APPENDIX 8 PRELIMINARY ASSESSMENT OF YELLOWJACKET METALLURGY; G&T METALLURGICAL SERVICES, 2006

PRELIMINARY ASSESSMENT OF
YELLOWJACKET METALLURGY

PRIZE MINING CORPORTATION

KM1878

November 25, 2006

G&T METALLURGICAL SERVICES LTD.

2957 Bowers Place, Kamloops, B.C. Canada V1S 1W5

E-mail: info@gtmet.com , Website: www.gtmet.com

ISO 9001:2000
Certificate No. FS 63170

INDEX

John Folinsbee, P.Eng.
VP – Operations

Tom Lafreniere
President

Report Distribution:
Linda Dandy, Yellowjacket Gold Project, Lac Le Jeune, BC – 1 Copy
Harry McGucken, Prize Mining Corporation, Calgary, AB – 1 Copy
G & T Metallurgical Services Ltd., Kamloops, BC – 2 Copies

1.0 Executive Summary

Two composite samples from the Yellowjacket Project were submitted for preliminary metallurgical testing at G & T Metallurgical Services Ltd.

A series of gravity, cyanidation and flotation tests were carried out on the samples. Also included, was a Bond ball mill work index test to determine grinding energy requirements.

Gravity recovery was high with 80.3 and 68.2 percent of the gold reporting to gravity concentrate for Composites 1 and 2 respectively.

Cyanidation tests on the gravity tailing yielded gold extractions of between 85 to 96 percent and 78 to 93 percent for Composites 1 and 2 respectively. Decreasing the cyanidation feed K_{80} from 200μm to 100μm increased gold extraction from the gravity tail by 12 to 15 percent.

Gold recovery to a flotation concentrate was 95.6 percent for Composite 1 and 53.2 percent for Composite 2. In order to achieve these recoveries, a mass recovery of 10 to 15 percent and 25 to 30 percent was required for Composites 1 and 2 respectively.

ADIS* scans of the gravity test concentrates detected quite coarse occurrences of gold. The largest piece detected had a gold particle equivalent circular diameter greater than 300μm.

Standard FC Bond ball work indices were determined to be 16.8 and 14.1 kWh/tonne for Composites 1 and 2 respectively.

* ADIS – Automated Digital Imaging System.

2.0 Introduction

Prize Mining Corporation is investigating the economic potential of the Yellowjacket Project located near Atlin, British Columbia.

As part of this assessment, Prize Mining Corporation through their consultant, Snowden Mining Industry Consultants, requested a proposal for both metallurgical testing and mineralogy work from G & T Metallurgical Services Ltd.

A scope of work was defined and provided to Prize Mining on August 24, 2006. Drill core from two holes was received at G & T Metallurgical on August 31, 2006. The metallurgical test program was carried out during October and November 2006.

Individual drill core intervals from each of the two holes were composited into two separate composites. The top portion of the holes went into one composite and the bottom portion into the other.

Each sample was subjected to gravity concentration, cyanidation of the gravity tailing and flotation testing. Concentrate and tailing samples from the gravity tests were subjected to ADIS scans to characterize gold occurrences in each stream. A Bond ball mill work index test was completed on each composite.

The results of this program are presented and discussed in this report. All of the technical data generated from this study are arranged in five appendices as follows: Appendix I – Sample Origin, Appendix II – Flotation and Gravity Test Data, Appendix III – Particle Sizing Data, Appendix IV – Special Assay Data and Appendix V – ADIS Analysis.

3.0 Ore Characteristics

Both chemical and mineralogical properties of a mineralized sample play an important role in how it performs metallurgically. For this reason, a discussion of the chemical and mineralogical properties of the two feed compositions, are included in this section of the report.

3.1 Chemical Composition

The two composites were analyzed for the following elements; iron, gold, sulphur and carbon. The moisture content of each sample was also determined. The results of the chemical analysis are shown below in Table 1.

TABLE 1
CHEMICAL COMPOSITION OF THE COMPOSITES

Sample	Assays – percent or g/tonne				
	Fe	Au	S	C	H_2O
Composite 1	4.57	11.5	0.24	2.72	1.5
Composite 2	4.45	1.14	0.29	2.71	1.8

An inspection of the chemical composition data yields the following observations:

- The gold content in Composite 1 is approximately 10 times greater than that present in Composite 2.

- Iron, carbon, sulphur and moisture levels are similar in both samples.

3.2 Bond Ball Mill Work Index Data

Bond ball mill work index tests were completed on both composites. The resulting work indices are shown in Table 2.

TABLE 2
BOND BALL MILL WORK INDEX TEST RESULTS

Sample	F_{80} µm	P_{80} µm	Gbp g/rev	Bond Wi kWh/tonne
Composite 1	2712	76	1.05	16.8
Composite 2	2241	82	1.42	14.1

The following points are derived from an inspection of the Bond ball mill work index results:

- The average Bond ball mill work index for these samples is 15.5 kWh/tonne. The result is not untypical for a gold ore contained in a quartz matrix.

- Both samples are of medium hardness: For similar samples, Bond work indices can vary from very soft at below 10 kWh/tonne to vary hard at greater than 20 kWh/tonne. These samples fall in the middle of the range.

- It is apparent from the data that the Composite 1 material is harder and will require more energy to grind to the required process feed size.

4.0 Laboratory Test Results

The results of a series of gravity, cyanidation and rougher flotation tests are discussed in this section. Also discussed are the results of ADIS scans conducted on Knelson concentrate and tailing samples.

4.1 Gravity Test Performance

The results from gravity tests conducted on both samples are summarized below in Table 3 and in the following comments:

TABLE 3
GRAVITY CIRCUIT PERFORMANCE OF YELLOWJACKET COMPOSITES

Stream	Weight grams	Weight percent	Au g/t	Au Distribution percent	Calc Head g/t Au	Measured Head g/t Au
Test 1 Concentrate	78.7	0.8	1050.9	80.3	10.59	11.3
Test 1 Tail	9648	99.2	2.11	19.8	10.59	11.3
Test 2 Concentrate	76.8	0.8	98.7	68.2	1.12	1.14
Test 2 Tail	9827.3	99.2	0.36	31.8	1.12	1.14

- Gravity gold recovery is quite high for both composites at 80 and 68 percent for Composite 1 and 2 respectively.

- At 0.8 percent, the mass recovery into the Knleson concentrate was near identical for both tests.

- There is relatively good agreement between calculated and measured gold content in the gravity products produced from each composite.

4.2 Cyanidation Test Data

Representative samples of the Knelson tail were cut from each gravity test for cyanidation testing. Two cyanidation tests were conducted on Knelson tailings produced from each composite. One test for each was run at the initial nominal primary grind size 200μm K_{80}. In the second test, the Knelson tail was ground to a nominal 100μm K_{80} and then cyanide leached.

The results of the cyanidation tests are illustrated in Figure 1. The following points arise from inspection of the data:

- Gold recovery from the Knelson tail at 100μm K_{80} was about 98 percent for Composite 1 and 93 percent for Composite 2.

- Cyanidation gold recovery was positively impacted by lowering the particle size of the Knelson tail. Gold extraction increased by 12 percent and 16 percent by grinding the Knelson tailing from 200μm K_{80} to 100μm K_{80}.

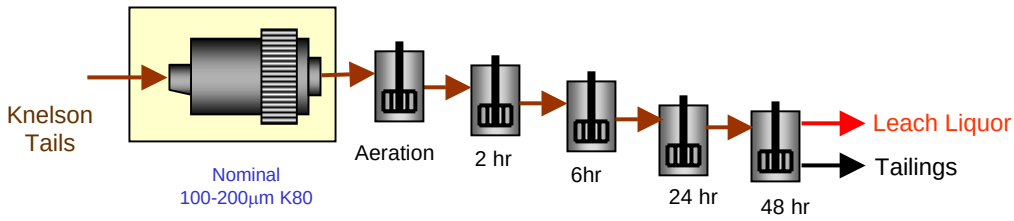
- Cyanide consumption was very consistent at about 0.75 kilograms per tonne of feed ore. There is potential to lower this through further optimization.

- Lime consumption ranged from 2.2 to 3.0 kg/tonne for Composites 1 and 2 respectively.

- Overall gold extraction could be marginally improved with longer leach time. The kinetic curves have not been completely optimized after 48 hours of leaching.

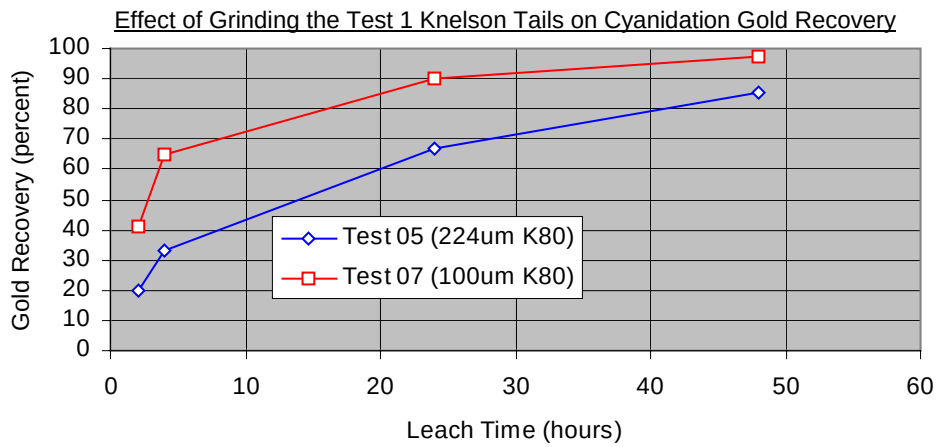
FIGURE 1

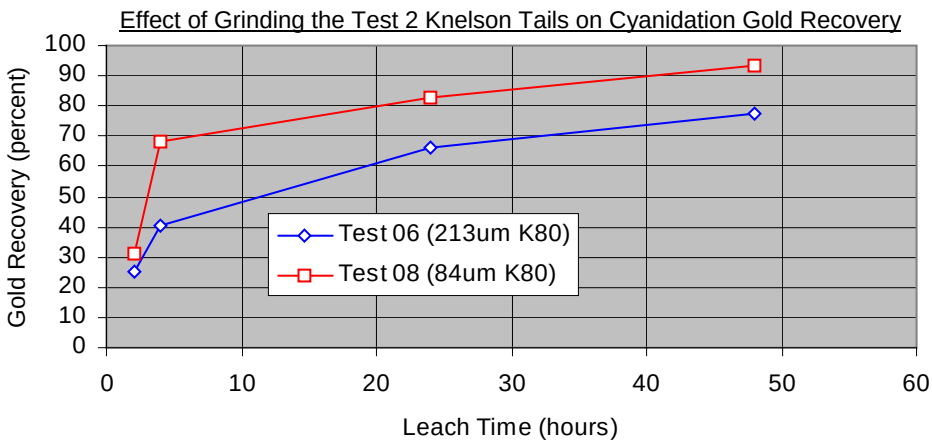
CYANIDATION FLOWHEET, TEST CONDITIONS AND PERFORMANCE



TEST CONDITIONS AND REAGENT CONSUMPTIONS

Leach Test	Knelson Tail Test	Comp	Grind K80µm	Consumption g/t		Pulp	
				NaCN	CaO	pH	Density
5	1	1	200	0.7	3.0	11	33
7	1	1	100	0.8	2.9	11	33
6	2	2	200	0.7	2.2	11	33
8	2	2	84	0.8	2.2	11	33





4.3 Rougher Flotation Data

A total of six rougher kinetic tests were completed to determine the potential for gold recovery by flotation. Three tests were carried out on each individual composite and the results are illustrated graphically in Figure 2. The results indicate the following relevant points:

- Average gold recovery at a nominal flotation feed sizing of 200μm K_{80} is 96 and 53 percent for Composites 1 and 2 respectively.

- The gold mass-recovery profile for Composite 1 ground to 100μm K_{80} decreased significantly compared to the tests ground to 200μm K_{80}. The reason for this decrease in recovery is unknown.

- Composite 2 exhibited improved gold recovery with a finer flotation feed, but the agreement was poor between the calculated and measured head grade. It is likely that the increase in recovery is overstated and the benefit of a finer feed to gold recovery is lower than indicated*.

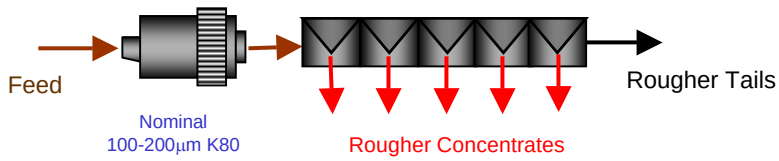
- The higher grade Composite 1 appears to have good potential for recovery by flotation with a relatively coarse flotation feed. Average gold recovery to rougher concentrate of about 95 percent is possible. A mass recovery of between 10 to 15 percent of the feed is required to achieve this recovery.

- Flotation performance for Composite 2 was poor with only half the gold reporting into a concentrate containing 25 to 30 percent of the initial feed mass.

* The presence of free gold may have had an impact on the performance of this test.

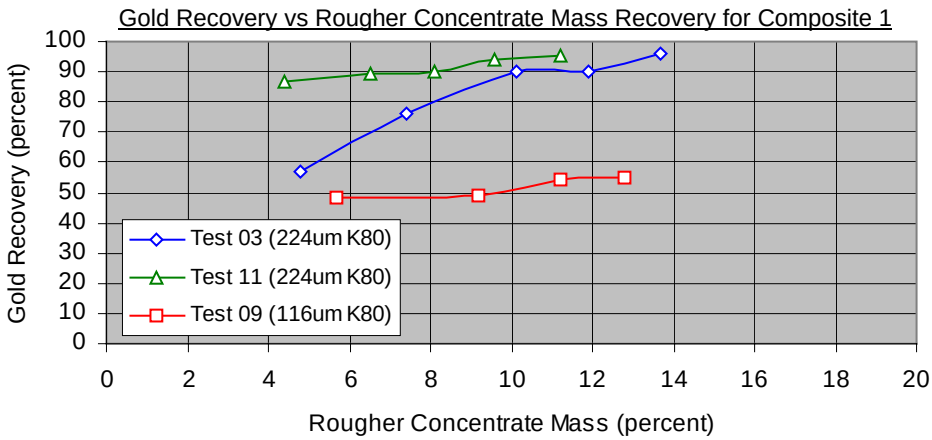
FIGURE 2

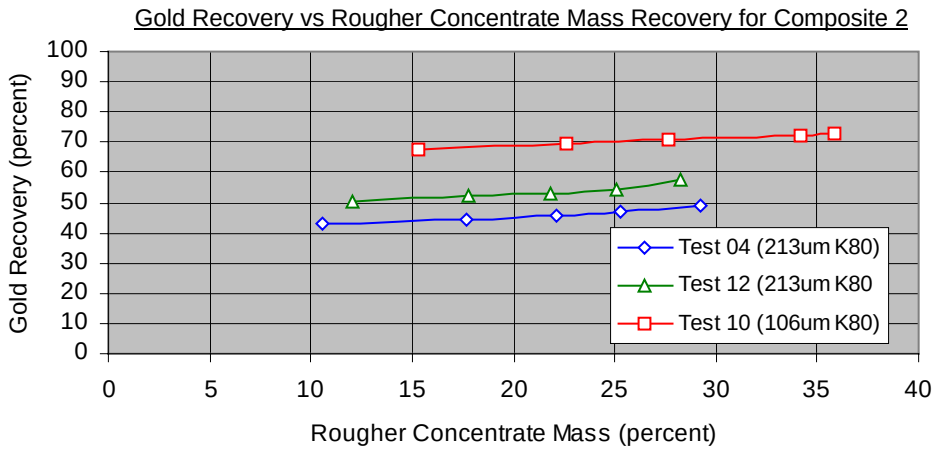
ROUGHER FLOWHEET, TEST CONDITIONS AND PERFORMANCE



TEST CONDITIONS

Test	Comp	Grind K80µm	Consumption g/t		Pulp pH
			PAX	MIBC	
3	1	224	170	30	8.6
11	1	224	150	45	8.8
9	1	116	110	30	8.8
4	2	213	160	75	8.5
12	2	213	160	120	8.5
10	2	106	150	90	8.8





4.4 Gold Occurrence Data

A gravity test was conducted on each composite to generate samples for inspection, using ADIS scans. The purpose of this inspection is to determine the mode of gold occurrence in each stream. The average equivalent circle diameter for each of the observed particles is also determined.

A summary of the ADIS scan data is illustrated in Figures 3A and 3B. The following observations are apparent:

- About 70 percent of the gold observed in the Knelson concentrate from Composite 1 was contained in relatively large gangue-gold binary particles. The gold contained within these particles was relatively coarse with an equivalent circular diameter of about 100μm.

- About 33 percent of the gold observed in the Knelson concentrate from Composite 2 occurred as a gold-gangue binary. The equivalent circle diameter of the gold portion of single particle observed was 310μm indicating that the gold occurrences are quite coarse.

- The coarse gold observed in both concentrates is in a size range that makes it very amenable to gravity concentration.

- Particles observed in the Knelson tailing from Composite 1 were very fine binary particles with low gold content.

- All of the gold particles observed in the Knelson tailing from Composite 2 occurred as fine liberated gold. The size of this material does not lend itself well to recovery by gravity processes.

