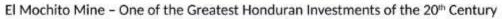
Sept 2023 - El Mochito Mine Presentstion.pptx









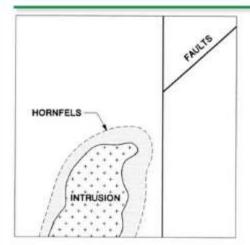
Skarn Deposits- Basics



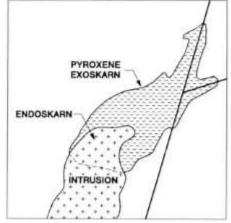
- The term "skarn" was originally used by old Swedish miners to refer to very tough rocks comprised of coarsegrained, calc-silicate gangue minerals associated with magnetite and chalcopyrite deposits in Sweden.
- Evidence to suggests that mining of skarns took place as far back as 4000 years ago by ancient Chinese, Greek and Romans.
- Only since the 19th century did skarn deposits begin to be described in scientific publications when Alfred Elis Törnebohm used the term in 1875 publication.
- Currently defined as " a calc-silicate rock formed by metasomatic replacement of carbonate lithologies by silicate minerals, during regional or contact metasomatic processes connected to igneous intrusions."
- Meaning a skarn is a metasomatic rock with a complex mineralogy of granoblastic texture, composed of calcsilicate minerals such as garnets, epidote, vesuvianite, diopside and wollastonite, originating from the percolation of magmatic fluids in a carbonate rock.
- Classified based on scale, structure, replaced rock and prevailing economic metals.
- Exoskarn occurs when the protolith is in a carbonate rock; alteration assemblage is external to the intrusion.
- · Endoskarn occurs if the protolith is an igneous rock; alteration in internal to the intrusion.
- · Seven major types: Au, Cu, Fe, Mo, Sn, W, Zn-Pb.

Schematic Evolution of a Calcic Skarn Deposit





 Intrusion of magma into a carbonate sequence and formation of contact hornfels.

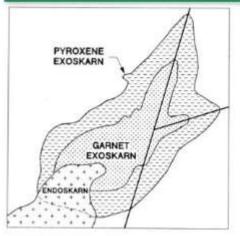


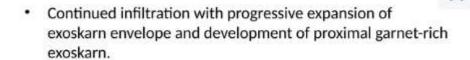
Infiltration of hydrothermal fluids to produce endoskarn and pyroxen-rich exoskarn.

Webster & Ray, 1990

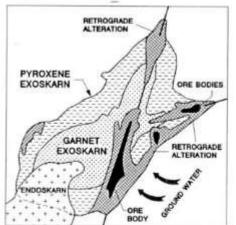
Schematic Evolution of a Calcic Skarn Deposit







- Skarn controlled partly by lithologies, bedding planes and fractures.
- · Some mineralization may occur at this stage.



Webster & Ray, 1990

- Hydrothermal system wanes and cools accompanied by retrograde overprinting. (anhydrous minerals are replaced by hydrous minerals. i.e., garnet, Mn pyroxene, wollastonite bustamite are replaced by epidote, chlorite, calcite, quartz, flourite.
- Metals are introduced or scavenged and redeposited to form economic orebodies.
- Structural/lithological controls and influence of metoric water result in irregularily distributed orebodies that are notoriously difficult to delineate.

