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From .....

04/22/88  
Date .....  
METTEST  
Ref. ....

Subject .....  
CYANIDATION TESTWORK ON POLISHING POND COMPOSITE SAMPLES

### Summary

Drill core samples of material from the polishing pond were received for evaluation as a feed material to the Tailings Retreatment Plant. Standard cyanidation testwork was conducted to provide gold recovery estimates for plant operation. Average recovery of the samples ranged from 24.51 % Au to 30.05 % Au. Average recovery for Test hole #1 was 30.05 % Au with a calculated headgrade of 0.114 oz/ton Au; Test hole #2 26.53 % Au with a calculated headgrade of 0.113 oz/ton Au; Test hole #4 29.91 % Au with a calculated headgrade of 0.098 oz/ton Au; Test hole #5 28.59 % Au with a calculated headgrade of 0.104 oz/ton Au; Test hole #9 27.50 % Au with a calculated headgrade of 0.104 oz/ton Au; Test hole #10 24.51 % Au with a calculated headgrade of 0.104 oz/ton Au. The average reagent consumption for all the tests was as follows: 2.67 lb/ton NaCN and 2.32 lb/ton CaO. The results of this testwork are slightly lower than previous tailings testwork. Further testwork will be conducted on the drill core samples to investigate possible methods of improving recovery.

### Purpose

To determine the cyanidation recovery of drill core samples from the polishing pond.

\*NOTE: NOT ALL SAMPLES INCLUDED IN COMPOSITE  
BOTTOM CLAY/MUSKEG HOLES WERE NOT INCLUDED

### Procedure

A total of 11 drill core samples were received for this testwork. Six holes are analyzed in this report. The number of samples from each hole ranged from 14 to 21.\* These samples were combined and rolled. Duplicate 200 g samples were taken from each of the composite samples for cyanidation testwork. The 200 g sample was placed in a Winchester acid bottle and pulped with tap water to 33 % solids. Lime (CaO) and cyanide (NaCN) were added to raise the pH to 10.0 and give an initial free cyanide strength of 2.0 lb/ton. The sample was then placed on the rolls for one hour. A sample was then withdrawn to check pH and NaCN levels. CaO and NaCN were added to restore pH to 10.0 and to give a free cyanide strength of 1.0 lb/ton. The sample was rolled for a further 5 hours. Again, a sample was withdrawn to check pH, NaCN levels and for Au assays. Reagents were added as after the first hour. The sample was rolled for another 18 hours. A sample was withdrawn to check pH, NaCN levels and for Au assays. Reagents were added as after the first hour. The samples were rolled for a final 24 hours for a total of 48 hours leaching. The samples were then filtered to separate the pregnant solutions. The filter cakes were then washed with 500 mL tap water and a separate wash sample was obtained. Both solution samples and the solid residue were assayed for Au. The NaCN strength and pH were also determined for each pregnant solution. The Winchester acid bottles were rolled uncapped for the entire 48 hour test.

## Results

Test and assay results are attached. Duplicate tests from each composite hole sample were run to verify the test results. A summary of the tests can be found in Figure 1.

## Conclusions

1. Test hole #1 obtained an average recovery of 30.05 % Au with a calculated head grade of 0.114 oz/ton Au. Reagent consumptions were calculated at 2.43 lb/ton NaCN and 3.75 lb/ton CaO.
2. Test hole #2 obtained an average recovery of 26.53 % Au with a calculated head grade of 0.113 oz/ton Au. Reagent consumptions were calculated at 3.83 lb/ton NaCN and 2.25 lb/ton CaO.
3. Test hole #4 obtained an average recovery of 29.91 % Au with a calculated head grade of 0.098 oz/ton Au. Reagent consumptions were calculated at 2.55 lb/ton NaCN and 2.0 lb/ton CaO.
4. Test hole #5 obtained an average recovery of 28.59 % Au with a calculated head grade of 0.104 oz/ton Au. Reagent consumptions were calculated at 2.35 lb/ton NaCN and 1.25 lb/ton CaO.
5. Test hole #9 obtained an average recovery of 27.50 % Au with a calculated head grade of 0.104 oz/ton Au. Reagent consumptions were calculated at 2.00 lb/ton NaCN and 1.50 lb/ton CaO.
6. Test hole #10 obtained an average recovery of 24.51 % Au with a calculated head grade of 0.104 oz/ton Au. Reagent consumptions were calculated at 2.85 lb/ton NaCN and 3.43 lb/ton CaO.

