FLOWSHEET

GRANTS URANIUM MILL

GRANTS, NEW MEXICO

Sandstone Ore
2-100 Ton Truck Scales
Moisture Sample
16-1000 Ton Ore Pockets
4 1/2 yd Front End Loader
50 Ton Ore Pocket with 20" Grizzly
48"X 18' 6" Denver Apron Ore Feeder
42" X 5' Symons Vibrating Bar Grizzly
-4" Material
+4" Material
25"X 42" Denver Jaw Crusher
4" Setting
No 1 Conveyor-36"
Dings 30" Rectangular Magnet
2- 6'X14' Taylor Vibrating Screens
-1" Material
+1" Material
No 3 Conveyor-30"
2-30"X 42" Cedar Rapids Impact Crushers
Nos 2A-2B Conveyors-24"
Sampling Plant
Geary-Jennings Sampler
10% Cut
90%
Tyler 4'X 10' Vibrating Screen
+1/2" Material
-1/2" Material
Pennsylvania Impact Crusher
No 4 Conveyor-30"
Hewitt Robins Tripper
Fine Ore Bins- 5000 Tons Capacity
6-Stephens-Adamson Belt Feeders, 60" Wide
Nos 7A & 7B Conveyors-24"
Geary-Jennings Sampler
10%
90%
Bucket Elevator
16"X 10" Rolls 3/16" Setting
10"X 6" Rolls 1/8" Setting
Geary-Jennings Sampler
10%
90%
10-25%
75-90%
100 lb. Min.
2-IDENTICAL CIRCUITS "A" & "B"
Conveyotio Scale
Marcy 9'X12' Open End Rod Mill
Overflow -28 Mesh
4" Wilfley Model K Sand Pump
Denver Sampler
14-13'X14' Rubber Lined Leach Tanks
No 2 Thickener Overflow
4" Wilfley Model K Sand Pump
2 Krebs Model D-20B Cyclones
Size Reduction And Cut For Production of 6 Ounce Samples of -120 Mesh Material
Overflow
6" Wilfley Model K Acid Sludge Pump
Underflow
5-6'X33' Dorr Rake Classifiers in Series
Overflow
3" Wilfley Model K Acid Sludge Pump
Sands
Sampler
Mixing Tank
2-8" Wilfley Model K Sand Pumps
Tailings Ponds
0.03% Separan Solution as Needed
Heap Leach Solution Intermittent
6 Eimco or 6 Dorr 120' Thickeners in CCD Series
Overflow
6" Wilfley Model K Acid Sludge Pump
Underflow
3-6" Dorrco Duplex Diaphragm Pumps
Sampler
5" Wilfley Model K Sand Pumps
1X Plant
Eimco 60'X 20' Reactor-Clarifier
Underflow
Overflow
6" Wilfley Model AF Pump
CIRCUITS JOIN
6 US Auto-Jet Pressure Filters
Filtrate
Solids
2-52'X 20' Clarified Solution Surge Tank
Sump Pump
Thickener 3A or 2B
6" Worthington CNGL Pump
IDENTICAL CIRCUITS A & B
4-40'X9' Wooden 5-X Integrated Mixer Settler Tanks
Barren Raffinate
Denver Sampler
2-6" Worthington CNGL No 104 Pumps
67'X 14' Concrete A.P.I. Settler
Raffinate
65'X9' Holding Tank
2-6" Worthington CNGL Pumps
Tails, Thickener, & Classifer Wash
Reclaimed Organic
Pump
Loaded Solvent
4" Galigher Acid Proof Sump Pump
Wooden 12'X 12' Pregnant Organic Settler Tank
Water
Brine
Yellowcake Filtrate
Moly Barren Filtrate
4 Stripping Units, Each Consisting of a Wooden 8'X9' Strip Mixer & a Wooden 22'X 8' Strip Settler
Pregnant Strip Solution
2-1 1/2" Galigher Acid Proof Sump Pumps
CIRCUITS JOIN
20'X20' Wooden Surge Tank
4-8'X12'9" Wooden Precipitation Tanks in Series
Barren Solvent
5" Wilfley Model AF Pump
8'X9' Wooden Mo Strip Mixer
15'X4' Steel Mo Strip Settler, Cone Bottom
Underflow
1 1/2" Worthington CNB-52 Pumps
To Mo Recovery Circuit
Overflow Solvent
30'X7' Wooden Barren Solvent Surge Tank
5" Wilfley Model AF Pumps
Pump
45'X12' Yellowcake Thickener
Overflow
1 1/2" Worthite CNG Pump
42" US Auto-Jet Filter
Filter Cake
Repulp Tank
Pump
Filtrate
Tails & U_3O_8 Strip
Underflow
No 2 ODS Pump
3-6'X8' Eimco Drum Filters in Series
Filtrate
3/4" Worthington CNGE Pumps
Filter Cake
6 Unit, 8' Proctor Schwartz Drier
Screw Conveyor
Denver 10"X 6" Type M Rolls
Screw Conveyor
Cleveland Model CVT-30-4 Barrel Packers
55 Gallon Steel Barrels
Scales
Truck

KERR McGEE

June 9, 1967

D-1