



Tres Valles Geology & Exploration Potential

Salamanca, Chile April 2019



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Certain statements in this presentation or the accompanying oral remarks, including in response to questions, contain forward-looking information (collectively referred to herein as the "Forward-Looking Statements") within the meaning of applicable securities laws. The use of any of the words "expect", "anticipate", "continue", "estimate", "may", "will", "project", "should", "believe", "plans", "intends" and similar expressions are intended to identify Forward-Looking Statements. In particular, but without limiting the forgoing, this presentation contains Forward-Looking Statements pertaining to: (i) expectations regarding the economic, exploration and expansion potential of MTV; (ii) the expected drilling and exploration strategy, including expected results therefrom; (iii) the LOM plan; (iv) expectations regarding copper, including supply/demand fundamentals, price and cost of production; (v) mineral reserve and resource estimates; (vi) Don Gabriel expansion feasibility study results; (vii) salt leach pre-feasibility study results; (viii) expectation that MTV will be able to convert historical estimates into mineral resources; (ix) expectations that deposits at MTV will be capable of expansion similar to other mining districts with "mantos-type" deposits; and (x) statements concerning anticipated future events, results, circumstances, performance or expectations, that reflect management's current expectations or assumptions which have been used to develop such statements and information but which may prove to be incorrect.

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Scientific and Technical Information

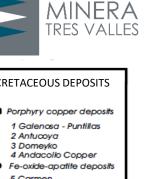
The scientific or technical information in this presentation relating to MTV is based on information prepared by Dr Antonio Luraschi, RM CMC, Manager of Metallurgic Development and Senior Financial Analyst, Wood; Mr Sergio Navarrete, RM CMC, Mining Engineer, Wood; Mr Alfonso Ovalle, RM CMC, Mining Engineer, Wood; Mr Michael G. Hester, FAusIMM, Vice President and Principal Mining Engineer, Independent Mining Consultants, Inc.; Mr Enrique Quiroga, RM CMC, Mining Engineer, Q&Q Ltda; Mr Gabriel Vera, RM CMC, Metallurgical Process Consultant, GVMetallurgy; and Mr Sergio Alvarado, RM CMC, Consultant Geologist, General Manager and Partner, Geoinvestment Sergio Alvarado Casas E.I.R.L., all of whom are independent "Qualified Persons" as such term is defined in National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101"), and included in the technical report filed in respect of MTV on December 14, 2018 (the "Consolidated MTV Technical Report").

Mineral resources described in this presentation are not mineral reserves and do not have demonstrated economic viability.

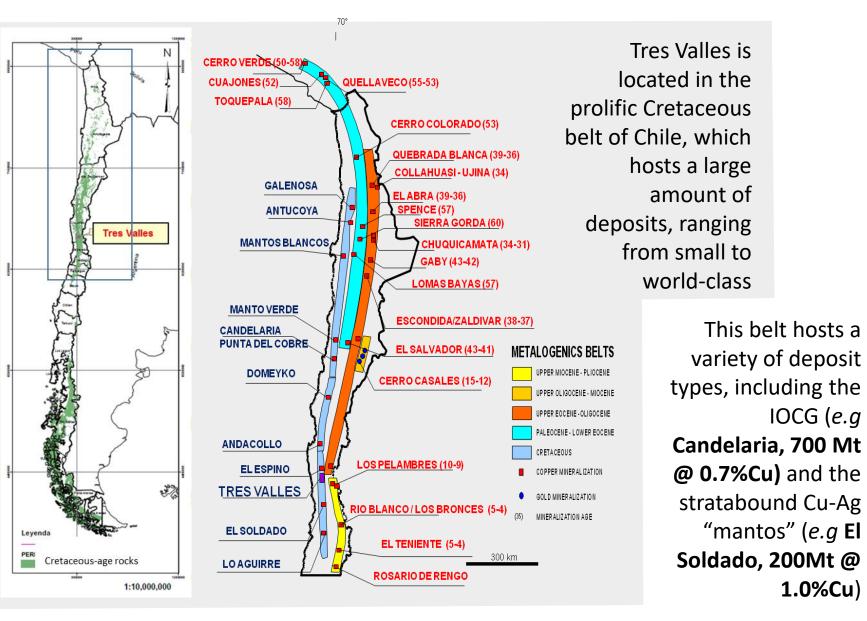
The Consolidated MTV Technical Report has been filed under the Company's profile on SEDAR and can be found at <u>www.sedar.com</u>. Readers are encouraged to read the report in its entirety.

Metallogeny of Chile



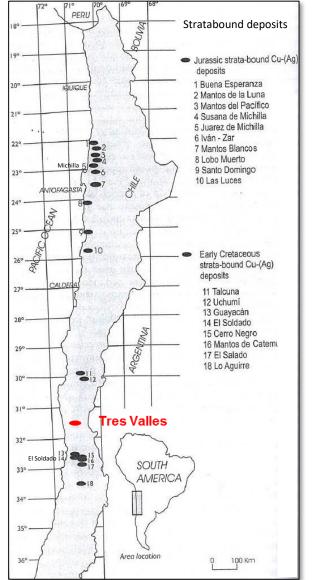


CRETACEOUS DEPOSITS PERU Porphyry copper deposits 100 200 5 Carmen 210 6 Bella Eater 7 Cerro Imán ٠ 8 Boquerón Chañar 22°. 9 Los Colorados 2 10 Huantemé 11 Algarrobo 23°. 12 Cristales CHILE 13 Cerro Negro NTOFAGASTĂ 14 El Tofo 24° 15 El Romeral 16 El Dorado 25 Fe-oxide-Cu-Au deposits ±3₽ 17 Manto Verde 18 Punta del Cobre • 19 Candelaria 170 Stratabound Cu-(Aa) 60 7 018 20 Talcuna This belt hosts a 21 Uchumi 33 A 22 Guavacán 280 23 El Soldado variety of deposit Z 24 Cerro Negro 25 Mantos de Catemu 200 26 El Salado 27 Lo Aguirre 30°-Cu skarn IOCG (e.g 28 San Antonio 29 Panulcillo 30 Cabildo 31 La Campana Tres Valles * Au-Cu-bearing veins 32 Sierra del Pinao 33 Ojancos SOUTH 330-34 El Capote 20+ 35 La Higuera AMERICA 36 Andacollo Gold 37 Mantos de Punitaqui "mantos" (e.g El 38 Illapel 39 Colliguay 10-40 El Tiare 41 Las Palmas Area location 1.0%Cu) 100 Km