FIGURE 3A
STATUS OF GOLD OCCURRENCES IN COMPOSITE 1
GRAVITY CONCENTRATION PRODUCTS

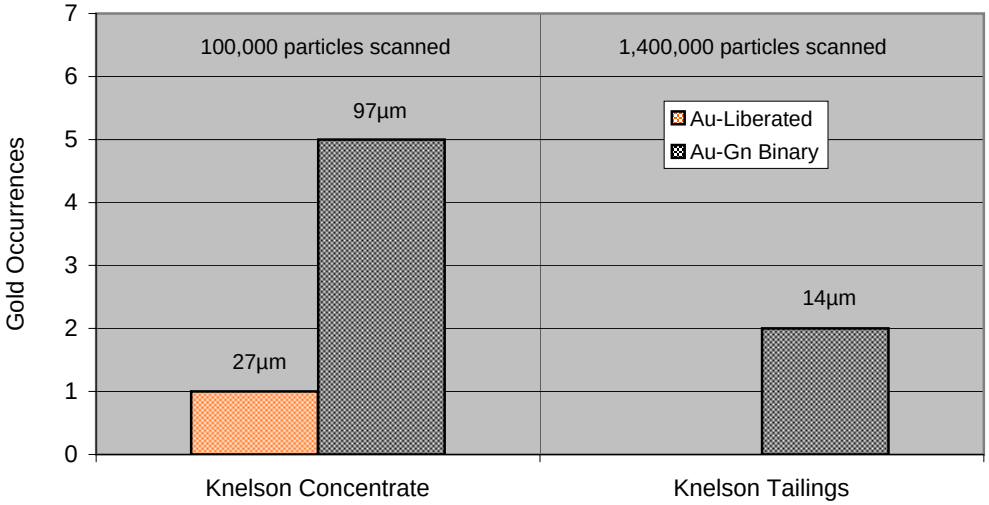
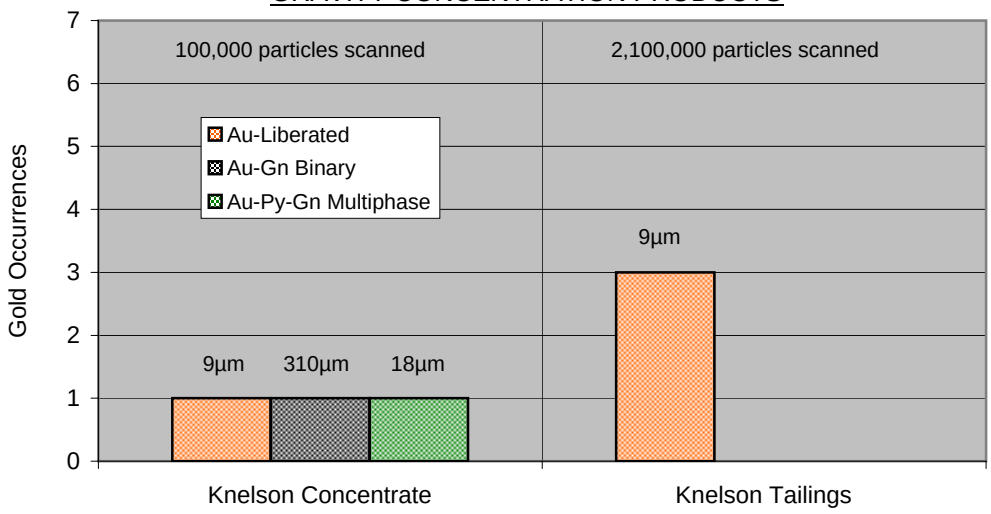


FIGURE 3B
STATUS OF GOLD OCCURRENCES IN COMPOSITE 2
GRAVITY CONCENTRATION PRODUCTS



5.0 Conclusions and Recommendations

Gold contained in Composite 1 responded well to recovery by all of the processes tested. Composite 2, which was of lower grade, produced inferior results compared to Composite 1.

Gravity gold recovery was 80 and 68 percent for Composites 1 and 2 respectively. Cyanidation of the gravity tails was very successful with the majority of gold extracted after 48 hours of cyanide leaching. Decreasing the cyanidation feed particle size K_{80} from 200 to 100μm improved leach extractions by 12 to 16 percent.

Reagent consumptions were reasonable with sodium cyanide consumption at 0.7 kg per tonne of feed and lime between 2.2 and 3.0 kg per tonne of feed.

Gold recovered to a rougher flotation concentrate averaged 95.4 percent at a primary grind K_{80} of 200μm in the feed for Composite 1. Composite 2 with a lower gold feed grade did not perform as well with about 55 percent of the gold recovered to rougher concentrate.

Future work will need to be conducted on representative samples of the complete deposit. Initial testing will be focused on defining the optional flowsheet. Following that, a variability program will be required to determine if there are any parts of the deposit that perform well within the design flowsheet. This stage should be followed up with some pilot scale testing to confirm results from the earlier phases of the program.

APPENDIX I – KM1878

SAMPLE ORIGIN

1.0 Sample Origin

On August 29, 2006, a shipment of drill core samples were received at G & T Metallurgical Services Ltd. In total, 95 core samples were received, which weighed a total of 302.9 kilograms.

Further to instructions provided by Ms. Linda Dandy, selected samples were composited together for metallurgical testing. The construction of these composites are presented in Table I-1.

Each of the composites were stage crushed to 10 mesh (2 mm), homogenized, and rotary split into 1 kilogram charges. The charges were sealed with a nitrogen purge and stored in the freezer at $-10^{o}C$ to minimize the effects of oxidation. Representative replicate sub-samples were removed and analyzed for the elements of interest. A summary of these chemical analyses is shown in Table I-2.

TABLE I-1
COMPOSITE CONSTRUCTION

Composite 1				Composite 2			
Sample ID	Mass kg	Sample ID	Mass kg	Sample ID	Mass kg	Sample ID	Mass kg
350577	1.7	350590	1.9	350612	3.7	350647	3.7
350578	1.3	350591	3.8	350613	3.0	350648	4.2
350579	0.8	350592	2.7	350614	2.0	350649	4.3
350580	2.9	350593	3.1	350615	4.1	350650	3.6
350581	3.2	350594	2.8	350616	3.8	350651	3.7
350582	3.5	350595	4.5	350618	3.7	350652	3.7
350583	3.5	350596	3.3	350619	4.4	350653	3.4
350584	3.6	350597	3.4	350620	4.1	350654	2.8
350585	4	350598	3.2	350621	4.0	350656	3.3
350586	2.5	350599	3.5	350622	4.1	350657	3.3
350587	2.1	350600	3.7	350623	3.7	350658	3.1
350588	3.5	350601	2.8	350625	4.0	350659	3.8
350628	2.2	350602	3.3	350626	4.4	350660	3.5
350629	2.8	350603	3.9	350627	1.9	350661	2.9
350630	3.1	350604	3.0	350638	3.4	350662	3.6
350632	3.4	350605	3.3	350639	3.7	350663	3.6
350633	3.9	350606	3.2	350640	4.0		
350634	2.7	350607	3.2	350641	3.5		
350634	4.2	350608	3.0	350643	4.6		
350635	3.6	350609	3.9	350644	3.9		
350636	3.2	350610	3.1	350645	3.4		
350637	3.7	350611	3.2	350646	3.3		
Total	65.4	Total	-	Total	-	Total	209.0

TABLE I-2
COMPOSITION OF THE HEAD SAMPLES

Composite	Assays				
	Fe	Au	S	C	% H_2O
Composite 1	3.05	8.05	0.24	2.72	1.5
Composite 2	1.57	7.5	0.29	2.71	1.8

Notes: a) Silver and Gold Assays are reported in g/tonne.

b) See Appendix IV for replicate assay data.

APPENDIX II – KM1878

FLOTATION AND GRAVITY TEST DATA

INDEX

PROJECT NO: KM1878-01

PURPOSE: Produce a Knelson Concentrate by Gravity Separation for ADIS.

PROCEDURE: Ground 10 X 1 kg charges in M4 and M5 for 4 minutes in 750 ml H_20 at 224μm for single pass through Knelson separator.

FEED: 10 x 1 kg Composite 1.

FLOWSHEET NO: 4

Stage	Inlet Pressure	Outlet Pressures		Time Minutes
		Start	Finish	
KN Separation 1	66 psi	1.6	1.6	15

KM1878-01 Composite 1
Overall Metallurgical Balance

Product	Weight		Assay	Dist
	grams	%	Au	Au
Knelson Conc	78.7	0.8	1059.9	80.5
Knelson Tail	9648.0	99.2	2.1	19.5
		0.0		
Feed	9726.7	100.0	10.7	100.0

KM1878-01 Composite 1
Cumulative Metallurgical Balance

Cumulative	Cum. Weight		Assay	Dist
Product	grams	%	Au	Au
Product 1	78.7	0.8	1059.9	80.5
Product 2	9648.0	99.2	2.1	19.5
Feed	9726.7	100.0	10.7	100.0

PROJECT NO: KM1878-02

PURPOSE: Produce a Knelson Concentrate by Gravity Separation for ADIS.

PROCEDURE: Ground 10 X 1 kg charges in M4 and M5 for 3 minutes in 750 ml H_20 at 213μm for single pass through Knelson separator.

FEED: 10 x 1 kg Composite 2.

FLOWSHEET NO: 4

Stage	Inlet Pressure	Outlet Pressures		Time Minutes
		Start	Finish	
KN Separation 1	66 psi	1.6	1.8	15

KM1878-02 Composite 2

Overall Metallurgical Balance

Product	Weight		Assay	Dist
	grams	%	Au	Au
Knelson Concentrate	76.8	0.8	98.7	68.2
Knelson Tail	9827.3	99.2	0.4	31.8
Feed	9904.1	100.0	1.1	100.0

KM1878-02 Composite 2

Cumulative Metallurgical Balance

Cumulative Product	Cum. Weight		Assay	Dist
	grams	%	Au	Au
Product 1	76.8	0.8	98.7	68.2
Product 2	9827.3	99.2	0.4	31.8
Feed	9904.1	100.0	1.1	100.0

PROJECT NO: KM1878-03

PURPOSE: Preliminary Rougher Test.

PROCEDURE: Perform a rougher rate test.

FEED: 1 kg of Composite 1 ore ground to a nominal 224μm K_{80}.

FLOWSHEET: 1

Stage	Reagents Added g/tonne			Time (minutes)			pH
	PAX		MIBC	Grind	Cond.	Float	
Primary Grind				4			8.8
Rougher 1	30		30		1	2	8.6
Rougher 2	50		-		1	2	8.6
Rougher 3	30		-		1	2	8.6
Rougher 4	30		-		1	2	8.6
Rougher 5	30		-		1	2	8.6

Flotation Data	Rougher	
Flotation Machine	D2A	
Cell Size in liters	4.4	
Air Aspiration	Supercharged	
Impeller Speed in rpm	1000	

Grinding Data	Primary Grind
Mill:	M5-Mild
Charge/Material:	20 kg-Mild
Water:	750 ml

KM1878-03 Composite 1

Overall Metallurgical Balance

Product	Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Rougher 1	46.9	4.8	4.25	125.4	1.54	4.3	57.0	28.2
Rougher 2	25.8	2.6	5.26	77.2	0.68	3.0	19.3	6.9
Rougher 3	26.0	2.7	6.10	53.8	0.42	3.5	13.6	4.2
Rougher 4	17.7	1.8	5.77	2.69	0.3	2.2	0.5	2.2
Rougher 5	17.2	1.8	5.70	34.0	0.4	2.1	5.7	2.6
Rougher Tail	842.6	86.3	4.63	0.49	0.17	84.9	4.0	55.8
Feed	976.2	100	4.71	10.6	0.26	100	100	100

KM1878-03 Composite 1

Cumulative Metallurgical Balance

Cumulative Product	Cum. Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Product 1	46.9	4.8	4.25	125.4	1.5	4.3	57.0	28.2
Product 1 to 2	72.7	7.4	4.61	108.3	1.2	7.3	76.3	35.0
Product 1 to 3	98.7	10.1	5.00	93.9	1.0	10.7	89.9	39.3
Product 1 to 4	116.4	11.9	5.12	80.05	0.9	13.0	90.3	41.5
Product 1 to 5	133.6	13.7	5.19	74.12	0.8	15.1	96.0	44.2
Product 6	842.6	86.3	4.63	0.49	0.17	84.9	4.0	55.8
Feed	976.2	100	4.71	10.6	0.26	100	100	100

PROJECT NO: KM1878-04

PURPOSE: Preliminary Rougher Test.

PROCEDURE: Perform a rougher rate test.

FEED: 1 kg of Composite 2 ore ground to a nominal 213μm K_{80}.

FLOWSHEET: 1

Stage	Reagents Added g/tonne			Time (minutes)			pH
	PAX		MIBC	Grind	Cond.	Float	
Primary Grind				3			8.5
Rougher 1	10		45		1	3	8.6
Rougher 2	20		30		1	2	8.5
Rougher 3	30		-		1	2	8.5
Rougher 4	50		-		1	2	8.5
Rougher 5	50		-		1	3	8.5

Flotation Data	Rougher	
Flotation Machine	D2A	
Cell Size in liters	4.4	
Air Aspiration	Supercharged	
Impeller Speed in rpm	1000	

Grinding Data	Primary Grind
Mill:	M5-Mild
Charge/Material:	20 kg-Mild
Water:	750 ml

KM 1878-04 Composite 2

Overall Metallurgical Balance

Product	Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Rougher 1	103.5	10.6	1.55	3.57	0.24	3.6	42.8	13.9
Rougher 2	68.7	7.1	2.87	0.19	0.24	4.5	1.5	9.2
Rougher 3	42.8	4.4	4.39	0.29	0.32	4.3	1.5	7.9
Rougher 4	30.9	3.2	4.87	0.30	0.23	3.4	1.1	4.1
Rougher 5	38.5	4.0	5.00	0.41	0.26	4.4	1.8	5.6
Rougher Tail	688.2	70.8	5.13	0.64	0.15	79.9	51.3	59.4
Feed	972.6	100	4.54	0.89	0.18	100	100	100

KM 1878-04 Composite 2

Cumulative Metallurgical Balance

Cumulative Product	Cum. Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Product 1	103.5	10.6	1.55	3.57	0.24	3.6	42.8	13.9
Product 1 to 2	172.2	17.7	2.08	2.22	0.24	8.1	44.4	23.0
Product 1 to 3	215.0	22.1	2.54	1.84	0.25	12.3	45.8	30.9
Product 1 to 4	245.9	25.3	2.83	1.64	0.25	15.7	46.9	35.0
Product 1 to 5	284.4	29.2	3.12	1.48	0.25	20.1	48.7	40.6
Product 6	688.2	70.8	5.13	0.64	0.15	79.9	51.3	59.4
Feed	972.6	100	4.54	0.89	0.18	100	100	100

PROJECT NO: KM1878-05

PURPOSE: Preliminary Cyanide Leach Test

PROCEDURE: Standard bottle roll procedure. Agitate on rolls using cyanide and lime.

SAMPLE: Test 1 Knelson Tail

Parameter	Time	Added (g)		Residual (g)		Consumed (g)		pH
	Cum	NaCN	CaO	NaCN	CaO	NaCN	CaO	
Natural		-	-	-	-	-	-	7.8
Leach 1	2	1.00	0.80	0.71	0.00	0.29	0.80	11.0
Leach 2	4	0.29	0.30	0.97	0.01	0.03	0.29	11.0
Leach 3	24	0.00	0.20	0.94	0.03	0.03	0.18	11.1
Leach 4	48	0.00	0.20	0.94	0.02	0.00	0.21	11.1
Total	48	1.29	1.50	0.94	0.02	0.35	1.48	-

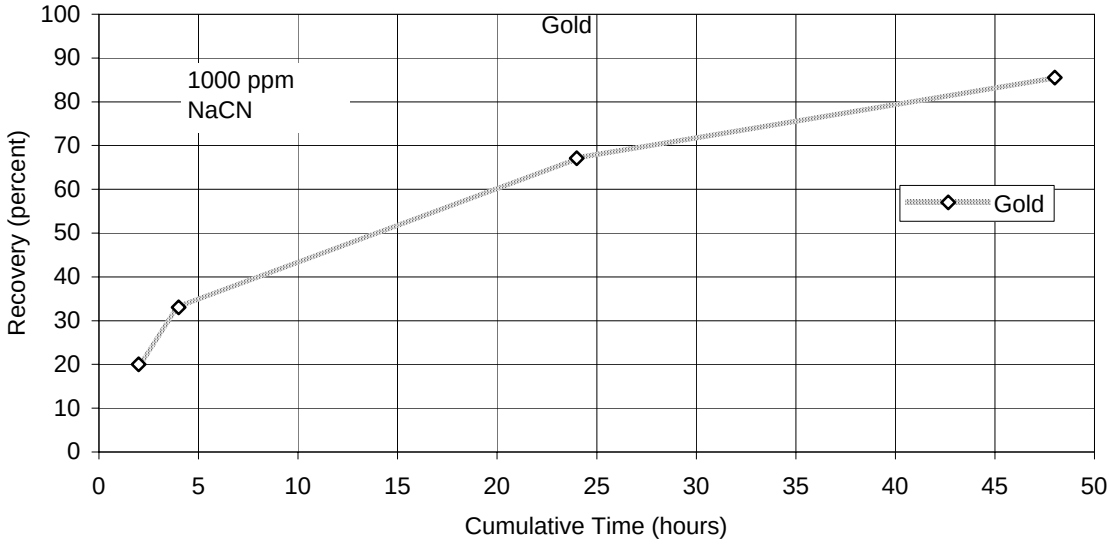
Mass of Sample	500
Volume of Water	1000
Pulp Density	33

NaCN Consumption	0.7 kg/tonne
Lime Consumption	3.0 kg/tonne

KM1878-05 Test 1 Knelson Tail
Cumulative Metallurgical Balance

Product	Cumulative Time - Hrs	Volume or Mass	Units	Assay - g/t Gold	Distribution -percent Gold
Cyanide Liquor (2 hr)	2	1000	ml	0.27	20.0
Cyanide Liquor (4 hr)	4	1000	ml	0.44	33.1
Cyanide Liquor (24 hr)	24	1000	ml	0.89	67.1
Cyanide Liquor (48 hr)	48	1000	ml	1.12	85.5
Cyanidation Tails	-	499.8	g	0.39	14.5
Calculated Feed		500	g	2.69	100.0

Cyanide Leach Kinetic Curves



PROJECT NO: KM1878-06

PURPOSE: Preliminary Cyanide Leach Test

PROCEDURE: Standard bottle roll procedure. Agitate on rolls using cyanide and lime.

