

4370 0028

July 3 DAYTON CONSOLIDATED MILL(309)
item 75

Custom milling. 90% Au and 85% Ag if good extraction. Lime consumption about 10# per ton and 3# per ton white NaCN or 6# 50% CaCN black cyanide (looks like black paint - Niagara Falls - may be same used at other mills visited). \$10.00 sampling charge for lots less than 15 tons. \$4.00 per ton milling charge. Ore also from New York shaft of Dayton Cons. Co. 200-ton mill. PbO added with cyanide to counteract soluble sulphides. Zeb Kendall's concentrates added directly to Pebble Mill. Tails now running about \$1.00.

FLOW SHEET - DAYTON CONSOLIDATED MILL
Bud Bacon (U.N.) Analyst.

Jaw crusher			
Gyratory			
Bucket sampler			
Vezin			
Jones Splitter			Mill Solution
Bin			
Ball Mill	Rake Classifier (Frenier Pump)		
Jig	Pebble Mill	Rake Classifier (-60)	
Table	No.1 Thick.	No.2 Thick.	Ca(CN)
		No.3	
Bullion Furnace	3 agitators in series		
Preg. solution			
Clarifier	No. 3 Thickener		
Vac. Tank			
Zn dust	No.4-No.5 Agitator series		
	CaCN		
2 Presses	Barren	No.4-No.5 Thickeners series	
Bullion furnace			
	2 Oliver Drum Filters	Parallel	
	Tails		

Two drum filters can be run in series for repulping if necessary.

July 3 CON CHOLLAR COALITION (Overman) Silver City.

F. V. Dempsey, Manager.
Mr. Powell, Mill Superintendent

Nevada Rock & Sand stripping and hauling ore to bin for \$1.10 to \$1.20 per ton of ore. Stripping 90' overburden. 480 tons ore per day to mill. Will mine open cut to 400 level. 15 yrs. ore in pit. Mine (2 shafts) not working for 10 months - deepest level to 1100 ft. (500' above Sutro Tunnel). Good ore on 300 & 1100' levels. Heads run \$8.00-\$10.00 and 22.4% overall recovery; 00.7% recovery on conc. treatment. Cost of water is 10¢ per ton ore milled. Water from Marlett Lake. Power cost about 15-20¢ per ton milled. Total mining and milling cost, \$2.20 per ton. 91¢ per ton milling cost. 43¢ per ton overall tailing.

680# CaO per shift, 0.5# NaCN per ton, 20# PbO per shift for soluble sulphides. Solution 0.5# CaO, 1.1# NaCN. These reagents added to ball mill feed. CaO in solution added to feed - can be regulated by different sized holes.

FLOW SHEET - CON CHOLLAR COALITION

Jaw	\$2.00 pregnant solution, \$15,000 every 4 days bullion		
Screen			
T-Y Gyratory	Barren Sol.	Clarifier	
		Vac. tank	
		Presses	
Ball Mill	Rake Class.	Thickener	
		Bullion Furnace	
6 tables (conc.)	Tails & mids.	3 Agitators in series	
2 cleaner tables	Tails & mids.	Dorr Bowl	slime
		Sand	
Conc.		3 1250-ton Leach tanks	5 thickeners
Pebble Mill	Dorr bowl		2 Oliver Drum Filters
		Tails	
		Mill Solution	Tails

Nevada Rock & Sand Co. contracting mining, hauling and crushing @ 75¢ per ton. Use 1/2-yd. V-B shovel (run by truck driver) and 6-ton truck to get 150 tons a day. Haul to 8" grizzly. One man on grizzly and one on crusher. Portable crushing unit - Symons screen and cone crusher run by diesel - also belts (conveyor). Belt driven. Bin is in an old dump. Adit spiled in from mill and one drawn through cone in waste. Typical structure of Comstock faulting seen in cut above road where fault dips west at surface (due to creep) then at depth turns and dips east. Ore oxidized and not so good for flotation, but mill bought for \$7,000 and no investment for crushing or bins. 75% extraction made on \$3.50 heads. Concentrates run around 4.40 oz. Au - 30 oz. silver. \$4.00 per ton milling cost of concentrates at Dayton mill where 90% Au and 85% Ag paid.

FLOW SHEET - CON VIRGINIA MILL

8" Grizzly

Gyratory

Screen

Bin

Ball mill

Drag Classifier

6 Denver "Sub A" cells

Screen Trommel

6 Kraut cells

Tails

Gold trap (Hydraulic)

Unit cell

Mid. to settling pans
for shipment to Dayton

Amalgam. barrel

Conc

Reagents:- Aerofloat 208, 31; 2-6; Crysillie Acid; Pine Oil.