El Mochito-History

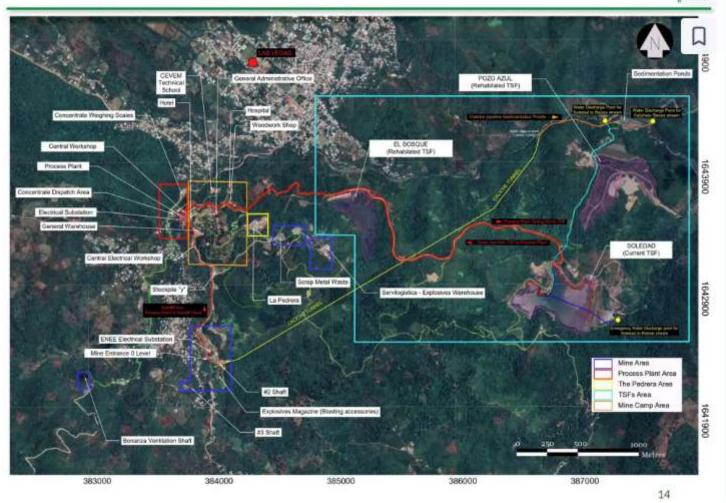


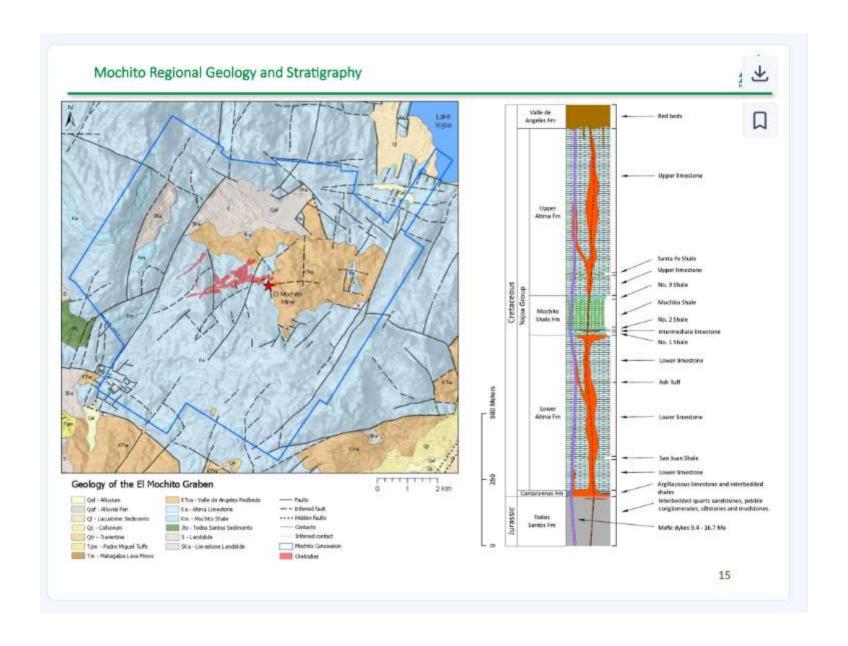


- 1938 Discovered
- 1946 Purchased by the New York & Honduras Rosario Mining Company (founded 1880).
- 1948 Underground production starts. Initial products were a jig concentrate containing native silver along with silver and gold dore.
- 1960 greater volumes of sulphide material from deeper levels made the production of Zn and Pb concentrates economically feasible.
- 1973 Company was renamed Rosario Mining Corporation.
- 1980 Acquired by Amax and operated as a subsidiary.
- 1987 Ceased production for several months due to higher than acceptable taxes.
- 1987 AMPAC purchased the operations and exploration properties from Amax.
- 1990 Breakwater Resources Ltd. Purchased AMPAC.
- 2011 Nyrstar Group acquired Breakwater.
- 2016 Ascendant Resources Ltd. (originally Morumbi Resources Inc.) acquired El Mochito mine and all
 facilities.
- 2020 Kirungu Corporation acquired El Mochito from Ascendant Resources

