ADVANCED PROJECTS

Copper





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The purpose of this Argentine Government publication is to disseminate third-party information on the exploratory results of advanced projects and the country's geological mining potential.

The information was obtained through different sources, mainly from public access websites of the operating/controlling companies and from technical reports published by them in different web pages under international standards in order to guarantee a higher degree of reliability.

In some cases, the data are estimated. The SECRETARIAT OF MINING is not responsible for their accuracy or reliability.

For further information on the legal, social and/or environmental status of the projects, interested parties should consult the corresponding provincial authorities, since mines are property of the Nation or of the Provinces, depending on the territory in which they are located (according to Articles 124 and 75 paragraph 12 of the NATIONAL CONSTITUTION, and Article 7 and concordant articles of the NATIONAL MINING CODE, approved by Law No. 1919).

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ADVANCED COPPER PROJECTS



CAPEX 22,162e M USD



CONSTRUCTION

1 - JOSEMARIA

1

FEASIBILITY (FS)

2 - EL PACHÓN



IDENTIFICABLE RESOURCES66.5 Mt Cu

3

PREFEASIBILITY (PFS)

4 - FILO DEL SOL 5 - PROYECTO MARA

6 - SAN JORGE

2

PEA (Preliminary Economic Assessments)

7 - LOS AZULES 8 - TACA TACA



POTENCIAL ADITIONAL PRODUCTION

Cu 1,219 kt/year Au 702 koz/year Ag 15 Moz/year Mo 18 kt/year

13

ADVANCED EXPLORATION

9 - ALTAR

10 - COIPITA

11 - CORDON DE LAS PICHIREGUAS

12 - INTERCEPTOR

13 - LA ORTIGA

14 - LAS FLECHAS

15 - PROSPECTO RIO SALINAS

16 - RINCONES DE ARAYA

17 - RIO CENICERO

18 - RIO GRANDE

19 - SAN FRANCISCO

20 - VALLE DE CHITA

21 - PROYECTO PIUQUENES

Mt: millions of tons- Moz: million of ounces kt: thousands of tons- koz: thousand of ounces - M USD: Million of dollars - e: Estimated









JOSEMARIA





LOCATION

(28° 27' 13" Lat S; 69° 35' 39" Long W.)

It is located near the limit of the Iglesia Department in the north of the province of San Juan, approximately 10 km from the border with Chile, in the middle of the Andes mountain range. It covers elevations from 4,000 to 4,900 meters above sea level. The closest city is Guandacol, in the province of La Rioja, located 200 km SE on a gravel road.



MINERALIZATION TYPE

Copper, Gold and Silver Porphyry



PROPERTY DATA OWNER / CONTROLLER

Lundin Mining Corp.



OPERATOR

DEPROMINSA S.A.



AREA 16,715 ha





JOSEMARIA

PROJECT GEOLOGY

Type of deposit - Copper, Gold and Silver Porphyry

Regional Geology

The mining property is located within the Frontal Cordillera on the eastern flank of the Andes and its host rock is the Permian-Triassic batolithic rocks of the Choiyoi Formation. There are also volcanic rocks from the Tertiary period assigned to the Doña Ana Group. The latter are intruded by quartz-dioritic porphyry of estimated Miocene age.

It is a copper-gold porphyry type deposit. The geological characteristics, which include the tenor and the style of mineralization, the lithology of the host rock and the patterns of alteration and distribution of the mineralization, are similar to other Andean porphyry of the metallogenetic belt.

Deposit Geology

At Josemaría, associated gold-copper mineralization occurs within altered intrusive dacitic rocks and hydrothermal breccias, accompanied by anhydrite, magnetite, pyrite, hematite, gypsum, quartz and sericite.

Most of the copper and gold mineralization is within the Miocene porphyry system, which forms an elongated body, with dimensions at least 900 m NS and 600-700 m EW and 600-700 m vertically. The deposit is open both to the south and to the north. In fact, in the 2012/13 season the company carried out a program of more than 7,000 meters of diamond with the intention of checking said extension. According to the results already published, it is very likely that the north-south size of the deposit will increase considerably.