SAMPLE: Test 2 Knelson Tail

Parameter	Time	Added (g)		Residual (g)		Consumed (g)		pH
	Cum	NaCN	CaO	NaCN	CaO	NaCN	CaO	
Natural		-	-	-	-	-	-	8.6
Leach 1	2	1.00	0.70	0.74	0.00	0.26	0.70	11.0
Leach 2	4	0.26	0.20	0.94	0.02	0.06	0.18	11.0
Leach 3	24	0.00	0.00	0.91	0.01	0.03	0.01	11.0
Leach 4	48	0.00	0.20	0.91	0.01	0.00	0.20	11.0
Total	48	1.26	1.10	0.91	0.01	0.35	1.09	-

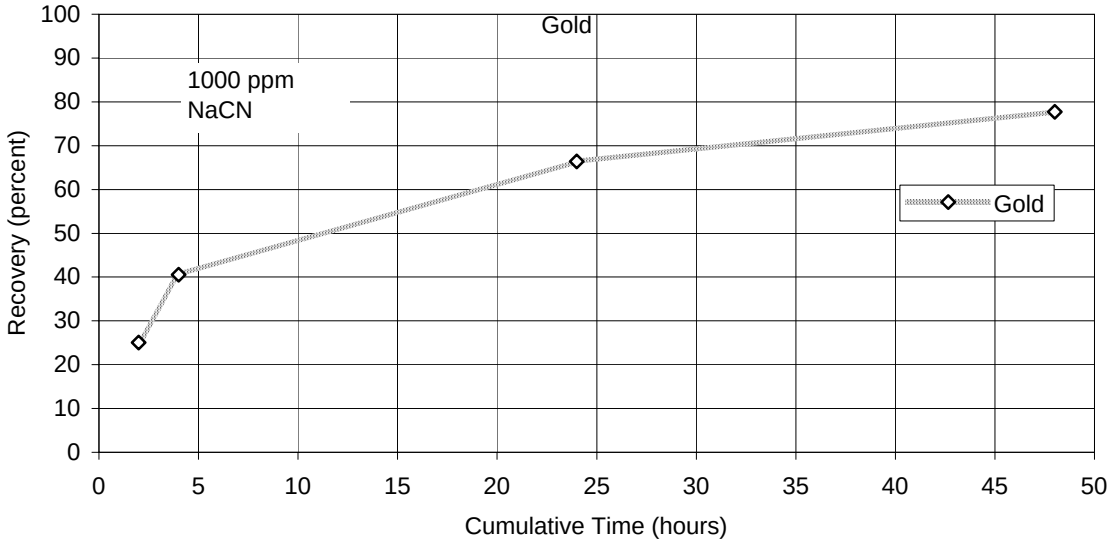
Mass of Sample	500
Volume of Water	1000
Pulp Density	33

NaCN Consumption	0.7 kg/tonne
Lime Consumption	2.2 kg/tonne

KM1878-06 Test 2 Knelson Tail
Cumulative Metallurgical Balance

Product	Cumulative Time - Hrs	Volume or Mass	Units	Assay - g/t Gold	Distribution -percent Gold
Cyanide Liquor (2 hr)	2	1000	ml	0.05	25.0
Cyanide Liquor (4 hr)	4	1000	ml	0.08	40.5
Cyanide Liquor (24 hr)	24	1000	ml	0.13	66.4
Cyanide Liquor (48 hr)	48	1000	ml	0.15	77.7
Cyanidation Tails	-	495.1	g	0.09	22.3
Calculated Feed		500	g	0.40	100.0

Cyanide Leach Kinetic Curves



PROJECT NO: KM1878-07

PURPOSE: Investigate The Effect of a Finer Grind on Leach Metallurgy.

PROCEDURE: Standard bottle roll procedure. Agitate on rolls using cyanide and lime.

SAMPLE: Test 1 Knelson Tail ground for 2 minutes to a 100um K80.

Parameter	Time	Added (g)		Residual (g)		Consumed (g)		pH
	Cum	NaCN	CaO	NaCN	CaO	NaCN	CaO	
Natural		-	-	-	-	-	-	8.0
Leach 1	2	1.00	0.80	0.68	0.00	0.32	0.80	11.0
Leach 2	4	0.32	0.30	0.97	0.01	0.03	0.29	11.0
Leach 3	24	0.00	0.20	0.93	0.03	0.04	0.18	11.1
Leach 4	48	0.00	0.20	0.93	0.03	0.00	0.20	11.1
Total	48	1.32	1.50	0.93	0.03	0.39	1.47	-

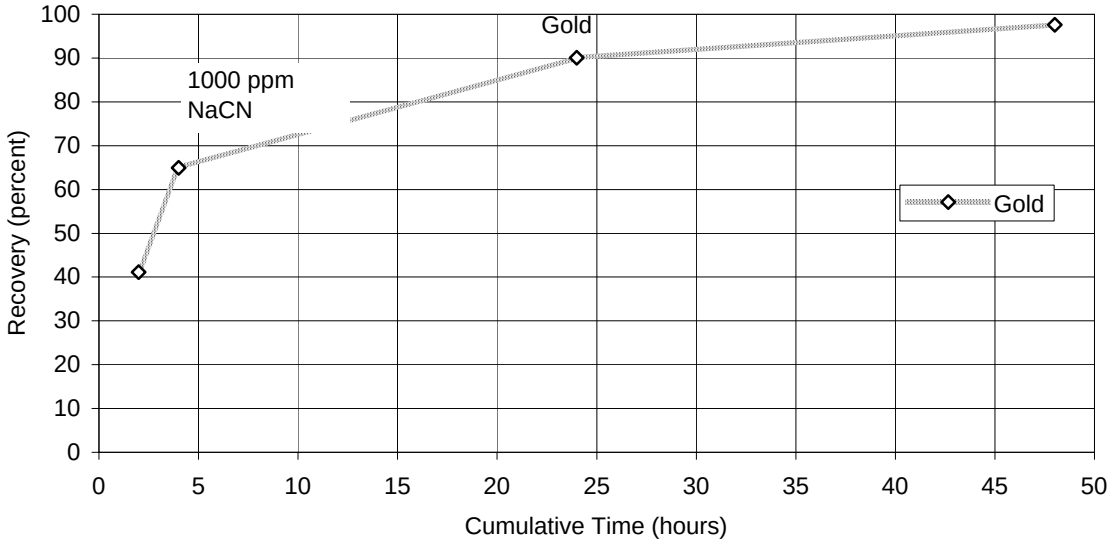
Mass of Sample	500
Volume of Water	1000
Pulp Density	33

NaCN Consumption	0.8 kg/tonne
Lime Consumption	2.9 kg/tonne

KM1878-07 Test 1 Knelson Tail Ground
Cumulative Metallurgical Balance

Product	Cumulative Time - Hrs	Volume or Mass	Units	Assay - g/t Gold	Distribution -percent Gold
Cyanide Liquor (2 hr)	2	1000	ml	0.50	41.1
Cyanide Liquor (4 hr)	4	1000	ml	0.78	64.9
Cyanide Liquor (24 hr)	24	1000	ml	1.07	90.1
Cyanide Liquor (48 hr)	48	1000	ml	1.14	97.6
Cyanidation Tails	-	493.8	g	0.06	2.4
Calculated Feed		500	g	2.43	100.0

Cyanide Leach Kinetic Curves



PROJECT NO: KM1878-08

PURPOSE: Investigate The Effect of a Finer Grind on Leach Metallurgy.

PROCEDURE: Standard bottle roll procedure. Agitate on rolls using cyanide and lime.

SAMPLE: Test 2 Knelson Tail ground for 2 minutes to a 84um K80.

Parameter	Time	Added (g)		Residual (g)		Consumed (g)		pH
	Cum	NaCN	CaO	NaCN	CaO	NaCN	CaO	
Natural		-	-	-	-	-	-	8.8
Leach 1	2	1.00	0.70	0.70	0.00	0.30	0.70	11.0
Leach 2	4	0.30	0.20	0.96	0.02	0.04	0.18	11.0
Leach 3	24	0.00	0.00	0.90	0.00	0.06	0.02	11.0
Leach 4	48	0.00	0.20	0.90	0.02	0.00	0.18	11.0
Total	48	1.30	1.10	0.90	0.02	0.40	1.08	-

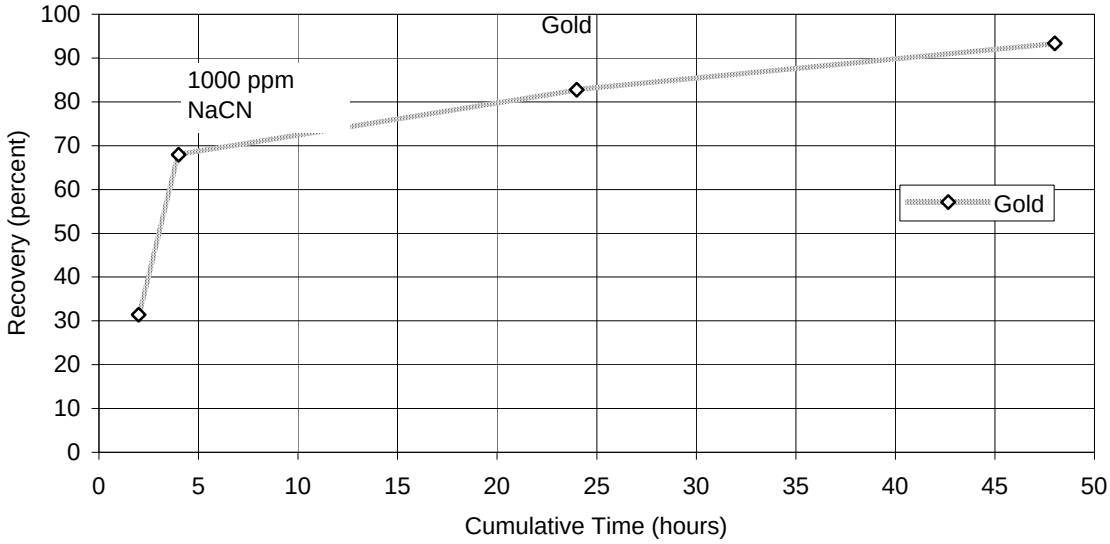
Mass of Sample	500
Volume of Water	1000
Pulp Density	33

NaCN Consumption	0.8 kg/tonne
Lime Consumption	2.2 kg/tonne

KM1878-08 Test 2 Knelson Tail Ground
Cumulative Metallurgical Balance

Product	Cumulative Time - Hrs	Volume or Mass	Units	Assay - g/t Gold	Distribution -percent Gold
Cyanide Liquor (2 hr)	2	1000	ml	0.07	31.4
Cyanide Liquor (4 hr)	4	1000	ml	0.15	67.9
Cyanide Liquor (24 hr)	24	1000	ml	0.18	82.8
Cyanide Liquor (48 hr)	48	1000	ml	0.20	93.3
Cyanidation Tails	-	494.5	g	0.03	6.7
Calculated Feed		500	g	0.45	100.0

Cyanide Leach Kinetic Curves



PROJECT NO: KM1878-09

PURPOSE: Preliminary Rougher Test With a Finer Primary Grind.

PROCEDURE: Perform a rougher rate test.

FEED: 1 kg of Composite 1 ore ground to a nominal 116μm K_{80}.

FLOWSHEET: 1

Stage	Reagents Added g/tonne			Time (minutes)			pH
	PAX		MIBC	Grind	Cond.	Float	
Primary Grind				6			8.8
Rougher 1	10		30		1	2	8.9
Rougher 2	30		-		1	2	8.8
Rougher 3	50		-		1	2	8.8
Rougher 4	20		-		1	2	8.8

Flotation Data	Rougher	
Flotation Machine	D2A	
Cell Size in liters	4.4	
Air Aspiration	Supercharged	
Impeller Speed in rpm	1000	

Grinding Data	Primary Grind
Mill:	M5-Mild
Charge/Material:	20 kg-Mild
Water:	750 ml

KM 1878-09 Composite1

Overall Metallurgical Balance

Product	Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Rougher 1	56.4	5.7	4.0	100.6	1.38	4.7	48.6	27.8
Rougher 2	34.3	3.5	5.5	0.86	0.58	4.0	0.3	7.1
Rougher 3	19.2	2.0	5.8	33.1	0.54	2.3	5.4	3.7
Rougher 4	15.8	1.6	6.4	2.86	0.36	2.1	0.4	2.0
Rougher Tail	857.3	87.2	4.8	6.17	0.19	86.8	45.3	59.4
Feed	983.0	100	4.8	11.9	0.29	100	100	100

KM 1878-09 Composite1

Cumulative Metallurgical Balance

Cumulative Product	Cum. Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Product 1	56.4	5.7	4.0	100.6	1.38	4.7	48.6	27.8
Product 1 to 2	90.7	9.2	4.5	62.9	1.08	8.7	48.9	34.9
Product 1 to 3	109.9	11.2	4.8	57.7	0.98	11.0	54.3	38.6
Product 1 to 4	125.7	12.8	5.0	50.8	0.91	13.2	54.7	40.6
Product 5	857.3	87.2	4.8	6.17	0.19	86.8	45.3	59.4
Feed	983.0	100	4.8	11.9	0.29	100	100	100

PROJECT NO: KM1878-10

PURPOSE: Preliminary Rougher Test With a Finer Primary Grind.

PROCEDURE: Perform a rougher rate test.

FEED: 1 kg of Composite 2 ore ground to a nominal 106μm K_{80}.

FLOWSHEET: 1

Stage	Reagents Added g/tonne			Time (minutes)			pH
	PAX		MIBC	Grind	Cond.	Float	
Primary Grind				5			8.8
Rougher 1	10		-		1	2	8.8
Rougher 2	30		15		1	2	8.8
Rougher 3	40		15		1	2	8.8
Rougher 4	30		60*		1	5	8.7
Rougher 5	20		-		1	2	8.7

Flotation Data	Rougher	
Flotation Machine	D2A	
Cell Size in liters	4.4	
Air Aspiration	Supercharged	
Impeller Speed in rpm	1000	

Grinding Data	Primary Grind
Mill:	M5-Mild
Charge/Material:	20 kg-Mild
Water:	750 ml

* When MIBC is added, brown coarse solids rise to the surface of the froth.

KM 1878-10 Composite 2

Overall Metallurgical Balance

Product	Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Rougher 1	149.8	15.3	1.7	6.40	0.19	5.6	67.5	15.1
Rougher 2	71.0	7.3	2.9	0.42	0.32	4.5	2.1	11.8
Rougher 3	49.5	5.1	3.9	0.33	0.27	4.3	1.1	7.1
Rougher 4	63.6	6.5	5.2	0.31	0.21	7.4	1.4	7.2
Rougher 5	16.2	1.7	5.7	0.65	0.27	2.0	0.7	2.3
Rougher Tail	626.3	64.1	5.5	0.61	0.17	76.1	27.1	56.4
Feed	976.4	100	4.6	1.45	0.19	100	100	100

KM 1878-10 Composite 2

Cumulative Metallurgical Balance

Cumulative Product	Cum. Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Product 1	149.8	15.3	1.7	6.40	0.19	5.6	67.5	15.1
Product 1 to 2	220.8	22.6	2.1	4.48	0.23	10.1	69.6	26.9
Product 1 to 3	270.3	27.7	2.4	3.72	0.24	14.4	70.8	34.1
Product 1 to 4	333.9	34.2	2.9	3.07	0.23	21.9	72.2	41.3
Product 1 to 5	350.1	35.9	3.1	2.96	0.24	23.9	72.9	43.6
Product 6	626.3	64.1	5.5	0.61	0.17	76.1	27.1	56.4
Feed	976.4	100	4.6	1.45	0.19	100	100	100

PROJECT NO: KM1878-11

PURPOSE: Repeat Test 3.

PROCEDURE: Perform a rougher rate test.

FEED: 1 kg of Composite 1 ore ground to a nominal 224μm K_{80}.

FLOWSHEET: 1

Stage	Reagents Added g/tonne			Time (minutes)			pH
	PAX		MIBC	Grind	Cond.	Float	
Primary Grind				4			9.0
Rougher 1	30		30		1	2	8.8
Rougher 2	30		-		1	2	8.8
Rougher 3	30		15		1	2	8.7
Rougher 4	30		-		1	2	8.7
Rougher 5	30		-		1	2	8.6

Flotation Data	Rougher	
Flotation Machine	D2A	
Cell Size in liters	4.4	
Air Aspiration	Supercharged	
Impeller Speed in rpm	1000	

Grinding Data	Primary Grind
Mill:	M5-Mild
Charge/Material:	20 kg-Mild
Water:	750 ml

KM 1878-11 Composite1

Overall Metallurgical Balance

Product	Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Rougher 1	43.7	4.4	3.9	216.0	1.59	3.6	86.9	18.1
Rougher 2	20.0	2.0	5.5	14.9	1.21	2.4	2.7	6.3
Rougher 3	16.4	1.7	5.6	3.57	0.85	2.0	0.5	3.6
Rougher 4	14.6	1.5	5.8	29.6	0.68	1.8	4.0	2.6
Rougher 5	16.1	1.6	5.4	8.08	0.60	1.9	1.2	2.5
Rougher Tail	874.1	88.8	4.7	0.57	0.29	88.4	4.6	66.9
Feed	984.9	100	4.7	11.0	0.39	100	100	100

KM 1878-11 Composite1

Cumulative Metallurgical Balance

Cumulative	Cum. Weight		Assay			Distribution		
Product	grams	%	Fe	Au	S	Fe	Au	S
Product 1	43.7	4.4	3.9	216.0	1.59	3.6	86.9	18.1
Product 1 to 2	63.7	6.5	4.4	152.9	1.47	6.0	89.7	24.4
Product 1 to 3	80.1	8.1	4.6	122.3	1.34	7.9	90.2	28.0
Product 1 to 4	94.7	9.6	4.8	108.0	1.24	9.7	94.2	30.6
Product 1 to 5	110.8	11.2	4.9	93.5	1.1	11.6	95.4	33.1
Product 6	874.1	88.8	4.7	0.57	0.29	88.4	4.6	66.9
Feed	984.9	100	4.7	11.0	0.39	100	100	100

PROJECT NO: KM1878-12

PURPOSE: Repeat Test 4.

PROCEDURE: Perform a rougher rate test.

FEED: 1 kg of Composite 2 ore ground to a nominal 213μm K_{80}.

