 |
| Qrtz con 2 | 0.0 | 3.0 | | | | | | | | |
| MgO con 1 | 2.0 | 3.0 | | 500 | | 100 | 16.5 | 7.9 | 170 | 19 |
| MgO con 2 | 1.0 | 3.0 | | 400 | | | | | | |
| TOTALS | 24.5 | 13.0 | 450 | 900 | 50 | 100 | 33 | | | |

FLOTATION PROCEDURE

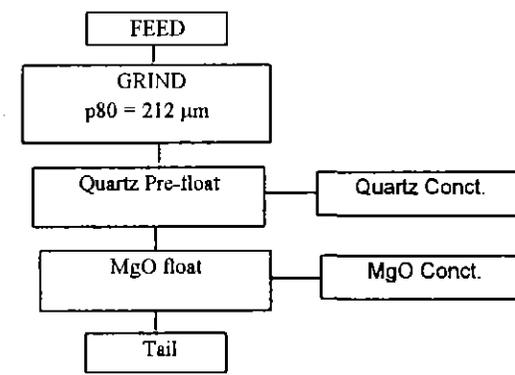


TABLE : 26

BATCH FLOTATION

| | |
|----------------------|-------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite # 1 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2059 |
| DATE : | 26-Jun-98 |

| | | | | | |
|--|-----------------|-----------------|-----------|---------|-----------|
| OBJECTIVES Optimise grade and recovery of magnesite. Reduce K2C, no starch, sod. silicate | COMMENTS | | | | |
| | | | Scraper | | |
| | Stage | Cell Size litre | Rotor RPM | Size mm | Freq. sec |
| | Rougher | 2.5 | 900 | 50 | 10 |
| | Cleaner | na | | | |
| Reclnr | pa | | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum % | MgO | | Cum % | SiO ₂ | | Cum % | Fe ₂ O ₃ % | CO ₃ % |
|--------------|-------|-------|-------|------|-------|-------|------------------|-------|-------|----------------------------------|-------------------|
| | g | % | | % | % | | %dist | % | | | |
| Feed | 1000 | | | 43.9 | | | 2.82 | | | 0.80 | 71.9 |
| Quartz con 1 | 167.1 | 16.8 | 16.8 | 38.3 | 14.8 | 38.3 | 15.7 | 92.1 | 15.7 | 0.72 | 47.5 |
| Quartz con 2 | 56.6 | 5.7 | 22.5 | 44.8 | 5.9 | 39.9 | 2.1 | 4.1 | 12.2 | 0.75 | 56.3 |
| Magn. Con 1 | 37.6 | 3.8 | 3.8 | 45.0 | 3.9 | 45.0 | 0.3 | 0.4 | 0.3 | 0.79 | 59.0 |
| Magn. Con 2 | 198.0 | 19.9 | 23.7 | 45.3 | 20.7 | 45.3 | 0.0 | 0.0 | 0.0 | 0.73 | 58.0 |
| Magn. Con 3 | 239.2 | 24.1 | 47.8 | 44.6 | 24.7 | 44.9 | 0.0 | 0.0 | 0.0 | 0.73 | 51.5 |
| Tail | 294.0 | 29.6 | 100.0 | 44.1 | 30.0 | 44.1 | 0.3 | 3.4 | 0.3 | 0.78 | 57.9 |
| Calc'd Head | 992.5 | 100.0 | | 43.6 | 100.0 | | 2.9 | 100.0 | | 0.75 | 54.5 |
| Assay Head | | | | 43.9 | | | 2.8 | | | 0.80 | 71.9 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grnd: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | FS2 g/t | Sod. Silicate g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|-------------|-------------------|------------|------------|-------------------|--------------|-----|---------------|---------|
| | Condtn. | Float (frth mmvl) | | | | | | | |
| Grnd | 16.5 | | | | | | 9.6 | 126 | 17 |
| Condition | 2.0 | | 200 | | | 16.5 | | | 17.5 |
| Qrtz con 1 | 0.0 | 3.0 | | | | | | | |
| Qrtz con 2 | 1.0 | 2.0 | | | | | 9.4 | 130 | 18.5 |
| MgO con 1 | 3.0 | 2.0 | | 250 | 100 | 16.5 | | | |
| MgO con 2 | 1.0 | 3.0 | | 250 | | | | | |
| MgO con 3 | 1.0 | 3.0 | | 250 | | | 8.7 | 145 | 19 |
| TOTALS | 24.5 | 13.0 | 200 | 750 | 100 | 33 | | | |

FLOTATION PROCEDURE

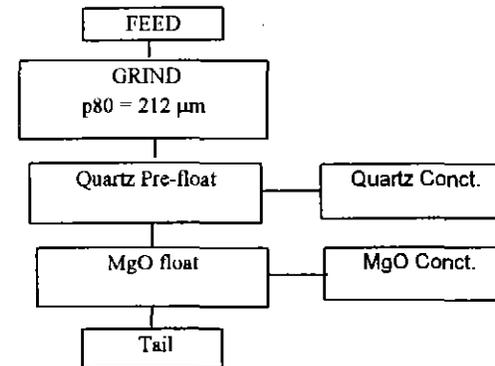


TABLE : 27

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #2 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2043 |
| DATE : | 11-Jun-98 |

| | | | | |
|--|-----------------|------------------------|------------------|------------------|
| OBJECTIVES Optimise grade and recovery of magnesite. Vary Grind | COMMENTS | | | |
| | Stage | Cell Size litre | Rotor RPM | Scraper |
| | | | | Size mm |
| | | | | Freq. sec |
| | Rougher | 2.5 | 900 | n/a |
| Cleaner | na | | | |
| Reclnr | na | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum % | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ % | CO ₃ % |
|--------------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|----------------------------------|-------------------|
| | g | % | | % | % | %dist | % | %dist | % | %dist | % | | |
| Feed | 1000 | | | 42.00 | | | | 3.03 | | | | 3.31 | 68.0 |
| Quartz con 1 | 288.6 | 29.0 | 29.0 | 40.0 | 27.7 | 40.0 | 27.7 | 9.2 | 89.6 | 9.2 | 89.6 | 3.12 | 64.1 |
| Quartz con 2 | 26.3 | 2.6 | 31.6 | 42.6 | 2.7 | 40.2 | 30.4 | 3.0 | 2.6 | 8.7 | 92.2 | 3.35 | 70.3 |
| Magn. Con 1 | 81.4 | 8.2 | 8.2 | 43.6 | 8.5 | 43.6 | 8.5 | 0.2 | 0.5 | 0.2 | 0.5 | 3.37 | 67.9 |
| Magn. Con 2 | 48.7 | 4.9 | 13.1 | 43.7 | 5.1 | 43.6 | 13.6 | 0.1 | 0.2 | 0.2 | 0.7 | 3.33 | 72.1 |
| Magn. Con 3 | 286.1 | 28.7 | 41.8 | 42.8 | 29.4 | 43.1 | 43.0 | 0.0 | 0.1 | 0.1 | 0.8 | 3.31 | 67.4 |
| Tail | 264.5 | 26.6 | 100.0 | 41.9 | 26.6 | 41.9 | 100.0 | 0.8 | 7.0 | 0.8 | 100.0 | 3.30 | 70.2 |
| Calc'd Head | 995.6 | 100.0 | | 41.9 | 100.0 | | | 3.0 | 100.0 | | | 3.26 | 67.5 |
| Assay Head | | | | 42.0 | | | | 3.0 | | | | 3.31 | 68.0 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | FS-2 g/t | Caust. Starch g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|-------------|------------------|------------|------------|-------------------|--------------|------|---------------|---------|
| | Condtn. | Float (frth rml) | | | | | | | |
| Grind | 30.0 | | | | | | 9.8 | 130 | 17.5 |
| Condition | 5.0 | | 450 | | 210 | | 10.8 | 29 | |
| Qrtz con 1 | 0.0 | 5.0 | | | | | | | 18 |
| Qrtz con 2 | 0.0 | 3.0 | | | | | 10.2 | 90 | |
| MgO con 1 | 3.0 | 3.0 | | 600 | | | | | 19 |
| MgO con 2 | 1.0 | 3.0 | | | | 16.5 | | | |
| MgO con 3 | 1.0 | 4.0 | | 200 | | | 8.9 | 142 | 20 |
| TOTALS | 40.0 | 18.0 | 450 | 800 | 210 | 16.5 | | | |

FLOTATION PROCEDURE

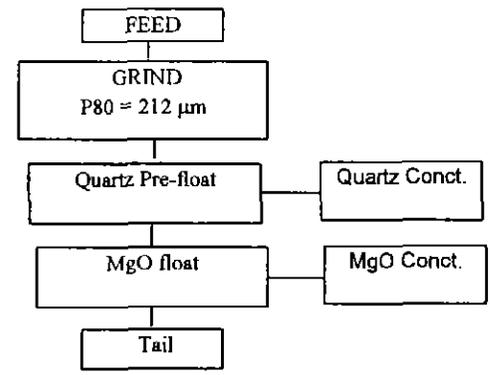


TABLE : 28

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #2 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2044 |
| DATE : | 11-Jun-98 |

| OBJECTIVES | COMMENTS | | | | |
|--|----------|-----------------|-----------|---------|-----|
| | Stage | Cell Size litre | Rotor RPM | Scraper | |
| Optimise grade and recovery of magnesite. Sighter, Vary Grind | Size | mm | Freq. | sec | |
| | Rougher | 2.5 | 900 | n/a | n/a |
| | Cleaner | na | | | |
| | Rechr | na | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ | CO ₃ |
|--------------|-------|-------|-------|-------|-------|------|-------|------------------|-------|------|-------|--------------------------------|-----------------|
| | g | % | % | % | %dist | % | %dist | % | %dist | % | %dist | % | % |
| Feed | 1000 | | | 42.00 | | | | 3.03 | | | | 3.31 | 68.0 |
| Quartz con 1 | 257.3 | 26.0 | 26.0 | 39.2 | 24.4 | 39.2 | 24.4 | 11.3 | 95.7 | 11.3 | 95.7 | 3.14 | 58.8 |
| Quartz con 2 | 55 | 5.5 | 31.5 | 43.4 | 5.8 | 39.9 | 30.2 | 1.2 | 2.1 | 9.5 | 97.9 | 3.45 | 63.2 |
| Magn. Con 1 | 34.6 | 3.5 | 3.5 | 42.8 | 3.6 | 42.8 | 3.6 | 0.5 | 0.5 | 0.5 | 0.5 | 3.36 | 71.8 |
| Magn. Con 2 | 34.4 | 3.5 | 7.0 | 43.7 | 3.6 | 43.3 | 7.2 | 0.2 | 0.2 | 0.3 | 0.8 | 3.43 | 71.3 |
| Magn. Con 3 | 39.9 | 4.0 | 11.0 | 43.5 | 4.2 | 43.3 | 11.4 | 0.1 | 0.2 | 0.3 | 0.9 | 3.37 | 62.5 |
| Magn. Con 4 | 439.1 | 44.3 | 55.3 | 42.5 | 45.2 | 42.6 | 56.6 | 0.0 | 0.1 | 0.1 | 1.1 | 3.27 | 59.1 |
| Tail | 131.0 | 13.2 | 100.0 | 41.4 | 13.1 | 41.4 | 100.0 | 0.3 | 1.1 | 0.3 | 100.0 | 3.26 | 62.7 |
| Calc'd Head | 991.3 | 100.0 | | 41.6 | 100.0 | | | 3.1 | 100.0 | | | 3.26 | 60.7 |
| Assay Head | | | | 42.0 | | | | 3.0 | | | | 3.31 | 68.0 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 106 µm

| Operation | Time (min) | | K2C g/t | FS-2 g/t | Caust. Starch g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|------------|------------|------------------|---------|----------|-------------------|--------------|------|---------------|---------|
| | Condtn. | Float (frth rml) | | | | | | | |
| Grind | 40.0 | | | | | | 9.8 | 135 | 16 |
| Condition | 5.0 | | 450 | | 210 | | 10.9 | 25 | 16 |
| Qrtz con 1 | 0.0 | 5.0 | | | | | | | |
| Qrtz con 2 | 0.0 | 3.0 | | | | | 10.3 | 82 | 16 |
| MgO con 1 | 3.0 | 3.0 | | 600 | | 33 | | | |
| MgO con 2 | 0.0 | 3.0 | | | | 16.5 | | | |
| MgO con 3 | 0.0 | 4.0 | | | | | | | |
| MgO con 4 | 2.0 | 2.0 | | 200 | | | 8.4 | 150 | 18 |
| TOTALS | 50.0 | 20.0 | 450 | 800 | 210 | 49.5 | | | |

