

(<https://www.usgs.gov/>)

Mineral Resources (<https://www.usgs.gov/energy-and-minerals/mineral-resources-program>) / Online Spatial Data (/) / Mineral Resource Data System (MRDS) (/mrds/)

El Salvador

Producer in Atacama, Chile with commodities Copper, Gold, Molybdenum, Silver

Map (<https://www.google.com/maps/place/-26.24748,-69.56622/@-26.24748,-69.56622,12z/data=!3m1!1e3>)

XML (/mrds/xml/10133731)

JSON (/mrds/json/10133731)

KML (/mrds/kml/10133731)

A (/mrds/grade-summary.php?dep_id=10133731)

Geologic information

Identification information	
Deposit ID	10133731 (/mrds/show-mrds.php?dep_id=10133731)
MRDS ID	W001538
MAS/MILS ID	3370090011
Record type	Site
Current site name	El Salvador
Alternate or previous names	Quebrada M Open Pit, Andes, El Salvador Division, Inca
Related records	10068472 (/mrds/show-mrds.php?dep_id=10068472)

Geographic coordinates	
Point of reference	Main Entrance
Geographic coordinates:	-69.56622, -26.24748 (WGS84)
Elevation	2650
Location accuracy	1000 (meters)
<i>Political divisions (FIPS codes)</i>	
Chile (country)	
South America (continent)	
Land (continent)	

Geographic areas	
Country	State
Chile	Atacama

Commodities	
Commodity	Importance
Copper	Primary
Gold	Secondary
Molybdenum	Secondary

Commodity	Importance
Silver	Secondary

Materials information

Materials	Type of material
Bornite	Unknown
Chalcocite	Unknown
Chalcopyrite	Unknown
Covellite	Unknown
Feldspar	Unknown
Galena	Unknown
Molybdenite	Unknown
Plagioclase	Unknown
Pyrite	Unknown
Quartz	Unknown
Sphalerite	Unknown
Tourmaline	Unknown

Nearby scientific data

Main Mixed sedimentary-volcanic terrane,
Entrance Mesozoic (/geology/state/sgmc-unit.php?
(1) x=-69.56622&y=-26.24748)

List (/general/near-point.php?x=-69.56622&y=-26.24748&radius=0.5&format=0.5)

Ore body information

Thickness	130M
Depth to top	395M
Width	700M
Length	1300M
Area	50HA

Field	Value
Type of Orebody #1	STOCKWORK
Shape of Orebody #1	PIPELIKE
Type of Orebody #2	DISSEMINATED
Shape of Orebody #2	TABULAR
Shape of Orebody #3	IRREGULAR
Primary mode of Origin	HYDROTHERMAL
Secondary mode of Origin	OXIDATION
Primary Ore Control	IGNEOUS
Secondary Ore Control	FAULTING
Degree of Wallrock Alter.	INTENSE
Type of Wallrock Alter. #1	POTASSIC
Type of Wallrock Alter. #2	SERICITIC
Type of Wallrock Alter. #3	INTERM ARGILLIC
Minimum Depth to Top	200
Avg. Thick. Unconsol. Mat.	0
Min. Thick. Unconsol. Mat.	0
Total Surface Area (HA)	50
Date of Last Modification	801118

Economic information

Economic information about the deposit and operations	
Operation type	Surface-Underground
Development status	Producer
Commodity type	Metallic
Deposit size	Large
Significant	Yes
Discovery year	1916
Mining method	Caving Methods - Block Caving
Year of first production	1959
Milling method	Flotation

Mining district	
District name	Potrerillos

Mineral rights holdings	
Type of mineral rights	State Lease

Land status	
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Ownership category

State

Ownership information

Type	Owner-Operator
Owner	Corporacion National Del Cobre De Chile (Codelco-Chile)
Interest	100
Home office	Chile
Year	1994

Comments on the ownership information

ANACONDA OF THE US OPERATED EL SALVADOR UNDER A CONCESSION UNTIL THE GOVT. EXPROPRIATED ALL ANACONDA HOLDINGS IN 1971

Production statistics

Year	1974
Description	8614000 Mt Ore

Year	1975
Description	1.17% Cu, .031% Mo, .11 G Au, 1.64 G Ag 8567000 Mt Ore

Importance	Item	Commodity	Group	Amount recovered	Grade	Recovery percentage
Trace		Silver	Silver	8,567,000mt	2g/mt	
Trace		Gold	Gold		0g/mt	
Major		Copper	Copper		1wt-pct	
Trace		Molybdenum	Molybdenum		0wt-pct	

Year	1976
Description	1.15% Cu, .034% Mo, .10 G Au, 1.66 G Ag 8606000 Mt Ore

Importance	Item	Commodity	Group	Amount recovered	Grade	Recovery percentage
Trace		Silver	Silver	8,606,000mt	2g/mt	
Trace		Gold	Gold		0g/mt	
Major		Copper	Copper		1wt-pct	
Trace		Molybdenum	Molybdenum		0wt-pct	

Year	1976
Description	Fine Copper 82800 Mt Cu Metal

Importance	Item	Commodity	Group	Amount recovered	Grade	Recovery percentage
Major		Copper	Copper	82,800mt		

Year 1977

Description 1.12% Cu, .034% Mo, .09 G Au, 2.07 G Ag 8620000 Mt Ore

Importance	Item	Commodity	Group	Amount recovered	Grade	Recovery percentage
Trace		Silver	Silver	8,620,000mt	2g/mt	
Trace		Gold	Gold		0g/mt	
Major		Copper	Copper		1wt-pct	
Trace		Molybdenum	Molybdenum		0wt-pct	

Year 1977

Description Fine Copper 80700 Mt Cu Metal

Importance	Item	Commodity	Group	Amount recovered	Grade	Recovery percentage
Major		Copper	Copper	80,700mt		

Year 1978

Description 1.12% Cu, .029% Mo, .10 G Au, 2.27 G Ag 8494000 Mt Ore

Importance	Item	Commodity	Group	Amount recovered	Grade	Recovery percentage
Trace		Silver	Silver	8,494,000mt	2g/mt	
Trace		Gold	Gold		0g/mt	
Major		Copper	Copper		1wt-pct	
Trace		Molybdenum	Molybdenum		0wt-pct	

Year 1978

Description Fine Copper 77500 Mt Cu Metal

Importance	Item	Commodity	Group	Amount recovered	Grade	Recovery percentage
Major		Copper	Copper	77,500mt		

Year 1979

Description 1.11% Cu, .023% Mo, .10 G Au, 1.85 G Ag 8882000 Mt Ore