## Discussion

The gold cyanidation recoveries of this testwork are 6-14 % lower than previous tailings testwork conducted. Cyanide consumption doubled and lime consumption was cut in half. The material from the drill core samples is extremely fine and may be causing the increased cyanide consumption. Screen analysis will be conducted on the samples to determine the exact fineness. The material from the polishing pond may be more refractory than the previous tailings material tested. An investigation into methods of increasing recovery will be conducted.

The test results of these first six test holes showed good duplication. Calculated headgrades were within 2-10 % of the assayed headgrades. The final five test holes have also undergone cyanidation testwork. The results of this testwork will be available next week.

RECOVERY AFTER 6 hrs higher than after 48 → why??

*M.E. Goodfellow*

M.E. Goodfellow  
Jr. Metallurgist

FIGURE 1: SUMMARY OF TEST RESULTS

SAMPLE #	CALC HEAD (oz/ton)	AVE HEAD (oz/ton)	RESIDUE (oz/ton)	CALC Au RECOVERY(%)	NaCN (lb/ton) CONSUMED	CaO (lb/ton) CONSUMED
1A	0.113	0.103	0.077	32.06	2.40	5.00
1B	0.114	0.103	0.078	28.04	2.45	2.50
2A	0.110	0.107	0.082	25.66	3.80	2.25
2B	0.115	0.107	0.083	27.39	3.85	2.25
4A	0.097	0.103	0.069	28.55	2.50	2.25
4B	0.099	0.103	0.068	31.27	2.60	1.75
5A	0.104	0.100	0.073	29.87	3.55	1.25
5B	0.103	0.100	0.075	27.30	1.15	1.25
9A	0.102	0.103	0.074	27.16	2.25	1.75
9B	0.105	0.103	0.076	27.84	1.75	1.25
10A	0.104	0.102	0.078	24.68	2.90	3.10
10B	0.104	0.102	0.079	24.34	2.80	3.25

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 1

Sample Code #: 1A

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 8.4	CaO = 0.50 g	pH = 12.0	pH = 12.0	pH = 12.0	pH = 11.2
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.70 lb/t	CN <sup>-</sup> = 1.4 lb/t	CN <sup>-</sup> = 1.4 lb/t	CN <sup>-</sup> = 1.1 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 10 mL	Tit = 105 mL	Tit = ---- mL
Other=	pH to 12.4	Other =	Other =	Other =	Other =
		Added 1.5 lb/t NaCN.			

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	350 mL	0.545 mg/L	0.191 mg	24.61 %	mg/L	mg	%
Wash	500 mL	0.116 mg/L	0.058 mg	7.47 %	mg/L	mg	%
Total	850 mL	0.293 mg/L	0.249 mg	32.09 %	mg/L	mg	%
Residue	200 g	2.637 g/t	0.527 mg	67.91 %	%	mg	%
Calc Head	200 g	3.880 g/t	0.776 mg	100.00 %	%	mg	%
Assay Head	200 g	3.528 g/t	0.706 mg		%	mg	

Note: Preg (mL) = Preg + Tit

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 1

Sample Code #: 1B

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 8.1	CaO = 0.25 g	pH = 11.4	pH = 11.2	pH = 10.7	pH = 10.2
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.75 lb/t	CN <sup>-</sup> = 1.1 lb/t	CN <sup>-</sup> = 1.2 lb/t	CN <sup>-</sup> = 0.8 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 85 mL	Tit = 93 mL	Tit = ---- mL
Other=	pH to 11.5	Other =	Other =	Other =	Other =
		Added 1.25 lb/t NaCN.			

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	343 mL	0.480 mg/L	0.164 mg	21.00 %	mg/L	mg	%
Wash	500 mL	0.110 mg/L	0.055 mg	7.04 %	mg/L	mg	%
Total	843 mL	0.260 mg/L	0.219 mg	28.04 %	mg/L	mg	%
Residue	200 g	2.809 g/t	0.562 mg	71.96 %	%	mg	%
Calc Head	200 g	3.904 g/t	0.781 mg	100.00 %	%	mg	%
Assay Head	200 g	3.528 g/t	0.706 mg		%	mg	