FLOTATION PROCEDURE

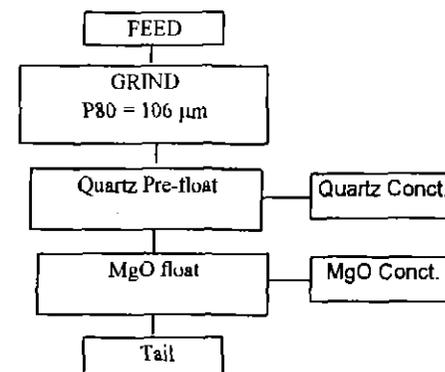


TABLE : 29

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #2 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2049 |
| DATE : | 16-Jun-98 |

| OBJECTIVES | COMMENTS | | | | |
|--|----------|--------------------|--------------|------------|--------------|
| | Stage | Cell Size litre | Rotor RPM | Size mm | Freq. sec |
| Optimise grade and recovery of magnesite. Increase Starch | Rougher | 2.5 | 900 | n/a | n/a |
| | Cleaner | na | | | |
| | Reclnr | na | | | |
| | Scrapr | | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ | CO ₃ |
|--------------|-------|-------|-------|-------|-------|------|-------|------------------|-------|------|-------|--------------------------------|-----------------|
| | g | % | % | % | %dist | % | %dist | % | %dist | % | %dist | % | % |
| Feed | 1000 | | | 42.00 | | | | 3.03 | | | | 3.31 | 68.0 |
| Quartz con 1 | 203.2 | 20.6 | 20.6 | 39.3 | 19.4 | 39.3 | 19.4 | 10.9 | 77.0 | 10.9 | 77.0 | 3.01 | 46.5 |
| Quartz con 2 | 34.4 | 3.5 | 24.1 | 40.9 | 3.4 | 39.5 | 22.9 | 5.9 | 7.1 | 10.1 | 84.1 | 3.17 | 54.4 |
| Magn. Con 1 | 252.4 | 25.5 | 25.5 | 43.1 | 26.5 | 43.1 | 26.5 | 0.0 | 0.0 | 0.0 | 0.0 | 3.30 | 56.9 |
| Magn. Con 2 | 162.1 | 16.4 | 42.0 | 41.8 | 16.5 | 42.6 | 43.1 | 0.1 | 0.7 | 0.0 | 0.7 | 3.21 | 49.1 |
| Magn. Con 3 | 113.0 | 11.4 | 53.4 | 41.5 | 11.4 | 42.4 | 54.5 | 0.4 | 1.6 | 0.1 | 2.3 | 3.27 | 47.1 |
| Tail | 222.8 | 22.6 | 100.0 | 41.7 | 22.6 | 41.7 | 100.0 | 1.8 | 13.6 | 1.8 | 100.0 | 3.27 | 50.0 |
| Calc'd Head | 987.9 | 100.0 | | 41.5 | 100.0 | | | 2.9 | 100.0 | | | 3.21 | 50.7 |
| Assay Head | | | | 42.0 | | | | 3.0 | | | | 3.31 | 68.0 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | FS-2 g/t | Caust. Starch g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|------------|------------|---------------------|------------|-------------|-------------------------|-----------------|------|------------------|------------|
| | Condn. | Float (frth mvl) | | | | | | | |
| Grind | 30.0 | | | | | | 9.6 | 188 | 18 |
| Condition | 5.0 | | 450 | | 300 | | | | 18.5 |
| Qrtz con 1 | 0.0 | 5.0 | | | | | | | |
| Qrtz con 2 | 0.0 | 3.0 | | | | | 10.3 | 26 | |
| MgO con 1 | 3.0 | 3.0 | | 600 | | | | | 20 |
| MgO con 2 | 1.0 | 3.0 | | 100 | | 16.5 | | | |
| MgO con 3 | 1.0 | 2.0 | | 100 | | | 9.4 | 50 | 21 |
| TOTALS | 40.0 | 16.0 | 450 | 800 | 300 | 16.5 | | | |

FLOTATION PROCEDURE

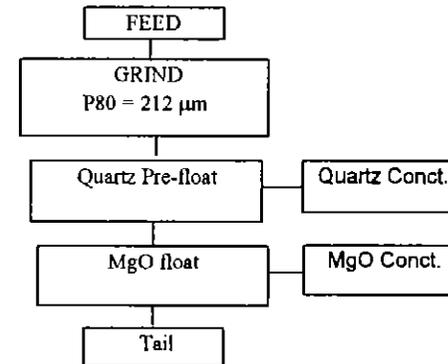


TABLE : 30

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #2 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2050 |
| DATE : | 16-Jun-98 |

| OBJECTIVES | | | COMMENTS | | | | |
|---|--|--|----------|-----------------|-----------|---------|-----------|
| Optimise grade and recovery of magnesite. | | | Scrapers | | | | |
| | | | Stage | Cell Size litre | Rotor RPM | Size mm | Freq. sec |
| Decrease K2C, increase Starch, HAL519 | | | Rougher | 2.5 | 900 | n/a | n/a |
| | | | Cleaner | na | | | |
| | | | Reclnr | na | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum % | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ % | CO ₃ % |
|--------------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|----------------------------------|-------------------|
| | g | % | | % | % | %dist | % | %dist | % | %dist | % | | |
| Feed | 1000 | | | 42.00 | | | | 3.03 | | | | 3.31 | 68.0 |
| Quartz con 1 | 143.2 | 14.5 | 14.5 | 37.3 | 12.9 | 37.3 | 12.9 | 15.8 | 75.7 | 15.8 | 75.7 | 2.86 | 51.3 |
| Quartz con 2 | 14.5 | 1.5 | 15.9 | 36.4 | 1.3 | 37.2 | 14.2 | 15.7 | 7.6 | 15.8 | 83.3 | 2.75 | 47.6 |
| Magn. Con 1 | 109.3 | 11.0 | 11.0 | 44.1 | 11.7 | 44.1 | 11.7 | 0.1 | 0.5 | 0.1 | 0.5 | 3.40 | 61.2 |
| Magn. Con 2 | 173.0 | 17.5 | 28.5 | 43.9 | 18.4 | 44.0 | 30.1 | 0.0 | 0.0 | 0.1 | 0.5 | 3.31 | 53.2 |
| Magn. Con 3 | 143.2 | 14.5 | 43.0 | 42.8 | 14.9 | 43.6 | 44.9 | 0.0 | 0.0 | 0.0 | 0.5 | 3.25 | 49.0 |
| Tail | 406.2 | 41.1 | 100.0 | 41.5 | 40.9 | 41.5 | 100.0 | 1.2 | 16.3 | 1.2 | 100.0 | 3.29 | 57.3 |
| Calc'd Head | 989.4 | 100.0 | | 41.7 | 100.0 | | | 3.0 | 100.0 | | | 3.23 | 54.8 |
| Assay Head | | | | 42.0 | | | | 3.0 | | | | 3.31 | 68.0 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | HAL519 g/t | Caust. Starch g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|------------|------------------|---------|------------|-------------------|--------------|------|---------------|---------|
| | Condtu. | Float (frth rml) | | | | | | | |
| Grind | 30.0 | | | | | | 9.6 | 68 | 18.5 |
| Condition | 5.0 | | 300 | | 300 | 16.5 | | | |
| Qrtz con 1 | 0.0 | 4.0 | | | | | | | |
| Qrtz con 2 | 0.0 | 3.0 | | | | | 10.4 | 8 | 20 |
| MgO con 1 | 3.0 | 3.0 | | 600 | | 33 | | | |
| MgO con 2 | 1.0 | 3.0 | | 100 | | | | | |
| MgO con 3 | 1.0 | 3.0 | | 100 | | | 8.5 | 46 | 21 |
| TOTALS | 40.0 | 16.0 | 300 | 800 | 300 | 49.5 | | | |

FLOTATION PROCEDURE

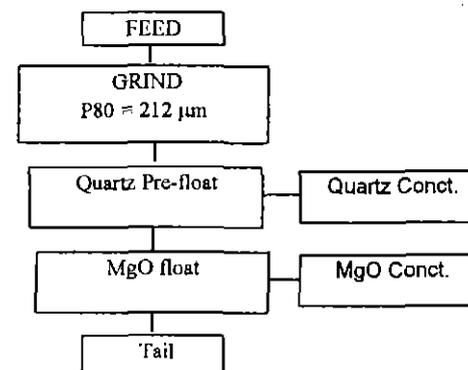


TABLE : 31

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #2 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2051 |
| DATE : | 17-Jun-98 |

| | | | | |
|---|-----------------|-----------------|-----------|-----------------------------|
| OBJECTIVES | COMMENTS | | | |
| | Stage | Cell Size litre | Rotor RPM | Scraper Size mm Freq sec |
| Optimise grade and recovery of magnesite. | Rougher | 2.5 | 900 | n/a n/a |
| Hal 519, Quebracho, Sod Silicate | Cleaner | na | | |
| | Reclnr | na | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum % | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ % | CO ₃ % |
|--------------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|----------------------------------|-------------------|
| | g | % | | % | % | %dist | % | %dist | % | %dist | % | | |
| Feed | 1000 | | | 42.00 | | | | 3.03 | | | | 3.31 | 68.0 |
| Quartz con 1 | 230.6 | 23.4 | 23.4 | 38.9 | 21.7 | 38.9 | 21.7 | 11.2 | 87.7 | 11.2 | 87.7 | 3.08 | 54.7 |
| Quartz con 2 | 154.2 | 15.6 | 39.0 | 43.2 | 16.1 | 40.6 | 37.9 | 1.0 | 5.4 | 7.1 | 93.1 | 3.28 | 62.7 |
| Magn. Con 1 | 117.3 | 11.9 | 11.9 | 43.2 | 12.3 | 43.2 | 12.3 | 0.0 | 0.0 | 0.0 | 0.0 | 3.20 | 44.4 |
| Magn. Con 2 | 129.5 | 13.1 | 25.0 | 42.9 | 13.5 | 43.0 | 25.7 | 0.0 | 0.0 | 0.0 | 0.0 | 3.24 | 44.5 |
| Magn. Con 3 | 68.7 | 7.0 | 32.0 | 42.4 | 7.1 | 42.9 | 32.8 | 0.0 | 0.0 | 0.0 | 0.0 | 3.30 | 51.8 |
| Tail | 286.3 | 29.0 | 100.0 | 42.3 | 29.3 | 42.3 | 100.0 | 0.7 | 6.9 | 0.7 | 100.0 | 3.35 | 48.5 |
| Calc'd Head | 986.6 | 100.0 | | 41.8 | 100.0 | | | 3.0 | 100.0 | | | 3.24 | 51.4 |
| Assay Head | | | | 42.0 | | | | 3.0 | | | | 3.31 | 68.0 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | HAL519 g/t | Quebracho g/t | Sodium Silicate g/l | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|-------------|------------------|------------|------------|---------------|---------------------|--------------|-----|---------------|---------|
| | Condn | Float (frth rml) | | | | | | | | |
| Grind | 30.0 | | | | | | | 9.9 | 150 | 16 |
| Condition | 5.0 | | 450 | | 50 | | 16.5 | | | |
| Qrtz con 1 | 0.0 | 4.0 | | | | | | 9.7 | 125 | 17.5 |
| Qrtz con 2 | 0.0 | 3.0 | | | | | | | | |
| MgO con 1 | 2.0 | 3.0 | | 500 | | 100 | 16.5 | | | |
| MgO con 2 | 1.0 | 3.0 | | 200 | | | | | | |
| MgO con 3 | 1.0 | 3.0 | | 200 | | | | 8.3 | 155 | 19 |
| TOTALS | 39.0 | 16.0 | 450 | 900 | 50 | 100 | 33 | | | |

FLOTATION PROCEDURE

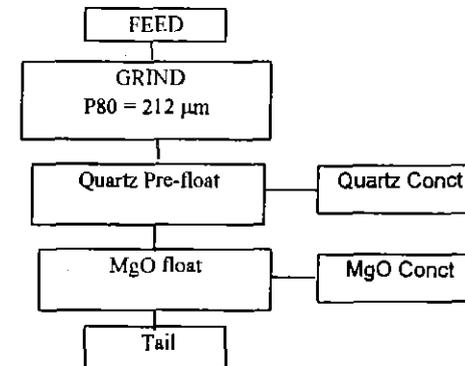


TABLE : 32

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #2 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2060 |
| DATE : | 23-Jun-98 |

| | | | | |
|--|-----------------|-----------------|-----------|-----------|
| OBJECTIVES Optimise grade and recovery of magnesite. No Starch, Reduce K2C, Sod. Silicate | COMMENTS | | | |
| | Scraper | | | |
| | Stage | Cell Size litre | Rotor RPM | Freq. sec |
| | Rougher | 2.5 | 900 | 50 |
| | Cleaner | na | | |
| Reclnr | na | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ | CO ₃ |
|--------------|-------|-------|-------|-------|-------|------|-------|------------------|-------|------|-------|--------------------------------|-----------------|
| | g | % | % | % | %dist | % | %dist | % | %dist | % | %dist | % | % |
| Feed | 1000 | | | 42.00 | | | | 3.03 | | | | 3.31 | 68.0 |
| Quartz con 1 | 61.4 | 6.2 | 6.2 | 27.1 | 4.0 | 27.1 | 4.0 | 40.0 | 82.9 | 40.0 | 82.9 | 2.28 | 32.2 |
| Quartz con 2 | 28.9 | 2.9 | 9.1 | 41.6 | 2.9 | 31.8 | 6.9 | 5.0 | 4.9 | 28.8 | 87.7 | 3.47 | 49.9 |
| Magn. Con 1 | 25.1 | 2.5 | 2.5 | 42.8 | 2.6 | 42.8 | 2.6 | 1.2 | 1.0 | 1.2 | 1.0 | 3.58 | 51.8 |
| Magn. Con 2 | 304.9 | 30.8 | 33.3 | 43.4 | 32.1 | 43.4 | 34.7 | 0.0 | 0.0 | 0.1 | 1.0 | 3.31 | 51.4 |
| Magn. Con 3 | 270.8 | 27.3 | 60.6 | 42.9 | 28.1 | 43.2 | 62.8 | 0.0 | 0.0 | 0.1 | 1.0 | 3.28 | 51.0 |
| Tail | 300.3 | 30.3 | 100.0 | 41.7 | 30.3 | 41.7 | 100.0 | 1.1 | 11.2 | 1.1 | 100.0 | 3.27 | 52.4 |
| Calc'd Head | 991.4 | 100.0 | | 41.7 | 100.0 | | | 3.0 | 100.0 | | | 3.24 | 50.4 |
| Assay Head | | | | 42.0 | | | | 3.0 | | | | 3.31 | 68.0 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 212 µm

| Operation | Time (min) | | K2C g/t | FS2 g/t | Sod. Silicate g/t | Florol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|-------------|---------------------|------------|------------|-------------------------|-----------------|-----|------------------|------------|
| | Condn. | Float (frth mvl) | | | | | | | |
| Grind | 30.0 | | | | | | 9.9 | 75 | 15 |
| Condition | 2.0 | | 400 | | | 33 | | | |
| Qrtz con 1 | 0.0 | 3.0 | 50 | | | | 9.5 | 100 | 15.5 |
| Qrtz con 2 | 1.0 | 1.0 | | | | | | | |
| MgO con 1 | 3.0 | 3.0 | | 250 | 100 | | | | |
| MgO con 2 | 1.0 | 3.0 | | 250 | | | | | |
| MgO con 3 | 1.0 | 3.0 | | 250 | | 16.5 | 8.8 | 118 | 18 |
| TOTALS | 38.0 | 13.0 | 450 | 750 | 100 | 49.5 | | | |