Project Status CONSTRUCTION

Company's Last Announcement

Dec. 2021: Lundin Mining announces the acquisition of 100% of the Josemaría project for an implied capital value of US\$485 million.





JOSEMARIA

Contact

Amanda Strong Company information in Canada Investor Relations Manager Email: info@josemariaresources.com

Tel: +1 604 689 7842

Resources and Reserves

Josemaria 2020 sulphide mineral resource @ 0.1% CuEq cutoff

RESOURCES	Tonnago (Mt)		Grade			Metal Content	
RESOURCES	Tonnage (Mt)	Cu (%)	Au (g/t)	Ag (g/t)	Cu (t)	Au (MOz)	Ag (MOz)
Measured	197	0,43	0,34	1,3	861,825	2.2	8.5
Indicated	962	0,31	0,22	1,0	2,494,758	5.6	26.6
Inferred	704	0,24	0,15	0,8	1,315,417	2.3	18.6

Josemaria 2020 oxide mineral resource @ 0.2 g/t Au cutoff

DECOUDEE	OURCES Tonnage (Mt)		Grade		Metal Content			
RESOURCES		Cu (%)	Au (g/t)	Ag (g/t)	Cu (t)	Au (Oz) Thousands	Ag (Oz) Thousands	
Measured	26	-	0.33	1.2	-	280	940	
Inferred	14	-	1.3	132	-	132	632	

Technical and Economic Information

Estimated average annual production: Copper: 125 kt | Gold: 230 kOz | Silver: 790 kt

Product to obtain: Copper - Gold concentrate

CAPEX: 4,061 M USD

Estimated annual employment in operation: 1,650 jobs **Estimated employment in construction stage:** 4,300 jobs

Estimated LOM: 19 years Mining Method: Open pit

Sources Consulted

https://www.josemariaresources.com/projects/technical-reports/https://www.josemariaresources.com/site/assets/files/5636/jose_pfs_dec_2018.pdf https://www.josemariaresources.com/projects/photos/http://www.ngexresources.com/projects/technical-and-resource-reports/Reporte Técnico NGEX. Marzo 2016- Análisis Económico Preliminar (PEA).









PACHÓN





LOCATION

(31° 45' 39" Lat. S; 70° 43' 50" Long. W)

It is located in the province of San Juan, in the department of Calingasta; approximately 300 km west of the city of San Juan, Argentina, and 5 km from the border with Chile. At an altitude of 3,600 m.a.s.l. The community closest to the project area on the Argentine side is Barreal, which is approximately 150 km away.



MINERALIZATION TYPECu Porphyry



PROPERTY DATA
OWNER / CONTROLLER

Glencore Plc.



OPERATOR El Pachón S.A.



AREA 1,004 ha





Type of deposit - Cu Porphyry

Regional Geology

It is found in the post-accretionary metallogenetic belt of the magmatic arc during the neogen (Tertiary). Between 30° and 34° Lat. S, during the middle Miocene (18–15 Ma) a horizontalization of the Nazca plate began and its consequent cortical thickening. Magmatic activity reaches a great development in the provinces of San Juan and center of Mendoza. With the progressive horizontalization of the plate produces a migration of the arch towards the east. These particular conditions give rise to a magmatism that culminates with episodes of hydrothermal alteration and high sulfurization gold mineralization. Another important type of mineralization is the Copper-Molybdenum porphyry such as Pachón, Mercerdario in San Juan; Paramillos, San Jorge and San Benicio in Mendoza; with locally associated vetiform polymetallic deposits.

Deposit Geology

The deposit is located in the Cordillera Principal, formed by a basement of granitoids and vulcanites (Gr. Choiyoi), above in discordance there are jurassic sedimentary units, on them - also in discordance - lie stratified and andesitic vulcanites and to a lesser extent rhyolitic and riodacitics (Fm. Pachón). The latter is locally intruded by mesosilicic bodies, granular to porphyric, with which mineralization is linked. The sequence of deposit formation was synthesized by Lencinas and Tonel (1994): 1-Intrusion of the Diorita Pachón stock. 2-Formation of the porphyric copper system. 3-Posthumous intrusion of dioritic porphyry in whose intrusive dome there is magmatic breccia with accumulation of hydrothermal fluids. 4-Hydrothermal brecciation, alteration and mineralization of the breccia. 5-Intrusion of the dacitic porphyry at the northern limit of the hydrothermal breccia. 6-Formation of poorly mineralized tourmaline breccias. 7-Leaching and supergenic enrichment.

