

# August 2020 ORGANULLO PROJECT

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# **Opportunity – Advanced Exploration**



#### Tier 1 Drill Targets, Excellent Upside Exploration Potential

- Previously unrecognized porphyry mineralization at surface
- Locally high-grade epithermal gold at surface
- Juxtaposed epithermal/porphyry mineralization; system likely Telescoped
- Evidence for Multiple copper gold endowed magmatic hydrothermal centers
- Large alteration and mineralization footprint(s)
- Multiple untested epithermal gold and copper porphyry targets
- Critical mass of historical exploration data including drilling, ASTER/SWIR Alteration, rock/soil samples, CSAMT, magnetics



# **Regional Setting**

#### **Regional Area Selection Criteria**

- Gold endowed Argentine Puna region; the southern extension of the Altiplano of southern Peru
- Road access, 20 Km south of San Antonio de Los Cobres and approximately 100km W-NW from the city of Salta
- Intense high-temperature alteration with +6 Km gold and copper prospective footprint
- Subaerial mafic and felsic volcanic rocks, hypabyssal intrusions
- Confirmed porphyry and epithermal mineralization

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#### **Exploration History**



Tenure holder	Year	Work Completed	
Unknown	1930's	Julio Verne Mine	
Fabricaciones Militares	1969 - 1974	Reconnaissance geology, geochemistry	
Cities Service Corporation	1975	Geochemistry, IP, 1 RC drill hole	
Triton Mining Corp & Northern Orion	1994 - 1995	Surface sampling, mapping, grid chip sampling, 17 RC drill holes	
Newmont Overseas Exploration Ltd. (Chile)	1996	Property review	
Northern Orion Explorations Ltd.	1997 - 1999	6 diamond drill holes, 12 RC drill holes	
Cardero Resource Corp.	2004 - 2010	Staking, mapping, surface geochemistry, petrography, PIMA analyses, CSAMT survey, Magnetic survey, Aster data interpretation, 8 diamond drill holes	
Artha Resources	2012 - 2015	Structural study, NI-43 101 Report	
Latin Metals Inc.	2016 - 2018	Surface sampling, defining drill targets Yamana option agreement	
Yamana Gold	2019 - 2020	Mapping, surface geochemistry, terraspec, 14 diamond drill holes	

Cumulative work done				
Current Land Package	7606 Ha			
Diamond Drilling	28 holes @ 5872 m			
RC Drilling	30 holes @ 5107m			
Soils	152 samples			
Talus & Stream Sediments	470 samples			
Rocks	3158 samples			
PIMA Analysis	228 samples			
CSAMT Survey	18 line-km			
Ground Magnetics Survey	110 line-km			



### **Geology & Alteration**



> Altered subaerial andesitic and dacitic volcanic and subvolcanic rocks on siliciclastic basement, dip shallowly northeast





#### **Aster Alteration: Dickite & Silica**



> Dickite-silica alteration consistent with multiple distinct hydrothermal centers



### **Geochemistry: Gold**



Sold endowment demonstrated by high grade rock and soil samples; numerous targets remain unsampled





### **Geochemistry: Copper**



Copper endowment demonstrated by high grade rock and soil samples; numerous targets remain unsampled





#### **Geophysics: Ground Magnetics**



> High magnetic contrast for geological mapping, compelling magnetic low SE Organullo Ridge may be magnetite destruction



### **Geophysics: CSAMT**



> Compelling resistivity distribution indicates potential for subsurface silicification



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### Drilling



> Historical drilling concentrated along Organullo Ridge, multiple additional centers untested



#### **Gold Intercepts**

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> Historical intercepts support gold endowment of the project

#### Significant drill-hole intercepts

Hole ID	From	То	Interval (m)	Au (g/t)
<b>DD19</b>	<b>19</b>	<b>110.7</b>	91.7	0.66
Inc.	38.5	<i>48.3</i>	9.8	2.9
ORG10-05	<b>16.4</b>	<b>256</b>	<b>239.6</b>	<b>0.24</b>
Inc.	54	82.1	28.1	0.62
Inc.	208.75	219.15	10.4	1.26
DD23	48	<b>78.7</b>	30.7	0.48
Inc.	72	74	2.0	2.39
ORG10-08	116.4	175.2	58.8	0.29
RC05	0	189	<b>189</b>	0.66
Inc.	86	<i>88</i>	2.0	20.9
<b>ORDH-0006</b>	<b>34</b>	<b>37</b>	<b>3.0</b>	<b>3.2</b>
Inc.	<i>34</i>	<i>35</i>	1.0	7.1
ORDH-0014	0	118	118	0.3



## **Mineralization Styles**

> Juxtaposed epithermal and porphyry environments

#### High Grade Epithermal: e.g. ORDH-0006





#### Bulk Grade Porphyry: e.g. ORDH-0003



#### **Mineralization & Alteration**



Organullo may represent one or more telescoped systems



**ORG10-05: 218.5m 1.61 g/t Au, 6.2 g/t Ag** White, wispy chalcedonic quartz vein hosting brecciated clasts of grey qtz-sulfide (py+sulfosalt?).



**ORG10-06: 48.2m 0.37 g/t Au, 1.1 g/t Ag** Fault breccia hosting silicified meta-sedimentary clasts in jarosite-clay matrix.



**ORG10-06: 140.5m 0.08 g/t Au, 102 g/t Ag** Dacite porphyry cut by stockwork of grey qtz-py veinlets. Sericite altered.



**ORG10-06: 93.5m 2.46 g/t Au, 1.4 g/t Ag** Dacite porphyry cut by minor light grey, irregular qtz veinlets and jarositic fractures. Hematitic.



**ORG10-07: 53.8m 3.03 g/t Au, 15.4 g/t Ag** Silicified, illite-altered meta-sandstone cut by a network of irregular qtz-py veinlets.



**ORG10-04: 89.4m 0.53 g/t Au, 2.8 g/t Ag** *Illite/sericite-quartz altered meta-siltstone cut by grey qtz-py stringers and irregular white qtz-chalcedony veinlets.* 



**ORG10-05: 208.4m 0.06 g/t Au, 0.9 g/t Ag** Dacite porphyry cut by stockwork of grey qtz-py veinlets. Sericite altered.



**ORG10-08: 131.8m 0.25 g/t Au** Granodiorite subvolcanic cut by minor pyrite stringers with white k-spar alteration halos.

# **Geologic Cross-Section Interpretation**

- Organullo Ridge Target geometry and 3D architecture of magmatic hydrothermal system
- Volcanic/subvolcanic and basement rocks mineralized
- Porphyry and epithermal environments juxtaposed and mineralized
- Interpretation suggests systems tilted toward the northeast (paleo down toward southwest)







1000 m

# **Geologic Longitudinal-Section Interpretation**

- Surface geology, alteration, mineralization and magnetics suggest multiple centers/targets
- Limited surface exploration and diamond drilling outside of Organullo Ridge
- Sufficient distribution of favourable host rocks for large epithermal gold and/or porphyry copper gold deposit







#### **Summary**



- Large land position with potential for high grade and large bulk minable deposits
- Confirmed telescoped epithermal and porphyry systems with mineralization at surface
- Locally high-grade epithermal gold at surface; breccia widespread epithermal regime
- Large altered and mineralized footprint(s)
- All lithologies in section host mineralization
- Multiple untested epithermal gold and copper porphyry targets
- Drill ready, road accessible advanced exploration project





3m @ 3.2 g/t Au incl. 1m @ 7.1 g/t Au



13m @ 0.83 g/t Au



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