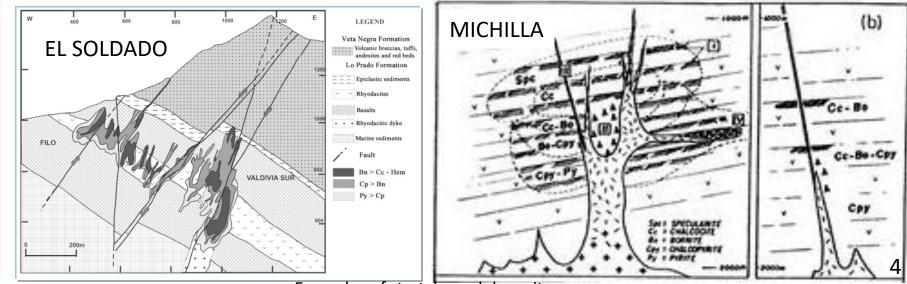


Stratabound deposits





- Jurassic or Early Cretaceous age in Chile, hosted in volcanics/volcanoclastics, subvolcanics or sedimentary rocks
- Developed in the intracontinental back-arc basins (rift zones)
- Epigenetic (hydrothermal or LG metamorphic origins are suggested)
- Albite is the most common alteration
- Mainly stratiform ("manto-type") but can be lens, breccia pipe, vein or irregular shape, sometimes present in the same deposit
- Main controls are lithologic (permeable strata) and/or structural (extensional faults) or intrusion-related
- Main ore minerals are Chalcocite, Bornite and Chalcopyrite and associated oxides. Supergenic enrichment is not common (Py poor)