El Mochito - Surface Overview





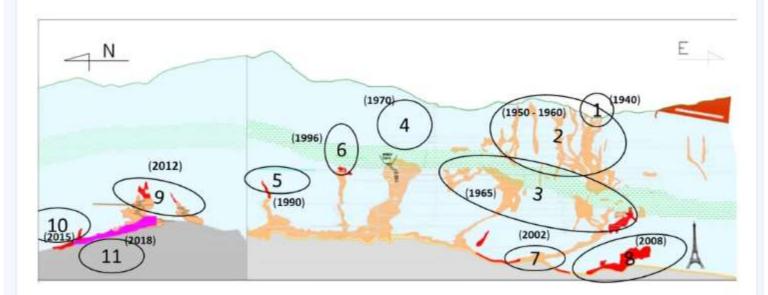


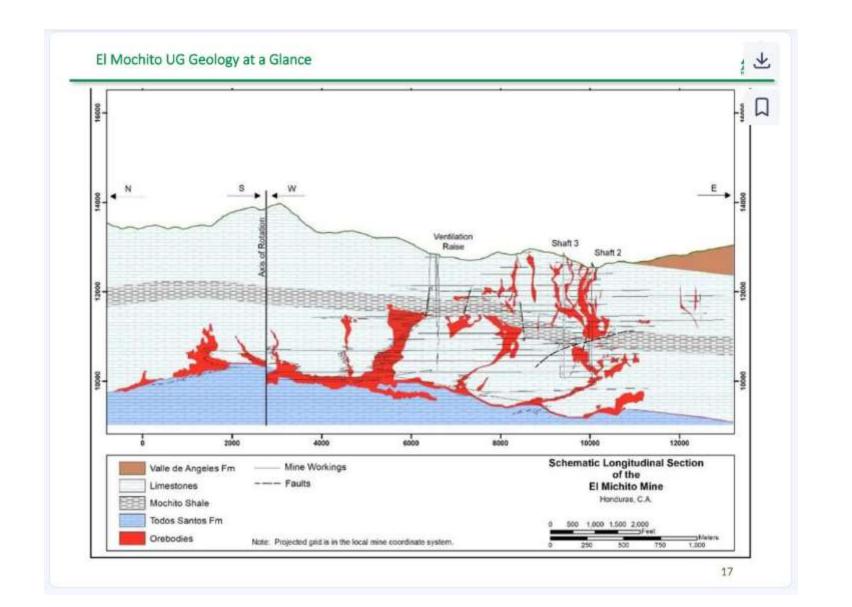
Brief History of El Mochito



- Mine started as small pits and adits on oxide bodies during the late 1930's
- Followed chimneys down through the limestone. First major discovery was on L-150; intersected a 40' pipe with argentite and native Ag that averaged 500 oz/ton.
- Discovery of sulphide chimneys below the shales.
- 4. San Juan: Originally thought to be too far from shaft and too low grade.
- 5. Nacional: Originally thought to be too far from shaft
- 6. Port Royal: Originally thought to be at the maximum mineable depth.

- Santo Nino: Originally thought to be too far and too low grad justify exploration.
- Deep Sector (Victoria): thought to be too far away and too deep to justify exploration.
- Imperial and Barbasco Chimney above L-1850: thought to be not accessible because of missing development.
- 10. Esperanza: Ongoing mining.
- 11. Toña: Currently being explored and mined.

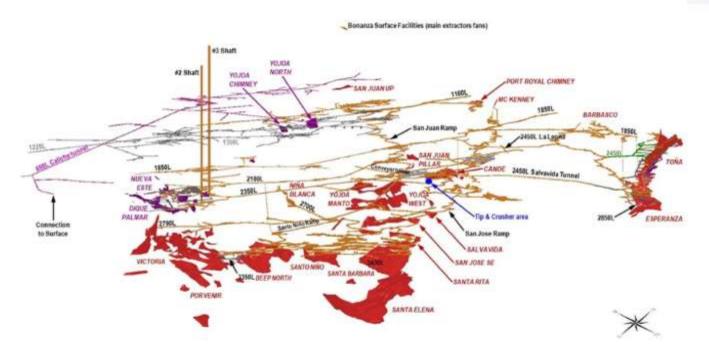




Mine Infrastructure - Perspective View







mineralized zones (red)



El Mochito Mine NI 43-101 Mineral Resource Estimate January 1, 2018

Category	Tonnes	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)	Fe (%)	ZnEq (%)
Resources							
Measured	1,100,000	65	2.0	5.5			8.2
Indicated	6,452,000	41	1.7	5.2			7.2
M&I	7,553,000	44	1.7	5.2			7.3
Inferred	4,972,000	33	1.4	5.1			6.7
Total	12,525,000	40	1.6	5.2			7.1

Price Assumptions: 1.21 \$/lb Zn, 1.06 \$/lb Pb and 18 \$/troy oz Ag

ZnEq calculation: Zn% + (Pb% * 0.82) + (Ag g/t * 0.0149)

Cut-off grade: 3.1% ZnEq.

