

TSX: FVI CA \$4.21 NYSE: FSM

US \$4.08

- [Home](#)
- [Newsroom](#)
- [Contact](#)
- [Careers](#)
- [About Fortuna](#)
 - [Corporate Profile](#)
 - [Vision, Mission and Values](#)
 - [Management](#)
 - [Board of Directors](#)
 - [Corporate Governance](#)
 - [Corporate Directory](#)
 - [Qualified Person](#)
- [Silver Mines](#)
 - [Overview](#)
 - [Caylloma Mine, Peru](#)
 - [San Jose Mine, Mexico](#)
 - [Photo Gallery](#)
 - [NI 43-101 Reserves and Resources](#)
- [Investors](#)
 - [Stock Information](#)
 - [Investment Highlights](#)
 - [News Releases](#)
 - [Annual Reports](#)
 - [Financial Reports](#)
 - [Presentations & Interviews](#)
 - [Videos](#)
 - [Institutional Coverage](#)
 - [About Silver](#)
 - [Events Calendar](#)
- [Sustainability](#)
 - [Overview](#)
 - [Our Commitments](#)
 - [Health & Safety](#)
 - [Environment](#)
 - [Case Study](#)
 - [Community Engagement](#)
 - [Health & Nutrition](#)
 - [Education](#)
 - [Economic Development](#)

Mines & Projects

- [Overview](#)
- [Caylloma Mine, Peru](#)
- [San Jose Mine, Mexico](#)
- [Photo Gallery](#)
- [NI 43-101 Reserves and Resources](#)

Caylloma Mine, Peru

Overview

Commodities	Silver, gold, zinc, lead
Location	Arequipa, Peru (Latitude: 15° 13" S, Longitude: 71° 49" W)
Ownership	100%
Deposit type	Intermediate-sulfidation epithermal deposit

Status

- Mine and mill operating at 1,300 tpd
- Exploration underway for high-grade silver veins on 31,200 ha land package

2012 Production

Silver	2,038,579 ounces
Gold	2,781 ounces
Lead	17,886,403 pounds
Zinc	22,395,791 pounds

The silver- and base metal-rich epithermal deposits of the Caylloma Mining District of southern Peru have been mined intermittently since the start of the Spanish colonial period. Located within one of the most important metallogenic provinces of the Andes, past production is estimated at more than 200 million ounces of silver.

Fortuna Silver purchased a 100% interest in the Caylloma Mine and related mining concessions in 2005. Following significant expansion and modernization of the mill, the mine was brought back into production in October 2006. The mine and processing plan are currently producing 1,300 tpd.

Production is sourced primarily from the silver-polymetallic Animas vein (80%), with the balance from the Bateas and Soledad veins. Exploration of the Caylloma Property is ongoing, with expansion of the existing reserve and resource base the main focus.

Location

The Caylloma Mine is located 225 kilometers (approximately 4 hour drive northwest) of Arequipa, Peru in mountainous highlands at an elevation of 4,500 meters above sea level. The mine, processing plant and related infrastructure are located in the Caylloma Mining District, 14 kilometers northwest of the town of Caylloma. The mine is connected to the national power grid and water is locally available.

[\(see Reserves and Resources Tables\)](#)

Property	Classification	Mineral Reserves - Proven and Probable					Contained Metal	
		Tonnes (000)	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Ag (Moz)	Au (koz)
Caylloma, Peru								
Silver Veins	Proven	26	687	0.28	0.32	0.32	0.6	0.2
	Probable	755	365	0.42	0.06	0.06	8.9	10.3
	Proven + Probable	781	376	0.42	0.07	0.07	9.4	10.5
Polymetallic Veins	Proven	1,318	87	0.32	1.59	2.39	3.7	13.5
	Probable	2,543	86	0.31	1.58	2.27	7.1	25.5
	Proven + Probable	3,861	86	0.31	1.59	2.31	10.7	39.0
Combined-All Veins	Proven	1,344	98	0.32	1.57	2.35	4.2	13.7
	Probable	3,297	150	0.34	1.23	1.76	15.9	35.8
	Proven + Probable	4,642	135	0.33	1.33	1.93	20.2	49.5