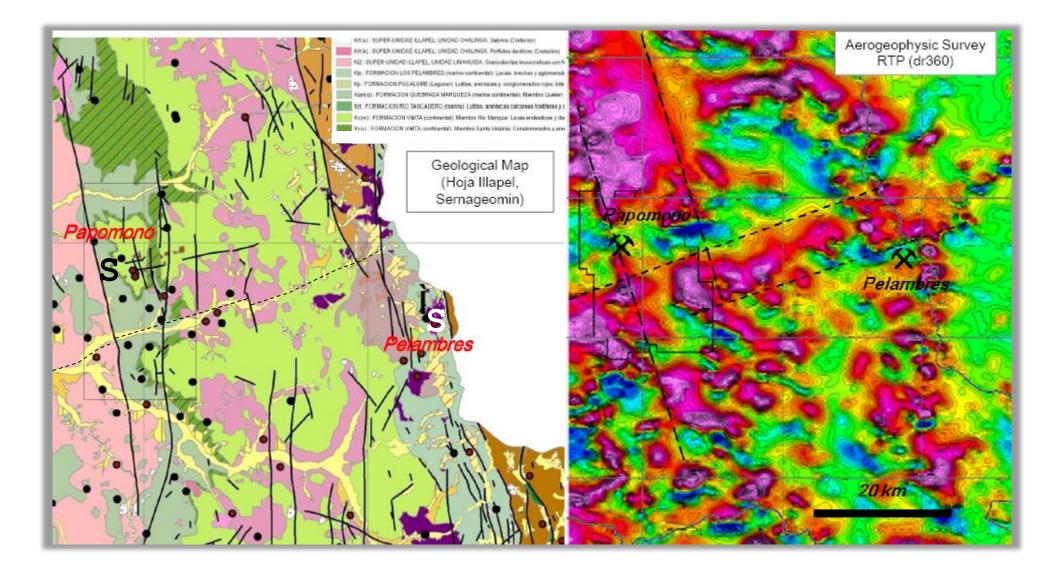


Examples of stratabound deposits

Tres Valles – Regional Geology

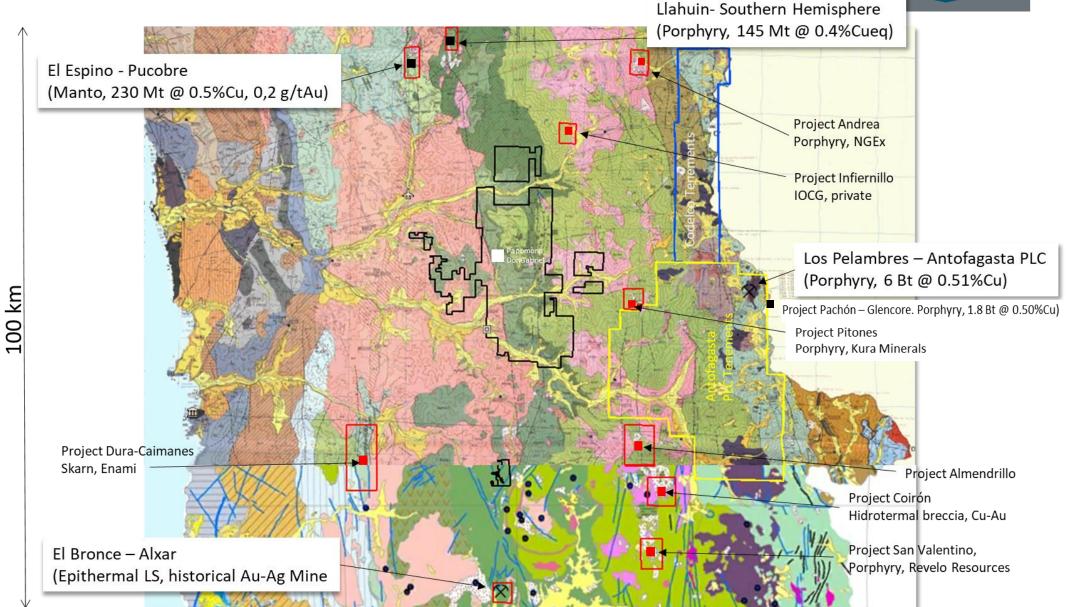






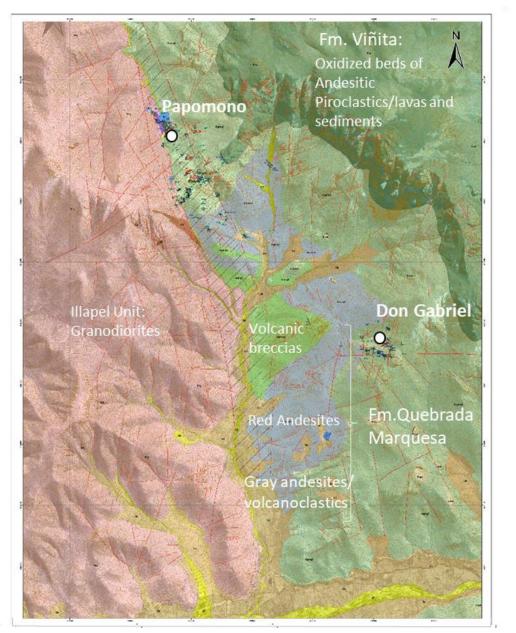
Tres Valles Neighborhood





Lithostratigraphy in the Mine Zone





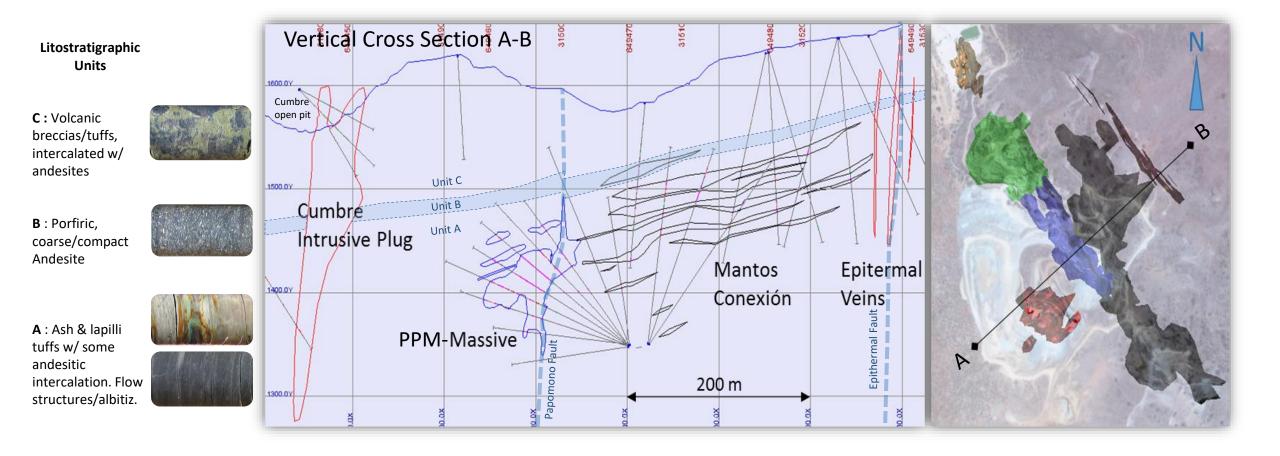
Supergroup Illapel: Middle-late Crataceous granodiorites to monzogranites. It is mainly present at the wide Illapel batholith, west of the main mineralized zone.

Viñita Fm: Late Cretaceous, Andesitic and dacitic rocks, pyroclastic (breccias, agglomerates and tuffs), sandstones and conglomerates. Generally red colors (continental facies)

Quebrada Marquesa Fm: Barremian-Albian Andesites, volcanic breccias, agglomerates and lapilli tuffs, subordinately sandstones and conglomerates. Generally with gray colors at the main mineralization zones. Also with presence of carbonaceous material

Papomono Mineralization Control

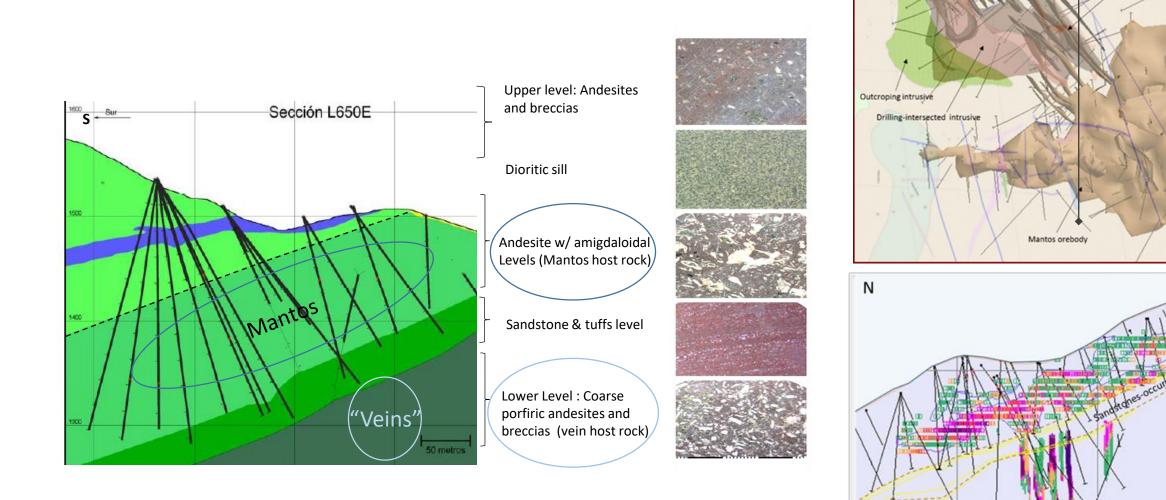




Don Gabriel Mineralization Control



Veins orebodies

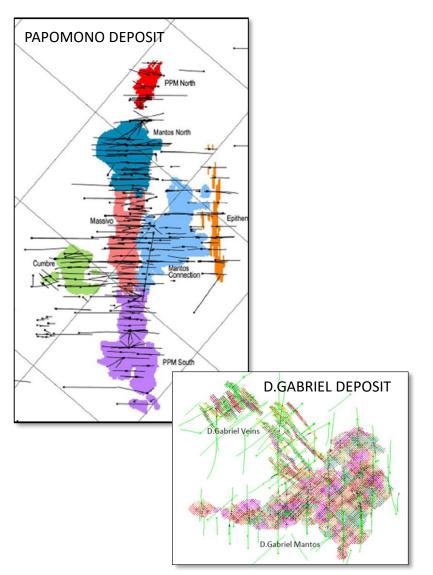


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Mineral Resources



		Ore	CuT	CuS	CuCn	CuR	Cu content
		Ktonnes	(%)	(%)	(%)	(%)	Tonnes
Meas/Ind Mineral Resource	COG						
Don Gabriel Manto	0.20	6,459	0.83	0.113	0.620	0.095	53,441
Don Gabriel Veins	0.64						
PPM Massivo	0.34	3,340	1.86	0.456	1.270	0.130	61,996
PPM Mantos Connection	0.59	1,549	1.06	0.340	0.500	0.220	16,406
PPM Cumbre OP	0.19	2,654	0.53	0.093	0.387	0.054	14,185
PPM Cumbre BC	0.34	351	0.48	0.040	0.414	0.024	1,678
PPM South	0.58	1,623	1.11	0.290	0.726	0.091	17,954
Epithermal	0.65	509	0.98	0.338	0.323	0.320	4,988
Mantos North	0.58	1,467	1.03	0.473	0.495	0.065	15,145
PPM North	0.19	352	0.99	0.575	0.272	0.139	3,473
Total Meas/Ind Mineral Resource		18,304	1.03	0.250	0.675	0.109	189,266
Inferred Mineral Resource							
Don Gabriel Manto	0.20	79	0.70	0.501	0.123	0.074	551
Don Gabriel Veins	0.64	2,020	1.33	0.137	1.043	0.151	26,886
PPM Massivo	0.34	22	2.64	0.415	1.977	0.251	581
PPM Mantos Connection	0.59	117	0.79	0.282	0.184	0.325	927
PPM Cumbre OP	0.19	537	0.66	0.167	0.416	0.081	3,566
PPM Cumbre BC	0.34	298	0.53	0.066	0.426	0.038	1,579
PPM South	0.58	111	0.95	0.399	0.379	0.168	1,051
Epithermal	0.65	223	1.01	0.476	0.207	0.328	2,255
Mantos North	0.58	37	1.39	0.702	0.387	0.298	513
PPM North	0.19	13	2.90	0.496	2.227	0.180	377
Total Inferred Mineral Resource		3,457	1.11	0.188	0.770	0.149	38,287

