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DoveBid® Private Treaty Sale

Surplus to the continuing operations of

KENNECOTT UTAH COPPER - With Assets Located in Bonneville- Magna-Barneys Canyon

*Processing Equipment
for the Mining Industry*

DOVEBID®
Business Auctions &
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with


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Private Treaty Sale

By order of

Kennecott Utah Copper

Assets available immediately

Preview

By appointment only

For more information or to schedule a preview appointment, please contact Matthew Going +1 619.235.4638

mgoing@dovebid.com

A buyer's premium will apply at this sale

Preview Location

Bonneville-Magna-Barneys Canyon

Auctioneer's Note

DoveBid is extremely pleased to be selected by Kennecott Utah Copper to conduct this Private Treaty Sale of Processing Equipment for the Mining Industry. Featured items include:

- Crushing Circuits
- Ball Mills
- Rod Mills
- Flotation Cells
- And Much More

This Private Treaty sale will be conducted from now until May 31, 2004 with assets located in Bonneville-Magna-Barneys Canyon, UT. For appointment schedule, offer submission, or further information, please contact: Matthew Going at phone 619.235.4638 or email mgoing@dovebid.com. Please visit our website at www.dovebid.com to download the equipment catalog.

Please remember that assets are sold as is, where is, and with all faults when participating in an auction. And as a courtesy to our buyers, DoveBid can provide contact information for shipping and rigging companies. Please visit the website for details.

Thank you in advance for your interest and we look forward to your participation in this sale.

Additional Information



Dumpers • Crushers • Conveyors



MCDOWELL-WELLMAN 86-TON CAPACITY TANDEM RAILROAD CAR DUMPER

DUMPER BUILDING

TANDEM CAR DUMPER

1 – MCDOWELL-WELLMAN 86-TON CAPACITY TANDEM RAILROAD CAR DUMPER, Capacity: Maximum Gross Per Car 249,200, Maximum Number of Cars Per Hour 60, Car Size: Overall Length Over Couplers 31', Overall Width 10' 6-3/4", Car Height Above Rails 10'-1-1/8", Dump Cycle: C.C.W. As Viewed From Approach End, Dump & Return 45 Seconds, Spotting 120 Seconds, Degree of Rotation 140 to 180 Degrees Maximum, GE 100 HP, 1200 RPM, 220/440 3-PH. 60 Cy. Motor, 40 HP Hydraulic Power Unit, 300 Gallon Reservoir, Trabon Automatic Lubrication System

GYRATORY PRIMARY CRUSHER

1 – ALLIS-CHALMERS MODEL 54-74 SUPERIOR GYRATORY PRIMARY CRUSHER #10429, GE 500 HP Motor, 514 RPM, 440 V, 3 PH, 60 Cy, Capacity: Approximately 1000 TPH of Mine Run Ore Weighing 100 to 110-Lbs. Per Cu Ft, Maximum Rock Size of 54" to Crush to Minus 6", One Piece 2-Arm Cast Steel Spider, Complete With Hydrosset Mechanism, Extension Shaft, Eccentric Cart, Seticator, Immersion Heaters & External Lubrication System, Spare GE Motor

CONVEYORS

- 4 – 400 TO 1500 TPH 72" W X 19' LONG VARIABLE SPEED APRON FEEDERS, 30 HP 1750/438 RPM Variable Speed Motors, 440/3/60
- 2 – 2000 TPH 72" W X 228.5" LONG PICKING BELT CONVEYORS, Reliance 30 HP Variable Speed Motor 440/3/60
- 2 – SCI-TRONICS OVER BELT METAL DETECTORS, Rated Belt Speed 150-200 FPM, 110V 1 PH 60 CY
- 1 – 30" W X 479' 3" LONG SCRAP CONVEYOR, Configured At A 99' 10-1/2" Lift, Rated Speed 200 FPM, 30 TPH, 10 HP Motor, 440/3/60
- 2 – 54" W X 706' 6" LONG PRIMARY TRANSFER CONVEYORS, Configured At A 147' 2-1/2" Lift, Rated Speed 400 FPM, 2000 TPH, 450 HP 1800 RPM motor, 440/3/60
- 2 – FAIRBANKS MORSE BELT SCALES, 8 Digit Weight Totalization With A Daily Indication In Tons, Mounted Over 54" Primary Transfer Conveyors

BRIDGE CRANES

- 1 – P&H 75/15 TON X 96' SPAN X 140' RUNWAY OVERHEAD PENDANT CONTROLLED BRIDGE CRANE, S/N CL21014, 440/3/60
- 1 – 10 TON CAPACITY X 36' SPAN X 54' RUNWAY MANUAL UNDER-SLUNG SINGLE BEAM BRIDGE CRANE, Drive House #1

BRIDGE CRANES

- 2 – 5 TON CAPACITY X 35' 5" SPAN X 38' 6" RUNWAY MANUAL UNDER-SLUNG SINGLE BEAM BRIDGE CRANES, Servicing Grizzlies

MISCELLANEOUS

- 1 – KENT MODEL PM32EHD HYDRAULIC BREAKER ARM, S/N 411, 32' Arm Reach, Model KF22 Hammer S/N 2305, Hydraulic Power Unit, Never Installed