The formation stage of the hydrothermal breccia is accompanied by a sinking of 50 to 70 m from the breccia body relative to the surrounding volcanoes.





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Project Status FEASIBILITY

Company's Last Announcement

Public report: Sustainability Report El Pachón 2013
Announcements: "Currently, working on the reevaluation of the project and realization of the exploitation IIA; [...]. The Project proposes to develop an open pit mine to extract copper ore and process it by flotation.

Resources and Reserves

RESOURCES	Tonnago (M4)		Gra	ide		Metal Content			
	Tonnage (Mt)	Cu (%)	Au (g/t)	Ag (g/t)	Mo (%)	Cu (Mt)	Au (Oz)	Ag (MOz)	Mo (Kt)
Measured	537	0.67	-	2.4	0,013	15.11	-	198	324
Indicated	1,055	0,49	-	2.0	0,011	8.7	-	109	185
Inferred	1,536	0,41	-	2.2	0,009	6.3	-	89	138

Technical and Economic Information

Estimated average annual production: Copper: 280 kt | Silver: 3 Moz

Product to obtain: Copper concentrate

CAPEX: 4,500 M USD

Estimated annual employment in operation: 1,100 jobs **Estimated employment in construction stage:** 3,000 jobs

Estimated LOM: 30 years **Mining Method:** Open pit

Sources Consulted

https://www.elpachon.com.ar/es/Paginas/home.aspx | Reporte de recursos y reservas 2015 Glencore.
Reporte-de-Sostenibilidad-El-Pachon-2011, 2012, 2013 | Wood Mackenzie (https://www.woodmac.com/)
Ministry of Mining of San Juan (http://mineria.sanjuan.gov.ar/) | Records of the National Directorate of Mining Investments (MPyT).
S&P Global Market Intelligence













LOCATION

(28° 29' 30" Lat. S; 69° 39' 46" Long. W)

The Filo del Sol Project is located in the Atacama Region, in northern Chile and in the adjacent province of San Juan, Argentina, 140 kilometers southeast of the city of Copiapó, Chile, and extends to both sides of the border between Argentina and Chile. The center of the main deposit area is 28.49~ S latitude and 69.66~ W longitude. The average altitudes are from 4,000~ to 4,900~ m.a.s.l.



MINERALIZATION TYPE

High Sulphidation Epithermal



PROPERTY DATA OWNER / CONTROLLER

Filo Mining Corp.



OPERATOR

Filo del Sol Exploración S.A.



AREA

14,014 ha





Type of deposit

High sulphidation epithermal copper-gold-silver deposit associated with a large copper-gold porphyry system.

Regional Geology

It is found in the post-accretionary metallogenetic belt of the magmatic arc during the neogen (Tertiary). Between 30° and 34° Lat. S, during the middle Miocene (18-15 Ma) a horizontalization of the Nazca plate begins with the consequent cortical thickening. The magmatic activity reaches a great development in the provinces of San Juan and the center of Mendoza. With the progressive horizontalization of the plate, the arch migrates eastward. These particular conditions generated a magmatism that culminated in episodes of hydrothermal alteration, high sulphidation gold mineralization, porphyry copper and molybdenum, and locally associated vetiform polymetallic deposits.

Deposit Geology

The Filo del Sol Project shows a complete transition between a high sulphidation epithermal environment and a porphyry system, and both types of deposits are represented. Weathering and supergenic processes have created high-grade copper and silver oxide zones. Mineralization, of potential economic interest, within the Filo del Sol deposit includes high grade leached oxide / mixed copper mineralization, structurally controlled gold and silver mineralization, sub-horizontal "mantle type" high grade silver mineralization and mineralization of scattered sulfides of copper, gold, silver and molybdenum.





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Project Status PREFEASIBILITY

Company's Last Announcement

Filo planned to continue drilling at Filo del Sol which will be a combination of step out drilling and resource definition. The Company announce a private placement to advance the Filo del Sol Project (Filo PR Feb 28, 2022).