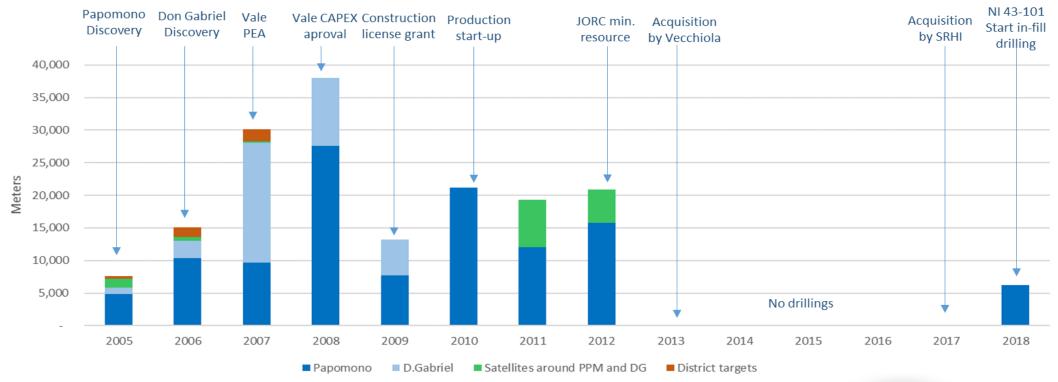


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Drilling History

MINERA TRES VALLES

Drilling History and main Milestones in Tres Valles (*)



^(*) Includes 1.039 m drilled in a small miner property under option agreement, 5km from Papomono Excludes 5.286 m drilled in third-party regional projects > 15km from Papomono

- Vale's strategy in 2005 was focused on product & geography diversification
- In Chile, the goal was to start an operation in a maximum term of 5 years
- The Project implementation was approved at the beginning of 2008, and no further exploration has been carried out since then
- After 11 years, exploration will restart at Tres Valles in 2019



Papomono

D.Gabriel

Satellites

District targets

9% 2%

66%

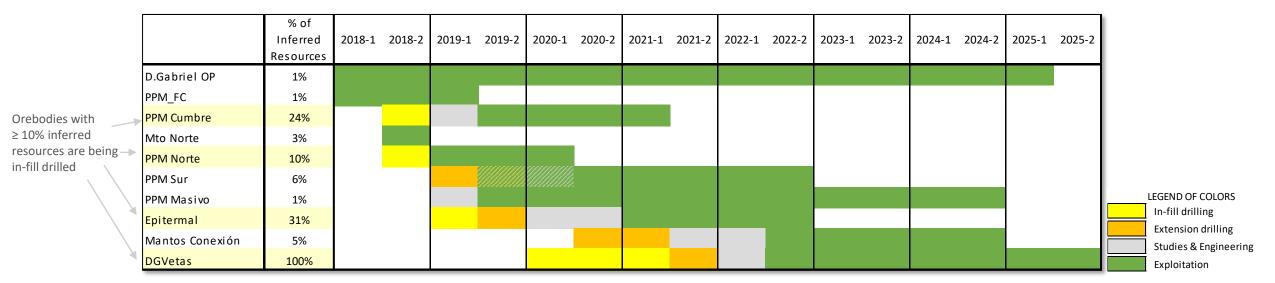
23%

Drilling and Exploration Strategy



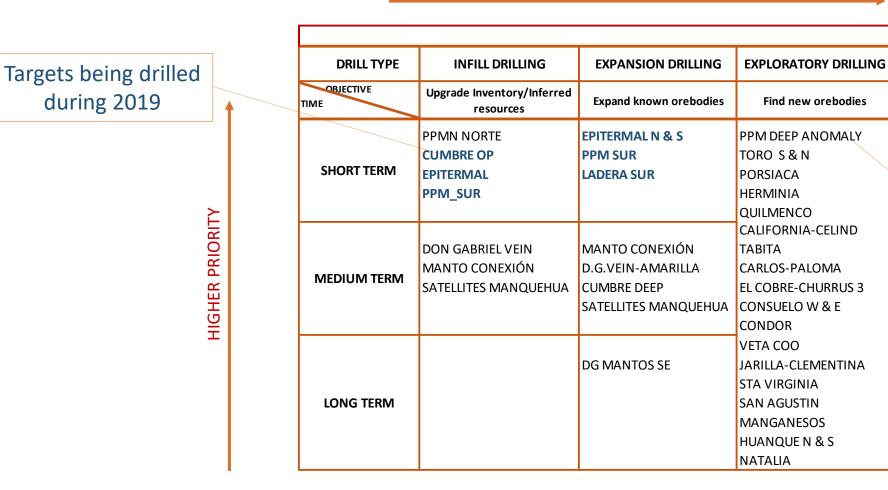
Stage	Objective	Where	Priority Criteria	
In-fill drilling	Upgrade inventory and inferred resources	Orebodies with ≥ 10% inferred resources (as contained copper)	Time to start-up of exploitation	
Extension Drilling	Expand known orebodies	Orebodies with open sides and good expansion potential	Time to start advanced studies/engineering	
Exploratory Drilling	Add new orebodies	Targets with potential for ≥ 50 Kt of contained copper in resources	Size potential; Mineralogy & grade of ore; Distance to plant	

Three stages of drilling in parallel, aiming to constantly feed the project pipeline and ensure an extended LOM