SYMONS HEAVY DUTY 7' SHORT HEAD TERTIARY CONE CRUSHER



NORDBERG/SYMONS HEAVY DUTY 7' STANDARD HEAD SECONDARY CONE CRUSHER

Large Inventory of Spare and Replacement Parts

Kennecott Utah Copper-Bonneville-Magna-Barneys Canyon

MISCELLANEOUS

- 1 – LIME SILO W/ Kinery Corp. Live Bottom And Auger Feed Conveyors
- 1 – FILTRET STEELCRAFT 75 HP DUST COLLECTOR SYSTEM
- 2 – WORTHINGTON CORP MODEL CNG-42 HORIZONTAL CENTRIFUGAL VOLUTE MAGNESIUM CHLORIDE SOLUTION PUMPS, Rated At 30 GPM
- 1 – TITAL STEEL CORP. 1000 GAL CAPACITY 6' DIA X 5' TALL CARBON STEEL, 3/16" Neoprene Lined, Magnesium Chloride Solution Tank
- 1 – TITAL STEEL CORP. 5000 GAL CAPACITY 8' DIA X 12' LONG HORIZONTAL CARBON STEEL, Concentrated Magnesium Chloride In Solution Tank
- 1 – 13,720 SQ.FT., 140' X 98' X 48' 10" TO BOTTOM OF TRUSSES STEEL FRAME PRIMARY CRUSHER BUILDING, 14 Flight Stairway To Pump And Sump Room Below Grade, Otis 1200# Capacity Man Elevator

**SYMONS BUILDING
SECONDARY CRUSHING**

SECONDARY CONE CRUSHERS

- 2 – NORDBERG/SYMONS HEAVY DUTY 7' STANDARD HEAD SECONDARY CONE CRUSHERS, Rated At Minus 6" To Minus 1-1/2" Ore At A Rate Of 1146 TPH, Capacities 1500 TPH MAX, 450 TPH MIN, 700 TPH Recommended, 212 Gyration Per Minute, 4" Throw, 300 HP 705 RPM Motor, 440/3/60
- 3 – SYMONS HEAVY DUTY 7' SHORT HEAD TERTIARY CONE CRUSHERS, Rated At Minus 1-1/2" To Minus 3/4" Ore At A Rate Of 360 TPH, Capacities 500 TPH Max, 200 TPH Min, 250 TPH Recommended, 212 Gyration Per Minute, 4" Throw, 300 HP 705 RPM Motor, 440/3/60

FEEDERS

- 8 – SYNTRON MODEL LNC-5 VIBRATORY FEEDERS, Rated At 750 TPH, With 6" Material, Trough Size 54" W X 84" Long, 220/3/60
- 1 – 1260 CU YD CAPACITY CARBON STEEL TERTIARY CRUSHER FEED BIN, 66' Long X 26' 11" W X 25' 11" Deep, 7 In 12 Slope At Sides Of Bin Floor
- 3 – SYNTRON MODEL F-55 48" X 72" VIBRATING TERTIARY CRUSHER FEEDERS, Feed Rate 500 TPH

SCREENS

- 4 – NORDBERG MODEL 1818 720 TO 1080 TPH VIBRATING SCREENS, 22 Degree Slope, Live Frame Dimensions 72" H X 96-1/4" W X 216" Long, 25 HP Motor, 440/3/60

CONVEYORS

- 2 – 54" W X 812' 10" LONG STOCK PILE RECLAIM CONVEYORS, Configured At A 127' Lift, Rated At 1800 TPH, 400 FPM, 400 HP Motor, 440/3/60
- 2 – FAIRBANKS MORSE BELT SCALES, 8 Digit Weight Totalization With A Daily Indication In Tons, Mounted Over 54" Stock Pile Reclaim Conveyors

CONVEYORS

- 1 – 60" X 195' LONG CRUSHER OVERSIZE CONVEYOR #1, Speed 430 FPM, 50 HP Motor 440/3/60
- 1 – 60" X 254' 5-3/8" LONG CRUSHER OVERSIZE CONVEYOR #2, Configured At A 68' 11" Horizontal Lift, Speed 435 FPM, 350 HP Motor 440/3/60
- 1 – 60" X 196' 9-7/8" LONG CRUSHER OVERSIZE CONVEYOR #3, Configured At A 55' 4-3/8" Horizontal Lift, Speed 500 FPM, 300 HP Motor 440/3/60
- 1 – 60" X 190' 9-1/8" LONG CRUSHER TRIPPER CONVEYOR, Configured At A 18' X 8-1/16" Lift, Speed 560 FPM, 150 HP Motor 440/3/60
- 1 – TERTIARY BIN TIPPER, Discharges Up To 3240 TPH, Screen Oversized Material Into Tertiary Crusher Feed Bin, 10 HP Motor, 440/3/60
- 3 – 36" W X 30' 8" LONG TERTIARY CRUSHER FEED CONVEYORS, Rated At 592 TPH, Speed 250 FPM, 5 HP Motor, 440/3/60
- 1 – 60" X 133' FINE CRUSHING COLLECTING CONVEYOR, RATED AT 3600 TPH, Speed 520 FPM, 50 HP Motor 440/3/60
- 1 – 60" X 614' 8" INCLINE FINE ORE TRANSFER CONVEYOR, Rated At 147' 3-3/16" Rise, 3600 TPH, 620 FPM, 2- 400 HP Motors, 440/3/60
- 1 – FAIRBANKS MORSE BELT SCALE, 8 Digit Weight Totalization With A Daily Indication In Tons, Mounted Over Fine Ore Transfer Conveyor
- 1 – 60" X 391' FINE ORE STORAGE INCLINE TRIPPER CONVEYOR, Rated At 25' 7-3/8" Incline, 3600 TPH, 620 FPM, 300 HP Motor, 440/3/60