Note: Preg (mL) = Preg + Tit

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 2

Sample Code #: 2A

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 8.0	CaO = 0.125 g	pH = 9.8	pH = 10.0	pH = 9.7	pH = 9.5
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.6 lb/t	CN <sup>-</sup> = 1.5 lb/t	CN <sup>-</sup> = 0.8 lb/t	CN <sup>-</sup> = 0.4 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 89 mL	Tit = 65 mL	Tit = ---- mL
Other=	pH to 10.1	Other =	Other =	Other =	Other =
		Added 2.0 lb/t NaCN. Added 0.05 g CaO. pH to 10.4		Added 0.2 lb/t NaCN. Added 0.05 g CaO. pH to 10.0	

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	364 mL	0.408 mg/L	0.148 mg	19.58 %	mg/L	mg	%
Wash	500 mL	0.092 mg/L	0.046 mg	6.09 %	mg/L	mg	%
Total	864 mL	0.225 mg/L	0.194 mg	25.66 %	mg/L	mg	%
Residue	200 g	2.809 g/t	0.562 mg	74.34 %	%	mg	%
Calc Head	200 g	3.779 g/t	0.756 mg	100.00 %	%	mg	%
Assay Head	200 g	3.665 g/t	0.733 mg		%	mg	

Note: Preg (mL) = Preg + Tit

pregnant solution &amp; wash yellow in colour

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 2

Sample Code #: 2B

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 7.9	CaO = 0.125 g	pH = 9.8	pH = 10.0	pH = 9.8	pH = 9.8
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.55 lb/t	CN <sup>-</sup> = 1.2 lb/t	CN <sup>-</sup> = 1.2 lb/t	CN <sup>-</sup> = 0.4 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 75 mL	Tit = 80 mL	Tit = ---- mL
Other=	pH to 10.0	Other =	Other =	Other =	Other =
		Added 2.25 lb/t NaCN. Added 0.05 g CaO. pH to 10.4		Added 0.05 g CaO. pH to 10.1	

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	375 mL	0.445 mg/L	0.167 mg	21.25 %	mg/L	mg	%
Wash	500 mL	0.099 mg/L	0.050 mg	6.36 %	mg/L	mg	%
Total	875 mL	0.248 mg/L	0.217 mg	27.61 %	mg/L	mg	%
Residue	200 g	2.843 g/t	0.569 mg	72.39 %	%	mg	%
Calc Head	200 g	3.928 g/t	0.786 mg	100.00 %	%	mg	%
Assay Head	200 g	3.665 g/t	0.733 mg		%	mg	

Note: Preg (mL) = Preg + Tit

pregnant solution &amp; wash yellow in colour.

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 4

Sample Code #: 4A

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 8.4	CaO = 0.125 g	pH = 10.3	pH = 10.0	pH = 9.5	pH = 10.2
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.55 lb/t	CN <sup>-</sup> = 0.5 lb/t	CN <sup>-</sup> = 0.6 lb/t	CN <sup>-</sup> = 0.85 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 73 mL	Tit = 60 mL	Tit = ---- mL
Other=	pH to 11.0	Other =	Other =	Other =	Other =
		Added 0.45 lb/t NaCN.	Added 0.5 lb/t NaCN.	Added 0.4 lb/t NaCN. Added 0.1 g CaO. pH to 10.9	

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	328 mL	0.435 mg/L	0.143 mg	21.60 %	mg/L	mg	%
Wash	500 mL	0.092 mg/L	0.046 mg	6.95 %	mg/L	mg	%
Total	828 mL	0.229 mg/L	0.189 mg	28.55 %	mg/L	mg	%
Residue	200 g	2.363 g/t	0.473 mg	71.45 %	%	mg	%
Calc Head	200 g	3.308 g/t	0.662 mg	100.00 %	%	mg	%
Assay Head	200 g	3.528 g/t	0.706 mg		%	mg	

Note: Preg (mL) = Preg + Tit

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 4

Sample Code #: 4B

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 8.2	CaO = 0.125 g	pH = 10.5	pH = 10.3	pH = 9.8	pH = 9.8
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.55 lb/t	CN <sup>-</sup> = 0.4 lb/t	CN <sup>-</sup> = 0.85 lb/t	CN <sup>-</sup> = 0.6 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 90 mL	Tit = 70 mL	Tit = ---- mL
Other=	pH to 10.3	Other =	Other =	Other =	Other =
		Added 0.45 lb/t NaCN.	Added 0.6 lb/t NaCN.	Added 0.15 lb/t NaCN. Added 0.05 g CaO. pH to 10.6	