Main Targets : Time vs Stages

HIGHER GEOLOGICAL RISK, HIGHER POTENTIAL REWARD

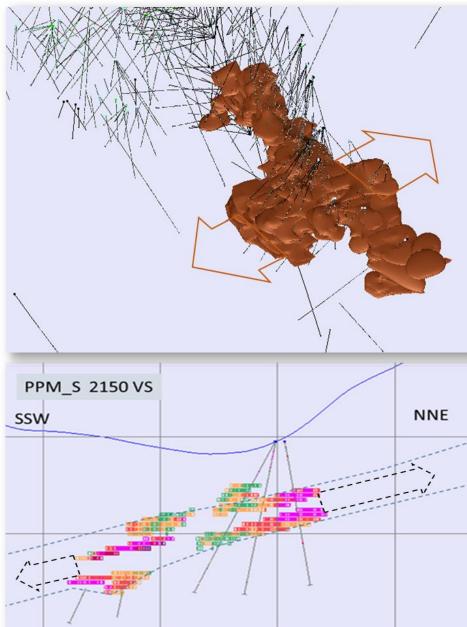


First exploration targets to be drilled are going to be selected based on field workings and geophysical results

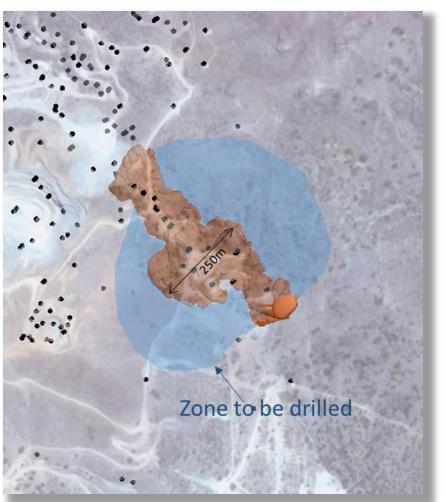


Expansion Potential at Papomono-Sur



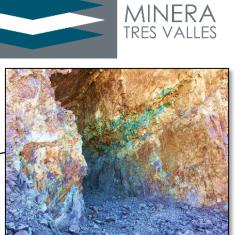


- PPM Sur zone was discovered at the end of 2011 and only one campaign was performed in 2012, with a single base-line of fan-drillings
- All the sections present open manto-type mineralization (average 1.1% Cu) to the East and some to the West.
- Target: reach 400m
 along dip, same as
 Mantos Conexión

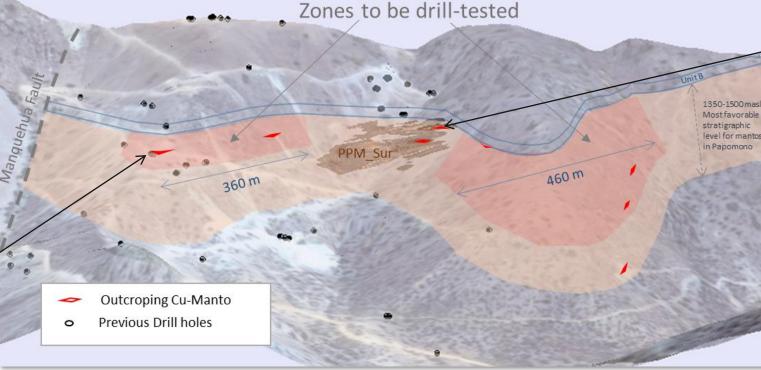


Ladera Sur Target

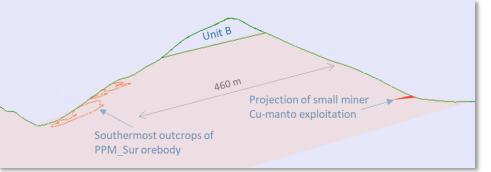






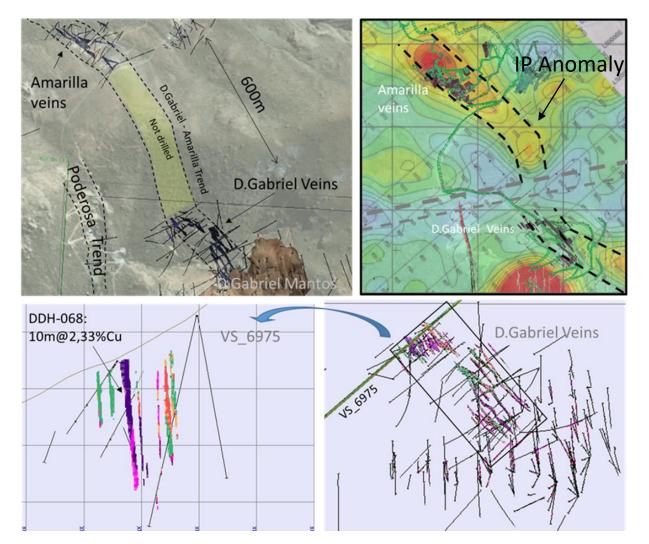


Ladera Sur is a 1 km-long exposure of favorable strata (lapilli/ash tuffs and andesites) with several outcrops of manto-type Cu mineralization



Other Examples of Expansion Potential

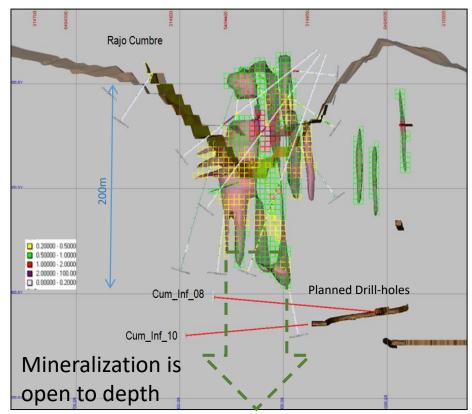
DON GABRIEL VEINS: besides the great amount of mineralized material to be upgraded through in-fill drilling, the veins are open to NW, with last section presenting high-grade intersections (*e.g.*, 10m @ 2.33%Cu)





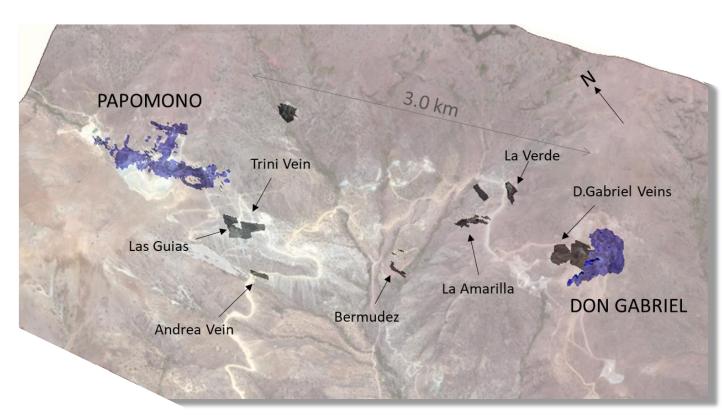
CUMBRE is a diorite-grabro plug with 230m-diameter exploited by open pit in 2011-2012.