BRIDGE CRANES

- 1 – P&H 30/5 TON CAPACITY 43' SPAN X 216' RUNWAY OVERHEAD BRIDGE CRANE, 440/3/60
- 1 – 5 TON CAPACITY TOP RIDING DOUBLE GIRDER BRIDGE CRANE, 29' 4" SPAN, 172' Runway, Electric Hoist, Manual Bridge
- 1 – 7-1/2 TON CAPACITY MANUAL UNDERHUNG SINGLE BEAM BRIDGE CRANE IN DRIVE HOUSE #3, 37' Span X 30' Runway
FINE ORE BUILDING LOWER LEVEL

BELT FEEDERS AND CONVEYORS

- 16 – 36" X 39' 4" BELT FEEDERS, Rated At 39 TPH, 26 FPM, 7-1/2 HP Motors, 440/3/60
- 16 – 36" X 39' 4" BELT FEEDERS, Rated At 39 TPH, 26 FPM, 5 HP Motors, 440/3/60
- 4 – 36" X 69' FINE ORE COLLECTING CONVEYORS, Rated At 312 TPH, 200 FPM, 7-1/2 HP Motors, 440/3/60
- 4 – 36" X 206' ROD MILL FEED INCLINE CONVEYORS, Rated At 19' 3-3/4" Lift, 312 TPH, 200 FPM, 15 HP Motors, 440/3/60
- 4 – FAIRBANKS MORSE BELT SCALES, 8 Digit Weight Totalization With A Daily Indication In Tons, Mounted Over Rod Mill Feed Incline Conveyors

Belt Feeders • Rod Mills • Ball Mills • Pumps • Flotation Cells



KREBS QUAD BANK
MODEL D20B RUBBER LINED
CLASSIFICATION CYCLONE



NORDBERG HEAVY-DUTY OVERFLOW-TYPE WET
BALL MILL



NORDBERG HEAVY-DUTY OVERFLOW-TYPE
WET ROD MILL

GRINDING PLANT

The grinding plant was designed as 4 independent 2-stage grinding lines, c/o: 1- rod mill, and 2- ball mills, to operate in a closed circuit w/ cyclone classifiers.

ROD MILLS

- 4 – NORDBERG HEAVY-DUTY OVERFLOW-TYPE WET ROD MILLS, Inside Shell Diameter 12'6", Outside Flange to Flange Shell Length 18'6", Feed 312 TPH, Rod Mill Product Size to Be 80% Minus 14 Mesh at 65% to 75% Solids, Cast Meehanite Heads With Integral Trunnions, Replaceable Cast Head & Trunnion Liners, Fully Automatic Trunnion Bearing Lubrication, GE 1250-HP Motor, 4000/3/60
- 4 – VULCAN STEEL WORKS 2-WAY DISCHARGE SPLITTER GATES, Located On Rod Mill Discharge Boxes

BALL MILLS

- 8 – NORDBERG HEAVY-DUTY OVERFLOW-TYPE WET BALL MILLS, Inside Shell Diameter 12'6", Outside Flange to Flange Shell Length 15'6", Grinding Line Product 84% Minus 100 Mesh, Ball Mill Pulp Dilution 70% Solids, Ball Mill Circulating Load 300% to 400%, All Mills Have Replaceable Cast Head & Trunnion Liners, Fully Automatic Trunnion Bearing Lubrication, GE 1250-HP Motor, 4000/3/60, 4-MILLS #'s 3120, 3121, 3125, & 3126, Have Lorain Shell Liners, 3" Plate, 2-1/2" Lift, Style D, Bar # 4499, 2- Mills #'s 3131, & 3136, Have Ni-Hard, Double Wave Shell Liners, 3" THICK, 2"Lift
- 1 – GENERAL ELECTRIC MODEL GEM 2045 D SET NO. 12A, MOTOR GENERATOR SET, AC Motor 50 HP, 1800 RPM, DC Generator Model CD 366 AS- 33 KW, 1750 RPM, 2664 AMPS, Shunt Wound

PUMPS

- 7 – DENVER 14" X 12" 100 HP HORIZONTAL CENTRIFUGAL SOFT RUBBER LINED CYCLONE FEED PUMPS, 26" Impeller, Rated Flow 3175 GPM @ 480 RPM
- 2 – GALIGHER CO. MODEL 4 VRG-200 6" X 4" HORIZONTAL VAC SEAL CENTRIFUGAL PUMPS, 20 HP Motor, 500 GPM