FLOTATION PROCEDURE

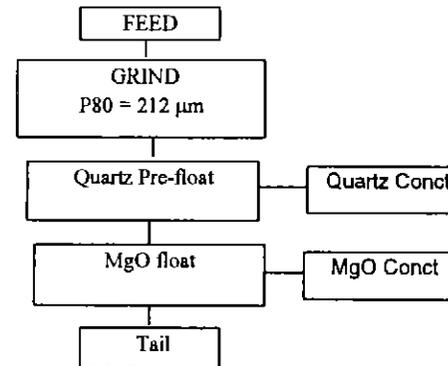


TABLE : 33

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #2 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | RB2062 |
| DATE : | 23-Jun-98 |

| OBJECTIVES | COMMENTS | | | |
|--|----------|-----------------|-----------|----------------------------------|
| | Stage | Cell Size litre | Rotor RPM | Scrapers Size mm Freq. sec |
| Optimise grade and recovery of magnesite. No Starch, Reduce K2C, Sod. Silicate P80 = 106µm | Rougher | 2.5 | 900 | 50 10 |
| | Cleaner | na | | |
| | Reclnr | na | | |
| | | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ | CO ₃ |
|--------------|-------|-------|-------|-------|-------|------|-------|------------------|-------|------|-------|--------------------------------|-----------------|
| | g | % | % | % | %dist | % | %dist | % | %dist | % | %dist | % | % |
| Feed | 1000 | | | 42.00 | | | | 3.03 | | | | 3.31 | 68.0 |
| Quartz con 1 | 88.2 | 8.9 | 8.9 | 30.1 | 6.4 | 30.1 | 6.4 | 31.1 | 92.7 | 31.1 | 92.7 | 2.48 | 37.0 |
| Quartz con 2 | 22.2 | 2.2 | 11.1 | 41.2 | 2.2 | 32.4 | 8.6 | 6.4 | 4.8 | 26.2 | 97.4 | 3.38 | 49.4 |
| Magn. Con 1 | 14.9 | 1.5 | 1.5 | 42.2 | 1.5 | 42.2 | 1.5 | 1.7 | 0.8 | 1.7 | 0.8 | 3.58 | 59.6 |
| Magn. Con 2 | 321.0 | 32.3 | 33.8 | 43.6 | 33.9 | 43.6 | 35.4 | 0.0 | 0.0 | 0.1 | 0.8 | 3.39 | 56.0 |
| Magn. Con 3 | 403.4 | 40.6 | 74.5 | 42.5 | 41.5 | 43.0 | 76.9 | 0.0 | 0.0 | 0.0 | 0.8 | 3.27 | 50.9 |
| Tail | 143.1 | 14.4 | 100.0 | 41.8 | 14.5 | 41.8 | 100.0 | 0.4 | 1.7 | 0.4 | 100.0 | 3.27 | 50.7 |
| Calc'd Head | 992.8 | 100.0 | | 41.6 | 100.0 | | | 3.0 | 100.0 | | | 3.25 | 51.3 |
| Assay Head | | | | 42.0 | | | | 3.0 | | | | 3.31 | 68.0 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 106 µm

| Operation | Time (min) | | K2C g/t | FS2 g/t | Sod. Silicate g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|-------------|---------------------|------------|------------|-------------------------|-----------------|-----|------------------|------------|
| | Condn. | Float (frth mvl) | | | | | | | |
| Grind | 40.0 | | | | | | 9.7 | 121 | 16.5 |
| Condition | 2.0 | | 300 | | | 16.5 | | | |
| Ortz con 1 | 0.0 | 3.0 | | | | | 9.4 | 123 | 18 |
| Ortz con 2 | 1.0 | 2.0 | | | | | | | |
| MgO con 1 | 3.0 | 2.0 | | 250 | 100 | 16.5 | | | |
| MgO con 2 | 1.0 | 3.0 | | 250 | | | | | |
| MgO con 3 | 1.0 | 3.0 | | 250 | | | 8.4 | 140 | 19 |
| TOTALS | 48.0 | 13.0 | 300 | 750 | 100 | 33 | | | |

FLOTATION PROCEDURE

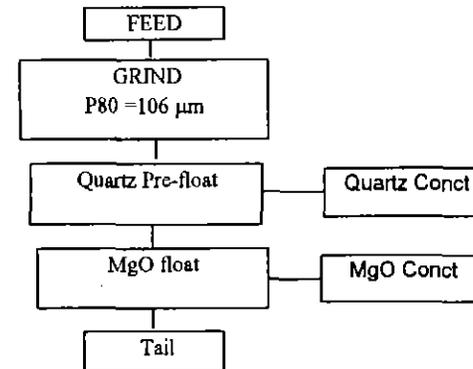


TABLE : 34

BATCH FLOTATION

| | |
|---------------------|-------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION: | Magnesite Composite # 1 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | Bulk #1 |
| DATE : | 4-Jul-98 |

| OBJECTIVES | | | COMMENTS | | | | |
|---|----|--|----------|--------------------|--------------|------------|--------------|
| Bulk Float: To produce conct for further processing. | | | Scraper | | | | |
| | | | Stage | Cell Size litre | Rotor RPM | Size mm | Freq. sec |
| | | | Rougher | 5 | 900 | 50 | 10 |
| | | | Cleaner | na | | | |
| Reclnr | na | | | | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ | CO ₃ | I.OI | SO ₃ |
|--------------|---------|-------|-------|------|-------|------|-------|------------------|-------|------|-------|--------------------------------|-----------------|-------|-----------------|
| | g | % | % | % | %dist | % | %dist | % | %dist | % | %dist | % | % | % | % |
| Feed | 12000 | | | 43.9 | | | | 2.82 | | | | 0.80 | 71.9 | 50.10 | 0.06 |
| Quartz con 1 | 1269.3 | 10.6 | 10.6 | 34.9 | 8.5 | 34.9 | 8.5 | 23.2 | 95.3 | 23.2 | 95.3 | 0.75 | 59.0 | 39.44 | 0.34 |
| Quartz con 2 | 384.1 | 3.2 | 13.8 | 44.5 | 3.3 | 37.1 | 11.7 | 2.40 | 3.0 | 18.4 | 98.3 | 0.78 | 74.0 | 50.33 | 0.07 |
| MgO Conc | 10315.8 | 86.2 | 100.0 | 44.8 | 88.3 | 44.8 | 100.0 | 0.05 | 1.7 | 0.1 | 100.0 | 0.73 | 72.0 | 51.43 | 0.03 |
| Calc'd Head | 11969.2 | 100.0 | | 43.7 | 100.0 | | | 2.58 | 100.0 | | | 0.73 | 70.7 | 50.1 | 0.06 |
| Assay Head | | | | 43.9 | | | | 2.82 | | | | 0.80 | 71.9 | 50.1 | 0.06 |

SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 - 212 µm

| Operation | Time (min) | | K2C g/t | FS2 g/t | Sod. Silicate g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|------------|----------------------|------------|------------|-------------------------|-----------------|-----|------------------|------------|
| | Condm. | Float (frth rmvt) | | | | | | | |
| Grind | 16.5 | | | | | | 9.6 | 155 | 16.5 |
| Condition | 2.0 | | 200 | | | 16.5 | 9.7 | 140 | |
| Qrtz con 1 | 0.0 | 3.0 | | | | | | | |
| Qrtz con 2 | 0.0 | 2.0 | | | | | 9.4 | 152 | 17.5 |
| TOTALS | 18.5 | 5.0 | 200 | 0 | 0 | 16.5 | | | |

**FLOTATION
PROCEDURE**

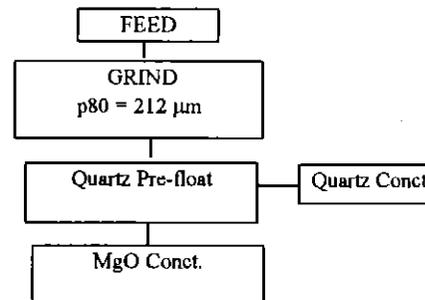


TABLE : 35

BATCH FLOTATION

| | |
|----------------------|------------------------|
| CLIENT NAME: | Golden Triangle |
| SAMPLE DESCRIPTION : | Magnesite Composite #2 |
| JOB NUMBER : | 7740 |
| TEST DESCRIPTION: | Batch Flotation |
| TEST NUMBER : | Bulk #2 |
| DATE : | 3-Jul-98 |

| OBJECTIVES | COMMENTS | | | | |
|---|----------|-----------------|-----------|---------|-----------|
| | Stage | Cell Size litre | Rotor RPM | Size mm | Freq. sec |
| Bulk Float: To produce conct for further processing. | Rougher | 5 | 900 | 50 | 10 |
| | Cleaner | na | | | |
| | Reclnr | pa | | | |
| | | | | | |

MASS AND METAL BALANCES

| PRODUCT | MASS | | Cum | MgO | | Cum | | SiO ₂ | | Cum | | Fe ₂ O ₃ | CO ₃ | LOI | SO ₃ |
|--------------|---------|-------|-------|-------|-------|------|-------|------------------|-------|------|-------|--------------------------------|-----------------|-------|-----------------|
| | g | % | % | % | %dist | % | %dist | % | %dist | % | %dist | % | % | % | % |
| Feed | 12000 | | | 42.00 | | | | 3.03 | | | | 3.31 | 68.0 | 49.00 | 0.1 |
| Quartz con 1 | 1830.7 | 15.3 | 15.3 | 35.8 | 13.1 | 35.8 | 13.1 | 19.0 | 95.5 | 19.0 | 95.5 | 2.92 | 59.0 | 40.40 | 0.27 |
| Quartz con 2 | 397.4 | 3.3 | 18.6 | 42.1 | 3.3 | 36.9 | 16.5 | 3.35 | 3.7 | 16.2 | 99.2 | 3.38 | 72.0 | 48.70 | 0.08 |
| MgO Conct. | 9740.0 | 81.4 | 100.0 | 42.9 | 83.5 | 42.9 | 100.0 | 0.03 | 0.8 | 0.0 | 100.0 | 3.66 | 67.5 | 50.60 | 0.03 |
| Calc'd Head | 11968.1 | 100.0 | | 41.8 | 100.0 | | | 3.05 | 100.0 | | | 3.54 | 66.3 | 49.0 | 0.07 |
| Assay Head | | | | 42.0 | | | | 3.03 | | | | 3.31 | 68.0 | 49.0 | 0.06 |

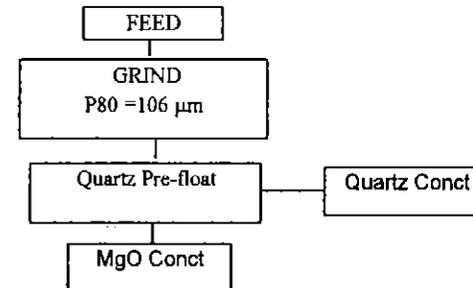
SCHEDULE OF REAGENTS

WATER: Perth Tap

Grind: P80 = 106 µm

| Operation | Time (min) | | K2C g/t | FS2 g/t | Sod. Silicate g/t | Flotol B g/t | pH | mV (Sat AgCl) | Temp °C |
|---------------|------------|---------------------|------------|------------|-------------------------|-----------------|-----|------------------|------------|
| | Condn. | Float (frth mvt) | | | | | | | |
| Grind | 40.0 | | | | | | 9.7 | 146 | 16 |
| Condition | 2.0 | | 300 | | | 16.5 | 9.7 | 142 | |
| Qrtz con 1 | 0.0 | 3.0 | | | | | | | |
| Qrtz con 2 | 0.0 | 2.0 | | | | | 9.5 | 150 | 17 |
| TOTALS | 42.0 | 5.0 | 300 | 0 | 0 | 16.5 | | | |

FLOTATION PROCEDURE



APPENDIX 1

MINERALOGY



**MENERALOGICAL EXAMINATION
OF TWO COMPOSITE MAGNESITE
ORES FROM MAIN CREEK**

CLIENT: Golden Triangle Resources NL

JOB No.: 7740

DATE: 22 July 1998



Dr N. Streltsova



Dr I. Corrans

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1 INTRODUCTION

Two composite samples of magnesite ore were studied by scanning electron microscopy (SEM). The aim of the study was to characterise major and minor mineral phases and to determine the liberation size of Magnesite for further flotation testing.

All pictures in this report are back-scattered electron images of the samples (unless otherwise specified).