The mineralization was disseminated CC and oxides at surface which gradates to cc-bo downward. Drill-holes cut intervals of disseminated mineralization >100m (Ex: **DH-102: 379m @ 0,5%Cu** and DH-206: **111m @ 0,9%Cu**





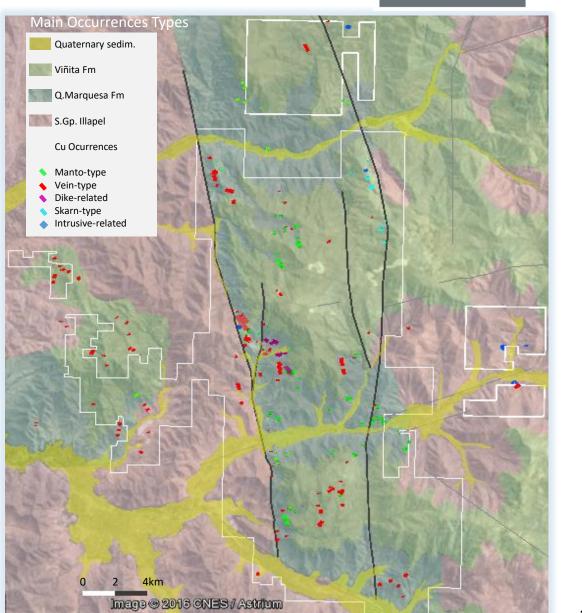
Additional Mineralized Material Around Deposits



- There is an important amount of mineralized material that was not included in the 2018 resource statement due to insufficient drilling
- Some of them are already being exploited via third-party leasing (e.g. La Verde and La Amarilla)
- Most of this material can be upgraded to mineral resources with additional drilling

District Exploration Potential

- More than 100 Cu occurrences have been mapped in the mining properties
- Different styles of mineralization have been found in the tenements block to date, with characteristics of Mantos, veins, skarns, IOCG and intrusive-hosted mineralization
- 70 artisanal exploitation points have been registered. Some of them have geological characteristics similar to what we saw at the Papomono and Don Gabriel orebodies when they were first mapped in 2005
- Historically, similar mining districts have expanded their reserves several times over due to the tendency of manto-type deposits to cluster (up to tens of small-to-medium size orebodies)



minera

TRES VALLES

Artisanal Mining as an Exploration Tool





- MTV takes advantage of the intense artisanal mining activity in the district as privileged exposures of mineralized zones can be observed
- Detailed mapping and sampling of artisanal mines, together with traditional prospection methods, is a key tool for the targets' geological interpretation and ranking
- Cumbre and Don Gabriel orebodies were drilled based on preliminary modeling from small pits mapping





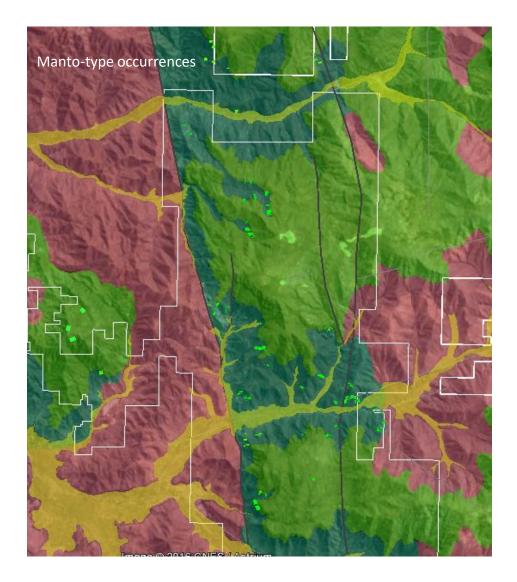






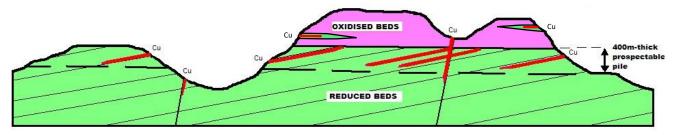
Manto-type Prospects



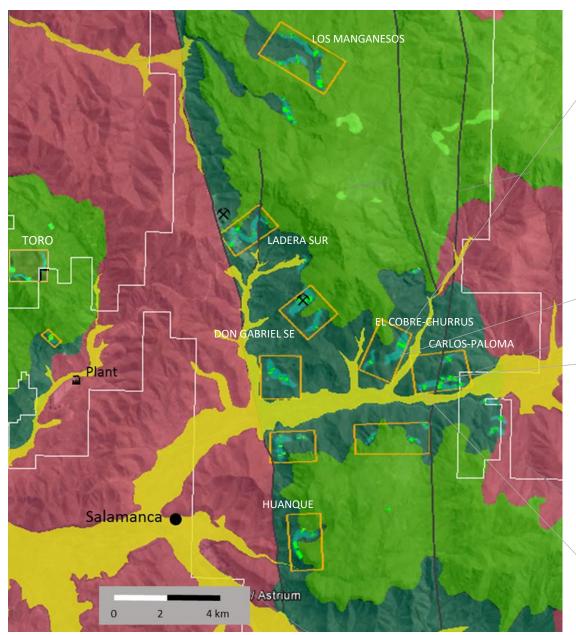


- Most of the known manto-type occurrences at Tres Valles are located in the uppermost 200m of Q.Marquesa Fm, under the contact with Viñita Fm (generally between 1300 and 1500 m.a.s.l.), which is a regional redox zone (chemical trap for Cu precipitation)
- Reduced lenses inside Viñita Fm are also mantos host-rocks
- Targets are sets of mantos with tens of meter-thick and strikes > 300m.