FLOWSHEET: 1

Stage	Reagents Added g/tonne			Time (minutes)			pH
	PAX		MIBC	Grind	Cond.	Float	
Primary Grind				3			8.9
Rougher 1	10		60		1	3	8.5
Rougher 2	20		15		1	2	8.5
Rougher 3	30		15		1	2	8.4
Rougher 4	50		15		2	2	8.4
Rougher 5	50		15		5	10	8.4

Flotation Data	Rougher	
Flotation Machine	D2A	
Cell Size in liters	4.4	
Air Aspiration	Supercharged	
Impeller Speed in rpm	1000	

Grinding Data	Primary Grind
Mill:	M5-Mild
Charge/Material:	20 kg-Mild
Water:	750 ml

KM 1878-12 Composite2

Overall Metallurgical Balance

Product	Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Rougher 1	117.3	12.0	1.8	4.26	0.27	4.8	50.1	12.3
Rougher 2	57.2	5.8	3.3	0.34	0.32	4.2	2.0	7.1
Rougher 3	38.3	3.9	4.1	0.32	0.38	3.5	1.2	5.7
Rougher 4	32.2	3.3	3.7	0.38	0.35	2.6	1.2	4.3
Rougher 5	31.0	3.2	4.1	1.03	0.32	2.8	3.2	3.8
Rougher Tail	701.9	71.8	5.3	0.60	0.24	82.2	42.3	66.8
Feed	977.9	100	4.6	1.02	0.26	100	100	100

KM 1878-12 Composite2

Cumulative Metallurgical Balance

Cumulative Product	Cum. Weight		Assay			Distribution		
	grams	%	Fe	Au	S	Fe	Au	S
Product 1	117.3	12.0	1.8	4.26	0.27	4.8	50.1	12.3
Product 1 to 2	174.5	17.8	2.3	2.98	0.28	8.9	52.1	19.3
Product 1 to 3	212.8	21.8	2.6	2.50	0.30	12.4	53.3	25.0
Product 1 to 4	245.0	25.1	2.8	2.22	0.31	15.0	54.5	29.4
Product 1 to 5	276.0	28.2	2.9	2.09	0.3	17.8	57.7	33.2
Product 6	701.9	71.8	5.3	0.60	0.24	82.2	42.3	66.8
Feed	977.9	100	4.6	1.02	0.26	100	100	100

APPENDIX III – KM1878

PARTICLE SIZING DATA

INDEX

TABLE III-1A

BOND GRINDABILITY TEST

KM1878 Composite 1

Weight of 700 ml Sample :	1208.8 g.	Aperture Test Sieve :	106µm
1/3.5 of Sample Weight :	345.4 g.	Percent Undersize :	16.2%

Cycle	Weight of New Feed	Number of Revolutions	Weight of Undersize			
			Product	Feed	Net Product	Net / Rev
1	1208.8	100	232.7	195.8	36.9	0.37
2	232.7	834	760.1	37.7	722.4	0.87
3	760.1	257	362.7	123.1	239.6	0.93
4	362.7	307	372.4	58.8	313.6	1.02
5	372.4	279	357.3	60.3	297.0	1.06
6	357.3	270	344.1	57.9	286.2	1.06
7	344.1	273	334.0	55.7	278.3	1.02

BOND'S WORK INDEX FORMULA

$$Wi = 44.5 / (Pi^{.23} \times Gpb^{.82} \times (10/\sqrt{P} - 10/\sqrt{F}))$$

Pi = Sieve Size Tested	106 µm
Gbp = Net undersize produced per revolution of mill.	1.05 g.
P = 80% Passing size of test product.	76 µm
F = 80% Passing size of test feed.	2712 µm

WORK INDEX (Wi)

15.3 kw-hr/ton

16.8 kw-hr/tonne

NB: Gbp = Average of last 3 Net/Rev Cycles

TABLE III-1B
BOND SCREEN ANALYSIS
KM1878 Composite 1 - Feed 1

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
6 Mesh	3360	4.36	95.6
7 Mesh	2800	13.58	82.1
8 Mesh	2360	10.27	71.8
9 Mesh	2000	7.73	64.1
10 Mesh	1700	6.41	57.6
12 Mesh	1400	6.24	51.4
14 Mesh	1180	4.42	47.0
20 Mesh	850	7.51	39.5
28 Mesh	600	6.02	33.5
35 Mesh	425	4.69	28.8
48 Mesh	300	4.14	24.6
65 Mesh	212	3.42	21.2
100 Mesh	150	2.87	18.3
150 Mesh	106	2.26	16.1
200 Mesh	75	0.00	16.1
270 Mesh	53	0.00	16.1
400 Mesh	38	0.00	16.1
TOTAL		100.00	**

K80 =2711µm

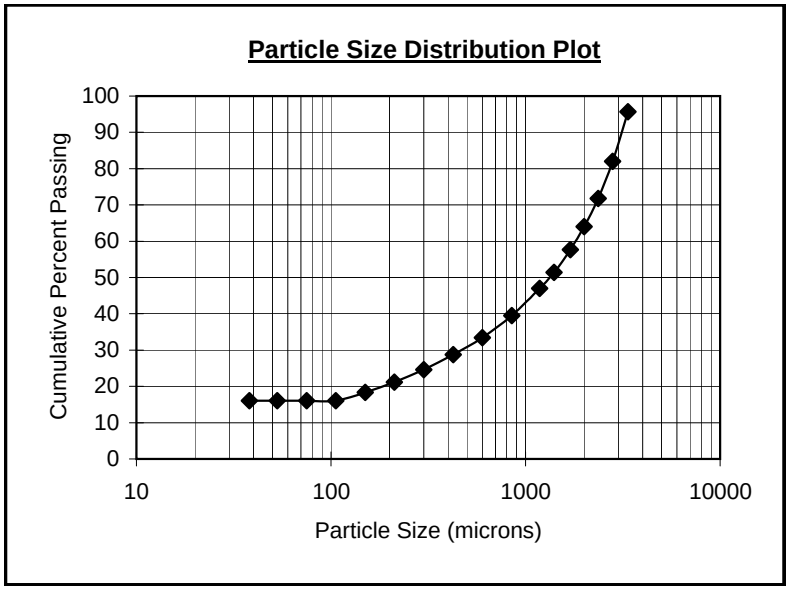


TABLE III-1C
BOND SCREEN ANALYSIS
KM1878 Composite 1 - Feed 2

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
6 Mesh	3360	4.99	95.0
7 Mesh	2800	16.39	78.6
8 Mesh	2360	11.80	66.8
9 Mesh	2000	8.34	58.5
10 Mesh	1700	6.24	52.2
12 Mesh	1400	5.73	46.5
14 Mesh	1180	4.03	42.5
20 Mesh	850	0.00	42.5
28 Mesh	600	0.00	42.5
35 Mesh	425	7.54	34.9
48 Mesh	300	8.11	26.8
65 Mesh	212	7.60	19.2
100 Mesh	150	6.24	13.0
150 Mesh	106	4.65	8.3
200 Mesh	75	0.00	8.3
270 Mesh	53	0.00	8.3
400 Mesh	38	0.00	8.3
TOTAL		100.00	**

K80 =2847µm

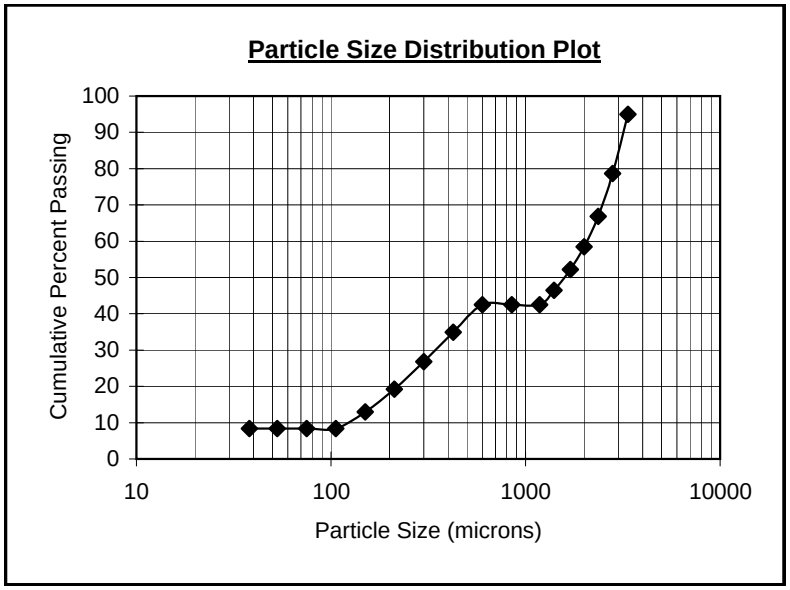


TABLE III-1D
BOND SCREEN ANALYSIS
KM1878 Composite 1 - Feed 3

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
6 Mesh	3360	4.37	95.6
7 Mesh	2800	13.74	81.9
8 Mesh	2360	9.95	71.9
9 Mesh	2000	7.59	64.3
10 Mesh	1700	6.27	58.1
12 Mesh	1400	6.04	52.0
14 Mesh	1180	4.37	47.7
20 Mesh	850	7.53	40.1
28 Mesh	600	5.92	34.2
35 Mesh	425	4.89	29.3
48 Mesh	300	4.08	25.2
65 Mesh	212	3.57	21.7
100 Mesh	150	2.99	18.7
150 Mesh	106	2.36	16.3
200 Mesh	75	0.00	16.3
270 Mesh	53	0.00	16.3
400 Mesh	38	0.00	16.3
TOTAL		100.00	**

K80 =2715µm

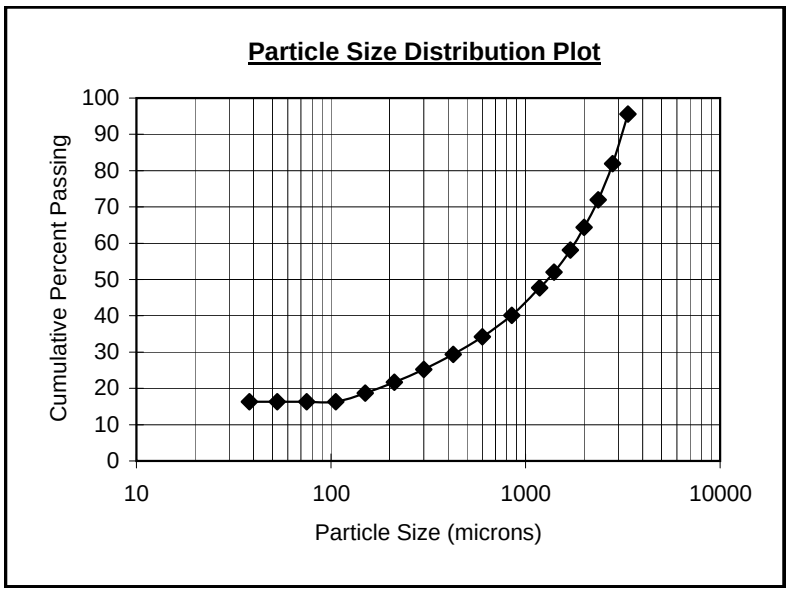


TABLE III-1E
BOND SCREEN ANALYSIS
KM1878 Composite 1 Feed - 1,3 Average

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
6 Mesh	3360	4.36	95.6
7 Mesh	2800	13.65	82.0
8 Mesh	2360	10.11	71.9
9 Mesh	2000	7.66	64.2
10 Mesh	1700	6.33	57.9
12 Mesh	1400	6.14	51.7
14 Mesh	1180	4.39	47.4
20 Mesh	850	7.52	39.8
28 Mesh	600	5.97	33.9
35 Mesh	425	4.79	29.1
48 Mesh	300	4.11	25.0
65 Mesh	212	3.49	21.5
100 Mesh	150	2.93	18.6
150 Mesh	106	2.31	16.2
200 Mesh	75	0.00	16.2
270 Mesh	53	0.00	16.2
400 Mesh	38	0.00	16.2
TOTAL		100.00	**

K80 =2712µm

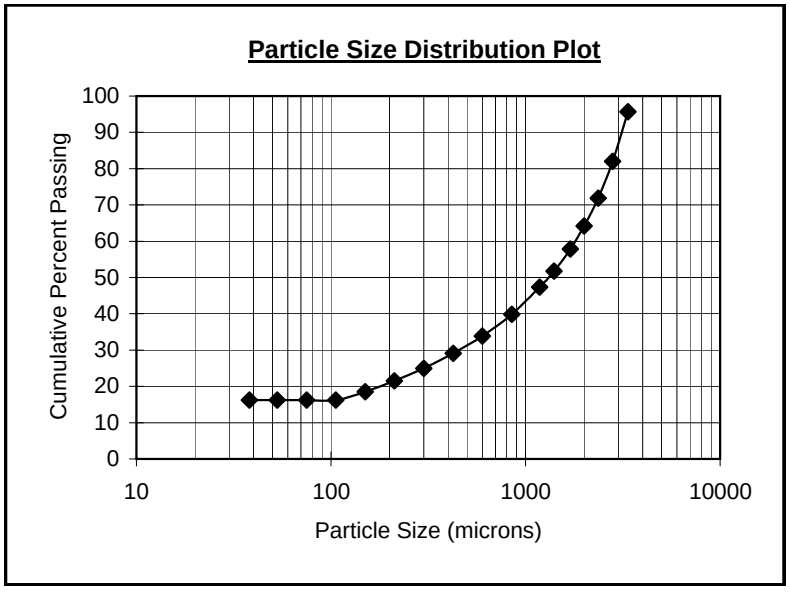


TABLE III-1F
BOND SCREEN ANALYSIS
KM1878 Composite 1 - Cycle 7 Undersize

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
150 Mesh	106	0.00	100.0
170 Mesh	90	12.14	87.9
200 Mesh	75	8.29	79.6
270 Mesh	53	14.59	65.0
325 Mesh	45	6.14	58.8
400 Mesh	38	2.92	55.9
TOTAL		100.00	**

K80 =76µm

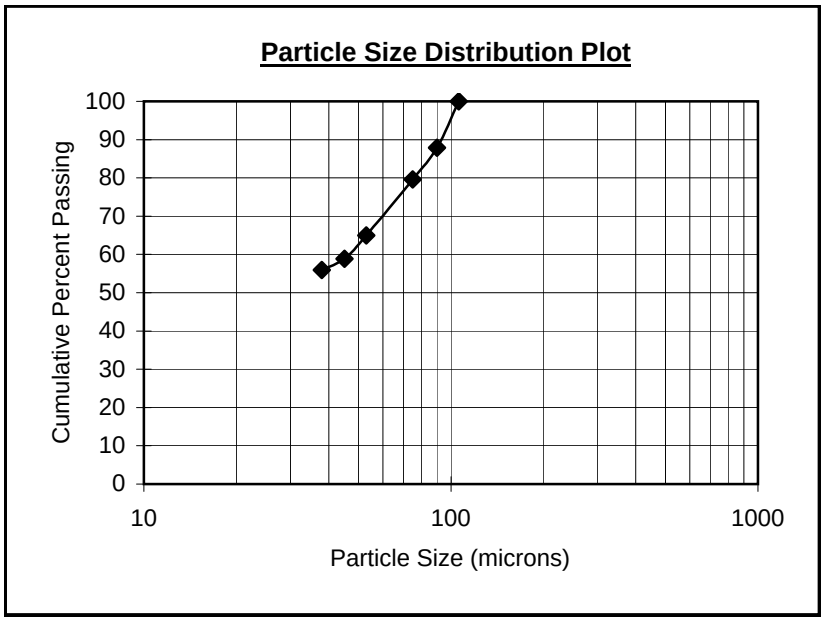


TABLE III-2A

BOND GRINDABILITY TEST

KM1878 Composite 2

Weight of 700 ml Sample :	1199.4 g.	Aperture Test Sieve :	106µm
1/3.5 of Sample Weight :	342.7 g.	Percent Undersize :	21.9%

Cycle	Weight of New Feed	Number of Revolutions	Weight of Undersize			
			Product	Feed	Net Product	Net / Rev
1	1199.4	200	445.5	262.7	182.8	0.91
2	445.5	268	470.1	97.6	372.5	1.39
3	470.1	173	348.3	103.0	245.3	1.42
4	348.3	187	346.4	76.3	270.1	1.44
5	346.4	185	334.2	75.9	258.3	1.40
6	334.2	193	349.0	73.2	275.8	1.43

BOND'S WORK INDEX FORMULA

$$Wi = 44.5 / (Pi^{.23} \times Gpb^{.82} \times (10/\sqrt{P} - 10/\sqrt{F}))$$

Pi = Sieve Size Tested	106 µm
Gbp = Net undersize produced per revolution of mill.	1.42 g.
P = 80% Passing size of test product.	82 µm
F = 80% Passing size of test feed.	2241 µm

WORK INDEX (Wi)

12.8 kw-hr/ton

14.1 kw-hr/tonne

NB: Gbp = Average of last 3 Net/Rev Cycles

TABLE III-2B
BOND SCREEN ANALYSIS
KM1878 Composite 2 - Feed 1

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
6 Mesh	3360	0.80	99.2
7 Mesh	2800	7.58	91.6
8 Mesh	2360	9.38	82.2
9 Mesh	2000	7.09	75.1
10 Mesh	1700	5.99	69.2
12 Mesh	1400	5.89	63.3
14 Mesh	1180	4.84	58.4
20 Mesh	850	8.03	50.4
28 Mesh	600	6.89	43.5
35 Mesh	425	5.74	37.8
48 Mesh	300	4.94	32.8
65 Mesh	212	4.34	28.5
100 Mesh	150	3.64	24.9
150 Mesh	106	2.84	22.0
200 Mesh	75	0.00	22.0
270 Mesh	53	0.00	22.0
400 Mesh	38	0.00	22.0
TOTAL		100.00	**

K80 =2243µm

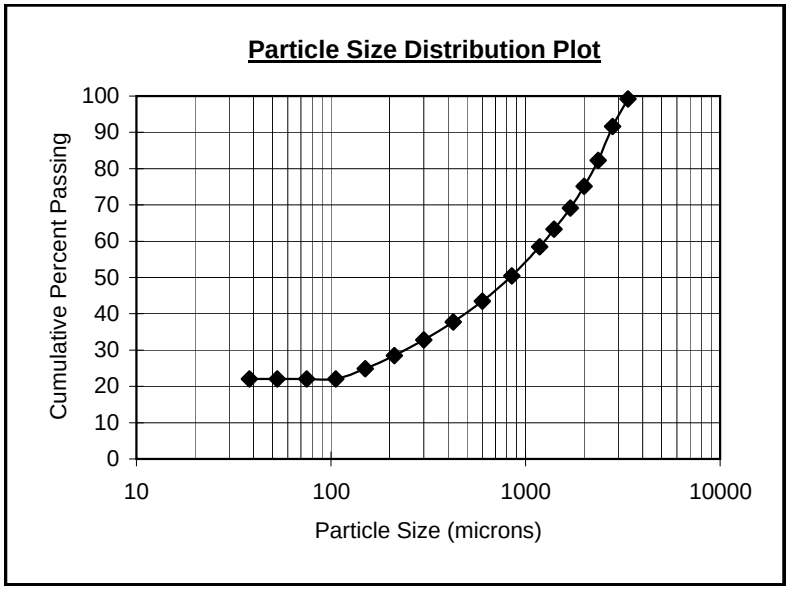


TABLE III-2C
BOND SCREEN ANALYSIS
KM1878 Composite 2 - Feed 2

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
6 Mesh	3360	1.20	98.8
7 Mesh	2800	8.95	89.9
8 Mesh	2360	9.86	80.0
9 Mesh	2000	7.84	72.2
10 Mesh	1700	6.06	66.1
12 Mesh	1400	5.68	60.4
14 Mesh	1180	4.38	56.0
20 Mesh	850	8.03	48.0
28 Mesh	600	6.49	41.5
35 Mesh	425	5.19	36.3
48 Mesh	300	4.62	31.7
65 Mesh	212	3.94	27.8
100 Mesh	150	3.32	24.4
150 Mesh	106	2.65	21.8
200 Mesh	75	0.00	21.8
270 Mesh	53	0.00	21.8
400 Mesh	38	0.00	21.8
TOTAL		100.00	**