The energy of back-scattered electrons is directly proportional to the mean atomic number of the scattering material. Therefore, the brightness of the particles is proportional to their mean atomic weight, i.e. the minerals with lower atomic weight will have lower brightness and the heavier mineral phases will have higher brightness.

SEM is equipped with the energy dispersive spectrometer (EDS), which collects characteristic elemental X-rays produced by focussed electron beam bombarding the particle. This EDS spectrometer allows one to analyse the elemental composition of the mineral particles simultaneously while producing their back-scattered electron images using back-scattered electron detector.

2 SEM RESULTS

COMPOSITE 1

Thin Section 1A

This section represents massive Magnesite (M) and Dolomite (D) intergrowth containing Pyrite (Py) inclusions. Magnesite areas reach 1-1.5cm in size while Dolomite occurs as massive blocks and as thinner secondary veins and finely intergrown texture.

Pyrite grains tend to form in Dolomite or near the Magnesite / Dolomite grain boundaries. The size of Pyrite inclusions is very variable and ranges from $<50\mu\text{m}$ to 0.3mm.

Pic 1: The field area of this image is approximately 10 x 6.5mm. Darker area is Magnesite (M) and lighter area on the left is Dolomite (D).

Pic 2: The field area of this image is approximately 12 x 9mm. The picture demonstrates very coarse Magnesite / Dolomite intergrowth. Dolomite contains a large number of bright Pyrite included grains.

- Pic 3: The field area is approximately 10 x 6.5mm. Similar massive Magnesite / Dolomite material with large Pyrite grains associated mostly with Dolomite.
- Pic 4, 5: These pictures are showing the same type of Magnesite / Dolomite massive intergrowth and also some Dolomite veins.
- Pic 6: Demonstrates Magnesite / Dolomite grain boundary and Pyrite inclusions in Dolomite at higher magnification. The field area is approximately 1.1 x 0.8mm.
- Pic 7: Shows the formation of Dolomite veins in Magnesite.
- Pic 8: Demonstrates Dolomite / Magnesite texture. The approximate size of Magnesite areas in Dolomite is 300-400 μ m.
- Pic 9: Shows smaller Dolomite inclusion (60-70 μ m) in Magnesite.

Thin Section 1B

Magnesite and Dolomite are two major minerals in this section. Some Quartz is also observed as various size grains. Pyrite inclusions occur in Dolomite or within the Magnesite / Dolomite grain boundary.

- Pic 1-3: Demonstrate massive Magnesite / Dolomite texture and Pyrite included in Dolomite. Dolomite forms extended directional flows which sometimes exceed 1mm in cross-section.
- Pic 4,5: Show Dolomite / Magnesite massive intergrowth where Magnesite contains some Quartz grains (Q). Quartz particles in Pic. 4 vary in size from 15 to 30 μ m while Quartz grains in Pic 5 are significantly coarser and reach 140 μ m in size.
- Pic 6: Demonstrates a very large area of Dolomite. The field dimension of this image is approximately 7 x 5mm.

Polished Block 1

Composite 1 was crushed to -2mm, the material was mixed with resin to form a solidified block. The surface of the block was polished to expose the cross-sections of the particles. Magnesite can be distinguished from Dolomite and Quartz by its darker shade of grey colour.

- Pic 1: An overall view of the sample. It appears that the particle size distribution after crushing is close to bimodal. Crushing produced a significant amount of fine material with particle size below 20 μ m while the number of medium size grains is limited. Large grain in the centre is Magnesite / Quartz texture.
- Pic 2: Demonstrates very large grain of Magnesite with included broad Dolomite vein. The length of this grain is about 1.4mm. Liberated Dolomite particle (up to 300 μ m) is shown below.

- Pic 3: Large block of Magnesite (400-500 μ m) with finer Dolomite inclusions of up to 20 μ m in size. Liberated Dolomite particles of approximately 120 μ m in size are also shown.
- Pic 4: Demonstrates the finer fraction of the crushed sample at higher magnification. The size of Magnesite particles in this view does not exceed 50 μ m. Some coarser Dolomite and Quartz particles were observed (up to 50-100 μ m). They appeared to be well liberated.
- Pic 5: Shows similar area with fine Magnesite particles and a few larger Dolomite / Quartz grains.
- Pic 6: Shows very large Magnesite grain with Quartz inclusions of up to 100 μ m in size.
- Pic 7: Demonstrates massive Dolomite and Dolomite / Magnesite grains and also a large magnesite particle with Quartz inclusions of up to 120 μ m in size.
- Pic 8: Massive Quartz / Magnesite intergrowth (0.7mm) and well liberated large Quartz grain.
- Pic 9: Demonstrates Magnesite texture at higher magnification. It shows that the Magnesite structure is not very uniform and is built of the smaller rounded Magnesite blocks of approximately 10 to 30 μ m in size. This may explain the formation of a significant amount of fine Magnesite particles in crushing. A large Pyrite grain is also shown.

COMPOSITE 2

Thin Section 2A

The minerals in this section are not as massive as in the first sample. Magnesite Dolomite and Talc are major minerals, but some small amounts of Quartz were also observed. Talc was originally identified as Amphibole (Orthopyroxene-hydrated silicate) and, therefore, it is labelled "Amp" in the pictures. However, more detailed elemental analysis later confirmed that this fibrous material is Talc.

- Pic 1: Shows Magnesite matrix with Quartz and Talc inclusions. The length of the Talc fibre is approximately 200 μ m.
- Pic 2: Demonstrates the patchwork of Talc and Magnesite. The liberation size for magnesite in this view is about 100 μ m. The elemental spectra of Magnesite indicated that it contains a small amount of iron.
- Pic 3: Demonstrates massive Talc vein in Magnesite. The thickness of the vein is about 400 μ m. The elemental composition of Talc material is not very uniform as indicated by the colour variation. It's lighter areas contain small amounts of iron and also have higher magnesium content.
- Pic 4: Patch work of Talc and Magnesite. The liberation size for Magnesite is still fairly coarse at about 120-150 μ m.

Pic 5: Shows Magnesite matrix containing Talc / Dolomite composite intergrowth. The boundary between Talc (lighter) and Dolomite (darker) is well exposed. The area of Talc / Dolomite intergrowth is relatively large with the thickness exceeding 120–150 μ m.

Pic 6: Demonstrates another example of Magnesite matrix containing Dolomite and Dolomite / Talc intergrowth (left). Some coarse Pyrite particles are also shown on the right.

Pic 7: Coarse Talc / Magnesite texture.

Thin Section 2B

This section contains Magnesite, Dolomite and Quartz. Magnesite areas are extremely large and in some parts of the section extend to about 1-1.2cm (see Pic 4). Quartz and particularly Dolomite occur in two distinctive forms. "Primary" form is characterised by well faced large particles reaching 3-5mm in size. "Secondary" form is represented by finer intergrowth of both Dolomite and Quartz with Magnesite. An uneven contrast of Magnesite in these areas reveals that the Magnesite composition varies. Indeed, the lighter sections are iron-rich while the darker sections have no associated iron.

It appears that in the presence of sulphur iron is bound in Pyrite. Pyrite, however, was not found in this section of the sample. Due to the sulphur deficiency, excess iron in this system is bound in Magnesite.

Pic 1: Demonstrates in the central part a "primary" form of Quartz and Dolomite. The dimensions of the cross-section of the largest Quartz grain are approximately 2 x 4mm. Massive Dolomite and Quartz areas in the centre transform into the finer "secondary" areas.

Pic 2 and 3: Show "secondary" intergrowth of Dolomite and Magnesite. Iron-rich Magnesite areas are clearly demonstrated by contrast variations. Liberation size for Magnesite in these areas will be significantly finer than for the massive "primary" material type (Pic 4).

Polished Block 2

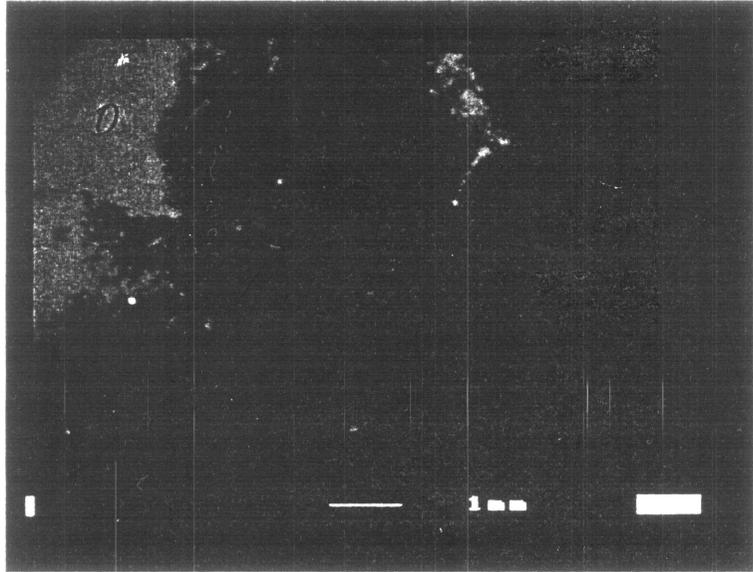
The sample preparation procedure is the same as described above for Composite 1.

Crushed Composite 2 appears to have smoother particle size distribution compared to Composite 1. Fine fraction largely consists of broken down Magnesite. Medium size fraction (80-300 μ m) contains liberated Magnesite, Dolomite and Quartz grain as well as a significant amount of composite Magnesite / Quartz and Magnesite / Dolomite grains. A small number of Talc were also present.

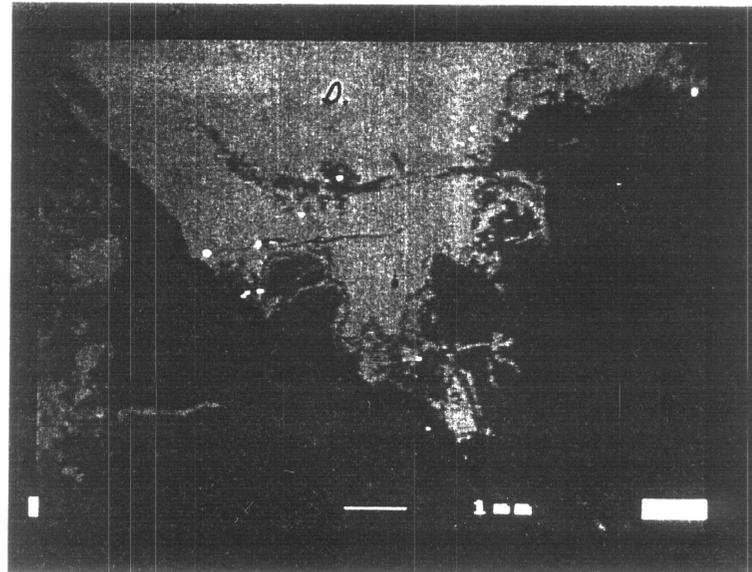
Coarse Magnesite grains / >300-400 μ m often contain inclusions of Dolomite and Quartz. These inclusions rarely constitute more than 20% of the particle volume. However, a number of complex Magnesite / Dolomite grains with high Dolomite content were also observed. They originate from the "secondary" type material described overleaf.

- Pic 1: Overview of the sample showing all size fractions of the crushed material. Coarse particles are Magnesite and Magnesite / Dolomite. Medium size fraction contains large amounts of liberated Dolomite and some Quartz.
- Pic 2, 3: Medium and fine fractions at higher magnification. Dolomite and Quartz in this view are in approximately equal proportions.
- Pic 4: Large Magnesite grain with inclusions of Dolomite and Quartz (up to 100 μ m) and very large composite grain of Magnesite / Dolomite.
- Pic 5: Composite grains of Magnesite with Quartz and Dolomite.
- Pic 6: Composite grain of Magnesite with massive Dolomite and "secondary" Quartz.
- Pic 7: Very large Magnesite Dominant grains with few inclusions of Dolomite and Quartz.

