

Ray Complex- Ray and Hayden Operations



Operational Highlights

Process Operations: Large open-pit mine; two concentrators; a leach-solvent extraction-electrowinning plant; an INCO Oxygen Flash Smelter, oxygen plant and a metallurgical acid plant.

Location: 64 miles southeast of Phoenix; 70 miles northeast of Tucson; smelter 18 miles southeast of mine. (Pinal and Gila Counties)

December 31, 2012 Employment :

Total: 1403 employees; 1128 hourly / 275 salaried.

Economic Impacts

2012 Wages, salaries and fringe benefits:
\$140.8 million

2012 Property, severance and sales taxes:
\$ 28.6 million

2012 Total materials and other spending (energy, fuel and supplies): \$ 347.5 million

2011 Wages, salaries and fringe benefits:
\$ 138.5 million

2011 Property, severance and sales taxes:
\$ 25.8 million

2011 Total materials and other spending (energy, fuel and supplies): \$ 345.8 million

Milestones:

1983-
Smelter Modernization—INCO Oxygen Flash Smelter Commissioned

1986-
Ray Mines Division purchased from Kennecott Copper Corporation

1992-
Ray Concentrator Commissioned; Expansion of Ray Mine completed

2044-
Reserve life of Ray Mine

Production Statistics

Copper in SX-EW Cathode:

73.7 million lbs. (2012)

84.8 million lbs. (2011)

Copper in Anodes:

318.1 million lbs. (2012)

314.3 million lbs. (2011)

Sulfuric Acid:

577.8K short tons (2012)

550.6K short tons (2011)

Society Infrastructure Needs Copper

Refined copper uses include: household wiring, plumbing and appliances, consumer electronics, industrial motors and transformers, automotive, medical equipment and power generation and transmission.

Address:

Mine: 27809 Mineral Creek Road • Kearny, AZ 85137

Smelter: 6094 North Asarco Road • Hayden, AZ 85135

For more information contact Thomas L. Aldrich, V.P. Environmental Affairs at 520-798-7749; Email: taldrich@asarco.com

Mission Complex



Operational Highlights

Process Operations: Integrated mine composed of five open-pit properties; North and South Mills with crushing, grinding and froth flotation facilities.

Location: 18 miles south of Tucson. (Pima County)

December 31, 2012 Employment:
Total: 620 employees; 503 hourly / 117 salaried.

Economic Impacts

2012 Wages, salaries and fringe benefits:
\$ 58.4 million

2012 Property, severance and sales taxes:
\$13.2 million

2012 Total materials and other spending (energy, fuel and supplies): \$156.7 million

2012 Royalties - State: \$ 6.6 million

2012 Royalties- Tribe: \$ 2.5 million

2011 Wages, salaries and fringe benefits:
\$ 55.4 million

2011 Property, severance and sales taxes:
\$12.0 million

2011 Total materials and other spending (energy, fuel and supplies): \$147.2 million

2011 Royalties - State: \$ 23.9 million

2011 Royalties- Tribe: \$10.8 million

Milestones:

1991-
Refurbishing and new construction of South Mill

1995-
Secondary crusher modifications and DCS installed in Mission Mill

2009-2011
Reclamation of Tailings Dams 1-3 and Mission North Dump

2033-
Reserve life of Mission Complex

Production Statistics

Copper in Concentrate:

134.3 million lbs. (2012)

145.5 million lbs. (2011)

Pumping System installed in January 2009 to utilize CAP water.

Mine utilizes biosolids from Pima County Green Valley Wastewater treatment plant.

Society Infrastructure Needs Copper

Refined copper uses include: household wiring, plumbing and appliances, consumer electronics, industrial motors and transformers, automotive, medical equipment and power generation and transmission.

Address:
4201 West Pima Mine Road • Sahuarita, AZ 85629

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Silver Bell Mine



Operational Highlights

Process Operations: Mine composed of four open-pits (North Silver Bell, El Tiro, West Oxide and Oxide); leach- solvent extraction-electrowinning facilities.

Location: 35 miles west-northwest of Tucson; 23 miles west of Interstate 10 on Avra Valley Road. (Pima County)

December 31, 2012 Employment :

Total: 175 employees; 138 hourly / 37 salaried.

Economic Impacts

2012 Wages, salaries and fringe benefits:
\$ 16.6 million

2012 Property, severance and sales taxes:
\$ 5.4 million

2012 Total materials and other spending
(energy, fuel and supplies): \$ 48.4 million

2011 Wages, salaries and fringe benefits:
\$ 15.0 million

2011 Property, severance and sales taxes:
\$ 4.7 million

2011 Total materials and other spending
(energy, fuel and supplies): \$ 46.0 million

Milestones:

1951-
Stripping begins at El Tiro and Oxide Pits

1995-
Silver Bell Mining LLC partnership formed
(75% Asarco, 25% Mitsui)

1997-
Cathode production begins in July

2031-
Reserve life of Silver Bell Mine

Production Statistics

Copper in SX-EW Cathode:

45.9 million lbs. (2012)

46.8 million lbs. (2011)

Society Infrastructure Needs Copper

Refined copper uses include: household wiring, plumbing and appliances, consumer electronics, industrial motors and transformers, automotive, medical equipment and power generation and transmission.

Address:
25000 West Avra Valley Road • Marana, AZ 85653

For more information contact Thomas L. Aldrich, V.P. Environmental Affairs at 520-798-7749; Email: taldrich@asarco.com