Resources and Reserves

RESERVES To	Tanana aa (NA4)	Grade			Metal Content			
	Tonnage (Mt)	Cu (%)	Au (g/t)	Ag (g/t)	Cu (t)	Au (Oz)	Ag (Oz)	
Proven and probable	259,1	0,39	0,33	15,1	1.009.697	2.764.000	126.028.000	

Technical and Economic Information

Estimated average annual production:

Copper: 67 kt | Gold: 159 koz | Silver: 8,65 koz **Product to obtain:** Copper cathode + Doré

CAPEX: 1,266 M USD

Estimated annual employment in operation: 800 jobs **Estimated employment in construction stage:** 1,800 jobs

Estimated LOM: 14 years **Mining Method:** Open pit

Sources Consulted









AGUA RICA ALUMBRERA





LOCATION

(27° 22' 41" Lat. S; 66° 16' 13" Long. W)

It is located in the province of Catamarca, department of Andalgalá, 35 km east of the Bajo de la Alumbrera deposit. It is an area of difficult access, with heights of up to 3,300 m.a.s.l. The closest city of influence is Andalgalá. It is accessed from Andalgalá, passing through the city of Piscoyuyo, along a dirt road suitable for double-traction vehicle.



MINERALIZATION TYPE

Copper-Gold-Silver-Molybdenum porphyry system



PROPERTY DATA OWNER / CONTROLLER

Yamana Gold Inc. 56,3%, Glencore Plc. 25% Newmont Goldcorp 18,8%



AREA 15,485 ha





TYPE OF DEPOSIT - Copper-Gold-Silver-Molybdenum porphyry system.

Regional Geology

Corresponds to the Post-accretionary Metallogenetic Belt associated with the Neogene Magmatic arc (Tertiary), linked to transtensional areas with NE-SW orientation. This belt in the transition zone (26°-30°) is characterized by a little evolved volcanism of the middle Miocene that widens to the east, linked to particular geotectonic conditions. It includes northwest corridors that control magmatic and hydrothermal activity, including Agua Rica and Bajo la Alumbrera. These corridors host polymetallic mineralizations in the north (Farallón Negro in Catamarca) and porphyries with subtypes linked to the characteristics of magmatism and the structural mechanisms with which they are associated.

Deposit Geology

The property is prospective for both high grade gold-copper-silver veins and large tonnage copper-gold porphyry mineralization. Cerro Atajo is centered on an intrusive complex within the same host rock as the nearby Alumbrera mine. (Yamana MD&A June 30, 2016) The Agua Rica deposit is a Cu-Mo-Au porphyry deposit with a polymetallic epithermal overprint. Three major stages of alteration/mineralization are clearly recognized: early porphyry Cu-Mo-Au, later epithermal Cu-Au-Ag-As-Pb-Zn, and supergene Cu enrichment. Supergene leaching and enrichment has replaced pyrite, chalcopyrite and bornite with near surface high-grade chalcocite, covellite and digenite which grades down to a zone of covellite and digenite without chalcocite, and then into primary chalcopyrite-pyrite mineralization below the defined open pit. Almost all copper ore is covellite or chalcocite.

Project Status PREFEASIBILITY

Company's Last Announcement

TORONTO, Dec. 18, 2020 ("Yamana") is pleased to announce the completion of the integration of the Agua Rica project with the Minera Alumbrera plant and infrastructure. Going forward, the integrated project will be known as the MARA Project.

The integration creates significant synergies by combining existing substantive infrastructure which was formerly used to process ore from the Alumbrera mine during its mine life, including processing facilities, a fully permitted tailings storage facility, pipeline, logistical installations, ancillary buildings, and other infrastructure, with the future open pit Agua Rica mine.