Property	Classification	Mineral Resources - Measured and Indicated					Contained Metal	
		Tonnes (000)	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Ag (Moz)	Au (koz)
Caylloma, Peru								
Caylloma, Peru	Measured	574	100	0.31	1.17	1.75	1.8	5.8
	Indicated	1,684	131	0.30	0.74	1.11	7.1	16.0
	Measured + Indicated	2,258	123	0.30	0.85	1.28	8.9	21.8

Property	Classification	Mineral Resources - Inferred					Contained Metal	
		Tonnes (000)	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Ag (Moz)	Au (koz)
Caylloma, Peru	Inferred	3,258	112	0.36	0.99	1.50	11.8	37.9

1. Mineral Reserves and Mineral Resources are as defined by CIM Definition Standards on Mineral Resources and Mineral Reserves
2. Mineral Resources are exclusive of Mineral Reserves
3. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability
4. Caylloma Mineral Resources and Mineral Reserves are estimated as of June 30, 2011 and reported as of Dec. 31, 2011 taking into account production-related depletion for the period of July 1, 2011 through Dec. 31, 2011
5. Caylloma Mineral Reserves are estimated using break-even cut-off grades based on estimated NSR values using assumed metal prices of US\$26.59/ oz Ag, US\$1,279.31/oz Au, US\$2,116/t Pb and US\$2,028/t Zn; historical metallurgical recovery rates of 82% for Ag, 45% for Au, 93% for Pb and 88% for Zn; and historic operating costs adjusted for inflation. Caylloma Mineral Resources are reported based on estimated NSR values using the aforementioned assumed metal prices and metallurgical recovery rates and a cut-off value of US\$30/t
6. Caylloma Mineral Resources include oxide material that is not amenable to processing in the existing flotation plant. Measured and Indicated Oxide Resources are estimated at 1,077,000 tonnes averaging 197 g/t Ag, 0.39 g/t Au, 1.00% Pb and 1.28% Zn. Inferred Oxide Resources are estimated at 544,000 tonnes averaging 143 g/t Ag, 0.27 g/t Au, 0.55% Pb and 0.94% Zn
9. Totals may not add due to rounding procedures
10. N/A = Not Applicable

Geology and Mineralization

The silver-base metal rich epithermal vein deposits of the Caylloma Mining District are hosted by Tertiary calc-alkaline andesitic pyroclastic tuffs and tuff breccias, flows and laharic deposits that unconformably overlie a folded marine sequence of quartzite, shale and limestone of the Jurassic Yura Group. More than 15 major mineralized veins have been identified within the district with the veins typically trending northeasterly and dipping moderately to steeply to the southeast or northwest.

The veins range from 1 to 25 meters in width and range up to 4 kilometers in length. Ore grade shoots are generally subvertical in orientation within the plane of the vein, having lengths of tens to hundreds of meters and extending to more than 300 meters in a downdip direction. Principal ore minerals include sphalerite, galena, chalcopyrite and tetrahedrite with subordinate polybasite, stephanite, argentite, native silver, pyrargyrite, miargyrite, chalcocite, native gold, and other Pb and Ag sulfosalts. Principal gangue minerals are quartz, manganese-rich silicates (dominantly rhodonite), rhodocrosite, and calcite with variable quantities of adularia, illite and barite present locally (Echavarria et al, 2006)

Maps & Sections

Animas & Nancy Vein Drill Hole Location Map Animas Vein Longitudinal Section Isovalues Ag (g/t) Nancy Vein Longitudinal Section Isovalues Ag (g/t) Cerro Vilafro Map Bateas Vein Drill Hole Location Map Bateas Vein Longitudinal Section

- [Follow us on Twitter](#)
- [Subscribe to RSS Feed](#)
- [Subscribe to Email Updates](#)

© Fortuna Silver Mines Inc. All Rights Reserved. | [Disclaimer](#)

[Design & Powered by Adnet](#)