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	365 mL	0.456 mg/L	0.166 mg	24.48 %	mg/L	mg	%
Wash	500 mL	0.092 mg/L	0.046 mg	6.79 %	mg/L	mg	%
Total	865 mL	0.245 mg/L	0.212 mg	31.27 %	mg/L	mg	%
Residue	200 g	2.329 g/t	0.466 mg	68.73 %	%	mg	%
Calc Head	200 g	3.389 g/t	0.678 mg	100.00 %	%	mg	%
Assay Head	200 g	3.528 g/t	0.706 mg		%	mg	

Note: Preg (mL) = Preg + Tit

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 5

Sample Code #: 5A

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 8.0	CaO = 0.125 g	pH = 10.8	pH = 10.8	pH = 10.1	pH = 9.5
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.4 lb/t	CN <sup>-</sup> = 1.7 lb/t	CN <sup>-</sup> = 1.7 lb/t	CN <sup>-</sup> = 1.45 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 80 mL	Tit = 85 mL	Tit = ---- mL
Other=	pH to 10.5	Other =	Other =	Other =	Other =
		Added 3.0 lb/t NaCN.			

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	375 mL	0.449 mg/L	0.168 mg	23.56 %	mg/L	mg	%
Wash	500 mL	0.089 mg/L	0.045 mg	6.31 %	mg/L	mg	%
Total	875 mL	0.243 mg/L	0.213 mg	29.87 %	mg/L	mg	%
Residue	200 g	2.500 g/t	0.500 mg	70.13 %	%	mg	%
Calc Head	200 g	3.565 g/t	0.713 mg	100.00 %	%	mg	%
Assay Head	200 g	3.425 g/t	0.685 mg		%	mg	

Note: Preg (mL) = Preg + Tit

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 5

Sample Code #: 5B

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 8.0	CaO = 0.125 g	pH = 10.8	pH = 10.5	pH = 10.1	pH = 10.1
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.7 lb/t	CN <sup>-</sup> = 1.2 lb/t	CN <sup>-</sup> = 1.15 lb/t	CN <sup>-</sup> = 1.15 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 80 mL	Tit = 85 mL	Tit = ---- mL
Other=	pH to 10.0	Other =	Other =	Other =	Other =
		Added 0.3 lb/t NaCN.			

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	380 mL	0.394 mg/L	0.150 mg	21.22 %	mg/L	mg	%
Wash	500 mL	0.086 mg/L	0.043 mg	6.08 %	mg/L	mg	%
Total	880 mL	0.219 mg/L	0.193 mg	27.30 %	mg/L	mg	%
Residue	200 g	2.569 g/t	0.514 mg	72.70 %	%	mg	%
Calc Head	200 g	3.534 g/t	0.707 mg	100.00 %	%	mg	%
Assay Head	200 g	3.425 g/t	0.685 mg		%	mg	

Note: Preg (mL) = Preg + Tit

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 9

Sample Code #: 9A

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 8.5	CaO = 0.125 g	pH = 10.6	pH = 10.8	pH = 9.8	pH = 10.2
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.7 lb/t	CN <sup>-</sup> = 0.8 lb/t	CN <sup>-</sup> = 0.5 lb/t	CN <sup>-</sup> = 0.75 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 70 mL	Tit = 80 mL	Tit = ---- mL
Other=	pH to 11.5	Other =	Other =	Other =	Other =
		Added 0.3 lb/t NaCN.	Added 0.2 lb/t NaCN.	Added 0.5 lb/t NaCN. Added 0.05 g CaO. pH to 10.5	

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	380 mL	0.421 mg/L	0.160 mg	22.99 %	mg/L	mg	%
Wash	500 mL	0.082 mg/L	0.029 mg	4.17 %	mg/L	mg	%
Total	880 mL	0.215 mg/L	0.189 mg	27.16 %	mg/L	mg	%
Residue	200 g	2.535 g/t	0.507 mg	72.84 %	%	mg	%
Calc Head	200 g	3.480 g/t	0.696 mg	100.00 %	%	mg	%
Assay Head	200 g	3.528 g/t	0.706 mg		%	mg	

Note: Preg (mL) = Preg + Tit

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 9

Sample Code #: 9B

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 8.3	CaO = 0.125 g	pH = 11.0	pH = 10.8	pH = 10.1	pH = 9.5
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.7 lb/t	CN <sup>-</sup> = 0.9 lb/t	CN <sup>-</sup> = 0.8 lb/t	CN <sup>-</sup> = 0.85 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 84 mL	Tit = 80 mL	Tit = ---- mL
Other=	pH to 10.8	Other =	Other =	Other =	Other =
		Added 0.3 lb/t NaCN.	Added 0.1 lb/t NaCN.	Added 0.2 lb/t NaCN.	