K80 =2360µm

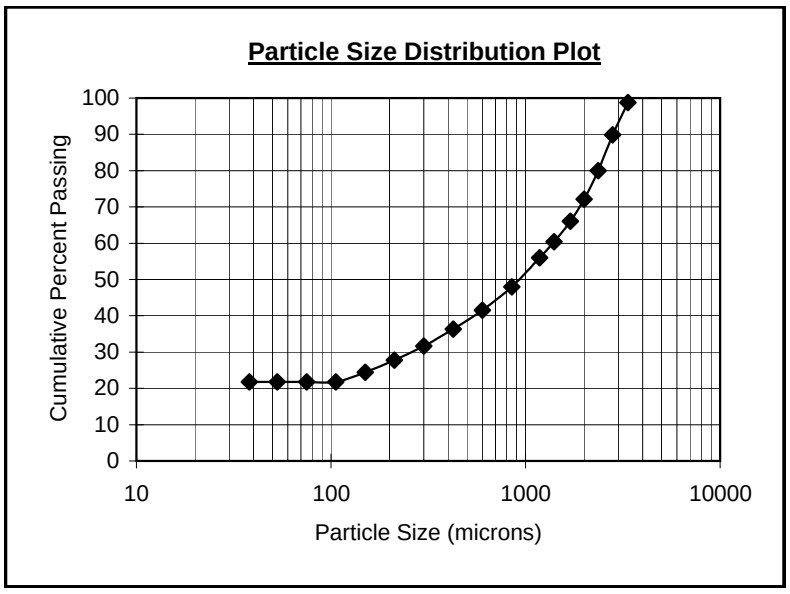


TABLE III-2D
BOND SCREEN ANALYSIS
KM1878 Composite 2 - Feed 3

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
6 Mesh	3360	0.69	99.3
7 Mesh	2800	8.23	91.1
8 Mesh	2360	8.50	82.6
9 Mesh	2000	7.91	74.7
10 Mesh	1700	6.08	68.6
12 Mesh	1400	6.17	62.4
14 Mesh	1180	4.84	57.6
20 Mesh	850	8.04	49.5
28 Mesh	600	6.99	42.6
35 Mesh	425	5.53	37.0
48 Mesh	300	4.80	32.2
65 Mesh	212	4.20	28.0
100 Mesh	150	3.52	24.5
150 Mesh	106	2.70	21.8
200 Mesh	75	0.00	21.8
270 Mesh	53	0.00	21.8
400 Mesh	38	0.00	21.8
TOTAL		100.00	**

K80 =2240µm

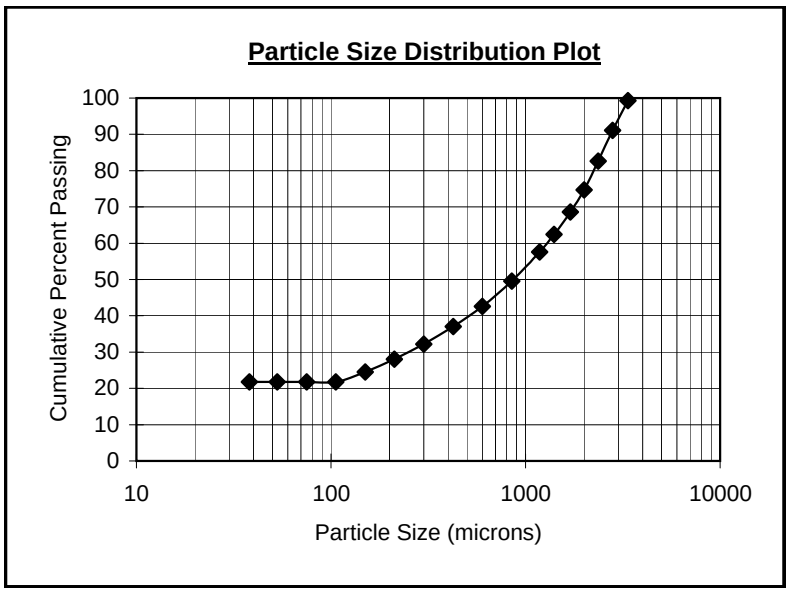


TABLE III-2E
BOND SCREEN ANALYSIS
KM1878 Composite 2 - Feed 1,3 Average

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
6 Mesh	3360	0.74	99.3
7 Mesh	2800	7.92	91.3
8 Mesh	2360	8.92	82.4
9 Mesh	2000	7.51	74.9
10 Mesh	1700	6.04	68.9
12 Mesh	1400	6.04	62.8
14 Mesh	1180	4.84	58.0
20 Mesh	850	8.04	50.0
28 Mesh	600	6.94	43.0
35 Mesh	425	5.63	37.4
48 Mesh	300	4.87	32.5
65 Mesh	212	4.27	28.2
100 Mesh	150	3.58	24.7
150 Mesh	106	2.77	21.9
200 Mesh	75	0.00	21.9
270 Mesh	53	0.00	21.9
400 Mesh	38	0.00	21.9
TOTAL		100.00	**

K80 =2241µm

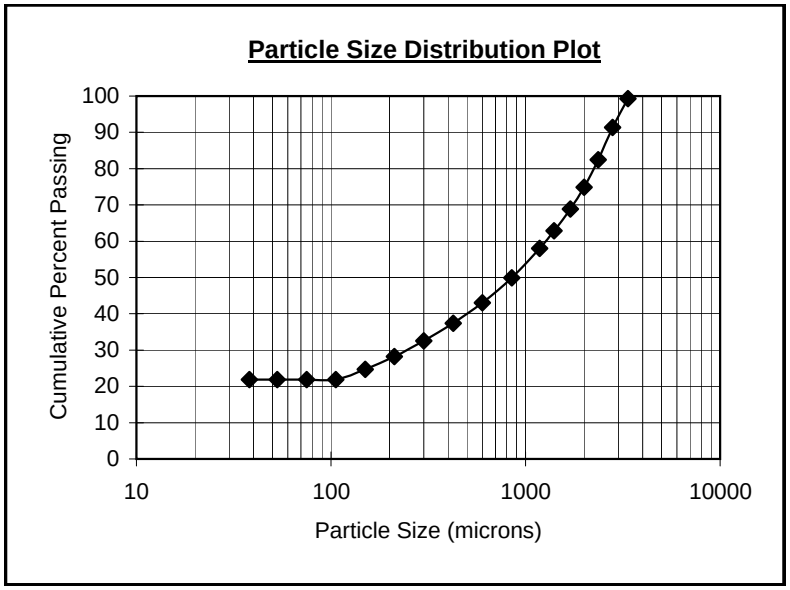


TABLE III-2F
BOND SCREEN ANALYSIS
KM1878 Composite 2 - Cycle 6 Undersize

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
150 Mesh	106	0.00	100.0
170 Mesh	90	16.79	83.2
200 Mesh	75	7.30	75.9
270 Mesh	53	13.58	62.3
325 Mesh	45	5.55	56.8
400 Mesh	38	2.92	53.9
TOTAL		100.00	**

K80 =83µm

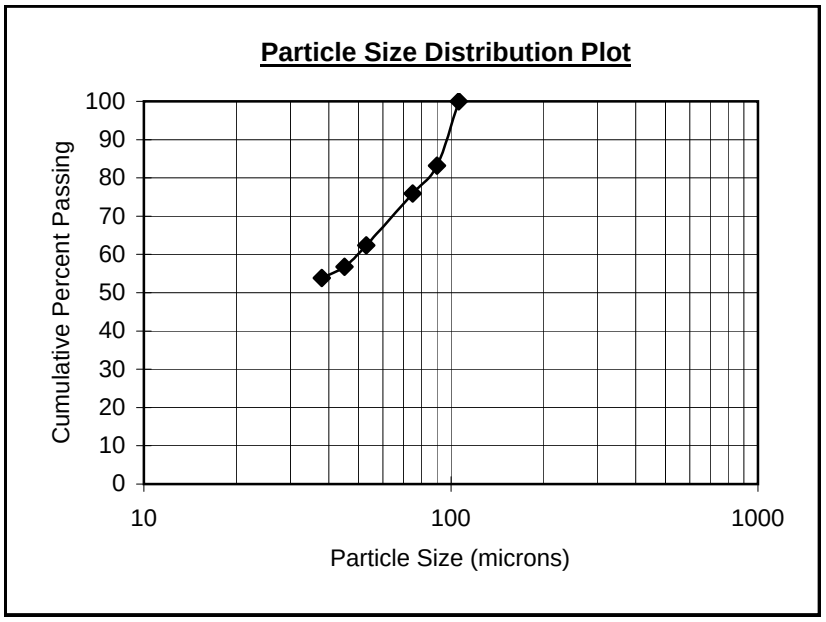


TABLE III-3
SCREEN ANALYSIS
KM1878 Composite 1 - 4 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
35 Mesh	425	0.00	100.0
48 Mesh	300	5.74	94.3
65 Mesh	212	16.72	77.5
100 Mesh	150	14.54	63.0
150 Mesh	106	10.19	52.8
200 Mesh	75	8.41	44.4
270 Mesh	53	7.42	37.0
400 Mesh	38	5.24	31.8
TOTAL		100.00	**

K80 =224µm

Note: 4 min. grind calibration using 1 kg. Ore, 750 ml water and 20 kg. of mild steel rods in mill: M5

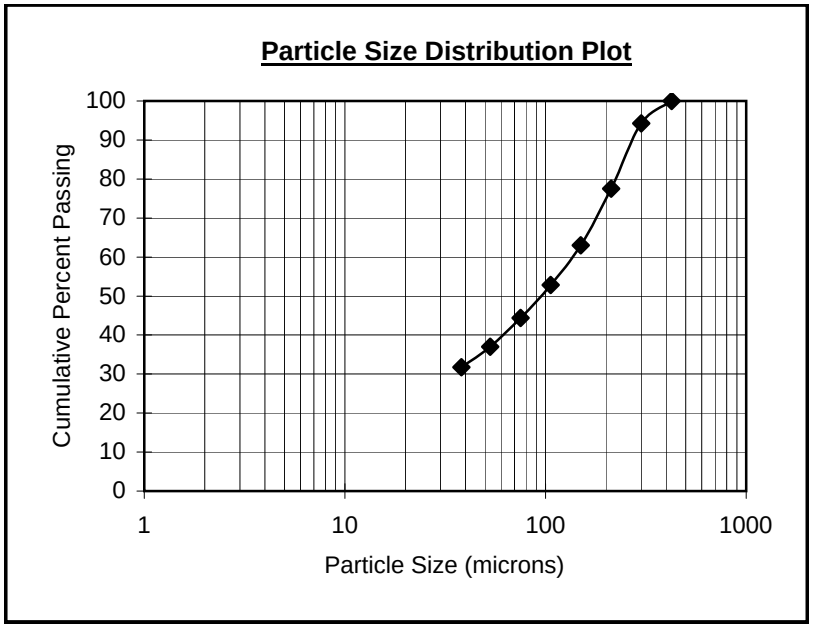


TABLE III-4
SCREEN ANALYSIS
KM1878 Composite 1 - 5 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
35 Mesh	425	0.00	100.0
48 Mesh	300	0.10	99.9
65 Mesh	212	5.30	94.6
100 Mesh	150	15.40	79.2
150 Mesh	106	15.70	63.5
200 Mesh	75	11.10	52.4
270 Mesh	53	9.70	42.7
400 Mesh	38	7.00	35.7
TOTAL		100.00	**

K80 =153µm

Note: 5 min. grind calibration using 1 kg. Ore, 750 ml water and 20 kg. of mild steel rods in mill: M5

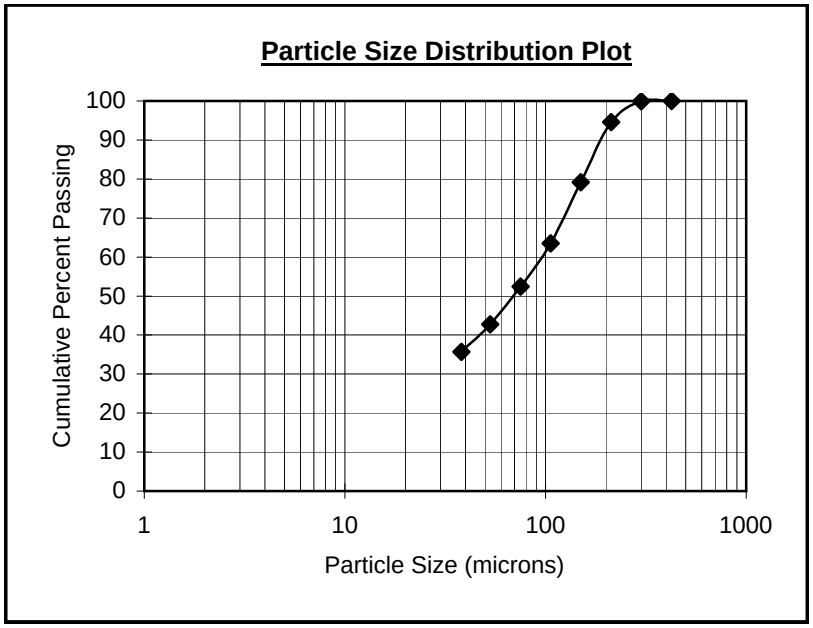


TABLE III-5
SCREEN ANALYSIS
KM1878 Composite 2 - 3 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
35 Mesh	425	0.00	100.0
48 Mesh	300	4.00	96.0
65 Mesh	212	16.25	79.8
100 Mesh	150	13.88	65.9
150 Mesh	106	10.88	55.0
200 Mesh	75	7.63	47.4
270 Mesh	53	7.50	39.9
400 Mesh	38	5.13	34.8
TOTAL		100.00	**

K80 =213µm

Note: 3 min. grind calibration using 1 kg. Ore, 750 ml water and 20 kg. of mild steel rods in mill: M5

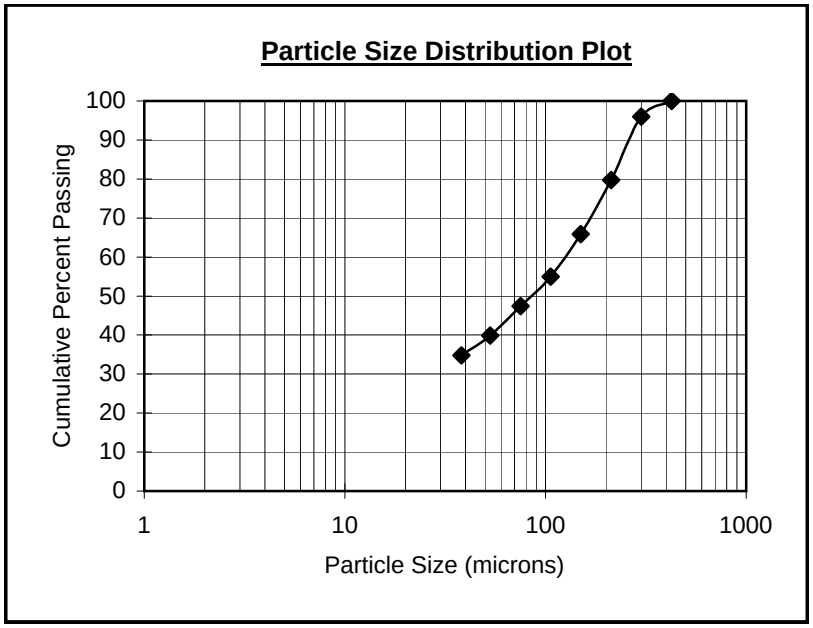


TABLE III-6
SCREEN ANALYSIS
KM1878 Composite 2 - 5 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
48 Mesh	300	0.00	100.0
65 Mesh	212	0.10	99.9
100 Mesh	150	5.40	94.5
150 Mesh	106	14.30	80.2
200 Mesh	75	16.40	63.8
270 Mesh	53	12.70	51.1
400 Mesh	38	10.00	41.1
TOTAL		100.00	**

K80 =106µm

Note: 5 min. grind calibration using 1 kg. Ore, 750 ml water and 20 kg. of mild steel rods in mill: M5

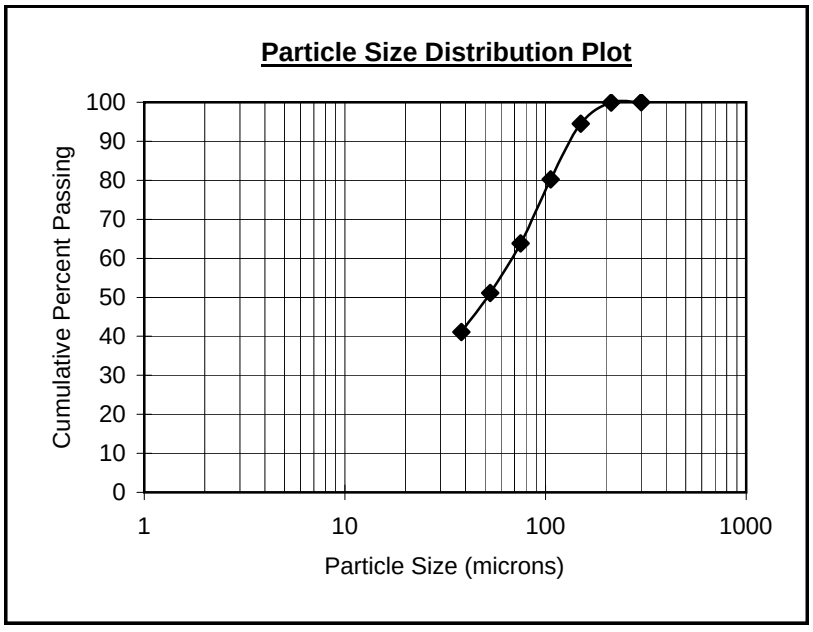


TABLE III-7
SCREEN ANALYSIS
KM1878 Composite 2 - 7 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
65 Mesh	212	0.00	100.0
100 Mesh	150	0.10	99.9
150 Mesh	106	5.10	94.8
200 Mesh	75	12.80	82.0
270 Mesh	53	18.30	63.7
400 Mesh	38	13.50	50.2
TOTAL		100.00	**