CLASSIFICATION CYCLONES

- 8 – KREBS QUAD BANK MODEL D20B RUBBER LINED CLASSIFICATION CYCLONES, Feed Rate 3220 GPM

MISCELLANEOUS

- 8 – WEIGH LAUNDERS, STEEL CONSTRUCTED U-SHAPE, Thick Durometer Rubber Lined
- 8 – 15' 4" X 4' 3" D X 16' 3" HIGH SCOOP BOXES
- 7 – SETS OF GALIGHER CO. MODEL CS-400/ 16" VEZIN. 2 STAGE PRODUCT SAMPLERS
- 1 – ALLEN-SHERMAN-HOFF MODEL BC-6-5 HORIZONTAL CENTRIFUGAL MILL BY-PASS PUMP, IMPELLER SIZE 14-3/8", 25 HP MOTOR, 440/3/60
- 4 1 – COLIN AND ROBERTS TELESCOPIC ROD CHARGER

MISCELLANEOUS

- 1 – 5' DIA X 6' 3" HIGH 20,000# CAPACITY BALL TRANSFER BUCKET, 18" X 18" Gated Spout
- 1 – GALIGHER CO. SWEEP TYPE PADDLE BLADE AGITATOR, 5 HP MOTOR

BRIDGE CRANE

- 1 – P&H 70/15 TON CAPACITY 87' SPAN X 460' RUNAWAY (FEET) TOP-RIDING DOUBLE BEAM OVERHEAD BRIDGE CRANE, 440/3/60

MAGNA FLOTATION PLANT

FLOTATION CELLS

- 1 – BANK OF 10 DORR OLIVER 1550 FLOTATION CELLS, 100 HP Drives, Tanks, Controls, A#s BL101, BL102, FC213, FC214, FC215, FC216, FC217, FC218, FC219, FC220
- 1 – BANK OF 10 WEMCO 1550 FLOTATION CELLS, 125 HP Drives, Tanks, Controls, A#s FC201, FC202, FC203, FC204, FC205, FC206, FC207, FC208, FC209, FC210,
- 2 – BANK OF 10 WEMCO FLOTATION CELLS, 40 HP Drives, Tanks, Controls
- 3 – WEMCO 40-125 HP FLOTATION DRIVES, W/ Maintenance Stand

PUMPS

- 4 – DENVER MODEL SLR-C 16" X 14" SPLIT CASING SOFT RUBBER LINED PUMPS, #5 Frame Mounted, 300 HP Motor, 1180 RPM, 2300/3/60
- 1 – GALIGHER MODEL DS-194 SCAVENGER CLEANER TAIL PUMP, 40 HP Motor
- 2 – GALIGHER MODEL SUMP PUMPS, A# 207-5, A# 207-4
- 2 – GALIGHER 3" SPLIT CASING VAC SEAL RUBBER LINED PUMPS, 15 HP Motor, A# 205-01, A# 205-02
- 4 – GALIGHER MODEL D8VR SPLIT CASING VAC SEAL RUBBER LINED BELT DRIVEN PUMPS, 40 HP Motor, A# 204-1, A# 204-2, A# 206-1, A# 206-2
- 1 – CARVER MODEL ETA125-315 CENTRIFUGAL PUMP, 50 Hp Motor,
- 1 – 15 HP MOTOR, A# 207-1

PUMPS

- 2 – GALIGHER SPLIT CASING VAC SEAL RUBBER LINED BELT DRIVEN PUMP, 25 HP Motor, A# 201-1, A# 201-2
- 3 – GALIGHER MODEL D35SAA2100X48 SUMP PUMPS, 15 HP Motor, A# 207-2
- 2 – GALIGHER MODEL 6SAA1100X60 SUMP PUMPS, 40 HP Motor
- 1 – SALA TANK PUMP
- 1 – GALIGHER 10 HP SUMP PUMP
- 1 – GALIGHER 6" SPLIT CASING VAC SEAL RUBBER LINED PUMP, No Motor
- 2 – GALIGHER 3" SPLIT CASING VAC SEAL RUBBER LINED PUMPS, 15 HP Motor

Turbo Blowers • Head Cutter and Samplers • Bridge Cranes



BANK OF 10 WEMCO 40-HP FLOTATION CELLS



BANK OF 10 WEMCO 125 HP FLOTATION CELLS



SPENCER MODEL 40250-H TURBO BLOWER

TURBO BLOWERS

- 1 – **SPENCER MODEL 40250-H TURBO** Blower Rated At 250 Hp, 3500 RPM, 3.75 PSIG Inlet Pressure, 9600I CFM, S/N 272442, No Motor
- 3 – **SPENCER MODEL 40250-H TURBO BLOWERS**, Rated At 250 Hp, 3500 RPM, 3.75 PSIG Inlet Pressure, 9600I CFM, S/N 263511, S/N 263510, S/N 274942, 250 HP Motor

HEAD CUTTERS AND SAMPLERS

- 1 – **DORR OLIVER TAIL CROSSCUT**, W/ Sampler
- 1 – **WEMCO TAIL CROSSCUT**, W/ Sampler
- 2 – **HEAD CUTTERS**
- 2 – **SAMPLERS**