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Resources and Reserves

RESOURCES	Tonnage (Mt)		Gra	ade		Metal Content				
RESOURCES		Cu (%)	Au (g/t)	Ag (g/t)	Mo (%)	Cu (t)	Au (Oz)	Ag (Oz)	Mo (t)	
Measured	53,6	0,22	0,13	1,55	0,02	117.920	224.000	2.671.000	10.720	
Indicated	206,3	0,30	0,11	1,8	0,03	618.900	730.000	12.337.000	61.890	
Inferred	742,9	0,23	0,09	1,62	0,03	1.708.670	2.150.000	38.693.000	222.870	

RESERVES	Tannaga (M4)		Gra	ide		Metal Content			
RESERVES	Tonnage (Mt)	Cu (%)	Au (g/t)	Ag (g/t)	Mo (%)	Cu (t)	Au (Oz)	Ag (Oz)	Mo (t)
Probable	517,6	0,43	0,16	2,63	0,03	2.225.680	2.663.000	43.766.000	155.280
Proven	587,2	0,57	0,25	3,02	0,03	3.347.040	4.720.000	57.014.000	176.160

Mineral resources do not include mineral reserves.

Technical and Economic Information

Estimated average annual production:

Copper: 155 kt | Gold: 102 koz | Silver: 1,400 koz | Molybdenum: 5,2 kt

Product to obtain: : Copper cathode + Doré

CAPEX: 3,019 M USD

Estimated annual employment in operation: 1,500 jobs Estimated employment in construction stage: 3,500 jobs

Estimated LOM: 28 years Mining Method: Open pit

Sources Consulted

https://www.infomara.com.ar/
https://s22.q4cdn.com/899716706/files/doc_presentations/2019/DGF-FINAL-with-appendix.pdfhttps://s22.q4cdn.com/English/investors/news/news-details/2019/Yamana-Gold-Announces-a-Positive-Pre-Feasibility-Study-With-an-Impressive-and-Increased-NPV-of-19-Billion-and-an-Increased-After-Tax-IRR-of-197-for-the-Long-Life-Integrated-Agua-Rica-Copper-Gold-Project/default.aspxYamana Gold Inc, Annual Information Form for de fiscal year ended December 31, 2015:
https://s22.q4cdn.com/899716706/files/doc_financials/annual/2015/2015-Yamana-AR.pdf















LOCATION

(32° 14' 41" Lat. S; 69° 26' 16" Long. W)

It is located in the department of Las Heras, province of Mendoza, 110 km. to the northwest of the city of Mendoza, by National Route No. 7, and whose access door is 37 km from the district of Uspallata, by National Route No. 149. The Project is located at 2.600 meters above sea level in the so-called Cordillera del Tigre.



MINERALIZATION TYPE

Copper and gold porphyry



PROPERTY DATA OWNER / CONTROLLER

Solway Investment



OPERATOR

Minera San Jorge S.A.



AREA 9,987 ha





Type of deposit - COPPER AND GOLD PORPHYRY

Regional Geology

The property of San Jorge is located on the western periphery of the Graben de Uspallata-Calingasta-Iglesia. To the east of the graben is the Pre-Cordillera and to the west is the Cordillera Frontal.

Deposit Geology

In the project area, rocks of the Yalguaraz Formation emerge: sandstones, conglomerates, limolites and clays. Sedimentites are intruded by a porphyry granite, stocks and dykes of the Perm - Triassic. On the western edge of the granitic bodies there are small tourmaline (crackling) holes. The contacts are subvertical and irregular.

The San Jorge porphyry system shows a vertical zonation from hypogene mineralization at depth, passing upwards into a supergene enriched zone, which is overlain by a zone of oxide mineralization and finally by a poorly developed leached cap. Superimposed on this basic zonation are lateral variations in the distribution of the mineralization types that relate to the main north to south and north-northeast striking fault zones. The porphyry system is ovoid in shape and covers an area of 1.1 km north-northeast by 700 m north northwest.