K80 =72µm

Note: 5 min. grind calibration using 1 kg. Ore, 750 ml water and 20 kg. of mild steel rods in mill: M5

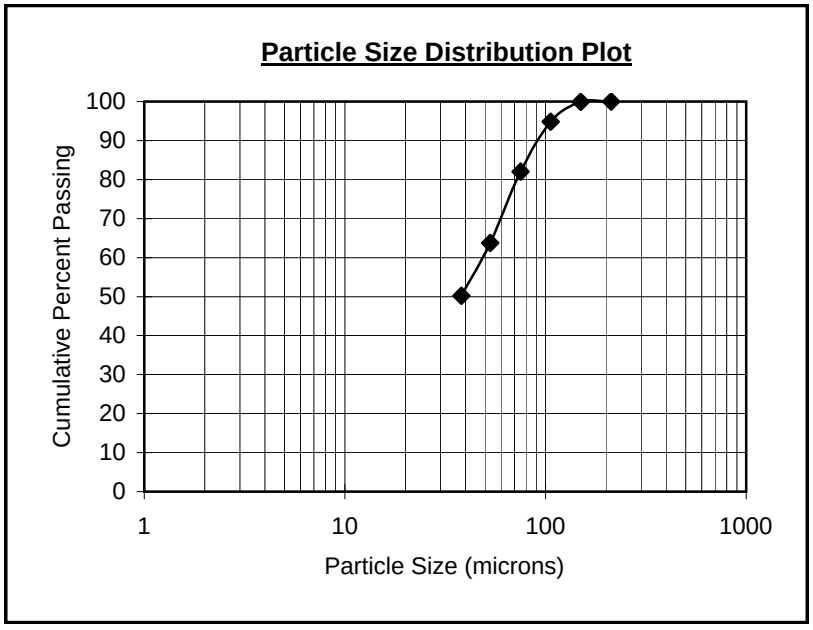


TABLE III-8
SCREEN ANALYSIS
KM1878-07 Cyanide Tail

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
48 Mesh	300	0.00	100.0
65 Mesh	212	0.50	99.5
100 Mesh	150	5.13	94.4
150 Mesh	106	12.38	82.0
200 Mesh	75	12.00	70.0
270 Mesh	53	11.88	58.1
400 Mesh	38	9.38	48.8
TOTAL		100.00	**

K80 =100µm

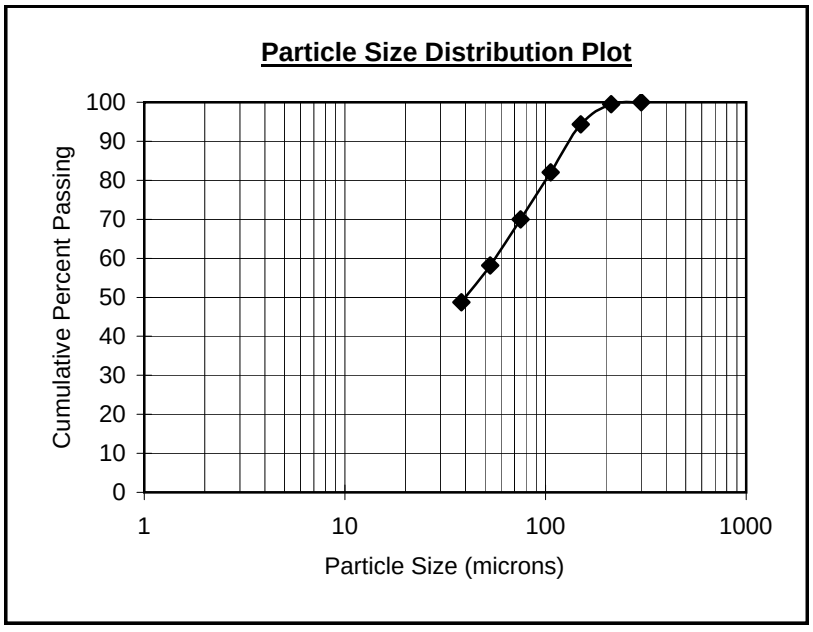
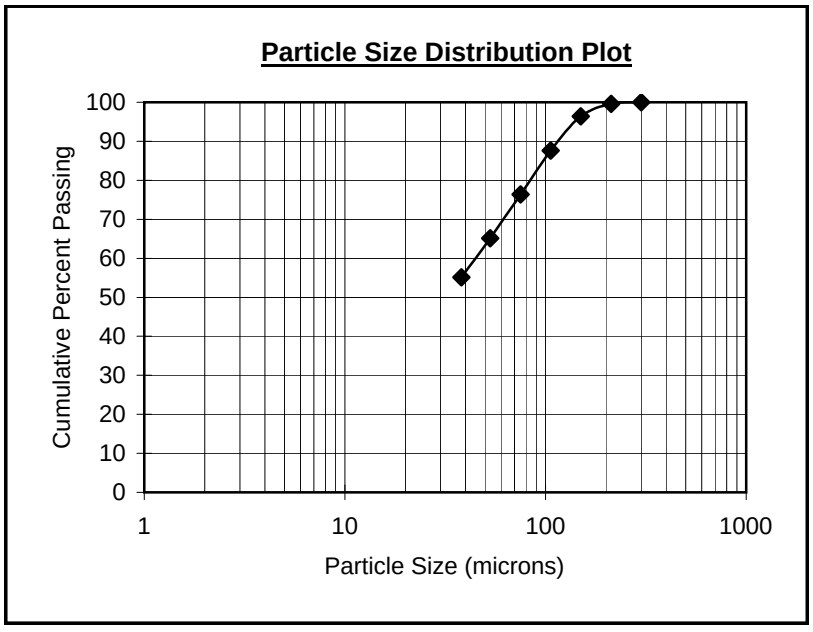


TABLE III-9
SCREEN ANALYSIS
KM1878-08 Cyanide Tail

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
48 Mesh	300	0.00	100.0
65 Mesh	212	0.38	99.6
100 Mesh	150	3.25	96.4
150 Mesh	106	8.75	87.6
200 Mesh	75	11.25	76.4
270 Mesh	53	11.25	65.1
400 Mesh	38	10.00	55.1
TOTAL		100.00	**

K80 =84µm



MASTERSIZER 2000

Result Analysis Report

Sample Name:
Flotation Feed - Average

SOP Name:

Measured:
Friday, October 13, 2006 8:46:11 AM

Sample Source & type:
Factory = Yellowjacket

Measured by:
Justin

Analysed:
Friday, October 13, 2006 8:46:12 AM

Sample bulk lot ref:
KM1878-09

Result Source:
Averaged

Particle Name:
Iron

Accessory Name:
Hydro 2000MU (A)

Analysis model:
General purpose

Sensitivity:
Normal

Particle RI:
2.860

Absorption:
1

Size range:
0.100 to 1000.000 um

Obscuration:
24.59 %

Dispersant Name:
Water

Dispersant RI:
1.330

Weighted Residual:
0.258 %

Result Emulation:
Off

Concentration:
0.0205 %Vol

Span :
4.388

Uniformity:
1.41

Result units:
Volume

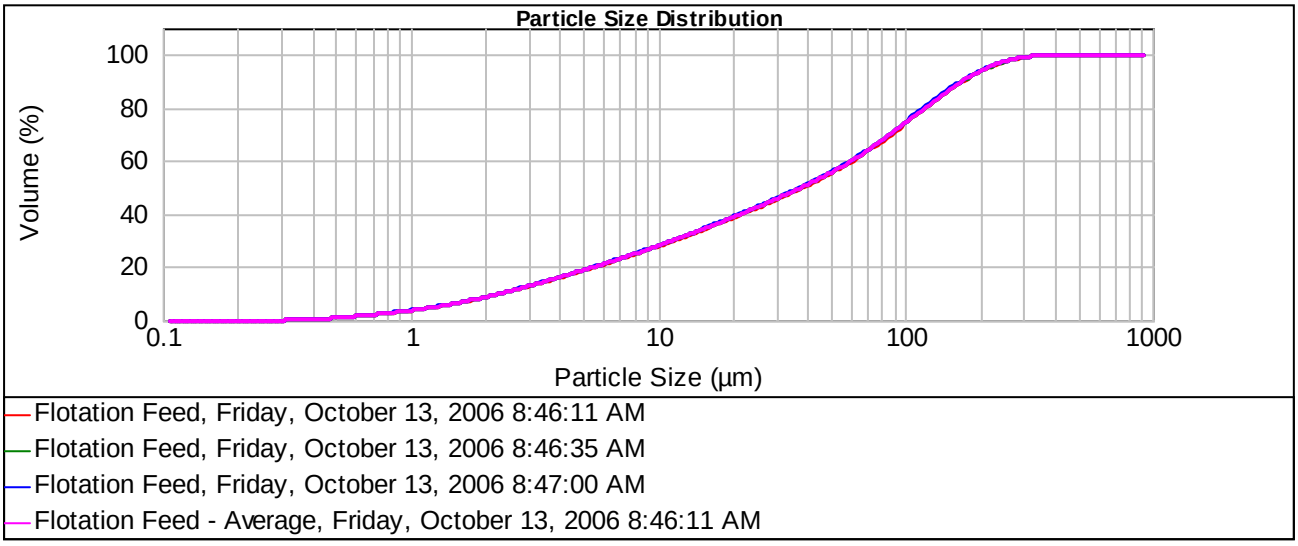
Specific Surface Area:
0.957 m²/g

Surface Weighted Mean D[3,2]:
6.267 um

Vol. Weighted Mean D[4,3]:
65.148 um

---

d(0.1): 2.275 um **d(0.5):** 38.022 um **d(0.8):** 119.634 um **d(0.9):** 169.113 um



Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %
0.010	0.00	0.105	0.00	1.096	0.84	11.482	2.07	120.226	4.23	1258.925	0.00
0.011	0.00	0.120	0.00	1.259	0.95	13.183	2.13	138.038	3.92	1445.440	0.00
0.013	0.00	0.138	0.00	1.445	1.08	15.136	2.19	158.489	3.46	1659.587	0.00
0.015	0.00	0.158	0.00	1.660	1.20	17.378	2.25	181.970	2.86	1905.461	0.00
0.017	0.00	0.182	0.00	1.905	1.32	19.953	2.30	208.930	2.22	2187.762	0.00
0.020	0.00	0.209	0.00	2.188	1.41	22.909	2.36	239.883	1.57	2511.886	0.00
0.023	0.00	0.240	0.00	2.512	1.48	26.303	2.42	275.423	0.98	2884.032	0.00
0.026	0.00	0.275	0.02	2.884	1.54	30.200	2.50	316.228	0.56	3311.311	0.00
0.030	0.00	0.316	0.15	3.311	1.58	34.674	2.62	363.078	0.05	3801.894	0.00
0.035	0.00	0.363	0.26	3.802	1.62	39.811	2.78	416.869	0.00	4365.158	0.00
0.040	0.00	0.417	0.35	4.365	1.66	45.709	2.99	478.630	0.00	5011.872	0.00
0.046	0.00	0.479	0.42	5.012	1.71	52.481	3.25	549.541	0.00	5754.399	0.00
0.052	0.00	0.550	0.48	5.754	1.77	60.256	3.56	630.957	0.00	6606.934	0.00
0.060	0.00	0.631	0.54	6.607	1.83	69.183	3.87	724.436	0.00	7585.776	0.00
0.069	0.00	0.724	0.60	7.586	1.89	79.433	4.14	831.764	0.00	8709.636	0.00
0.079	0.00	0.832	0.66	8.710	1.95	91.201	4.32	954.993	0.00	10000.000	
0.091	0.00	0.955	0.74	10.000	2.01	104.713	4.36	1096.478	0.00		
0.105	0.00	1.096		11.482		120.226		1258.925	0.00		

Operator notes:

MASTERSIZER 2000

Result Analysis Report

Sample Name:
Flotation Feed Replicate - Average

SOP Name:

Measured:
Friday, October 13, 2006 8:52:55 AM

Sample Source & type:
Factory = Yellowjacket

Measured by:
Justin

Analysed:
Friday, October 13, 2006 8:52:56 AM

Sample bulk lot ref:
KM1878-09

Result Source:
Averaged

Particle Name:
Iron

Accessory Name:
Hydro 2000MU (A)

Analysis model:
General purpose

Sensitivity:
Normal

Particle RI:
2.860

Absorption:
1

Size range:
0.100 to 1000.000 um

Obscuration:
18.12 %

Dispersant Name:
Water

Dispersant RI:
1.330

Weighted Residual:
0.257 %

Result Emulation:
Off

Concentration:
0.0142 %Vol

Span :
4.610

Uniformity:
1.47

Result units:
Volume

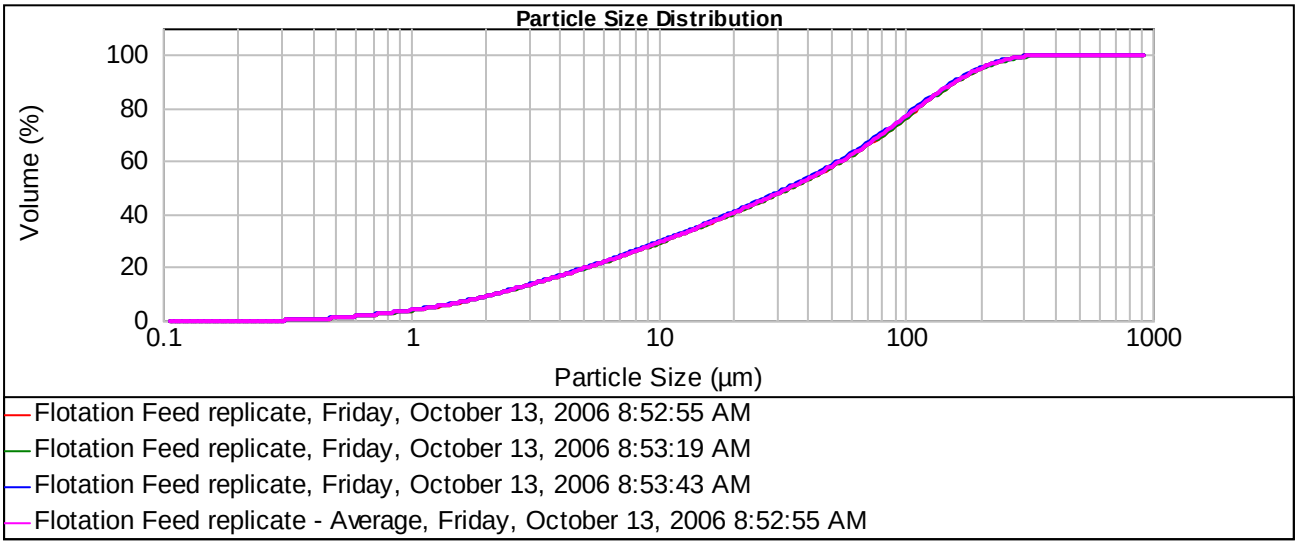
Specific Surface Area:
0.982 m²/g

Surface Weighted Mean D[3,2]:
6.112 um

Vol. Weighted Mean D[4,3]:
61.011 um

---

d(0.1): 2.226 um **d(0.5):** 34.246 um **d(0.8):** 112.188 um **d(0.9):** 160.102 um



Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %
0.010	0.00	0.105	0.00	1.096	0.85	11.482	2.16	120.226	4.01	1258.925	0.00
0.011	0.00	0.120	0.00	1.259	0.98	13.183	2.22	138.038	3.66	1445.440	0.00
0.013	0.00	0.138	0.00	1.445	1.11	15.136	2.28	158.489	3.17	1659.587	0.00
0.015	0.00	0.158	0.00	1.660	1.25	17.378	2.34	181.970	2.58	1905.461	0.00
0.017	0.00	0.182	0.00	1.905	1.37	19.953	2.40	208.930	1.96	2187.762	0.00
0.020	0.00	0.209	0.00	2.188	1.47	22.909	2.46	239.883	1.34	2511.886	0.00
0.023	0.00	0.240	0.00	2.512	1.55	26.303	2.53	275.423	0.82	2884.032	0.00
0.026	0.00	0.275	0.02	2.884	1.61	30.200	2.61	316.228	0.32	3311.311	0.00
0.030	0.00	0.316	0.15	3.311	1.66	34.674	2.72	363.078	0.05	3801.894	0.00
0.035	0.00	0.363	0.26	3.802	1.70	39.811	2.87	416.869	0.00	4365.158	0.00
0.040	0.00	0.417	0.35	4.365	1.74	45.709	3.07	478.630	0.00	5011.872	0.00
0.046	0.00	0.479	0.43	5.012	1.79	52.481	3.31	549.541	0.00	5754.399	0.00
0.052	0.00	0.550	0.49	5.754	1.85	60.256	3.58	630.957	0.00	6606.934	0.00
0.060	0.00	0.631	0.54	6.607	1.91	69.183	3.85	724.436	0.00	7585.776	0.00
0.069	0.00	0.724	0.60	7.586	1.98	79.433	4.07	831.764	0.00	8709.636	0.00
0.079	0.00	0.832	0.67	8.710	2.04	91.201	4.20	954.993	0.00	10000.000	
0.091	0.00	0.955	0.75	10.000	2.10	104.713	4.18	1096.478	0.00		
0.105	0.00	1.096		11.482		120.226		1258.925			

Operator notes:

MASTERSIZER 2000

Result Analysis Report

Sample Name:
Averaged Result

SOP Name:

Measured:
Friday, October 13, 2006 8:46:11 AM

Sample Source & type:
Factory = Yellowjacket

Measured by:
Justin

Analysed:
Friday, October 13, 2006 8:46:12 AM

Sample bulk lot ref:
KM1878-09

Result Source:
Averaged

Particle Name:
Iron

Accessory Name:
Hydro 2000MU (A)