- 2 – **SETS PINEAPPLE ADDITIVE TANKS**, Metering Pumps, Controls

BRIDGE CRANES

- 1 – **KRANCO 15 TON X APROX 38' SPAN DOUBLE BEAM TOP RIDING OVERHEAD BRIDGE CRANE**, Radio Controlled
- 1 – **KRANCO 10 TON X APROX 38' SPAN DOUBLE BEAM TOP RIDING OVERHEAD BRIDGE CRANE**, Pendant Controlled
- 1 – **KNAPCO 5 TON CAPACITY DOUBLE BEAM UNDER HUNG BRIDGE CRANE**, Pendant Controlled
- 1 – **HOJ ENGINEERING 5 TON CAPACITY X 30' SPAN DOUBLE BEAM TOP RIDING BRIDGE CRANE**, S/N 27540

FLOTATION LAB EQUIPMENT

- 1 – **TURBULA TYPE T2C LAB SHAKER**, S/N 981045
- 1 – **SEPOR SHATTERBOX**, W/ 4- Sepor Sample Containers
- 1 – **V-TYPE BLENDER**
- 1 – **MSE LAB MILL**
- 1 – **BRAUN TYPE UA LAB PULVERIZER**
- 2 – **VWR SCIENTIFIC DOUBLE DOOR LAB OVENS**
- 1 – **TURBULA TYPE T2C LAB SHAKER**, S/N 891181

ROTARY VANE VACUUM PUMP SETS

- 1 – **ROOTS MODEL 12 X 30 ROTARY VANE VACUUM PUMP SET**, S/N 28486, 4730 SCFM, 22 HG Inlet Vacuum, 1170 RPM, 200 HP Motor, 440/3/60
- 1 – **ROOTS MODEL 12 X 30 ROTARY VANE VACUUM PUMP SET**, Reconditioned 5/94 By Prime Machinery, 4730 SCFM, 22 HG Inlet Vacuum, 1170 RPM, 200 HP Motor, 440/3/60

THICKENER TANK SET

- 1 – **1992 TITAN DUAL 75' DIA. X 13' HEIGHT, 11.277 BBL. THICKENER TANKS**, S/N 89429, Rated Liquid Level 12'6", Design Specific Gravity 1.70, Each W/ 2- 15 HP Transfer Pumps, and Eimco Top Mounted Agitation, 1- 36' X 36' 6345 Bbl. Cap. Thickener Storage Tank, 35' Design Level

PISTON DIAPHRAGM PUMP

- 1 – **GEHO MODEL ZPM-700 200 HP DC PISTON DIAPHRAGM PUMP**, 8" Piston; 300mm Stroke; 50 SPM; 450 Gals/Min; DC Electric Motor, Controls

BARNEYS CANYON MINE SULFIDE PROCESSING FACILITY

TERTIARY CRUSHER

- 1 – **NORDBERG MODEL WF200 37" TERTIARY CRUSHER**, S/N Wf200103, Water Flush With Automatic Hydraulic Tramp, Hydraulic Clamping and Bowl Adjustment System, Package Lubrication System, Siemens 150 HP, 1.15 SF, 480/3/60 Motor, Motor Speed 1800 Rpm, Frame Type 445T

BALL MILLS

- 1 – **MARCY 12.5' X 16' OVERFLOW BALL MILL**, S/N 3025, Eaton Air Clutch, Airflex, Size 42VC/200 145677K, GE 1250 HP Synchronous Motor, 2300 Volt, GE 2300 V Synchronous Motor Starter, Chrome Manganese Steel Liners
- 1 – **ALLIS-CHALMERS 6' X 10' REGRIND BALL MILL**, Overflow Discharge W/Trommel Screen, Falk 2070 YI-S Reducer, 3.64:1 Ratio, Westinghouse 200 HP Motor, 449 TZ Frame, 460/3/60
- 1 – **BALL MILL DISCHARGE PUMP BOX**, 5'-6" Wide X 18'-6" Long X 6'-6" Deep With Tapered Bottom, Fabricated From 1/4" Plate

CYCLONE CLUSTERS

- 1 – **KREBS MODEL DS15LB-1383 3- UNIT PRIMARY CYCLONE CLUSTER**, 1" Gum Rubber Liners, Nihard Vortex Finders, (1) M 1293 Krebs Radial Manifold System, W/1/4" Gum Rubber Lining and Feed Distributor Launderers, 3- Clarkson KGA-6" Knife Gate Valves
- 1 – **A & B MODEL 6C 6" DIA. REGRIND MILL 3- UNIT CYCLONE CLUSTER**, Steel Construction With Fiberglass Housings and Rubber Lined Steel Vortex Finder, Manifold Unit Assembly, Overflow and Underflow Launderers W/ 1/4" Rubber Lining, Clarkson 3" Knife Gate Valves

