



Water

Yesterday's Successes and Tomorrow's Challenges

Cobre Valley Water - Small Town Forum

September 6, 2018

Facility Background

➤ Land Management

- >10 sq. mi. private land in the Pinto Creek watershed
- 460 unpatented mining claims on public land (Tonto National Forest)
- Centered over copper porphyry deposit with oxide cap

➤ Mining

- Late 1800's – First known mining on Porphyry Mountain, no onsite processing
- 1943 to 1953 – Castle Dome Underground Mine with onsite concentrator
- 1975 to Present – Pinto Valley Open Pit Mine with onsite concentrator
- 1981 to Present – Oxide leaching with onsite SX-EW plant

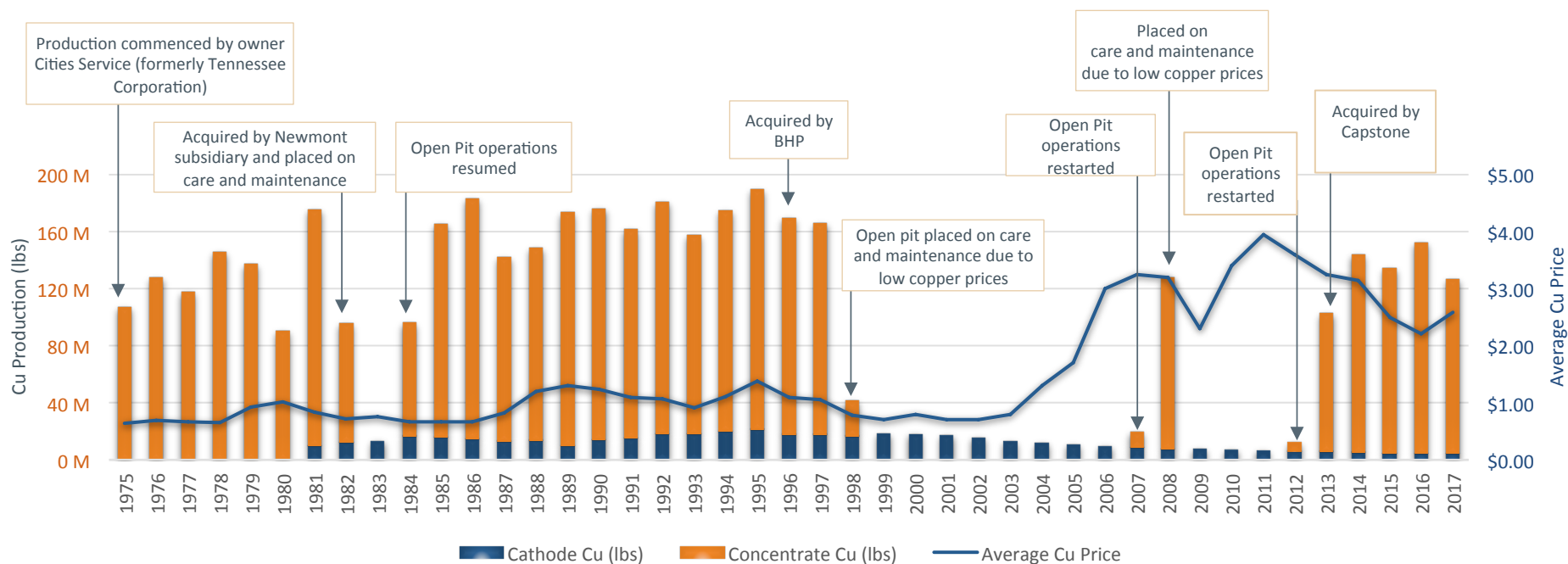
➤ Workforce

- 567 full-time employees
- ~50 full-time contractors

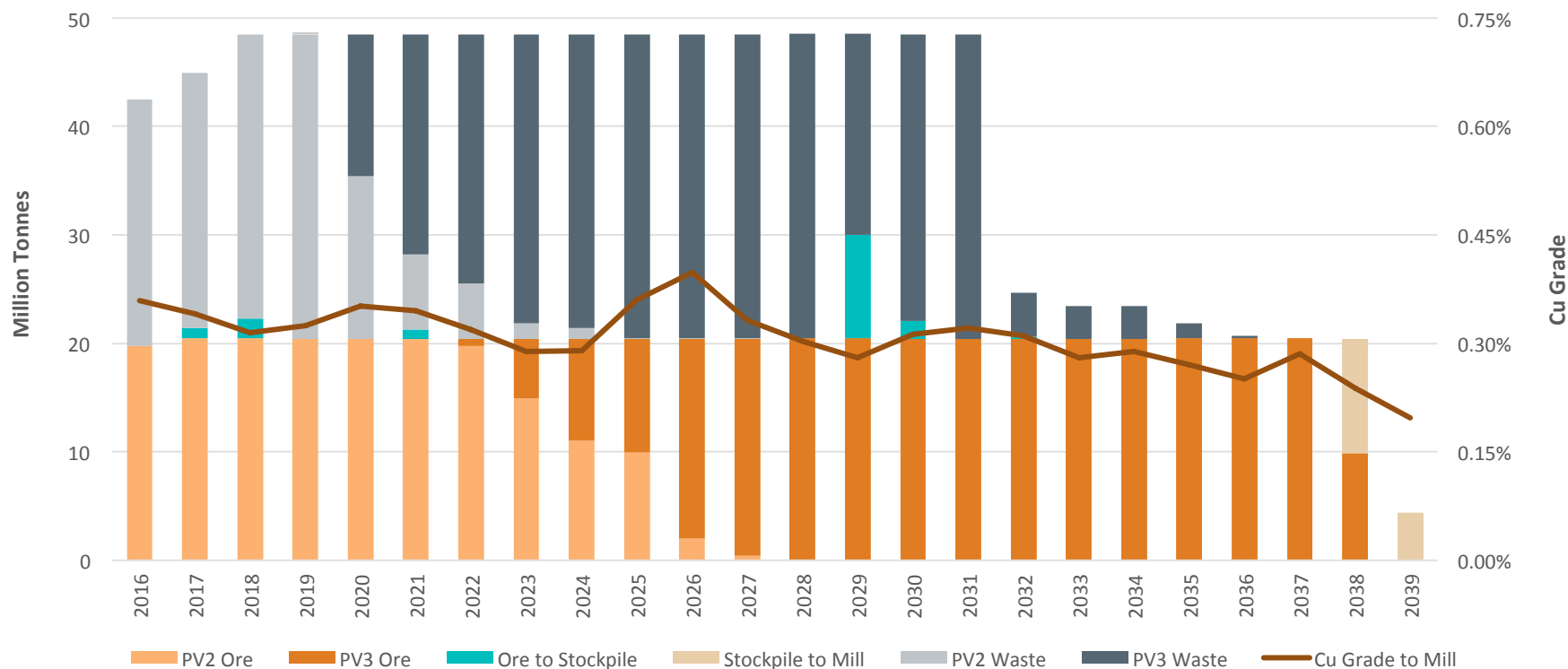
➤ Throughput and Production

- 58,000 tons – Average daily
- 126.3M Pounds of copper produced in 2017
- >4B Pounds of copper produced from Open Pit since 1975

Operational History



Mine Life to 2039



Yesterday's Water Successes

➤ Water Supply

- Reliable Wellfield
- Functional Pit Dewatering System

➤ Water Storage and Transportation

- 3 Reservoirs
- 3 ADWR Permitted Dams
- Numerous Storage Tanks - Service Water, Fire Water, Potable Water
- >50 mi. Water Pipelines

➤ Water Conservation

- +/- 56% Tailings Thickener Density
- Effective Tailings Water Reclaim System
- Network of Catchments and Pump Back Systems for Surface and Process Water
- Recent Strides in Dust Control

Water Supply Systems



Tomorrow's Water Challenges

- Adequacy and Sustainability of Water Supply
 - Partial Reliance on Surface Water
 - Backup Potable Water Supply
 - Storage and Surge Capacity

- Aging Infrastructure
 - Pipeline Maintenance
 - Wellfield Maintenance

- Closure, Reclamation and Contingency Planning
 - Dump and Tailings Draindown
 - Wastewater and Groundwater Treatment Capacity
 - Fire, Vandalism, Sabotage

- Competition for Finite Resource
 - Water Rights Adjudication



For additional information:

Timothy Ralston

Superintendent, External Affairs

2911 N. Forest Road 287

Miami, AZ 85118

Phone: 928-812-1761

Email: tralston@pintovalleymining.com