2021 Internal Resources Estimation



El Mochito Mine Mineral Resources January 1, 2022	8						
Category	Tonnes	Ag (g/t)	Pb (%)	Zn (%)	Cu (%)	Fe (%)	ZnEq (%)
Resources							
Measured	954,271	65	1.9	5.8	0.1	10.0	8.3
Indicated	4,958,497	53	1.8	5.3	0.1	11.1	7.6
M&I	5,912,768	55	1.8	5.4	0.1	10.9	7.7
Inferred	5,884,209	47	1.7	5.4	0.1	10.9	7.5
Old Mine Pillars*	160,301	346	9.2	10.0			25.2
Total	11,957,278	55	1.9	5.4	0.1	10.8	7.8

Cut-off grade: 3.1% ZnEq.

ZnEq calculation: Zn% + (Pb% *

0.82) Assumptions 1.21 \$/lb Zn, 1.06 \$/lb Pb and 18 \$/troy oz Ag

^{*} Tonnage has been discounted by 60% from historical total Assured & Probable category



Mineral Resource Reconciliation 2019-2021

- 1	

	2019 - 2020				2021 Only				% Change (2020 - 2021)			
Area	Tonnes	ZnEq (%)	Contained Tonnes ZnEq (%)	Tonnes	ZnEq (%)	Contained Tonnes ZnEq (%)	Tonnes	ZnEq (%)	Contained Tonner ZnEq (%)			
Canoe	453,366	6.6	29,922	553,520	6.1	33,765	▲ 22%	▼ -8%	▲ 13%			
Barbasco	3,038	6.2	188	3,038	6.2	188	▲ 0%	▲ 0%	▲ 0%			
Esperanza	601,854	7,3	43,634	279,698	7.4	20,698	▼ -54%	▲ 2%	▼ -53%			
Imperial	14,976	12.0	1,790	16,022	11.6	1,859	▲ 7%	▼ -3%	▲ 4%			
McKenney	4,404	18.7	821	2,683	20.4	547	▼ -39%	▲ 9%	-33%			
Niña Blanca	22,707	19.0	4,314	7,135	25.4	1,812	▼ -69%	▲ 34%	▼ -58%			
Nueva Este	39,794	10.9	4,318	38,759	11.0	4,263	▼ -3%	▲ 1%	▼ -1%			
Palmar Dyke	200,099	12.1	24,212	215,869	11.8	25,473	A 8%	▼ -2%	▲ 5%			
Port Royal	36,283	7.9	2,848	8.000	9.2	736	▼ -78%	A 17%	▼ -74%			
San Juan	94,600	8.4	7,899	92,345	9.0	8,311	▼ -2%	▲ 8%	▲ 5%			
Victoria	1,583,860	8.0	126,709	1,316,802	8.4	110,611	▼ -17%	▲ 5%	▼ -13%			
Deep East	291,515	6.1	17,637	287,464	6.1	17,535	▼ -1%	▲ 1%	▼ -1%			
Deep North	308,837	6.4	19,611	295,057	6.0	17,703	▼ -4%	▼6%	▼ -10%			
Nacional	37,572	12.3	4,603	36,222	12.8	4,636	▼ -4%	A 4%	A 1%			
Porvenir	896,724	6.8	60,977	869,203	6.8	59,106	▼ -3%	▲ 0%	▼ -3%			
Ratoncito	704,189	5.9	41,547	704,189	5.9	41,547	▲ 0%	▲ 0%	A 0%			
Salva Vida	116,812	5.5	6,425	116,812	5.5	6,425	▲ 0%	▲ 0%	▲ 096			
San Jose	199,573	4.8	9,480	246,146	5.4	13,292	▲ 23%	A 14%	▲ 40%			
Santa Barabara	767,289	6.4	48,723	683,053	6.5	44,398	▼ -11%	▲ 2%	▼ -9%			
Santa Elena	3,053,843	7.0	213,769	3,037,680	7.0	212,638	▼ -1%	▲ 0%	▼ -1%			
Santa Rita	225,977	5.6	12,655	191,208	5.6	10,708	▼ -15%	▲ 0%	▼ -15%			
Santo Niño	1,066,727	5.8	61,337	900,005	5.7	51,300	▼ -16%	▼ -1%	▼ +16%			
Toña	1,421,549	10.4	147,130	1,526,707	12.3	187,785	▲ 7%	▲ 19%	▲ 28%			
Yojoa	348,316	5.8	20,202	369,360	6.0	22,162	▲ 6%	▲ 3%	▲ 10%			
Old Mine	194,123	26.2	50.860	161,608	28.3	45,735	▼ -17%	▲ 8%	▼ -10%			
Totals	12,688,022	7.6	961,611	11,958,585	7.9	943,234	▼ -6%	A 4%	-2%			