FLOTATION CELLS AND COLUMNS

- 1 – **ROUGHER FLOTATION COLUMN 9' DIA. X 40' HIGH**, Constructed In Four Flanged Sections From 3/8" And 1/4" Carbon Steel Plate. The Interior Of The Cell And Launder Is Coated With A Rust Inhibitive Primer With An Enamel Finish On All Exterior Surfaces. The Bottom Section Contains The Support Stand And Sparger Tube Inlets, Feed Tonnage: 58.6 Dry STPH, Feed Flow Rate: 765 GPM
- 1 – **WEMCO SCAVENGER FLOTATION CELL BANK, FLOTATOR UNIT #120 COMPRISING OF ONE (1) BANK OF 5 CELLS**, The Cells And Launder Are Fabricated From 3/8" Steel Plate And Rubber Lined (1/4" Thick). Equipped With A Wemco Auto Level Pneumatically Operated Unit. The Rotor Is A Wemco "Star Rotor" Molded Of Solid Elastomer, V-Belt Driven And Capable Of Revolving In Either Direction. Dimensions: Feed Box 6'-6" H X 5'-6" L, Connection Box 7' H X 5'-6" L, Cells 6'-8" H X 5' L, Total Length Of Flotation Unit 46', Motor: Reliance 25 HP @ 1200 RPM, 460/3/60

Flotation Cells and Columns • Disc Filters • Thickeners and Samplers



**NORDBERG MODEL WF200
37" TERTIARY CRUSHER**



ALLIS-CHALMERS 6' X 10' REGRIND BALL MILL



**GEHO MODEL ZPM-700 200 HP DC PISTON
DIAPHRAGM PUMP**

FLOTATION CELLS AND COLUMNS

- 1 – **CLEANER FLOTATION COLUMN**, 5' Dia. X 32' H, The Interior Of The Cell And Launder Is Coated With A Rust Inhibitive Primer With An Enamel Finish On All Exterior Surfaces. The Bottom Section Contains The Support Stand And Sparger Tube Inlets. Feed Tonnage 58.6 Dry Stph, Feed Flow Rate 229 Gpm, Feed Grade 8.79% Sulfide, Feed Percent Solids 28.98%

DISC FILTER

- 1 – **PETERSON 12'6" X 10 DISC GLANDLESS TYPE DISC FILTER**, Auto Adjust 90 Scrapers, 20" Dia. Turn Flow Fabricated Center Shaft, Space Set Sectors W/Cross Linked Polyethylene And Light-Weight Urethane Core Construction, Double 26" Cone Type Valves, W/All Cast Iron Wear Faces And Bridge Pieces W/(2) 10" Vacuum Connections Each, 54" X 72" Model Ur Vacuum Receiver W/10" Tangent Inlets, 19" Top 6" Bottom Connection, Rated At 8500 Cfm, G.E. Amtech Polydyne II 5 HP Motor, TEFC- Service Duty, 230/460/3/60, Nema Model 184 TC Frame, Output Speed 94 To 13 RPM, Agitator Drive: Louis Allis Pacemaker Motor, 3 HP @ 1800 RPM 230/460/3/60, Model 182 T Frame, Duty: 24.6 TPH @ 80% 50 Micron Tailings Filtration Service, Vacuum 20" Hg, Percent Solids 50, Cake Moisture 24-26% @ 24.4 Lbs./Sq.Ft./Hr., Total Filter Area: 2200 Sq. Ft.

THICKENERS AND SAMPLERS

- 1 – **WESTECH MODEL 8044 CONCENTRATE THICKENER**, 20' Dia. X 12' Side Depth, Drive Unit, 3 HP Motor, Rake Arms, Feedwell, Feed Launder, Fasteners, Walkway/Bridge Support, Handrail, All Steel Elevated Tank Complete And Suitable For Accommodating The Thickener Mechanism
- 1 – **WESTECH MODEL 8044 TAILINGS THICKENER**, 35' Dia. X 12' Side Depth, Comprising Of Drive Unit, Motor, Rake Arms, Feedwell, Feed Launder, Fasteners, Walkway/Bridge Support, Handrail, All Steel Elevated Tank Complete And Suitable For Accommodating The Thickener Mechanism
- 1 – **HEATH & SHERWOOD LSA MODEL 5650-3100-FL 6" FIXED CUTTER SLURRY SAMPLER**, Mild Steel Body W/Abrasion Resistant Sample Discharge, Cutter And Hard-Surfaced Cutting Edges, Some Areas Rubber Lined With 1/4" Thick Natural Rubber
- 1 – **HEATH & SHERWOOD MODEL 1850-3200 MOVING INLET SAMPLER**. Designed To Move A Flexible Hose Over A Fixed Cutter. Mild Steel Body W/Abrasion Resistant Cutter Blade, 60 Deg. Discharge Slope, Adjustable Stainless Steel Cutter Blades, Some Areas Rubber Lined With 1/4" Thick Natural Rubber

