



680803

TECHNATIONAL RESEARCH
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PRELIMINARY TESTING
OF
GOLD AND SILVER ORE
FOR
YUKON REVENUE MINES

Summary:

The majority of the gold in the Yukon Revenue ore tested by Technational Research is in an uncombined state.

The material was milled in a ball mill and concentrated over a shaker table to obtain a gold and silver concentrate.

Further testing should be done to reveal the feasibility of recovering the gold and silver in this ore.

Ore Sample Preparation:

Two samples of Yukon Revenue rock ore were tested:

B1 (our number: W1326)
B2 (our number: W1361)

Sample B1 weighing 165 lbs. was crushed to approximately 95% minus 1/4" and ball-milled to approximately 40% to 50% minus 100 mesh.

The resulting ball-mill discharge was gravity-concentrated using a concentrating table, the concentrate dried, weighed and assayed.

Sample B2 weighing 163 lbs. was treated the same as sample B1.



Yukon Revenue Mines
Preliminary Test

Gravity Concentrating:

Milling and tabling of both samples produced a distinct and clean separation of free gold contained within a black bead, approximately 1/2" wide containing iron, sulphides and pyrites.

Assaying:

Assay samples were cut from the minus 1/4" material using a Jones Riffle splitter.

Both concentrate and head samples were pulverized and screened to minus 100 mesh. Over-size material was further hand ground in a cast iron mortar and residual metallic material was then assayed and the minus 100 mesh ore pulp was done in duplicate. (Certificate of Analysis)

Assays of the head material (i.e. prior to tabling) showed the material to contain less than was actually recovered. (Table I) This was most likely caused by the "spotty" nature of the gold dissemination in the host rock. Future sampling procedures will minimize this problem.



Yukon Revenue
Preliminary Test

TESTING RESULTS

TABLE I

HEAD SAMPLE WEIGHT LBS	TABLE CONC WEIGHT GRAMS	TABLE CONC TROY OZ/TON		GRAMS PER SAMPLE		TROY OZ PER SAMPLE		HEAD SAMPLE TROY OZ/TON CALCULATED	
		Au	Ag	Au	Ag	Au	Ag	Au	Ag
B1 165	2827	19.87	55.85	1.93	5.41	0.062	0.174	0.75	2.10
B2 163	1287	11.27	38.87	0.50	1.72	0.016	0.055	0.20	0.68



Yukon Revenue Mines
Preliminary Test

Follow-up Test Work Recommendations:

1. Refinery test of table concentrate to determine final gold recoverability.
2. Screen analysis and assay of fractions on both table concentrate, table feed and table tails, to evaluate grind requirements.
3. Duplicate samples on concentrate (pulverize and assay individually.)

For the head assay, larger duplicate samples would be analyzed to eliminate, as much as possible, interference from "spotty" gold dissemination in the host rock.

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INTERNATIONAL RESEARCH CORPORATION

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(CERTIFICATE OF ANALYSIS)

TO: YUKON REVENUE MINES
117 INDUSTRIAL ROAD
WHITEHORE, Y.T.

DATE: February 3, 1982

RECEIVED
FEB-5 1982
GENERAL ENTERPRISES

Sample Number	Gold	Silver	Platinum			
	oz/ton	oz/ton	oz/ton			
W1326 B1						
Head Sample	0.49	7.31				
Table Concentrate	19.87	55.85				
W1361 B2						
Head Sample	0.12	1.58				
Table Concentrate	11.27	38.87				

Gov't. Certified Assayer

FIRE ASSAY

Samples or parts thereof retained 30 days unless otherwise arranged.

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DATE February 3, 1982

INVOICE NO. Nº \$ 1580

SOLD TO: YUKON REVENUE MINES
117 INDUSTRIAL ROAD
WHITEHORSE, YUKON

PARTICULARS	Troy Ounces	Amount
W1326 - B1 & W1361 - B2 Charge for Assays (4 gold & silver metallic Fire Assays) 4 x \$50.00 Charge for Milling (5 hours at \$75.00 per hour) Charge for concentrating (2 hours at \$100.00)		\$200.00 375.00 200.00 <hr/> \$775.00 <hr/>