Most common situations for mantos-hosting deposits:

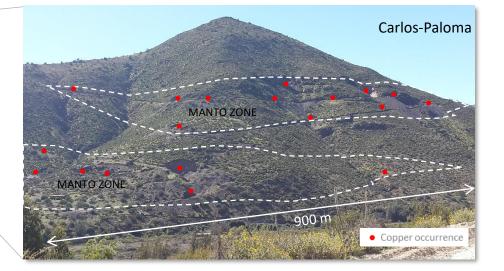


Main Mantos Horizons and Targets



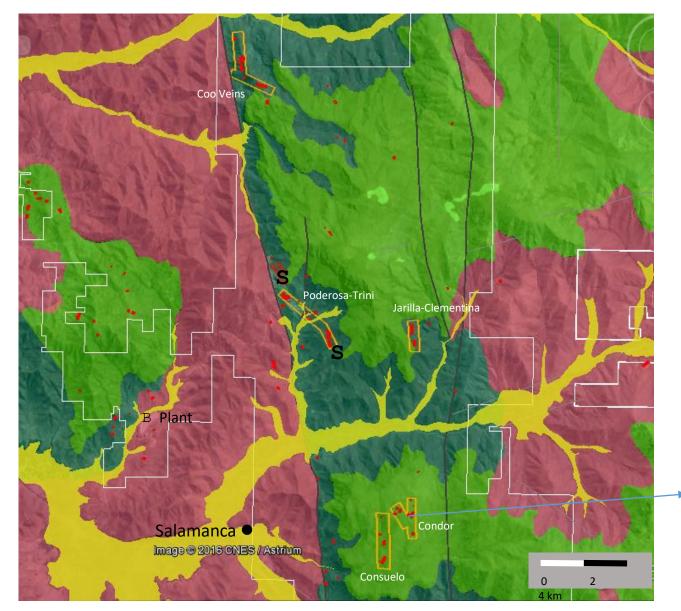






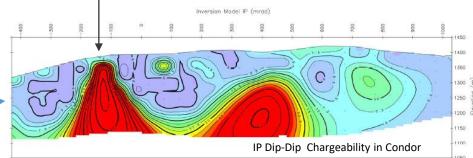
Vein Occurrences and Main Exploration Targets





- In several parts of the district, there are sets of 100 to 600 m veins that are aligned in more than 1 km long trends
- Grades in veins are typically higher than 1.5 % Cu
- Besides the vein-type potential, mantos can be also found at depth, as these structures worked as plumbing systems for hydrothermal fluids

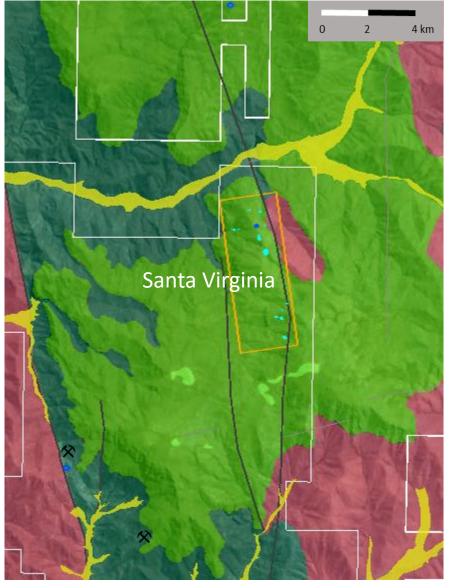
Anomaly identified 400 m south of Condor Vein

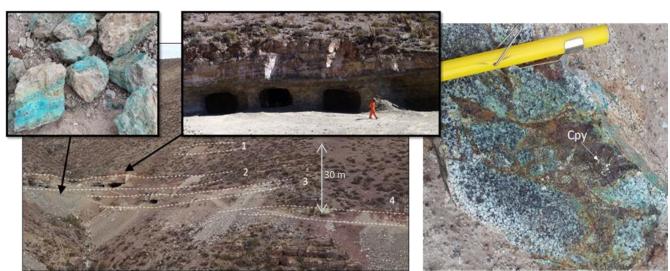


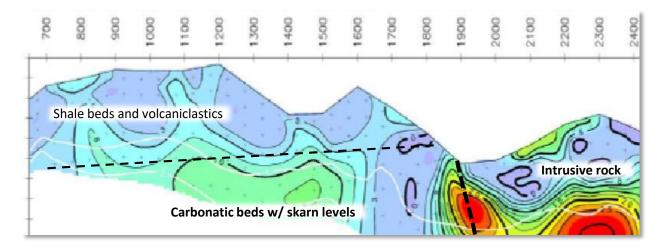
Section from an IP grid with 1700 m long conductor trend

Skarn Occurrences and Exploration Targets





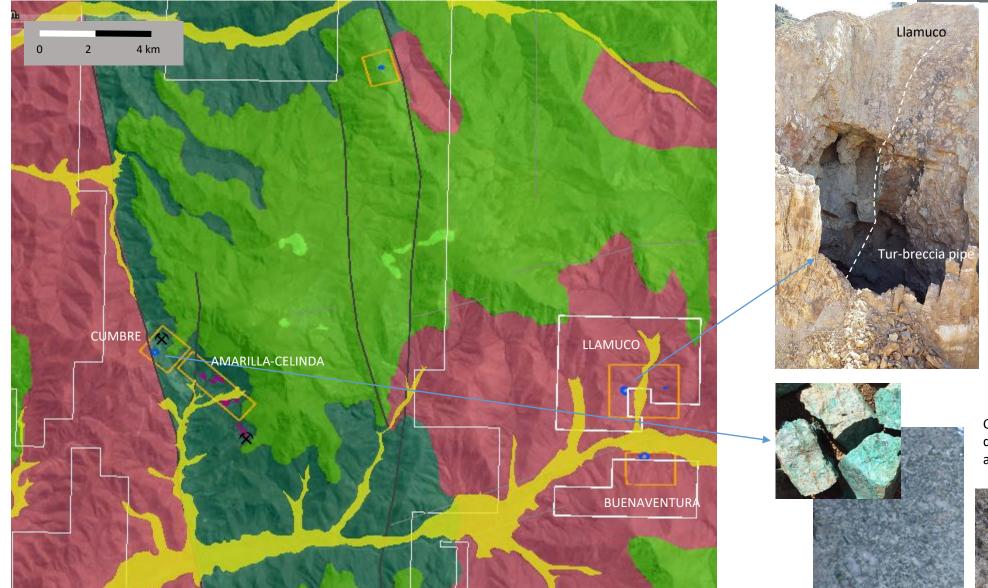




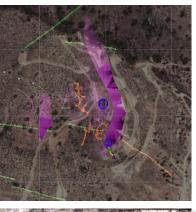
Intrusion-hosted Occurrences and Main Targets







Llamuco breccia pipes





Turmaline breccia with sulfides

Cumbre: Near surface oxides and deeper sulfides, disseminated (I) and in sheeted veinlets (r)



Conceptual Target: Cu-Porphyry

A hypothetical porphyry system is suggested based on the following characteristics:

- Presence of a wide (2 x 1 km) zone of Quartz-Sericite-Pyrite under the stratabound Papomono deposit, similar to phyllic zones of porphyries
- Presence of a high-intermediate sulphidation epithermal vein containing alunite, dickite, enargite, tenantite and pyrite in the NE part of the deposit. This assemblage is not found in any other part of the Papomono deposit and is characteristic of the upper part of porphyry systems