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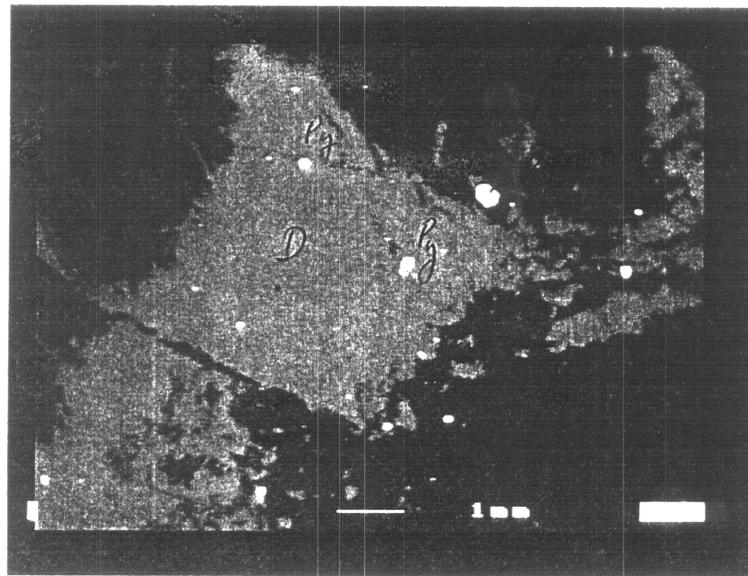


Pic. 1

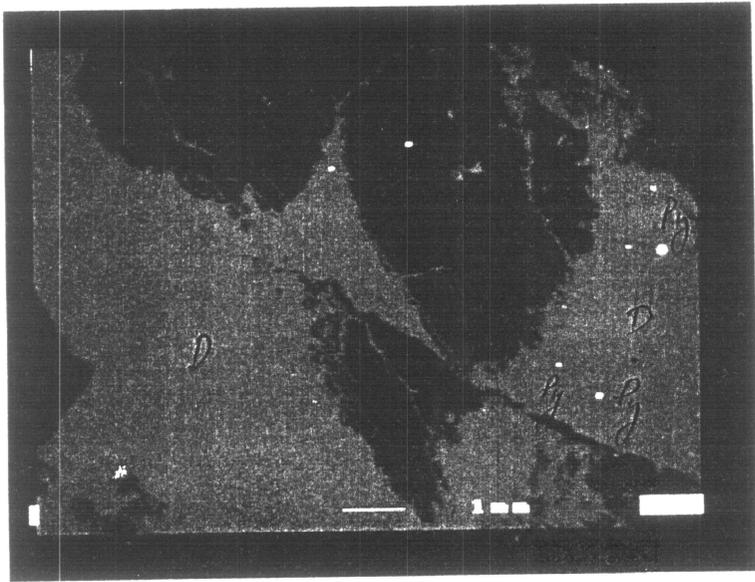


Pic. 2

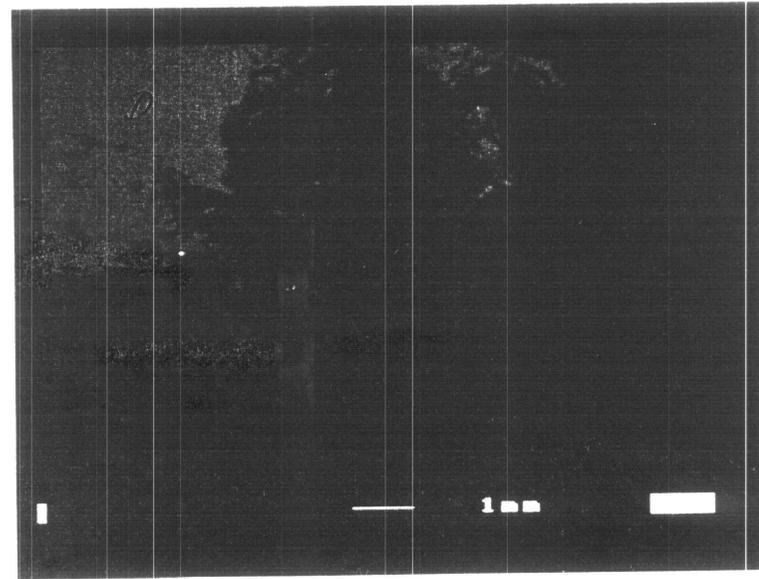
**Magnesite Ore
Sample 1
Thin section A**



Pic. 3

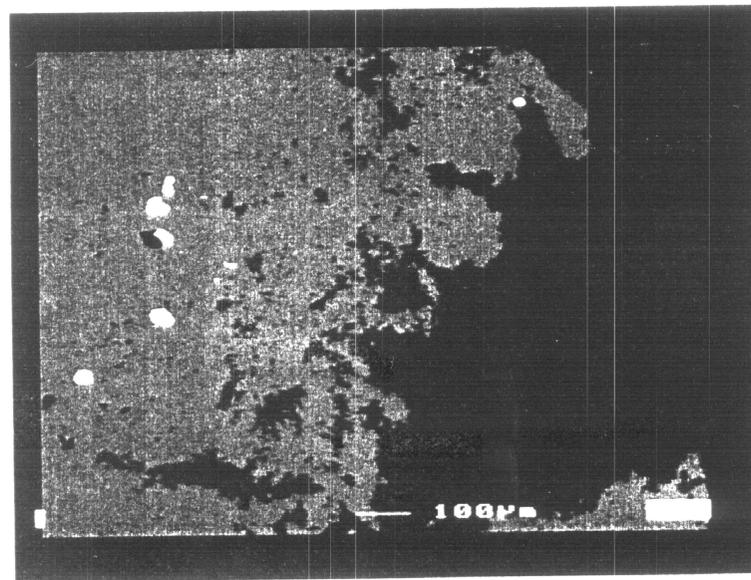


Pic. 4



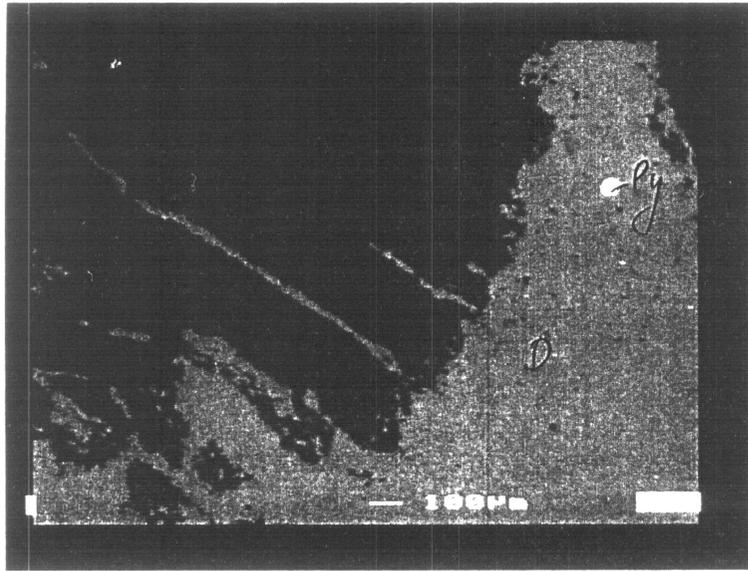
Pic. 5

**Magnesite Ore
Sample 1
Thin section A**

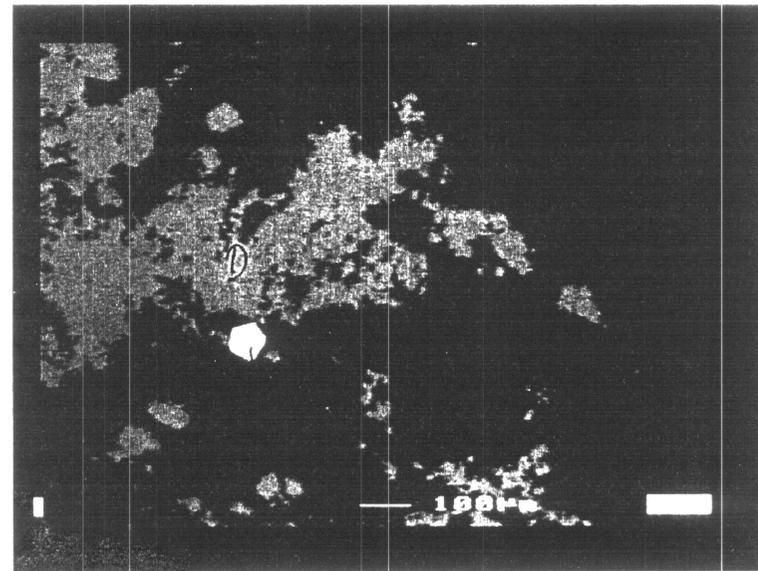


Pic. 6

158000

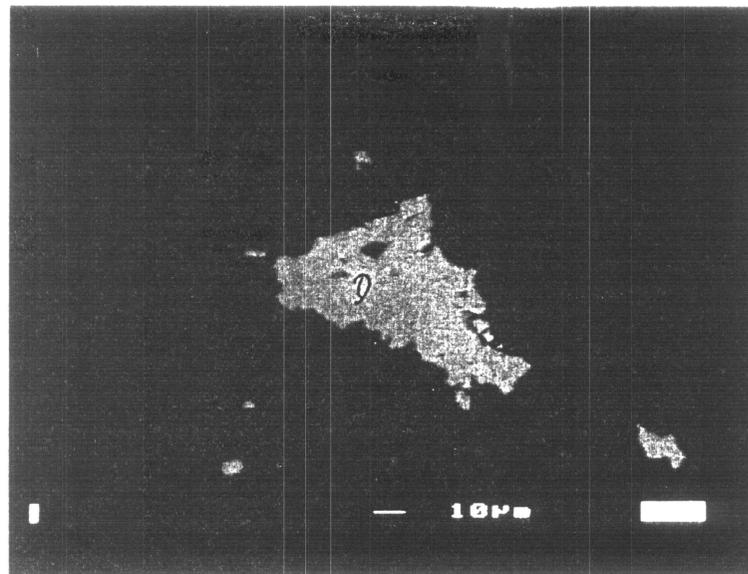


Pic. 7

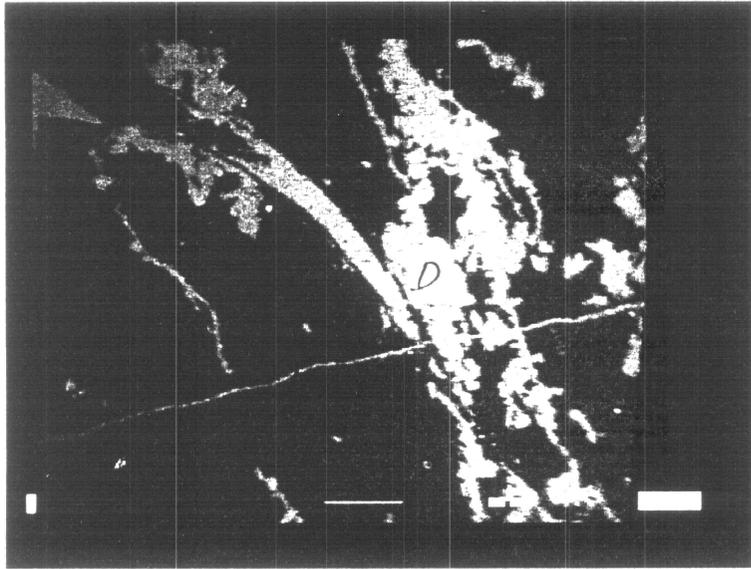


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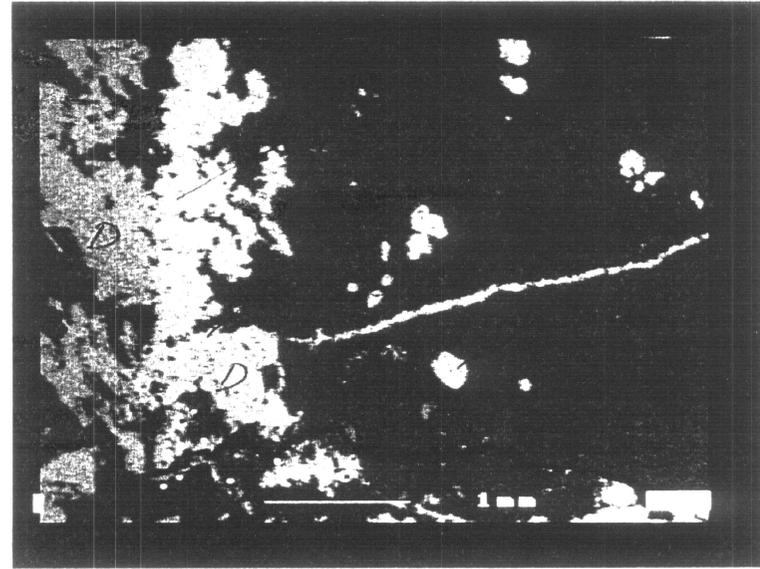
**Magnesite Ore
Sample 1
Thin section A**



Pic. 9

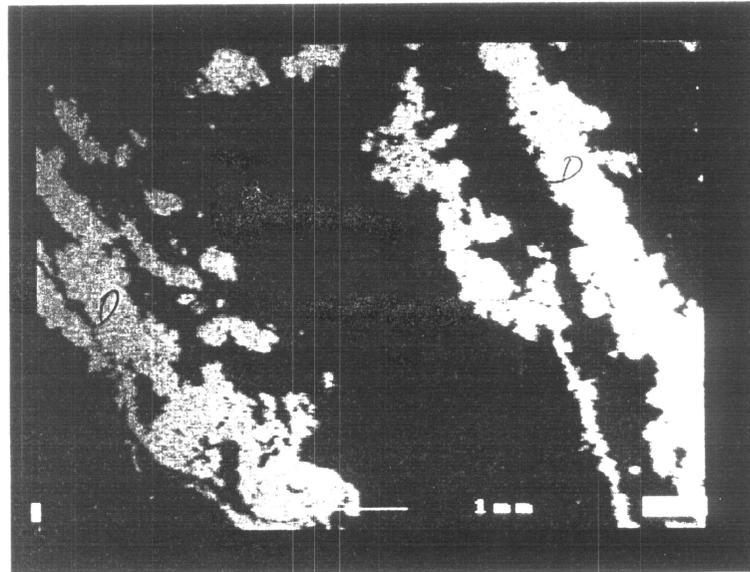


Pic. 1

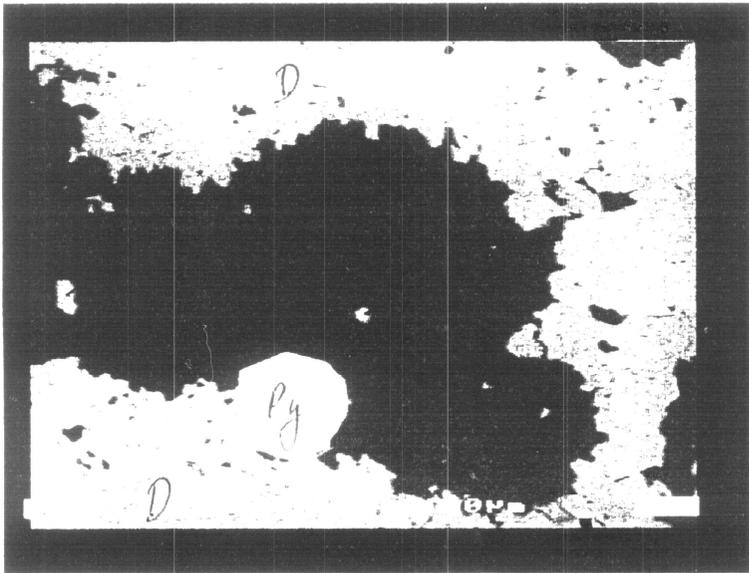


Pic. 2

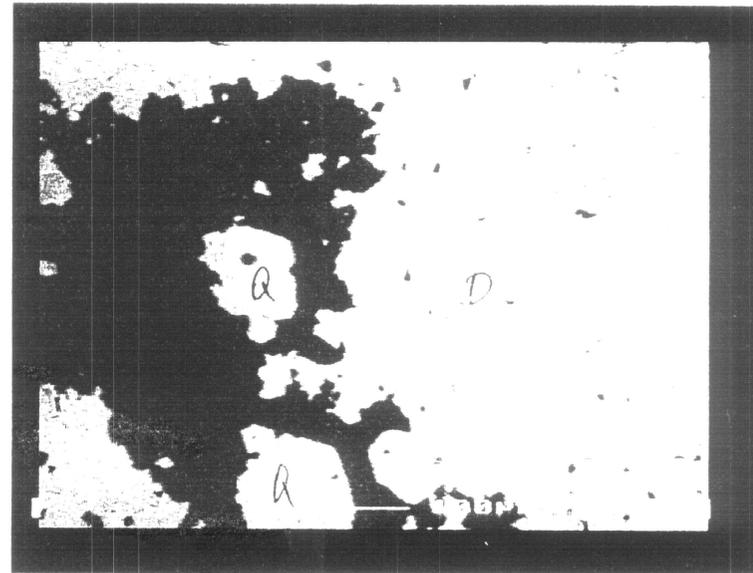
**Magnesite Ore
Sample 1
Thin section B**