Analysis model:
General purpose

Sensitivity:
Normal

Particle RI:
2.860

Absorption:
1

Size range:
0.100 to 1000.000 um

Obscuration:
21.36 %

Dispersant Name:
Water

Dispersant RI:
1.330

Weighted Residual:
0.257 %

Result Emulation:
Off

Concentration:
0.0173 %Vol

Span :
4.503

Uniformity:
1.44

Result units:
Volume

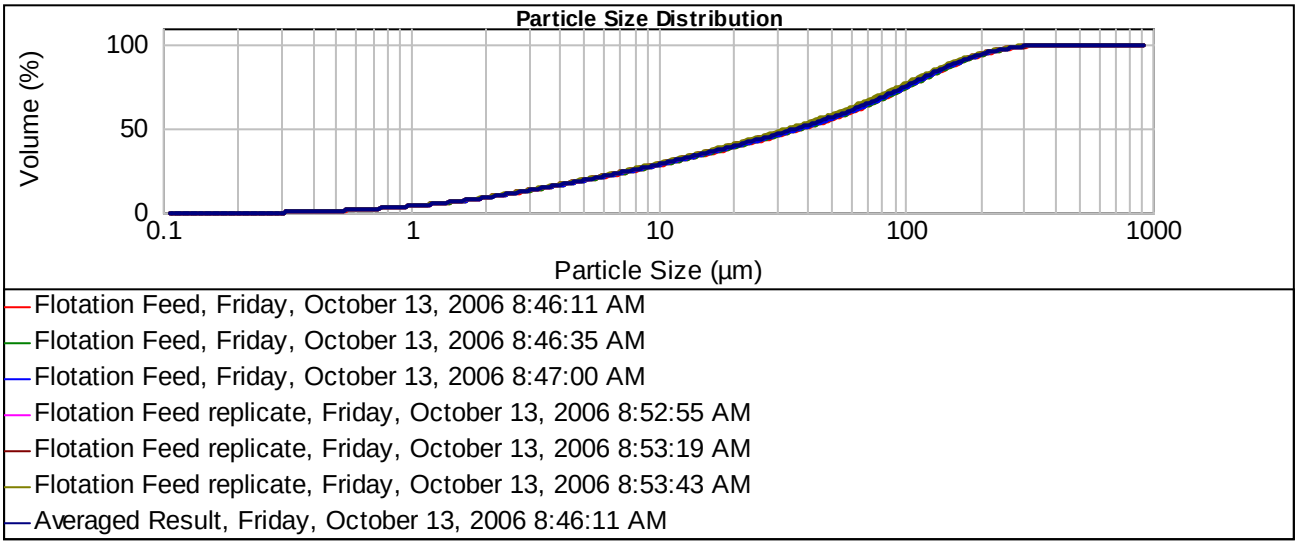
Specific Surface Area:
0.97 m²/g

Surface Weighted Mean D[3,2]:
6.188 um

Vol. Weighted Mean D[4,3]:
63.080 um

---

d(0.1): 2.250 um **d(0.5):** 36.064 um **d(0.8):** 115.923 um **d(0.9):** 164.659 um



Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %	Size (µm)	Volume In %
0.010	0.00	0.105	0.00	1.096	0.85	11.482	2.12	120.226	4.12	1258.925	0.00
0.011	0.00	0.120	0.00	1.259	0.97	13.183	2.18	138.038	3.79	1445.440	0.00
0.013	0.00	0.138	0.00	1.445	1.10	15.136	2.24	158.489	3.32	1659.587	0.00
0.015	0.00	0.158	0.00	1.660	1.23	17.378	2.29	181.970	2.72	1905.461	0.00
0.017	0.00	0.182	0.00	1.905	1.34	19.953	2.35	208.930	2.09	2187.762	0.00
0.020	0.00	0.209	0.00	2.188	1.44	22.909	2.41	239.883	1.45	2511.886	0.00
0.023	0.00	0.240	0.00	2.512	1.52	26.303	2.47	275.423	0.90	2884.032	0.00
0.026	0.00	0.275	0.02	2.884	1.57	30.200	2.56	316.228	0.43	3311.311	0.00
0.030	0.00	0.316	0.15	3.311	1.62	34.674	2.67	363.078	0.05	3801.894	0.00
0.035	0.00	0.363	0.26	3.802	1.66	39.811	2.82	416.869	0.00	4365.158	0.00
0.040	0.00	0.417	0.35	4.365	1.70	45.709	3.03	478.630	0.00	5011.872	0.00
0.046	0.00	0.479	0.42	5.012	1.75	52.481	3.28	549.541	0.00	5754.399	0.00
0.052	0.00	0.550	0.49	5.754	1.81	60.256	3.57	630.957	0.00	6606.934	0.00
0.060	0.00	0.631	0.54	6.607	1.87	69.183	3.86	724.436	0.00	7585.776	0.00
0.069	0.00	0.724	0.60	7.586	1.94	79.433	4.10	831.764	0.00	8709.636	0.00
0.079	0.00	0.832	0.66	8.710	2.00	91.201	4.26	954.993	0.00	10000.000	
0.091	0.00	0.955	0.74	10.000	2.06	104.713	4.27	1096.478	0.00		
0.105	0.00	1.096		11.482		120.226		1258.925			

Operator notes: *Average of 6 measurements from 1867.mea*

APPENDIX IV – KM1878

SPECIAL ASSAY DATA

INDEX

TABLE IV-1
REPLICATE HEAD ASSAY DATA

Sample	Assays – percent or g/tonne				
	Fe	Au	S	C	H_2O
Composite 1 Head 1	4.59	14.9	0.25	2.73	1.43
Composite 1 Head 2	4.55	8.08	0.22	2.71	1.49
Average	**4.57**	**11.5**	**0.24**	**2.72**	**1.46**
Composite 2 Head 1	4.44	0.76	0.40	2.72	1.60
Composite 2 Head 2	4.45	0.17	0.18	2.71	2.00
Composite 2 Head 3	-	0.85	-	-	-
Composite 2 Head 3	-	0.82	-	-	-
Composite 2 Head 3	-	2.09	-	-	-
Average	**4.45**	**1.14**	**0.29**	**2.72**	**1.80**

TABLE IV-2
COMPARISON OF CALCULATED VERSUS
MEASURED HEAD FOR GOLD

Test Number	Composite Number	Au Measured g/tonne	Au Calculated g/tonne
1	1	11.5	10.59
2	2	1.14	1.12
3	1	11.5	10.60
4	2	1.14	0.89
5	1	2.10	2.69
6	2	0.44	0.40
7	1	2.10	2.43
8	2	0.47	0.45
9	1	11.5	11.9
10	2	1.12	1.45
11	1	11.5	11.0
12	2	1.12	1.02
Average Comp 1	-	11.5	11.0
Average Comp 2	-	1.12	1.12

APPENDIX V – KM1878

ADIS ANALYSIS

INDEX

TABLE V-1A

AVERAGE SIZE OF THE GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-1 Knelson Concentrate Composite 1

Particles Observed	Mode of Occurrence	Average Projected Area Diameter - microns					Area % Gold
		Au	Ma	He	Goe	Gn	
1	Liberated Gold	27	-	-	-	-	100
4	Gold - Gangue Adhesion Binary	105	-	-	-	139	43
1	Gold - Gangue Adhesion Inclusion Binary	63	-	-	-	132	18

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue.
b) Projected area diameter is the diameter of a circle in mineralogical terms.

TABLE V-1B

AVERAGE COMPOSITION BY MASS OF THE GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-1 Knelson Concentrate Composite 1

Particles Observed	Mode of Occurrence	Average Mass - Percent				
		Au	Ma	He	Goe	Gn
1	Liberated Gold	100	-	-	-	-
4	Gold - Gangue Adhesion Binary	53	-	-	-	47
1	Gold - Gangue Adhesion Inclusion Binary	43	-	-	-	57

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue.
b) Mass data assumes particles are spherical in shape.

TABLE V-1C

DISTRIBUTION OF GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-1 Knelson Concentrate Composite 1

Sample	Liberated	Locked in Binary With:				MP
		Ma	He	Goe	Gn	
Test 1 Knelson Concentrate Composite 1	17	-	-	-	83	-

Notes: a) Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue, MP-Multiphase.

TABLE V-1D

DISTRIBUTION OF GOLD MASS BY CLASS OF ASSOCIATION

KM1878-1 Knelson Concentrate Composite 1

Sample	Liberated	Locked in Binary With:				MP
		Ma	He	Goe	Gn	
Test 1 Knelson Concentrate Composite 1	1	-	-	-	99	-

Notes: a) Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue, MP-Multiphase.
b) Mass data assumes particles are spherical in shape.

TABLE V-1E

SUMMARY OF ADIS ANALYSIS OF GOLD

KM1878-1 Knelson Concentrate Composite 1

Parameter	Units
Size Fraction	Unsized
Number of Slides Scanned	5
Number of Particles Scanned	0.1 x 10^6
Total Surface Area of Particles	0.2 x 10^9 μm^2
Total Surface Area of Gold	39584 μm^2
Estimated Volume of All Particles	5.6 x 10^9 μm^3
Estimated Volume of Gold Grains	2834184.4 μm^3
Number of Gold Occurrences	6
Mean Projected Diameter of Gold	85.1 µm
Measured Gold Content	1050.9 g/t

TABLE V-1F

STATUS OF GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-1 Knelson Concentrate Composite 1

Particle	Mode of Occurrence	Projected Area Diameter - microns					Area % Gold
		Au	Ma	He	Goe	Gn	
1	Gold - Gangue Adhesion Binary	94	-	-	-	170	24
2	Liberated Gold	27	-	-	-	-	100
3	Gold - Gangue Adhesion Binary	83	-	-	-	151	23
4	Gold - Gangue Adhesion Binary	136	-	-	-	149	45
5	Gold - Gangue Adhesion Inclusion Binary	63	-	-	-	132	18
6	Gold - Gangue Adhesion Binary	107	-	-	-	87	60

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue
b) Projected area diameter is the diameter of a circle in mineralogical terms.

TABLE V-1G

STATUS OF GOLD OCCURRENCES BY MASS BY CLASS OF ASSOCIATION

KM1878-1 Knelson Concentrate Composite 1

Particle	Mode of Occurrence	Mass - Percent				
		Au	Ma	He	Goe	Gn
1	Gold - Gangue Adhesion Binary	55	-	-	-	45
2	Liberated Gold	100	-	-	-	-
3	Gold - Gangue Adhesion Binary	55	-	-	-	45
4	Gold - Gangue Adhesion Binary	10	-	-	-	90
5	Gold - Gangue Adhesion Inclusion Binary	43	-	-	-	57
6	Gold - Gangue Adhesion Binary	93	-	-	-	7

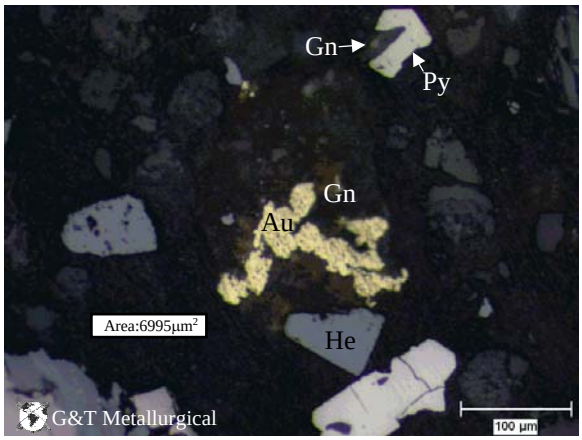
Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue.
b) Mass data assumes particles are spherical in shape.

PHOTO IMAGE V-1

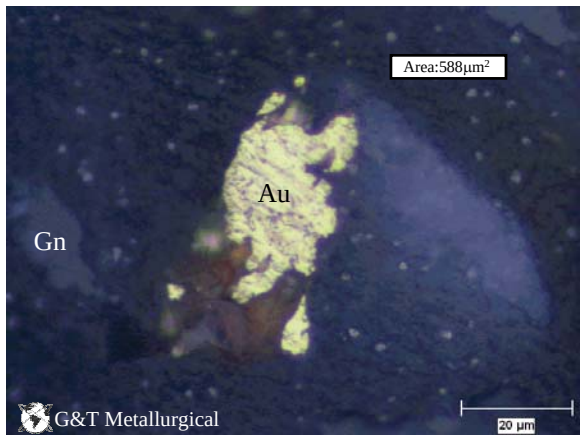
YELLOWJACKET – KNELSON CONCENTRATE COMPOSITE 1

KM1878-1

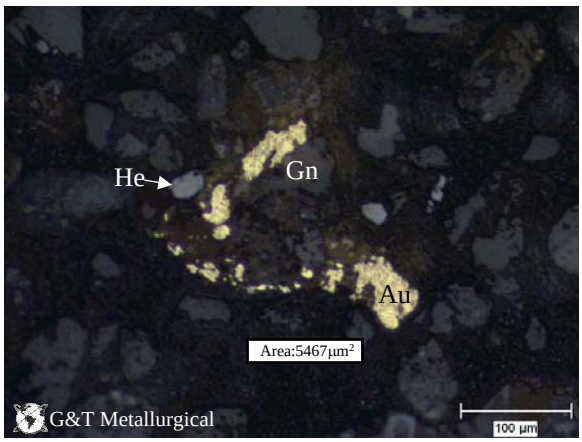
Particle 1



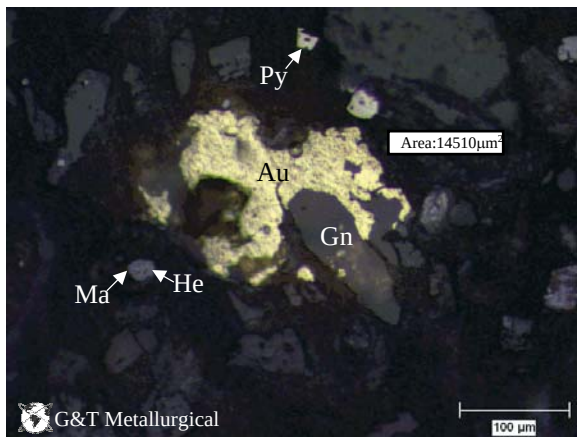
Particle 2



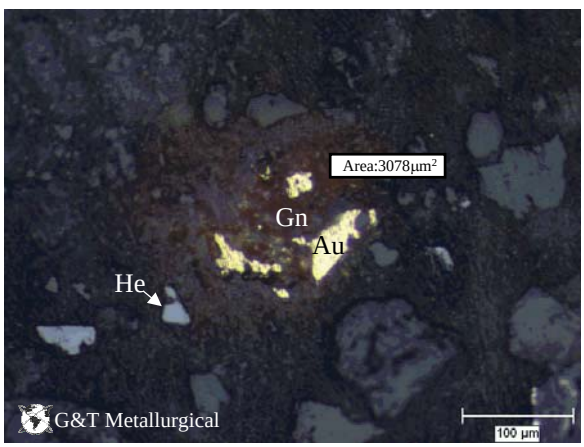
Particle 3



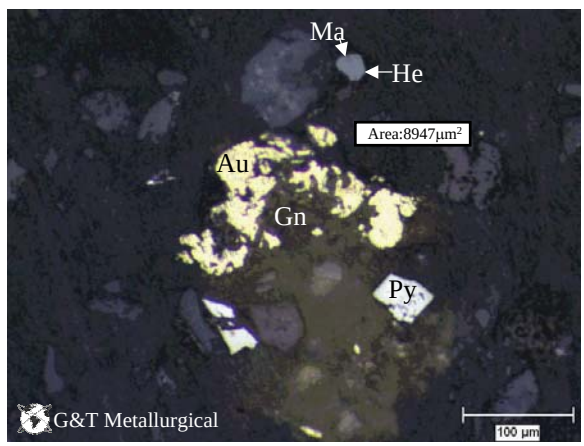
Particle 4



Particle 5



Particle 6



*Au-Gold, Py-Pyrite, Ma-Magnetite, He-Hematite, Gn-Gangue

TABLE V-2A

AVERAGE SIZE OF THE GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-1 Knelson Tailing Composite 1

Particles Observed	Mode of Occurrence	Average Projected Area Diameter - microns					Area % Gold
		Au	Ma	He	Goe	Gn	
1	Gold - Goethite Adhesion Binary	12	-	-	29	-	16
1	Gold - Hematite Adhesion Inclusion Binary	15	28	64	-	21	4

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue.
b) Projected area diameter is the diameter of a circle in mineralogical terms.

TABLE V-2B

AVERAGE COMPOSITION BY MASS OF THE GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-1 Knelson Tailing Composite 1

Particles Observed	Mode of Occurrence	Average Mass - Percent				
		Au	Ma	He	Goe	Gn
1	Gold - Goethite Adhesion Binary	26	-	-	74	-
1	Gold - Hematite Adhesion Inclusion Binary	4	8	86	-	2

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue.
b) Mass data assumes particles are spherical in shape.

TABLE V-2C

DISTRIBUTION OF GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-1 Knelson Tailing Composite 1

Sample	Liberated	Locked in Binary With:				MP
		Ma	He	Goe	Gn	
Test 1 Knelson Tailing Composite 1	-	-	50	50	-	-

Notes: a) Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue, MP-Multiphase.

TABLE V-2D

DISTRIBUTION OF GOLD MASS BY CLASS OF ASSOCIATION

KM1878-1 Knelson Tailing Composite 1

Sample	Liberated	Locked in Binary With:				MP
		Ma	He	Goe	Gn	
Test 1 Knelson Tailing Composite 1	-	-	66	34	-	-

Notes: a) Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue, MP-Multiphase.
b) Mass data assumes particles are spherical in shape.

TABLE V-2E

SUMMARY OF ADIS ANALYSIS OF GOLD

KM1878-1 Knelson Tailing Composite 1

Parameter	Units
Size Fraction	Unsized
Number of Slides Scanned	30
Number of Particles Scanned	1.4 x 10^6
Total Surface Area of Particles	2.2 x 10^9 μm^2
Total Surface Area of Gold	309.0 μm^2
Estimated Volume of All Particles	122.5 x 10^9 μm^3
Estimated Volume of Gold Grains	2936 μm^3
Number of Gold Occurrences	2
Mean Projected Diameter of Gold	13.9 µm
Measured Gold Content	2.11 g/t

TABLE V-2F

STATUS OF GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-1 Knelson Tailing Composite 1

Particle	Mode of Occurrence	Projected Area Diameter - microns					Area % Gold
		Au	Ma	He	Goe	Gn	
1	Gold - Goethite Adhesion Binary	12	-	-	29	-	16
2	Gold - Hematite Adhesion Inclusion Binary	15	28	64	-	21	4

Notes: Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue

b) Projected area diameter is the diameter of a circle in mineralogical terms.