Ore Processing and Treatment



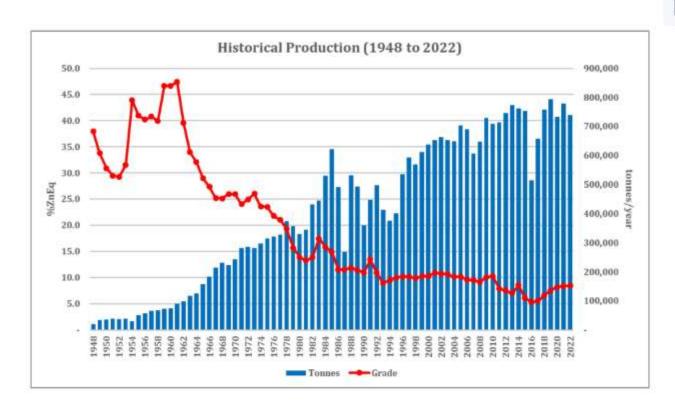




- · Mill capacity: 2,350 DMT/day
- Hoisted ore from the mine is transported to the crushing plant by means of conveyor belts.
- The crushed ore is transported in trucks with a capacity of 23 tons to the concentrator plant.
- The ore is weighed and transported by conveyor belts to the grinding area: 4 mills (2 rod mills, 2 ball mills).
- Hydrocyclone classification: Fine material is piped to the flotation circuit. The coarse material returns to mills as circulating load.
- Flotation recovery: 80-82% Lead, 87-89% Zinc and 78-80% Silver.
- Dewatering in thickeners and filters. Concentrates temporarily stored in the concentrate sheds.
- The water from the thickener and filter stage is reused in the process.
- The filtered concentrates are transported by road to our warehouse in Puerto Cortes.
- Final disposal of process tailings conducted under environmentally controlled conditions.







El Mochito - Production Summary



Initial Reserves - 1948

Production	Reserves	Ag (g/t)	Current Value (\$US
Years	(tonnes)		@ \$24/oz)
5	99,790	1379	95,776,845

To Date

10 Date					
Production Years	Ore Production (tonnes)	Zn (%)	Pb (%)	Ag (g/t)	ZnEq (%)
75	30,514,434	6.3	2.9	174	12.9

	Value	in situ (M\$)		\$/Ib or oz	\$/tonne or g
1,923,559	\$	4,665	Zn price	1.1	2425
899,891	\$	2,063	Pb Price	1.04	2293
170,702,462	\$	3,926	Ag price	23	0.74
	\$	10,654			
463,227,264					
4,393,341					
9,685,660,976					
	899,891 170,702,462 463,227,264 4,393,341	1,923,559 \$ 899,891 \$ 170,702,462 \$ \$ 463,227,264 4,393,341	899,891 \$ 2,063 170,702,462 \$ 3,926 \$ 10,654 463,227,264 4,393,341	1,923,559 \$ 4,665 Zn price 899,891 \$ 2,063 Pb Price 170,702,462 \$ 3,926 Ag price \$ 10,654 463,227,264 4,393,341	1,923,559 \$ 4,665 Zn price 1.1 899,891 \$ 2,063 Pb Price 1.04 170,702,462 \$ 3,926 Ag price 23 463,227,264 4,393,341

- To date. El Mochito has milled 170 million ounces of silver, 900,000 tonnes of lead, 1,900,000 tonnes of zinc and minor amounts of gold and copper from 30.5 million tonnes of ore grading 5 oz/t Ag, 2.9 % Pb and 6.3 % Zn.
- Total contained metal value produced to date is over \$US 10 billion and the current production rate is approximately 800,000 tonnes/yr.