THICKENERS AND SAMPLERS

- 1 – **HEATH & SHERWOOD MODEL 1860-3200 SAMPLER**, 60 Degree Cutter Designed To Move A Flexible Inlet Hose Over A Fixed Cutter. Mild Steel Body, 3" Nominal Victaulic Inlet, 60 Degree Discharge Slope W/Adjustable Stainless Steel Cutter Blades, Some Areas Rubber Lined With 1/4" Thick Natural Rubber
- 1 – **HEATH & SHERWOOD LSA MODEL 5650-3100-FL 6" FIXED CUTTER SAMPLER**, Mild Steel Body W/Abrasion Resistant Sample Discharge And Cutter And Hard-Surfaced Cutting Edges
- 1 – **HEATH & SHERWOOD MODEL 1850-3200 MOVING INLET SAMPLER**, Designed To Move A Flexible Hose Over A Fixed Cutter. Mild Steel Body W/Abrasion Resistant Cutter Blade, 60 Degree Discharge Slope, Adjustable Stainless Steel Cutter Blades, Some Areas Rubber Lined With 1/4" Thick Natural Rubber
- 1 – **HEATH & SHERWOOD MODEL 1870-3200 SLURRY SAMPLER**, 60 Degree Cutter, Designed To Move A Flexible Inlet Hose Via A Horizontally Mounted Air Cylinder, Mild Steel Body, 4" Nominal Victaulic Inlet, 60 Degree Discharge Slope, Adjustable Stainless Steel Cutter Blades, Some Areas Rubber Lined With 1/4" Thick Natural Rubber
- 1 – **EMI MODEL RG-4 MIXER, NEMA FLANGED TYPE MOTOR**, Gear And Pinion Rated For 4.5 HP @ 400 RPM Output Speed, 1" Dia. X 42" Long 316 SS Shaft, 12" Dual Impellers, Standard 3 Blade, Square Pitch Marine Type Propeller, 3/4 HP @ 1750 RPM Motor, 460/3/60, Propeller Speed: 400 RPM

AGITATORS

- 2 – **WARMAN MODEL AG1800R1C TOP ENTRY AGITATORS**, Each C/O: Falk Model 500MDXD2, Ratio 31.30:1, Spiral Bevel Gear Reducer Rated At 39,200 In-Lbs Torque, 34.9 HP At 1750 Input RPM, Adapter Base, Overhead Motor Mount Adapter, V-Belt Drive, Rigid Half Coupling Mounted On Low Speed Shaft, Reliance Model TEFC-XEX 15 HP Motor, 460/3/60, Type F Insulation, Severe Duty Motor, 254T Frame, 6" Diameter X 12' Long Schedule 40 Tubular Carbon Steel Shaft, One Piece Design, (2) Per Shaft, Warman Model Af1800 High Efficiency Airfoil Propeller, 71" Diameter, Operates At 43 RPM, Propellers Are Carbon Steel, Rubber Covered, Tip Speed: 800 FPM, Power Draw: 10.33 HP

AGITATORS

- 1 – **LIGHTNIN MODEL 783-Q-150 RIGHT ANGLE TANK AGITATOR**, Rated At 710,000 In Lbs Torque, Reliance Model Tefc-Xext 150 HP Motor, 1750 RPM, 460/3/, 12" Diameter X 39' Long Schedule 80 Tubular Carbon Steel Shaft, Two Piece Design, 2- Per Shaft, Lightnin Model A310 Propeller, 186" Dia. Upper Propeller, 202" Dia. Lower Propeller, Operating At 19 RPM

BLOWERS AND VACUUM PUMPS

- 1 – **ROOTS MODEL 12 X 30 RCV-2 ROTARY VANE VACUUM PUMP SET**, S/N 33582, 4730 Scfm, 22 HG Inlet Vacuum, Ge 500 HP, 1185 RPM, 4160 Volts Motor
- 1 – **NASH MODEL 904 S3 TAILS VACUUM PUMP**, Vacuum: 22" Hg @ 6100', Manifold (Inlet & Outlet), 20" Dia. W/ANSI B16.5, Class 150 Slip On Flanges, No Motor

Pumps • Lime Silo and Equipment • Rotary Screw Air Compressors



LIGHTNIN MODEL 783-Q-150 RIGHT ANGLE TANK AGITATOR



GARDNER DENVER MODEL ST-150 150 HP ELECTRA SAVER II ROTARY SCREW AIR COMPRESSOR



FILTREX STEELCRAFT 75 HP DUST COLLECTOR SYSTEMS

BLOWERS AND VACUUM PUMPS

- 1 – PETERSON "SYNCR O BLOW" BLOWER, 3025 HM Spencer Centrifugal Rated. 1000 CFM @ 3 PSI, Motor: 25 HP @ 3600 RPM, 230/460/3/60, Inlet Filter Silencer, Inlet & Outlet Adapters W/Flex Connectors & Blast Type Gate Valve, Timing Mechanism W/(2) 4" Butterfly Valves, W/Actuators