500°-900°

Acidic fluid

000

300

SO2, HCI, CO2

GEOTHERMAL SYSTEM

Hotsprings

ANK

Meteoric

100°

CO2, H2S

Low sulfidation

Saline magmatic fluid

Liquid flow

Vapor ascent

SYSTEM

200°-300°

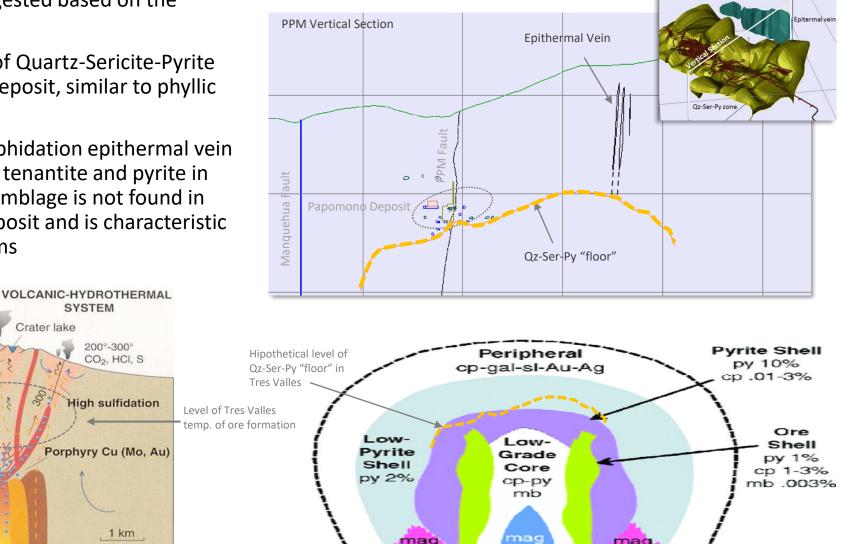
CO2, HCI, S

High sulfidation

1 km

Approximate scale

Crater lake





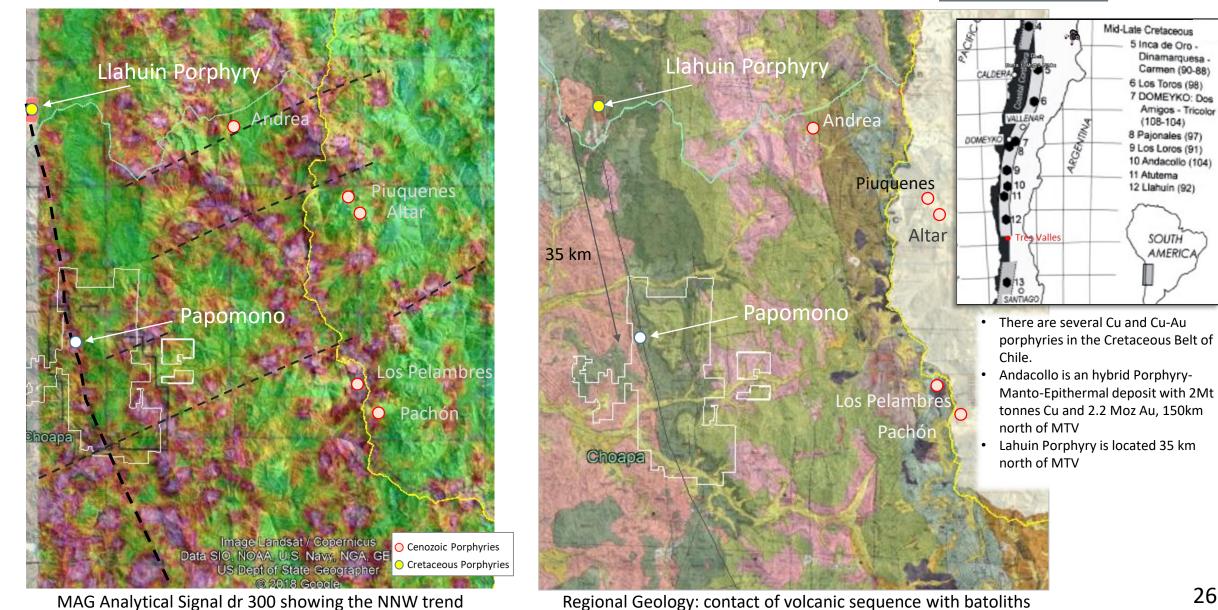
Primary

MINFRA TRES VALLES

Regional Context for a Porphyry



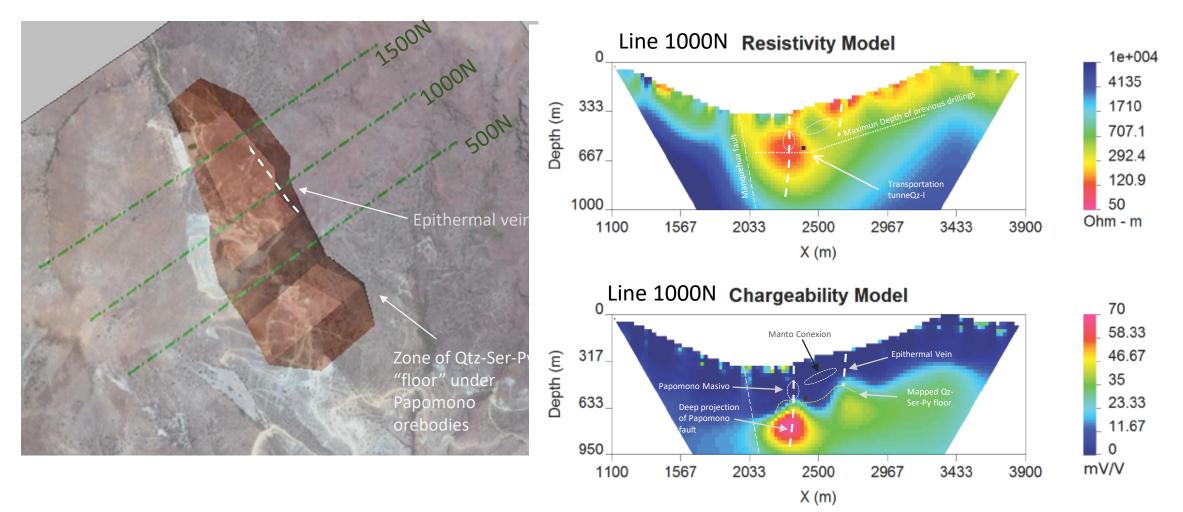




Papomono - Deep Anomaly



Three 3km-long lines of IP MIMDAS with Telluric Cancelation was performed during March in the Papomono area



A strong chargeability anomaly was identified ~ 300m under present UG workings, toward a deeper projection of Papomono Fault (main feeder zone of Papomono deposit). A weaker, parallel anomaly is located under Epithermal Vein. 27