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	389 mL	0.411 mg/L	0.160 mg	22.16 %	mg/L	mg	%
Wash	500 mL	0.082 mg/L	0.041 mg	5.68 %	mg/L	mg	%
Total	889 mL	0.226 mg/L	0.201 mg	27.84 %	mg/L	mg	%
Residue	200 g	2.063 g/t	0.521 mg	72.16 %	%	mg	%
Calc Head	200 g	3.610 g/t	0.722 mg	100.00 %	%	mg	%
Assay Head	200 g	3.528 g/t	0.706 mg		%	mg	

Note: Preg (mL) = Preg + Tit

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 10

Sample Code #: 10A

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 6.9	CaO = 0.2 g	pH = 9.2	pH = 10.0	pH = 9.5	pH = 9.8
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.1 lb/t	CN <sup>-</sup> = 0.6 lb/t	CN <sup>-</sup> = 0.7 lb/t	CN <sup>-</sup> = 0.7 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 94 mL	Tit = 75 mL	Tit = ---- mL
Other=	pH to 10.8	Other =	Other =	Other =	Other =
		Added 0.9 lb/t NaCN. Added 0.1 g CaO. pH to 10.2	Added 0.4 lb/t NaCN.	Added 0.3 lb/t NaCN. Added 0.01 g CaO. pH 10.6	

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	379 mL	0.353 mg/L	0.134 mg	18.90 %	mg/L	mg	%
Wash	500 mL	0.082 mg/L	0.041 mg	5.78 %	mg/L	mg	%
Total	879 mL	0.199 mg/L	0.175 mg	24.68 %	mg/L	mg	%
Residue	200 g	2.672 g/t	0.534 mg	75.32 %	%	mg	%
Calc Head	200 g	3.547 g/t	0.709 mg	100.00 %	%	mg	%
Assay Head	200 g	3.494 g/t	0.699 mg		%	mg	

Note: Preg (mL) = Preg + Tit

## GIANT YELLOWKNIFE MINES LIMITED

## CYANIDATION TESTS

Date of Test: April 18, 1988

Sample: TEST HOLE # 10

Sample Code #: 10B

REF: CYANID.FRM

Initial					
Size = 200 g	Reagents	1 hr Roll	After 6 Hrs.	After 24 Hrs.	After 48 Hrs.
pH = 7.3	CaO = 0.125 g	pH = 8.9	pH = 10.0	pH = 9.8	pH = 9.3
%-200=	NaCN = 2.0 lb/t	CN <sup>-</sup> = 0.2 lb/t	CN <sup>-</sup> = 0.5 lb/t	CN <sup>-</sup> = 1.0 lb/t	CN <sup>-</sup> = 0.5 lb/t
H2O = 400 mL	Other =	Tit = 10 mL	Tit = 81 mL	Tit = 70 mL	Tit = ---- mL
Other=	pH to 10.4	Other =	Other =	Other =	Other =
		Added 0.8 lb/t NaCN. Added 0.15 g CaO. pH 10.4	Added 0.5 lb/t NaCN.	Added 0.05 g CaO. pH to 10.1	

## Sample Calculations:

	Units	Gold			Arsenic		
		Assay	Distribution	Recovery	Assay	Distribution	Recovery
Preg	391 mL	0.339 mg/L	0.133 mg	18.60 %	mg/L	mg	%
Wash	500 mL	0.082 mg/L	0.041 mg	5.73 %	mg/L	mg	%
Total	891 mL	0.195 mg/L	0.174 mg	24.34 %	mg/L	mg	%
Residue	200 g	2.706 g/t	0.541 mg	75.66 %	%	mg	%
Calc Head	200 g	3.576 g/t	0.715 mg	100.00 %	%	mg	%
Assay Head	200 g	3.494 g/t	0.699 mg		%	mg	

Note: Preg (mL) = Preg + Tit

REF: MILLASSY

DATE ASSAYED April 15/88

[illegible]