PUMPS

- 2 – GALIGHER MODEL 3 SH2-5100 VERTICAL SUMP PUMPS, 9.75 BHP, Pump Speed: 750 RPM, Design Flow, 250 GPM, Motor 7.5 HP @ 1750 RPM, 460/3/60
- 14 – DENVER SRL-90 4" X 3" X 10.5"- 8" X 6" X 16" 10-100HP SOFT RUBBER LINED FEED PUMPS @ 1800 RPM Motor, 460/3/60
- 8 – GALIGHER MODEL 3 SH2-5100 VERTICAL PUMPS, Design Flow: 150-250 Gpm, 7.5-15HP @ 750-1750 RPM Motor, 460/3/60
- 2 – WAUKESHA/BREDEL MODEL SP50 2" U/FLOW PUMPS, Rubber Lined, 3 HP @ 1800 RPM Motor, 460/3/60
- 6 – ITT A-C MODEL 175 2" X 1" X 10" AND 6" X 4" X 13" WATER PUMPS, 15-60HP @ 1800 RPM Motor, 460/3/60
- 7 – LMI MODEL B721-925 METERING PUMPS, Automatic Pacing From 4-20 MA Signal, Design Flow: 0-25 GPH @ 100 PSI, Strokes/Min: 100, 120/1/60
- 2 – DURIRON MODEL 1K1.5X1-62RV MILK OF LIME PUMPS, 5 HP @ 3600 RPM Motor, 460/3/60

LIME SILO AND EQUIPMENT

- 1 – LIME SILO, Carbon Steel, Camlok Fitting And Slide Gate Valve, (1) Micropulsair Baghouse, Model 165-8-B With Bags And Bag Grid, Knappco Model 1110202 20" Dia. Pressure/Vacuum Relief Manhole, Live Capacity: 20 Tons
- 1 – LIME SCREW FEEDER, 12' Long X 4" Dia. Screw, 1/4 HP @ 1800 RPM Motor, 460/3/60, Feed Rate: 5 Lbs./Min.
- 1 – KNAPPCO MODEL 1110202 LIME SILO 4" FEED PIPE W/CAMLOK FITTING AND 12" DIA. MANUAL SLIM SLIDE "ROTOLOK" GATE VALVE MODEL # L-30490, Micropulsaire Model 165-10-30-B Baghouse, Bag Grid, Timer and Nema 4 Box W/A 20" Dia. Pressure/Vacuum Relief Manhole, Live Capacity 100 Tons
- 1 – 1400 LBS/HR LIME ADDITION FEEDER
- 1 – 4' HIGH X 4'-10" DIAMETER CARBON STEEL FABRICATED LIME MIX TANK, 450 Gallon Capacity

STORAGE TANKS

- 1 – 3000 TON COARSE ORE STORAGE BIN, 55' Dia X 73' Height, 3/8" Steel Plate Construction
- 1 – 8' DIAMETER X 8' HIGH CARBON STEEL ROUGHER FLOTATION FEED CONDITIONING TANK, 2800 Gallon Capacity
- 1 – 19'-6" DIAMETER X 10' HIGH CARBON STEEL RECYCLE WATER TANK, 22000 Gallon Capacity
- 2 – CONCENTRATE STORAGE TANKS, 15' Diameter X 18'-4" High, Carbon Steel, 24000 Gallon Capacity
- 1 – 16' HIGH X 4' WIDE X 18' LONG CARBON STEEL COLLECTOR MIX TANK, 8000 Gallon Capacity

STORAGE TANKS

- 1 – 45' DIAMETER X 45' HIGH FLOTATION TAILS STORAGE TANK, Fabricated From 1/2" and 3/8" Plate, 530,000 Gallon Capacity

BRIDGE CRANES AND HOISTS

- 1 – KRANCO 10 TON X 60' SPAN TOP RIDING BRIDGE CRANE, Radio Controlled
- 1 – YALE MODEL CEW2-92-PT-30S2 2 TON ELECTRIC HOIST, Single Speed
- 1 – YALE MODEL CEW2-92-PT-30S2 2 TON ELECTRIC FILTER BUILDING HOIST

CONVEYORS

- 1 – 24" X 233' CRUSHER FEED CONVEYOR, Rated At 75 TPH, 100 FPM, 15 HP Motor, 440/3/60
- 1 – ERIEZ MODEL 7230-MC SUSPENDED TRAMP IRON MAGNET, 30" X 30" X 17"
- 1 – RAMSEY MODEL 10-22-2 BELT SCALE, Accuracy Of +0.5%, Unit Designed For Use On 24" Belt Conveyor And Furnished With Honeywell 10" Chart Recorder

ROTARY SCREW AIR COMPRESSORS

Rotary Screw Air Compressors available at all sites

- 8 – INGERSOLL RAND ROTARY SCREW AIR COMPRESSORS
- 1 – ROCK HOOK, CRANE SUSPENDED TYPE, Electric Pendant Controlled
- 4 – FILTREX STEELCRAFT 75 HP DUST COLLECTOR SYSTEMS
- 3 – SULLAIR ROTARY SCREW AIR COMPRESSORS
- 1 – GARDNER DENVER MODEL ST-150 150 HP ELECTRA SAVER II ROTARY SCREW AIR COMPRESSOR, S/N N12114, 520 CFM @ 125 PSIG, 440/3/60
- 1 – 1040 GALLON MODEL 92-48-1040-150 ASME CERTIFIED AIR RECEIVER TANK, Mild Carbon Steel Construction, 150 PSI Working Pressure
- 1 – 80 GALLON MODEL 92-24-125-150 ASME APPROVED AIR RECEIVER, 0-200 PSI

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