

REPORT

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To Mr. Hugh R. Currie

From

Date December 8 1986

Subject Leach Test Results

A sample weighing approximately 50 lbs. was received from Whiteshell Ventures Ltd. From this a smaller sample weighing 6 lbs. was cut. This smaller sample was crushed to 1/4" size and then ground to 81% -200 mesh. The ground sample was then dried, rolled, coned, and quartered. This was repeated four times to obtain four separate samples.

General Information

- 1. Sample Size 500 grams
- 2. Weight % Solids 65
- 3. PH control Lime
- 4. Leaching vessel Rolling bottle
- 5. Values By fire assaying

Test Results

| # | Test Leach time Hrs. | Initial Cn lbs./t | Added Cn 16 hr | Final Cn | Final Cn tot lbs/t | PH | Head Tail Recovery Soln' | | | |
|---|----------------------|-------------------|----------------|----------|--------------------|------|--------------------------|-------|-------|------|
| | | | | | | | Au oz/t | Au % | | |
| 1 | 24 | 2.2 | 2.2 | 1.9 | 1.3 | 10.9 | 0.21 | 0.010 | 95.24 | 0.29 |
| 2 | 32 | 4.4 | 0 | 0.7 | 2.0 | 10.5 | 0.86 | 0.019 | 97.79 | 0.97 |
| 3 | 41 | 2.2 | 2.2 | 1.1 | 1.8 | 10.4 | 0.30 | 0.012 | 96.00 | 0.35 |
| 4 | 48 | 2.2 | 2.2 | 1.0 | 1.8 | 10.6 | 0.36 | 0.010 | 97.22 | 0.45 |

Comments

1. Tests # 1, 3, & 4 were started on Dec. 1 1986 at 1400 hrs. The cyanide level of the solution was 0.6 lbs/t at 0800 hrs. Dec. 2/86 Because of this the cyanide levels in the solution were increased to 2.2 lbs/ton at this time.

2. Test # 2 was started on Dec. 2/86 at 0800 hrs. the initial cn level of the solution was made up to 4.4 lbs/ton. therefore the Cn added to all four tests was the same.

Observations and Conclusions

1. These tests illustrate that this ore will react quite

favourably to a straight cyanidation processing circuit. The

average recovery of the four tests was 96.56 % indicating that

there are no interfering elements to be overly concerned about.

2. Cyanide strengths of 1.5 to 2.0 lbs./ton of ore are sufficient.

3. A retention time of 35 to 42 hours is adequate.

4. Both crushing and grinding phases were done with ease.

5. Free gold may be present as indicated with the head assay in

test # 2 .

Respectfully Submitted