Project Status PREFEASIBILITY





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Resources and Reserves

DECOUDEEC	Tanna a (NA4)	Gra	ade	Metal Content		
RESOURCES	Tonnage (Mt)	Cu (%)	Au (g/t)	Cu (t)	Au (Oz)	
Measured	79,5	0,57	0,22	452.247	584.000	
Indicated	104,9	0,42	0,19	436.603	626.000	
Inferred	11,2	0,38	0,16	43.172	59.000	

RESOURCES	Tannaga (NA4)	Gra	ade	Metal Content		
RESOURCES	Tonnage (Mt)	Cu (%)	Au (g/t)	Cu (t)	Au (Oz)	
Probable	40,01	0,63	-	252.101	-	
Proven	8,37	0,5	-	41.870	-	

Technical and Economic Information

Estimated average annual production: Copper: 40 kt | Silver: 40 koz Product to obtain: Copper cathodes + Doré | CAPEX: 370 M USD

Estimated annual employment in operation: 350 jobs Estimated employment in construction stage: 600 jobs Estimated LOM: 16 years | Mining Method: Open pit

Sources Consulted

https://solwaygroup.com/our-business/san-jorge-project-mendoza-argentina/-

www.corominig.com
Records of the Undersecretary of Mining Development
Preliminary Feasibility Study; SAN JORGE 25kt/y COPPER LEACH PROJECT IN SAN JUAN PROVINCE, Argentina (NI 43-101, Technical Report) 1 March, 2012.
http://www.solwaygroup.com/index.php/our-business/san-Jorge-project-Mendoza-argentina













LOCATION

(31° 13' 30" Lat. S; 70° 13' Long. W)

Los Azules Project is located in the Central West of the Province of San Juan, Calingasta Department, 129 km from the homonymous town. The area is located in the Cordillera de Los Azules and at the northern end of the Cordillera de La Totora. Approximately 250 km west of the city of San Juan and 3 km from the border with Chile.



MINERALIZATION TYPE

Copper porphyry



PROPERTY DATA OWNER / CONTROLLER

McEwen Mining



OPERATOR

Minera Andes Inc.



AREA

18,000 ha





Type of deposit - COPPER PORPHYRY

Regional Geology

The geological province in which it is located is the Cordillera Frontal, it comprises volcanic rocks of the Mesozoic with intrusion of Miocene diorite, intruded at the same time by a sub-parallel strip of diorite-dacite dikes along the main north fault northwest. The mineralization and hydrothermal alteration typical of porphyric copper is spatial, temporal and genetically related to the dikes. Copper mineralization (chalcocite + pyrite + chalcopyrite) is associated with intrusive bodies of dacitic composition to diorite of tertiary age.

Deposit Geology

In the project area, geology is composed of volcanic rocks intruded by a dioritic stock, in turn, it is intruded by a system of sub-parallel dikes of dioritic to dacitic composition of faults of dominant NNW heading. The mineralization and alteration of the porphyry type system is temporary, spatial and genetically linked to the dikes.

The system has zoning:

- Leaching zone between 60 and 180 meters deep with jarosite, goethite and hematite.
- Supergenic enrichment zone between 60 and 300 meters with the presence of calcosine +/- covellite.
- Primary sulfide zone with chalcopyrite, bornite, pyrite +/- calcosine and primary covellite.

The Los Azules hydrothermal alteration system has a minimum length of 5 km and a minimum width of 4 km, and is extended in an NNW direction along an important structural corridor. The system disappears into a volcanic cover to the north, so its final extension is unknown. The altered area surrounding the Los Azules deposit is approximately 4 km long by 2.5 km wide. The limits of mineralization have not been fully defined by drilling.





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Project Status PRELIMINARY ECONOMIC ASSESSMENT (PEA) 2017

Company's Last Announcement

NI 43-101 Technical Report-Preliminary Economic Assessment Update for the Los Azules Project, Argentina- September 1, 2017.

Resources and Reserves

RESOURCES	Tonnage (Mt)		Grade				Metal Content				
RESOURCES		Cu (%)	Au (g/t)	Ag (g/t)	Mo (%)	Cu (t)	Au (Oz)	Ag (MOz)	Mo (t)		
Measured	962	0,48	0,06	1,8	0,003	4,600,000	1,700,000	55,7	25,900		
Inferred	2.666	0,33	0,04	1,6	0,003	8,750,000	3,800,000	135,4	88,000		

Technical and Economic Information

Estimated average annual production:

Copper: 153 kt | Gold: 35 koz | Silver: 1,2 koz

Product to obtain: : Copper, gold and silver concentrates

CAPEX: 2,363 M USD

Estimated annual employment in operation: 800 jobs **Estimated employment in construction stage:** 1,500 jobs

