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FLOTATION TEST DATA: CONDITIONS AND REAGENTS

SAMPLE IDENTIFICATION **Alaskan Ag Ore** REPORT NO. TEST NO. **2**

TEST PROCEDURE:
 An 1125g sample of -10 mesh ore was ball milled and then floated in a Denver D-12 1000g flot cell. The sample was subjected to rougher flotation and one stage of cleaner flotation.

Grinding and Treatment				Reagents: Pounds per ton heads—(2)							
Operation	Time Min.	Percent Solids	pH	NaC	KX	P	MIBC				
Grinding (1)	20	67	9.8	62							
Rougher Flotation	7	25	9.8		5.1	0.07	0.08				
Cleaner Flotation	6	18.5	7.6			0.05	0.06				

NOTES: GRINDING PERFORMED IN STANDARD DENVER 12"x5" DENVER BALL MILL. BALL CHARGE = 40 POUNDS, R.P.M. = 54.
 CLASSIFICATION BY DECANTATION THROUGH LIMITING SCREEN, UN-DECANTED SANDS REGROUND.
 FLOTATION PERFORMED IN DENVER "SUB-A" LABORATORY FLOTATION MACHINE.

Grinding (1)
 Time, minutes
 Classification, mesh
 Sands reground, minutes

(2) Reagent Symbols:
 NaC = Na₂CO₃
 KX = Potassium Amyl Xanthate
 P = Pine Oil
 MIBC = Methyl Isobutyl Carbinol

A.



FLOTATION TEST DATA: CONDITIONS AND REAGENTS

SAMPLE IDENTIFICATION Alaskan Ag Ore

REPORT NO.

TEST NO. 3

TEST PROCEDURE:

An 1125g sample of -10 mesh ore was ball milled and then floated in a Denver D-12 1000g flot cell. The sample was subjected to rougher flotation and one stage of cleaner flotation.

Grinding and Treatment				Reagents: Pounds per ton heads—(2)							
Operation	Time Min.	Percent Solids	pH	NaC	KX	P	MIBC				
Grinding (1)	30	67	7.6	62							
Rougher Flotation	7	25	7.6		5.1	0.07	0.08				
Cleaner Flotation	6	18	7.6			0.05	0.06				

NOTES: GRINDING PERFORMED IN STANDARD DENVER 12"x5" DENVER BALL MILL. BALL CHARGE = 40 POUNDS, R.P.M. = 54.

CLASSIFICATION BY DECANTATION THROUGH LIMITING SCREEN, UN-DECANTED SANDS REGROUND.

FLOTATION PERFORMED IN DENVER "SUB-A" LABORATORY FLOTATION MACHINE.

Grinding (1)

Time, minutes
Classification, mesh
Sands reground, minutes

(2) Reagent Symbols:

NaC = Na_2CO_3
KX = Potassium Amyl Xanthate
P = Pine Oil
MIBC = Methyl Isobutyl Carbinol

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FLOTATION TEST DATA: CONDITIONS AND REAGENTS											
SAMPLE IDENTIFICATION				REPORT NO.				TEST NO. 4			
TEST PROCEDURE: An 1125g sample of -10 mesh ore was ball milled and then floated in a Denver D-12 1000g flot cell. The sample was subjected to rougher flotation and one stage of cleaner flotation.											
Grinding and Treatment				Reagents: Pounds per ton heads—(2)							
Operation	Time Min.	Percent Solids	pH	NaC	KX	P	MIBC				
Grinding (1)	12	67	7.4	62							
Rougher Flotation	7	25	7.4		5.1	0.07	0.08				
Cleaner Flotation	6	20	7.6			0.05	0.06				
Grinding (1) Time, minutes Classification, mesh Sands reground, minutes				(2) Reagent Symbols: NaC = Na_2CO_3 KX = Potassium Amyl Xanthate P = Pine Oil MIBC = Methyl Isobutyl Carbinol							

NOTES: GRINDING PERFORMED IN STANDARD DENVER 12"x5" DENVER BALL MILL. BALL CHARGE = 40 POUNDS, R.P.M. = 54.

CLASSIFICATION BY DECANTATION THROUGH LIMITING SCREEN, UN-DECANTED SANDS REGROUND.

FLOTATION PERFORMED IN DENVER "SUB-A" LABORATORY FLOTATION MACHINE.