Pic. 3

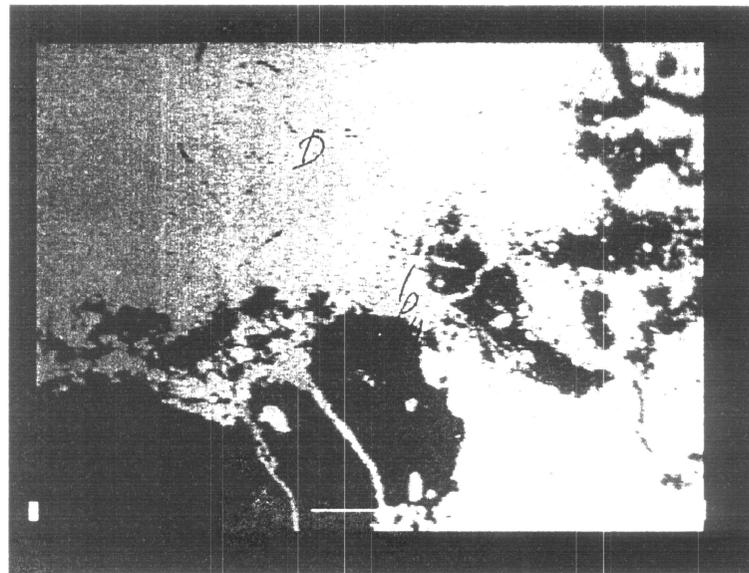


Pic. 4

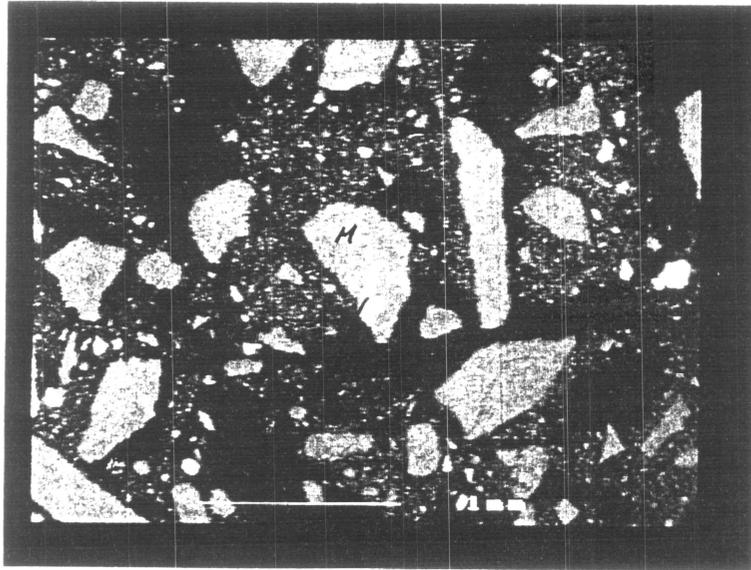


Pic. 5

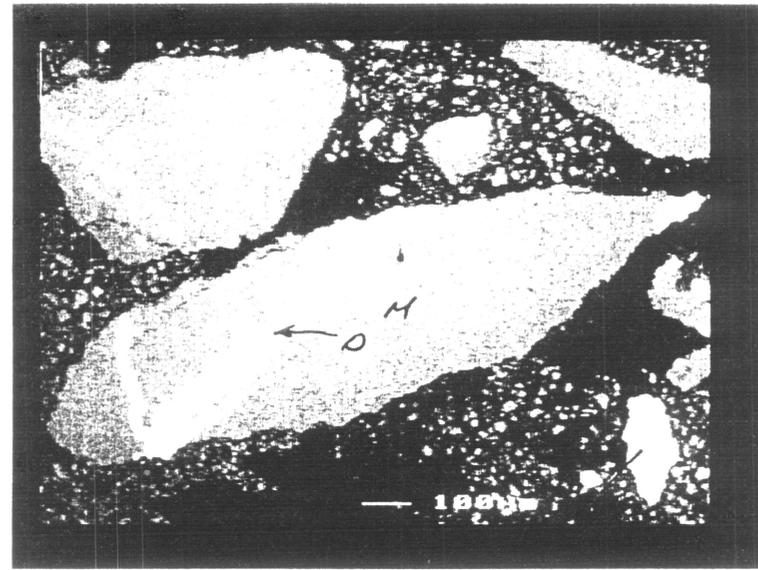
**Magnesite Ore
Sample 1
Thin section B**



Pic. 6

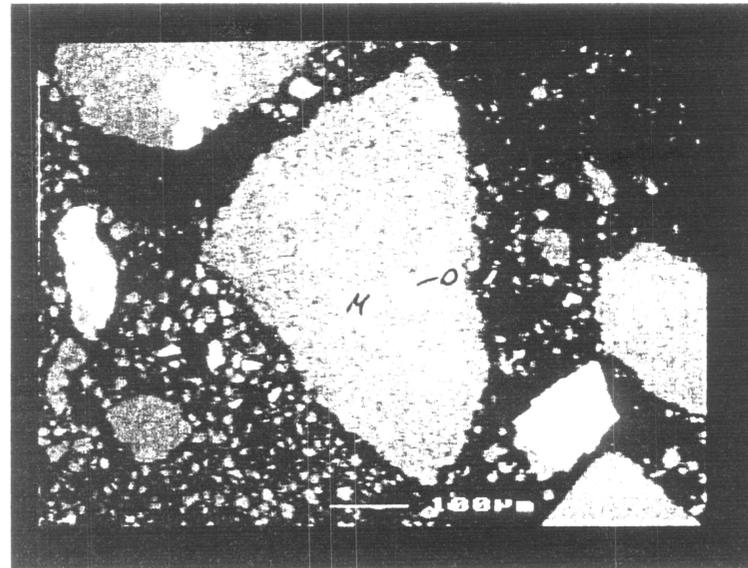


Pic. 1



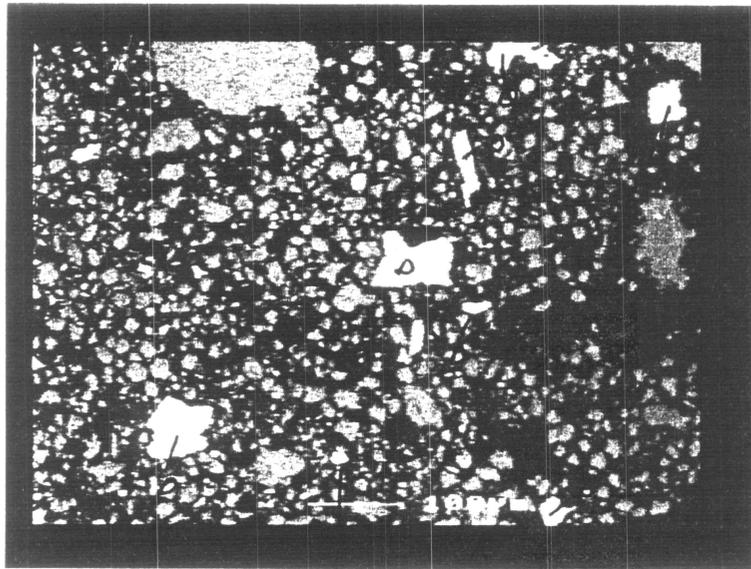
Pic. 2

**Magnesite Ore
Sample 1
Polished block**



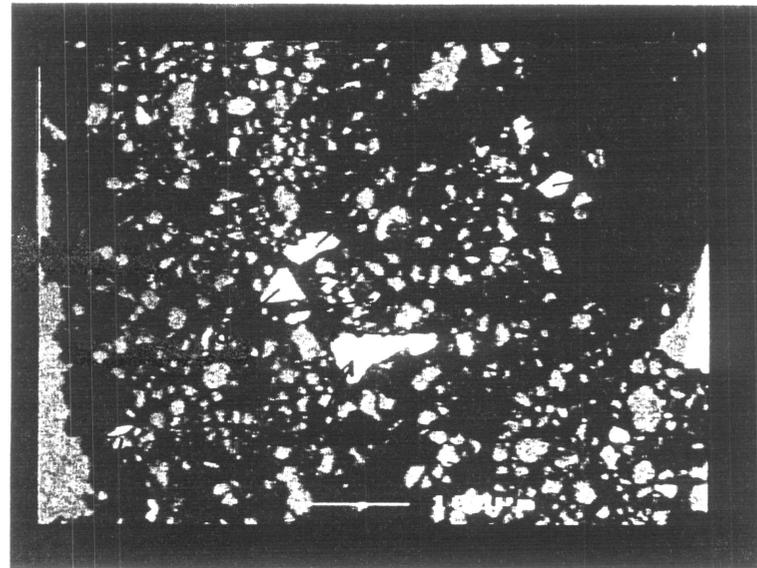
Pic. 3

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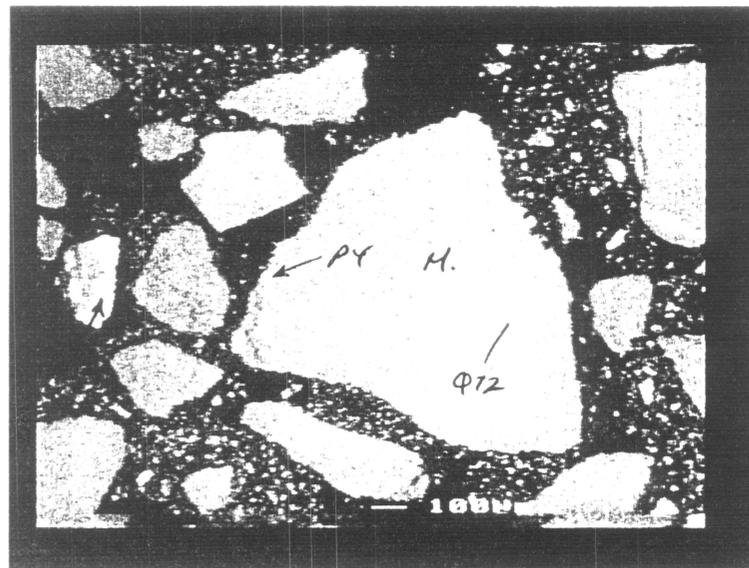
Pic. 4