TABLE V-2G

STATUS OF GOLD OCCURRENCES BY MASS BY CLASS OF ASSOCIATION

KM1878-1 Knelson Tailing Composite 1

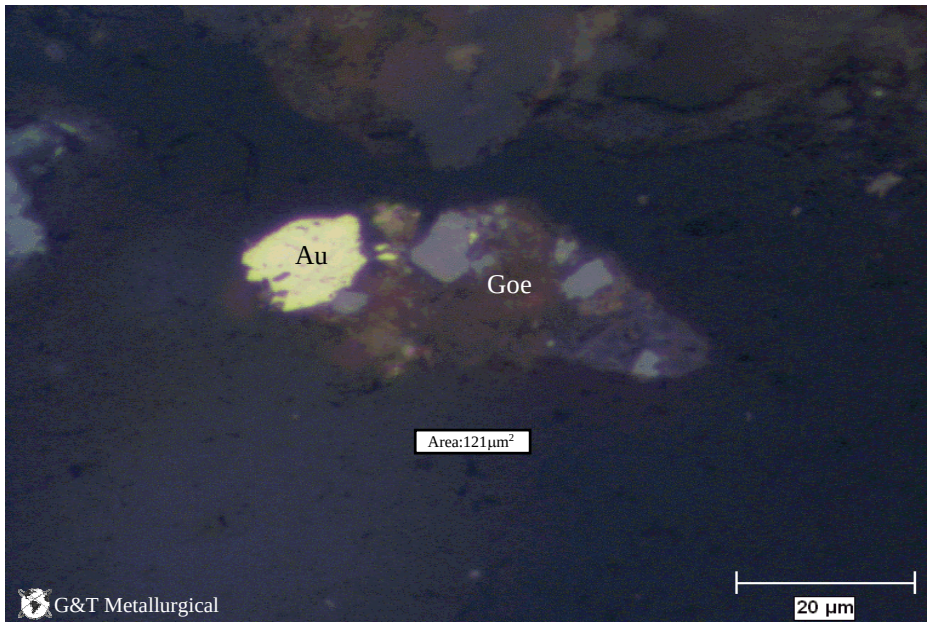
Particle	Mode of Occurrence	Mass - Percent				
		Au	Ma	He	Goe	Gn
1	Gold - Goethite Adhesion Binary	26	-	-	74	-
2	Gold - Hematite Adhesion Inclusion Binary	4	8	86	-	2

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue.

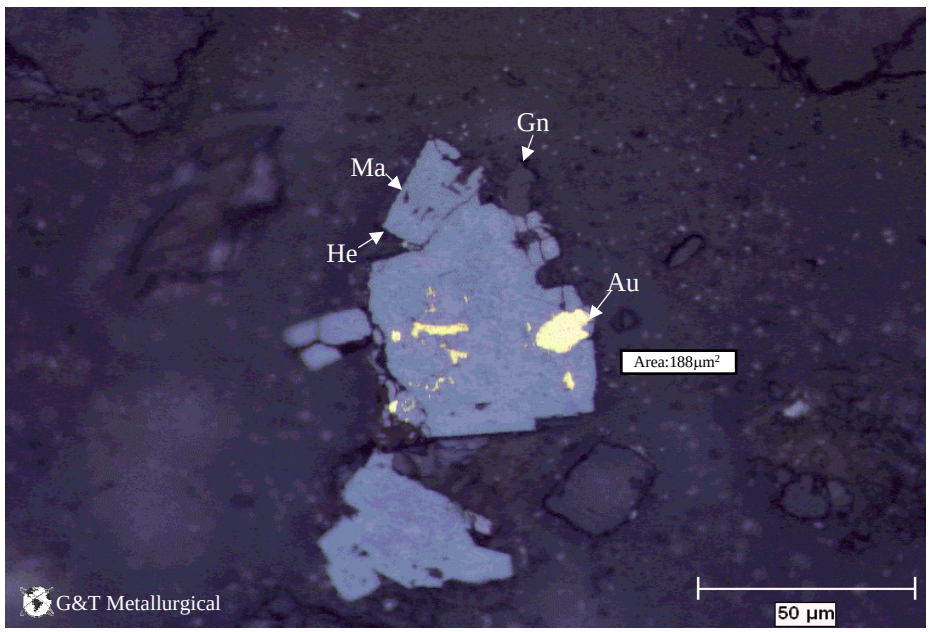
b) Mass data assumes particles are spherical in shape.

PHOTO IMAGE V-2
YELLOWJACKET- KNELSON TAILING COMPOSITE 1
KM1878-1

Particle 1



Particle 2



*Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue

TABLE V-3A

AVERAGE SIZE OF THE GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878 -2 Knelson Concentrate Composite 2

Particle	Mode of Occurrence	Projected Area Diameter - microns				Area % Gold
		Au	Py	Goe	Gn	
1	Liberated Gold	9	-	-	-	100
1	Gold - Gangue Adhesion Binary	310	-	-	77	94
1	Gold - Adhesion Multiphase	18	50	105	-	2

Notes: a) Au-Gold, Py-Pyrite, Goe-Goethite, Gn-Gangue

b) Projected area diameter is the diameter of a circle in mineralogical terms.

TABLE V-3B

AVERAGE COMPOSITION BY MASS OF THE GOLD OCCURRENCES

BY CLASS OF ASSOCIATION

KM1878 -2 Knelson Concentrate Composite 2

Particles Observed	Mode of Occurrence	Average Mass - Percent			
		Au	Py	Goe	Gn
1	Liberated Gold	100	-	-	-
1	Gold - Gangue Adhesion Binary	100	-	-	<1
1	Gold - Adhesion Multiphase	2	11	87	-

Notes: a) Au-Gold, Py-Pyrite, Goe-Goethite, Gn-Gangue.

b) Mass data assumes particles are spherical in shape.

TABLE V-3C

DISTRIBUTION OF GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878 -2 Knelson Concentrate Composite 2

Sample	Liberated	Locked in Binary With:			MP
		Py	Goe	Gn	
Test 2 Knelson Concentrate Composite 2	33	-	-	34	33

Notes: a) Py-Pyrite, Goe-Goethite, Gn-Gangue, MP-Multiphase.

TABLE V-3D

DISTRIBUTION OF GOLD MASS BY CLASS OF ASSOCIATION

KM1878 -2 Knelson Concentrate Composite 2

Sample	Liberated	Locked in Binary With:			MP
		Py	Goe	Gn	
Test 2 Knelson Concentrate Composite 2	<1	-	-	100	<1

Notes: a) Py-Pyrite, Goe-Goethite, Gn-Gangue, MP-Multiphase.

b) Mass data assumes particles are spherical in shape.

TABLE V-3E

SUMMARY OF ADIS ANALYSIS OF GOLD

KM1878 -2 Knelson Concentrate Composite 2

Parameter	Units
Size Fraction	Unsized
Number of Slides Scanned	5
Number of Particles Scanned	0.1 x 10^6
Total Surface Area of Particles	0.1 x 10^9 µm^2
Total Surface Area of Gold	75791 µm^2
Estimated Volume of All Particles	4.93 x 10^9 µm^3
Estimated Volume of Gold Grains	15595237 µm^3
Number of Gold Occurrences	3
Mean Projected Diameter of Gold	112.5 µm
Measured Gold Content	98.7 g/t

TABLE V-3F

STATUS OF GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878 -2 Knelson Concentrate Composite 2

Particle	Mode of Occurrence	Projected Area Diameter - microns				Area % Gold
		Au	Py	Goe	Gn	
1	Liberated Gold	9	-	-	-	100
2	Gold - Adhesion Multiphase	18	50	105	-	2
3	Gold - Gangue Adhesion Binary	310	-	-	77	94

Notes: a) Au-Gold, Py-Pyrite, Goe-Goethite, Gn-Gangue

b) Projected area diameter is the diameter of a circle in mineralogical terms.

TABLE V-3G

STATUS OF GOLD OCCURRENCES BY MASS BY CLASS OF ASSOCIATION

KM1878 -2 Knelson Concentrate Composite 2

Particle	Mode of Occurrence	Mass - Percent			
		Au	Py	Goe	Gn
1	Liberated Gold	100	-	-	
2	Gold - Adhesion Multiphase	2	11	87	
3	Gold - Gangue Adhesion Binary	100	-	-	<1

Notes: a) Au-Gold, Py-Pyrite, Goe-Goethite, Gn-Gangue

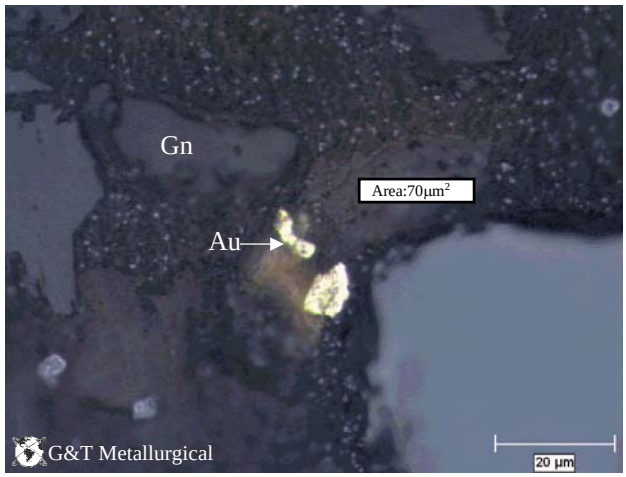
b) Mass data assumes particles are spherical in shape.

PHOTO IMAGE V- 3

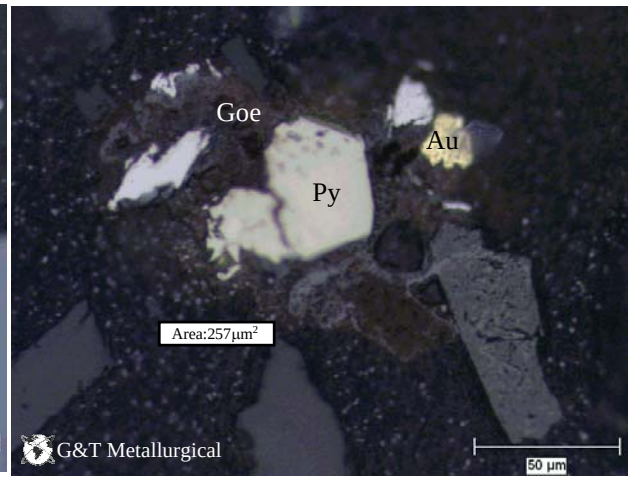
YELLOWJACKET –KNELSON CONCENTRATE COMPOSITE 2

KM1878-2

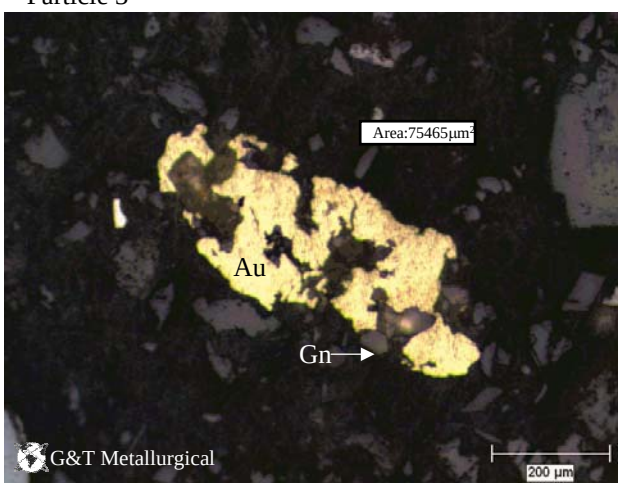
Particle 1



Particle 2



Particle 3



*Au-Gold, Goe-Goethite, Py-Pyrite, Gn-Gangue

TABLE V-4A

AVERAGE SIZE OF THE GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-2 Knelson Tailing Composite 2

Particles Observed	Mode of Occurrence	Average Projected Area Diameter - microns					Area % Gold
		Au	Ma	He	Goe	Gn	
3	Liberated Gold	9	-	-	-	-	100

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue.
b) Projected area diameter is the diameter of a circle in mineralogical terms.

TABLE V-4B

AVERAGE COMPOSITION BY MASS OF THE GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-2 Knelson Tailing Composite 2

Particles Observed	Mode of Occurrence	Average Mass - Percent				
		Au	Ma	He	Goe	Gn
3	Liberated Gold	100	-	-	-	-

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue.
b) Mass data assumes particles are spherical in shape.

TABLE V-4C

DISTRIBUTION OF GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-2 Knelson Tailing Composite 2

Sample	Liberated	Locked in Binary With:				MP
		Ma	He	Goe	Gn	
Test 2 Knelson Tailing Composite 2	100	-	-	-	-	-

Notes: a) Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue, MP-Multiphase.

TABLE V-4D

DISTRIBUTION OF GOLD MASS BY CLASS OF ASSOCIATION

KM1878-2 Knelson Tailing Composite 2

Sample	Liberated	Locked in Binary With:				MP
		Ma	He	Goe	Gn	
Test 2 Knelson Tailing Composite 2	100	-	-	-	-	-

Notes: a) Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue, MP-Multiphase.
b) Mass data assumes particles are spherical in shape.

TABLE V-4E

SUMMARY OF ADIS ANALYSIS OF GOLD

KM1878-2 Knelson Tailing Composite 2

Parameter	Units
Size Fraction	Unsized
Number of Slides Scanned	60
Number of Particles Scanned	2.1 x 10^6
Total Surface Area of Particles	3.9 x 10^9 μm^2
Total Surface Area of Gold	205.5 μm^2
Estimated Volume of All Particles	191.1 x 10^9 μm^3
Estimated Volume of Gold Grains	1786 μm^3
Number of Gold Occurrences	3
Mean Projected Diameter of Gold	9.97 µm
Measured Gold Content	0.36 g/t

TABLE V-4F

STATUS OF GOLD OCCURRENCES BY CLASS OF ASSOCIATION

KM1878-2 Knelson Tailing Composite 2

Particle	Mode of Occurrence	Projected Area Diameter - microns					Area % Gold
		Au	Ma	He	Goe	Gn	
1	Liberated Gold	7	-	-	-	-	100
2	Liberated Gold	10	-	-	-	-	100
3	Liberated Gold	10	-	-	-	-	100

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue

b) Projected area diameter is the diameter of a circle in mineralogical terms.

TABLE V-4G

STATUS OF GOLD OCCURRENCES BY MASS BY CLASS OF ASSOCIATION

KM1878-2 Knelson Tailing Composite 2

Particle	Mode of Occurrence	Mass - Percent				
		Au	Ma	He	Goe	Gn
1	Liberated Gold	100	-	-	-	-
2	Liberated Gold	100	-	-	-	-
3	Liberated Gold	100	-	-	-	-

Notes: a) Au-Gold, Ma-Magnetite, He-Hematite, Goe-Goethite, Gn-Gangue.

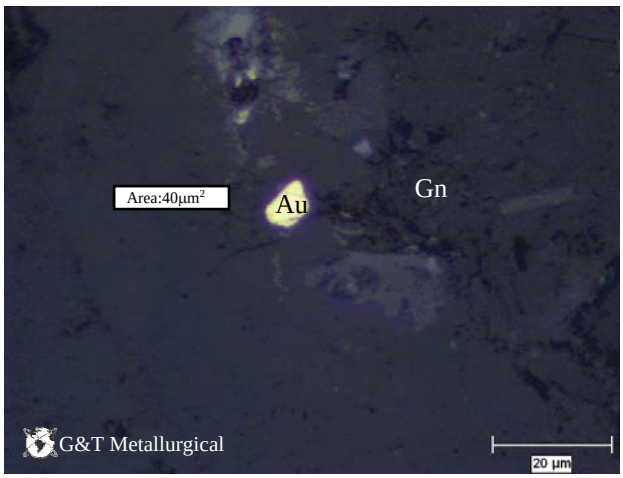
b) Mass data assumes particles are spherical in shape.

PHOTO IMAGE V-4

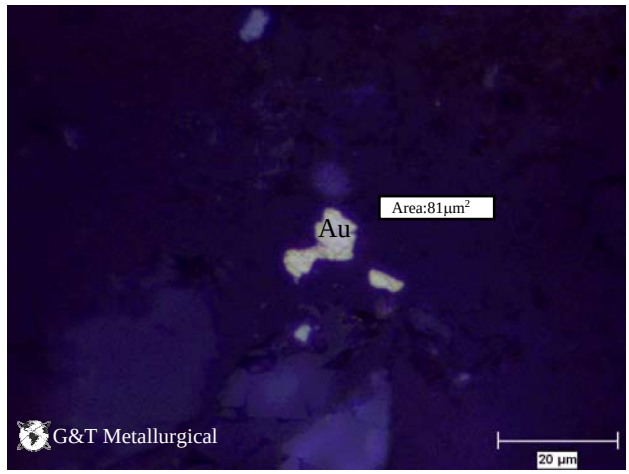
YELLOWJACKET –KNELSON TAILINGS COMPOSITE 2

KM1878-2

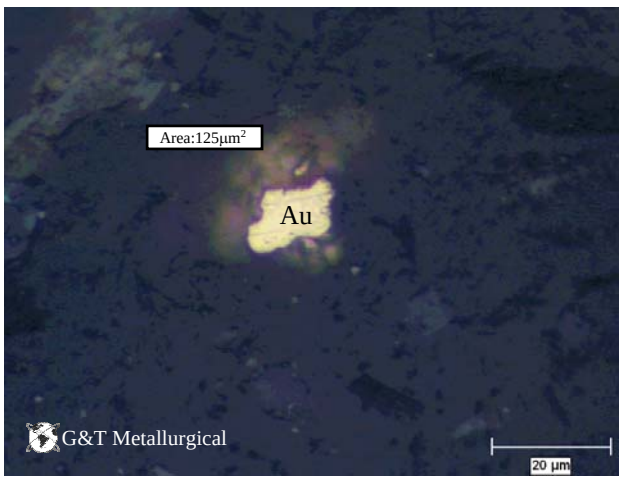
Particle 1



Particle 2



Particle 3



*Au-Gold, Gn-Gangue