Estimated LOM: 36 years **Mining Method:** Open pit

Sources Consulted

https://www.mcewenmining.com/media/galleries/los-azules/default.aspx https://s21.q4cdn.com/390685383/files/technical_reports/los_azules/LosAzulesPEA_Rev0_20171016.pdf https://www.mcewenmining.com/operations/los-azules/default.aspx Ministry of Mining of San Juan (http://mineria.sanjuan.gov.ar/)















LOCATION

(24° 41' 60" Lat. S; 68° 00' 00" Long. W)

It is located in the Puna de Salta, at the central-western end of the Salar de Arizaro, department of Los Andes, 240 km west of the city of Salta and 55 km east of the border with Chile, at 3,600 m.a.s.l. The nearest town is Tolar Grande, 34 km away. The access to the project is by the RN 51 to Cauchari and from there by the RN 27.



MINERALIZATION TYPE

Copper porphyry



PROPERTY DATA OWNER / CONTROLLER

First Quantum Minerals LTD



OPERATOR

Corriente Argentina S.A.



AREA 2,546 ha





Type of deposit - COPPER - GOLD - MOLYBDENUM PORPHYRY SYSTEM OF THE ANDEAN TYPE

Regional Geology

It is included in the copper porphyry-type paleogenous (Tertiary) mineralization belt, of recognized economic importance in Chile. This mineralization is associated with the advance of the paleogenic magmatic arc over the Argentine Puna. Oligocene riodacitic intrusions of the Santa Inés Formation are responsible for the mineralization and alteration of the copper porphyry in Taca Taca.

Deposit Geology

In the project area, porphyry type mineralizations of Cu-Mo (Taca-Taca alto and Taca Taca bajo) and low sulphidation epithermal (Taca Taca sur) have been defined. The alterations are represented by early potassium type, in some sectors of the deposit with intercalation of propylitic, and a subsequent alteration of philic type of heterogeneous intensity. Locally advanced argillic alteration zones were defined with which the hydrothermal process would culminate.

There are three main mineralization styles associated with the Taca Taca copper-gold-molybdenum porphyry: a supergenic / hypogenic porphyry copper mineralization, another characterized by copper-gold remnant oxides in the leach cap, and a third copper-gold mineralization in veins of quartz and hematite.

Taca Taca was defined as "an Andean Cu-Au-Mo porphyry system".





https://www.first-quantum.com/ Tel. International: +1 416 361 6400

Project Status PRELIMINARY ECONOMIC ASSESSMENT - (PEA) 2012

Company's Last Announcement

In November 2020, First Quantum announced an updated NI 43-101 reserves and resources estimate at Taca Taca totaling 2.92 billion mt grading 0.4% Cu.

Resources and Reserves

RESOURCES	Tonnago (M4)		Grade		Metal Content			
RESOURCES	Tonnage (Mt)	Cu (%)	Au (g/t)	Mo (%)	Cu (t)	Au (kOz)	Mo (kt)	
Measured & Indicated	2,203	0.43	0,08	0,012	9,458	6,052	264,5	
Proven & Probable	1,789	0.44	0,09	0,012	7,735	5,086	2013,5	

Technical and Economic Information

Estimated average annual production:

Copper: 244 kt | Gold: 110 kOz | Molybdenum: 4 kt **Product to obtain:** : Copper - Gold concentrate

CAPEX: 3,583 M USD

Estimated annual employment in operation: 1,630 jobs **Estimated employment in construction stage:** 3,500 jobs

Estimated LOM: 28 years **Mining Method:** Open pit

Sources Consulted

https://www.first-quantum.com/https://secure.kaiserresearch.com/i/jk/tr16/TRLCC20130524.pdf
Lumina Copper Corp. Taca Taca Copper- Gold Molybdenum Project. Preliminary Economic Assessment Report. May 24-2013,
ww.sedar.com/DisplayCompanyDocuments.do?lang=EN&issuerNo=00027259 Ref: May 24 2013 - 22:15:18 ET Technical report (NI 43-101) – English)



Thank you



Secretaría de Minería