M1



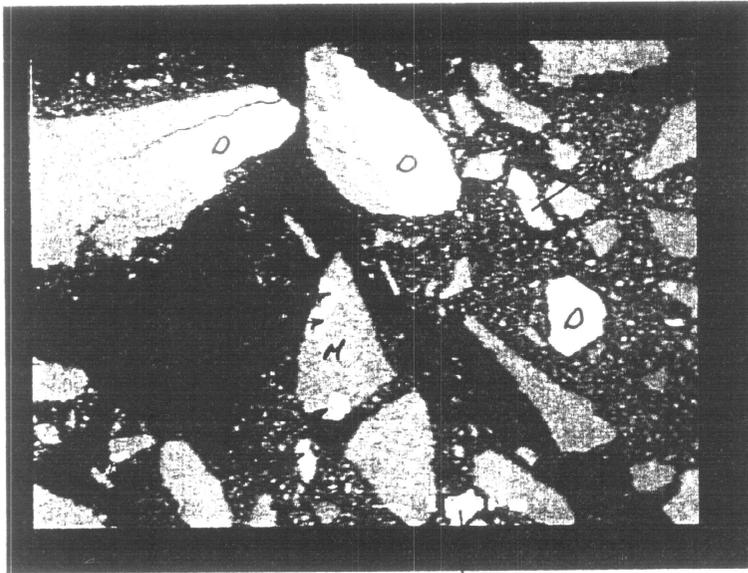
Pic. 5

Magnesite Ore
Sample 1
Polished block

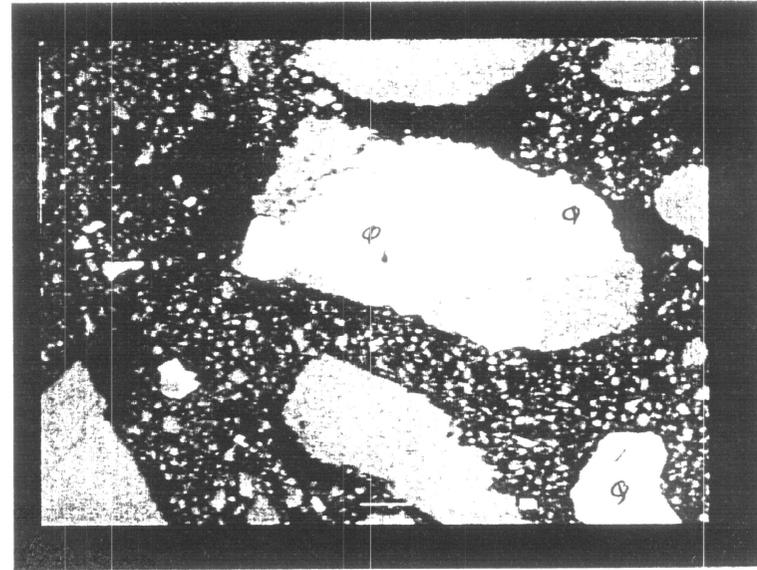


Pic. 6

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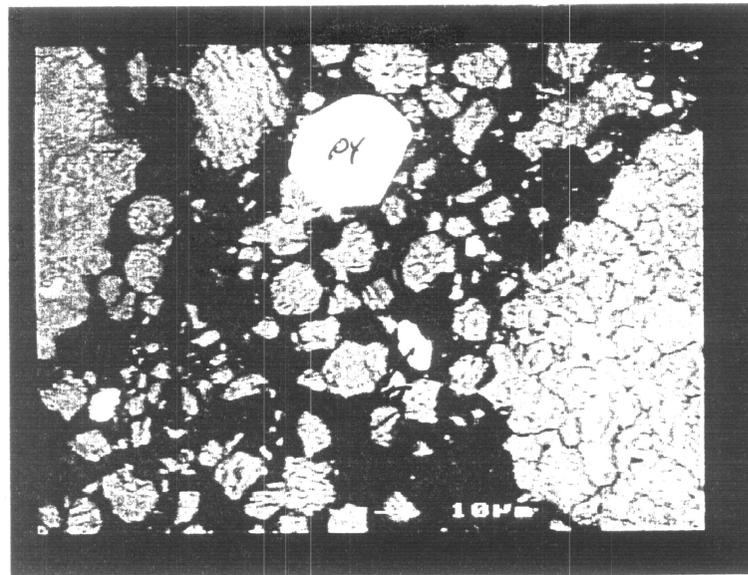


Pic. 7

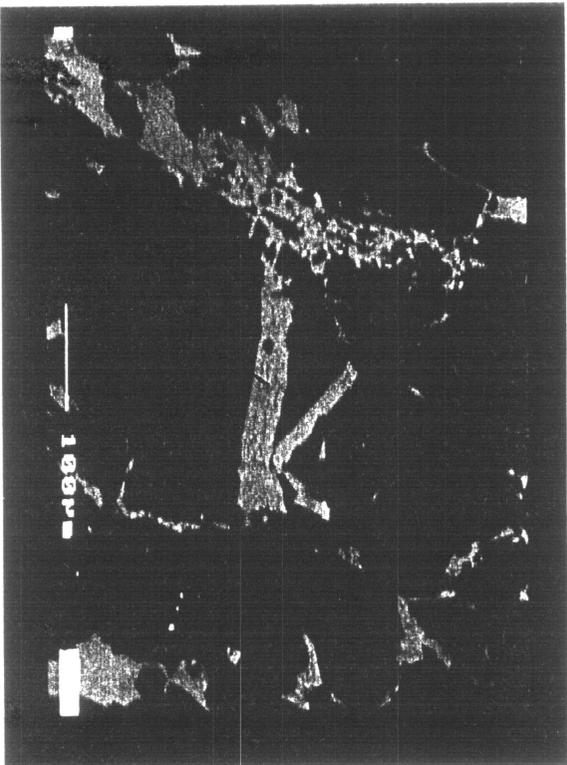


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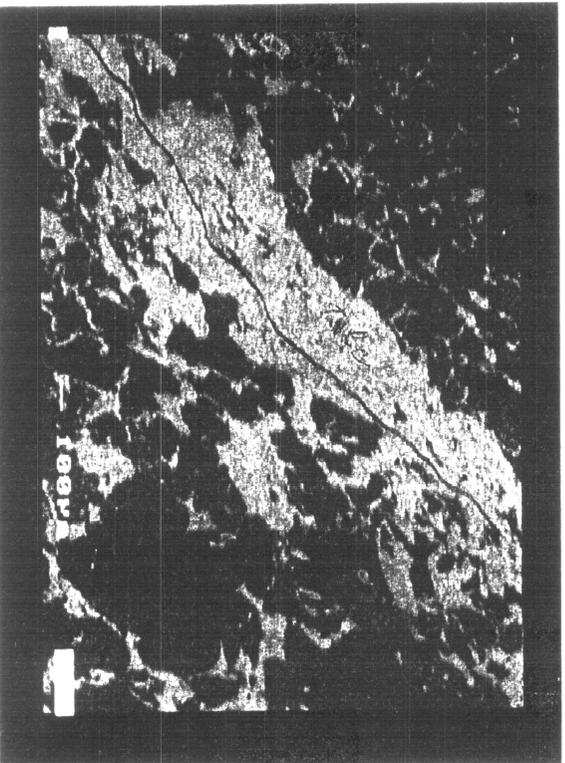
Magnesite Ore
Sample 1
Polished block



Pic. 9

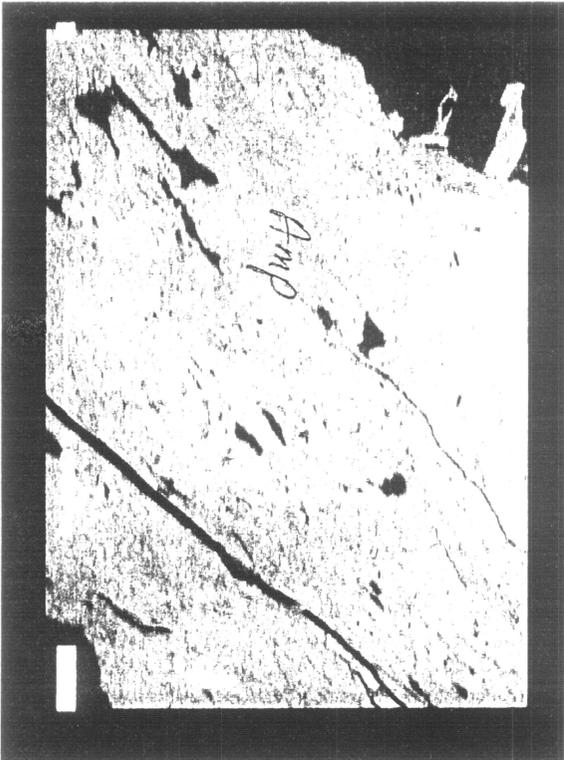


Pic. 1



Pic. 2

Magnetite Ore
Sample 2, Thin Section A

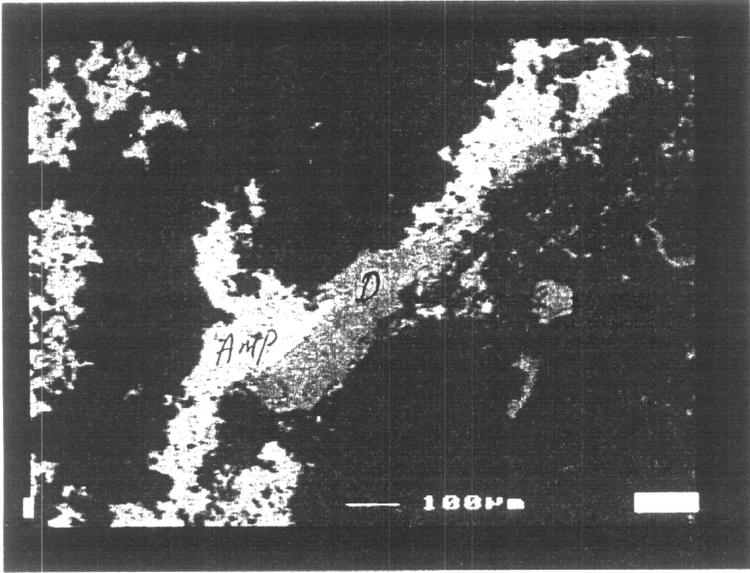


Pic. 3

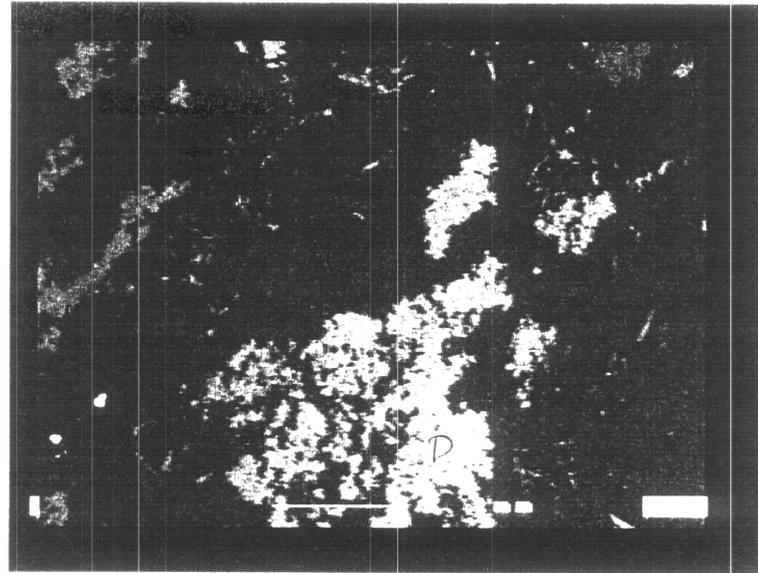


Pic. 4

Magnesite Ore
Sample 2, Thin Section A

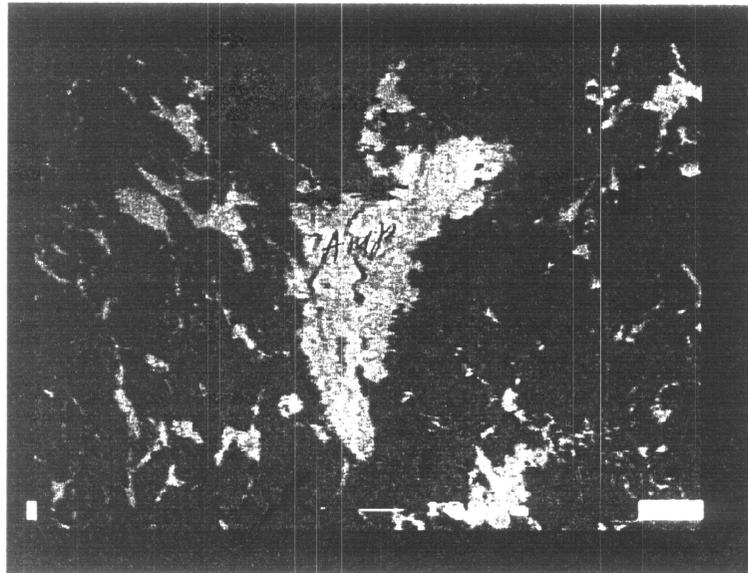


Pic. 5



Pic. 6

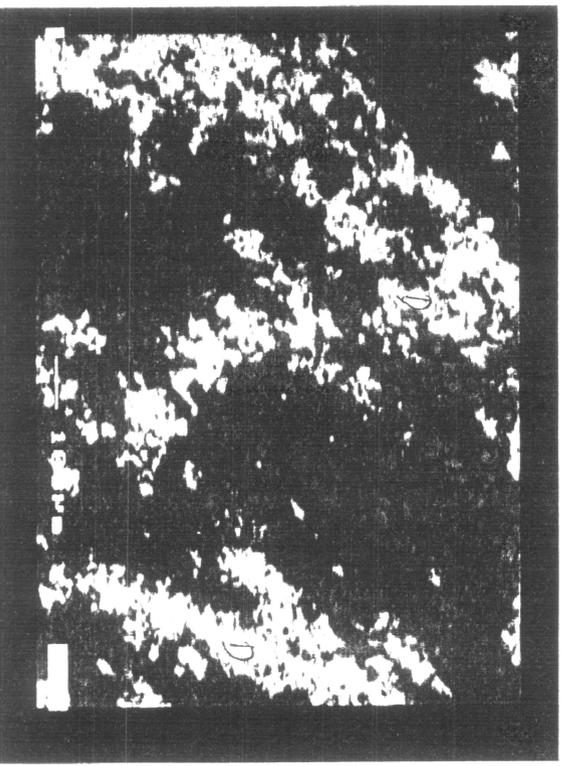
**Magnesite Ore
Sample 2
Thin Section A**



Pic. 7



Pic. 1

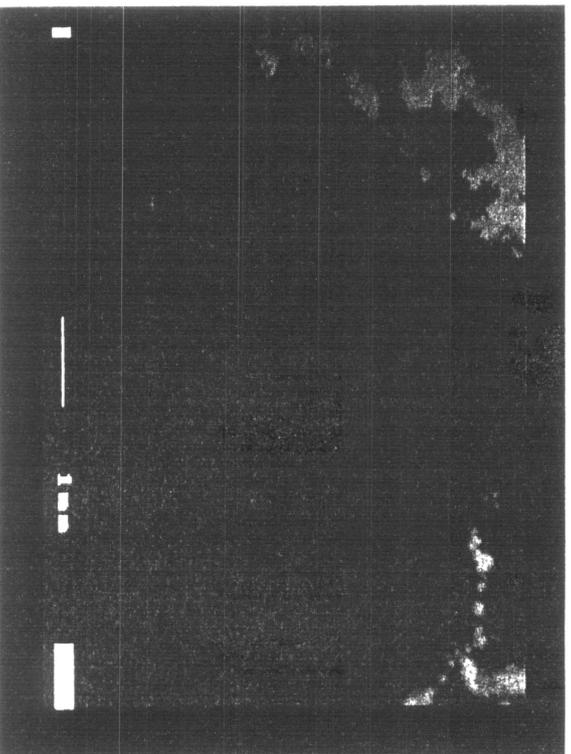


Pic. 2

Magnesite Ore
Sample 2, Thin Section B



Pic. 3

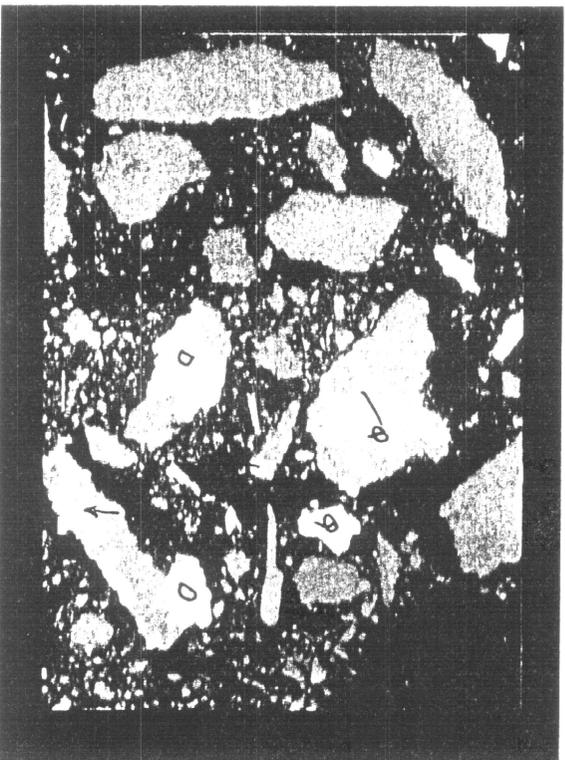


Pic. 4

Magnesite Ore
Sample 2, Thin Section B

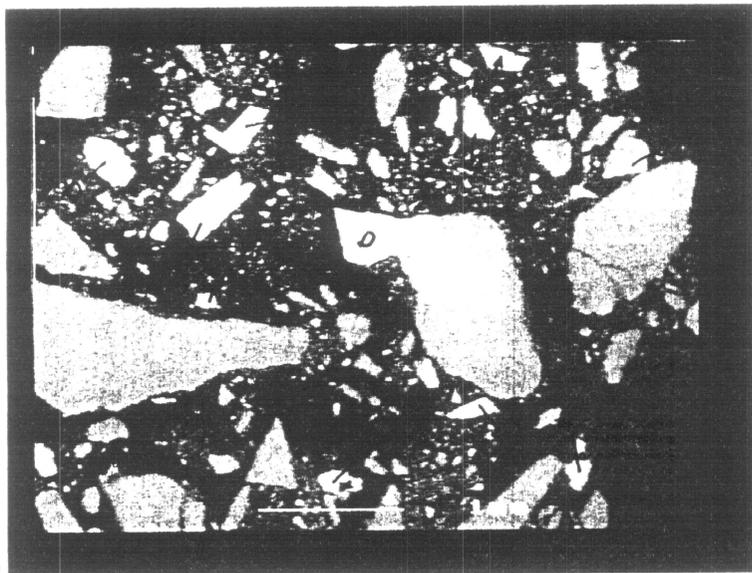


Pic. 4

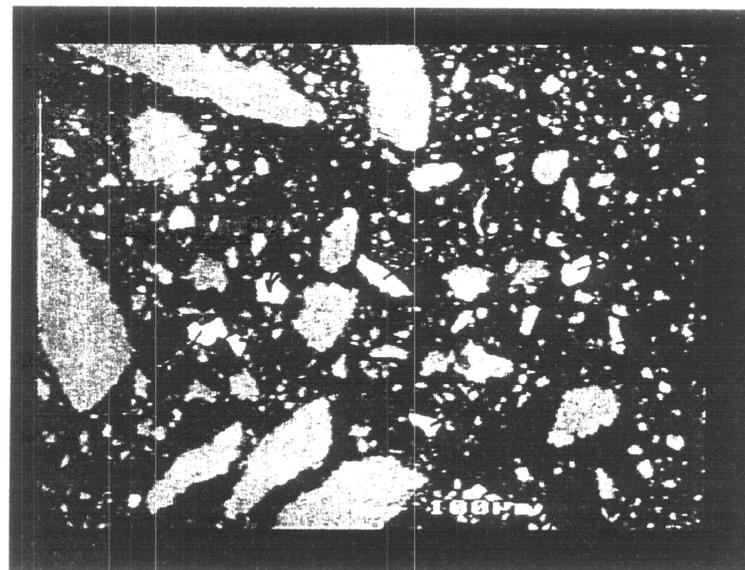


Pic. 5

Magnesite Ore
Sample 2, Polished Block

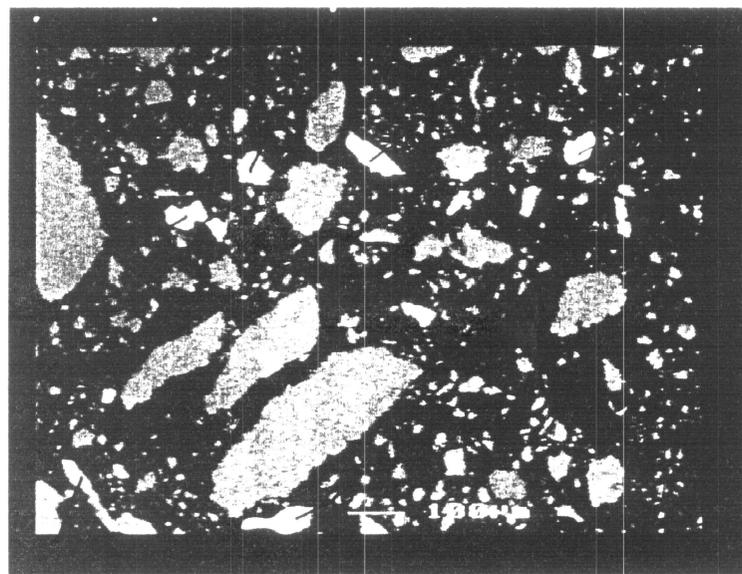


Pic. 1



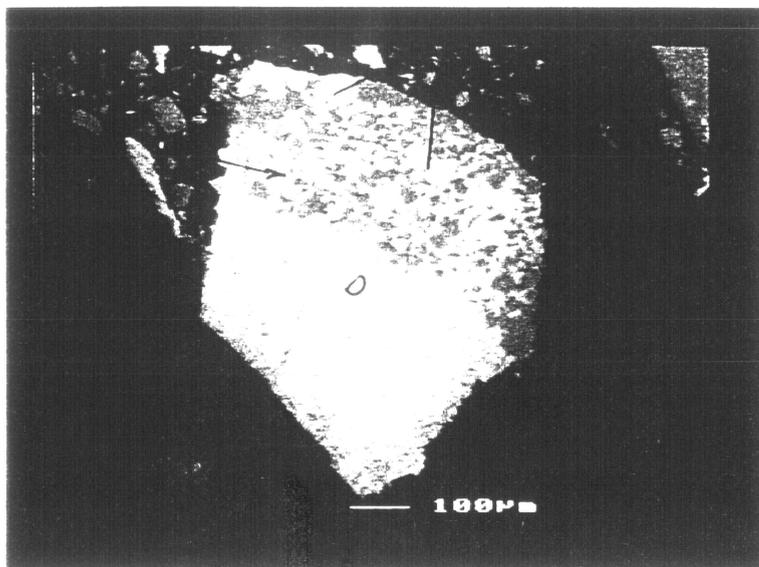
Pic. 2

**Magnesite Ore
Sample 2
Polished Block**

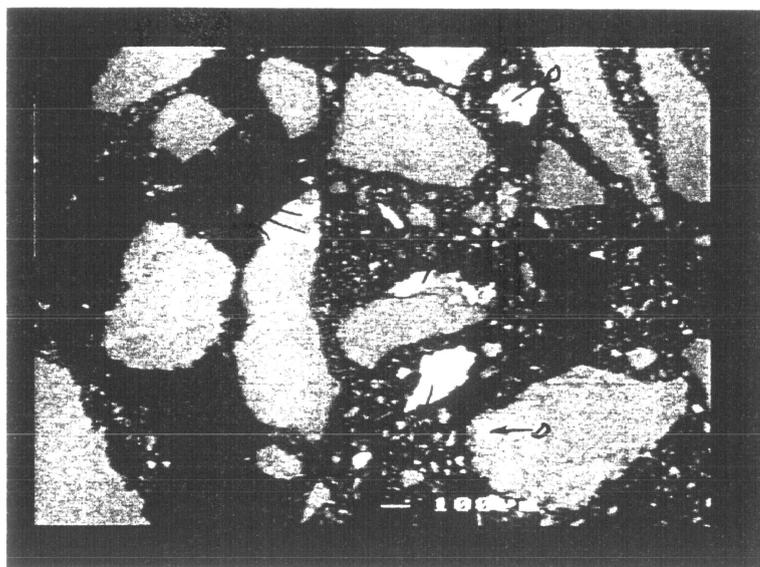


ART N.Y.
Pic. 3

158072



Pic. 6



Pic. 7

Magnesite Ore
Sample 2, Polished Block

APPENDIX 2

PROCEDURES

GRIND ESTABLISHMENT

PROCEDURE No. 1

Three 500g batches of the sample are ground for various times in a laboratory rod mill.

The ground slurries are filtered, dried then size analyses conducted on the ground product to determine the relationship between grind time and resulting grind size.

From these results the grind times required to produce the target grind sizes are established.

SCREENING AND SIZE-ASSAYING

PROCEDURE No. 1

A representative sub-sample of suitable weight is taken by riffing or rotary splitting.

As a general guide the following weights are used:

- | | | |
|------|--------------------------|-----------|
| i) | Below 150 μm | 0.5 kg |
| ii) | 150 μm - 2 mm | 1 kg |
| iii) | 2 mm - 10 mm | 2 kg |
| iv) | 10 mm - 50 mm | 5 - 20 kg |

The following screen types are used:

- | | | | |
|-----|----------|---|---|
| i) | Ro-tap | - | for sizing in the range below 1 mm. |
| ii) | 'Cheers' | - | type vibrating screen for sizing in the range 1 mm - 50 mm. |

Wet screening is generally done below 150 μm while dry screening is done above this size.

Individual fractions are dried, weighed and further prepared for assaying if required.

BATCH FLOTATION

PROCEDURE No. 1

The charge weight of ore (usually 1 kg or 2 kg) is milled in a laboratory rod mill for the time required to give the desired size distribution. At the completion of grinding, the slurry is washed directly into the roughing flotation cell. The cell size is chosen to give the desired pulp density in the roughing stage (for a 1 kg charge a 2.5 litre cell is used).

Flotation is carried out using standard Agitair bench machines. Special modifications are available (if required) to control pulp volume and froth removal rate during flotation. Air flowrate is controlled by a rotameter. Agitator speed is set, usually at 700 rpm for conditioning, 700 - 750 rpm for rougher flotation and 750 - 800 rpm for cleaning.

Cleaning is carried out in smaller cells, using lower pulp densities compared to roughing. The smallest cell available is 0.5 litre.

Froth products are collected, filtered, weighed, and prepared for assay, as is the final tailings.

This report has been prepared by Oretest Pty Ltd (Oretest) on the request of Mr Andrew Firek of Golden Triangle Resources NL.

This report documents the results of metallurgical testwork conducted by Oretest on the samples provided to Oretest by the Client as detailed in Section 2 of the report.

The testwork which Oretest was required by the Client to carry out on the Samples, the results of which are documented in this report, is detailed in Section 1.

This report is provided to the Client on the basis that the Client expressly acknowledges that:

- (a) no representations have been made to Oretest as to the purpose for which the tests are required to be conducted; and
- (b) the Testwork was carried out on Samples provided by the Client and that Oretest was not in any way involved in the drilling, collection or transportation of the Samples and, until the date upon which they were delivered to Oretest by the Client, was not involved in any way in the handling of the Samples

By this report, Oretest makes no representation or warranty (express or implied) as to the nature, source, completeness or handling of the Samples and Oretest and its directors, employees, agents and consultants denies and disclaims all liability (including for negligence) for any loss, cost, expense or damage arising from the opinions or conclusions contained in this report to the extent that loss, cost, expense or damage arises from the nature, source, completeness or handling of the Samples prior to their delivery to Oretest.

Oretest expressly denies liability for all damages for loss of opportunity, loss of revenue, loss of actual or anticipated profit or other consequential loss arising either directly or indirectly from reliance by the Client or any other person on the content and conclusions of this report.