



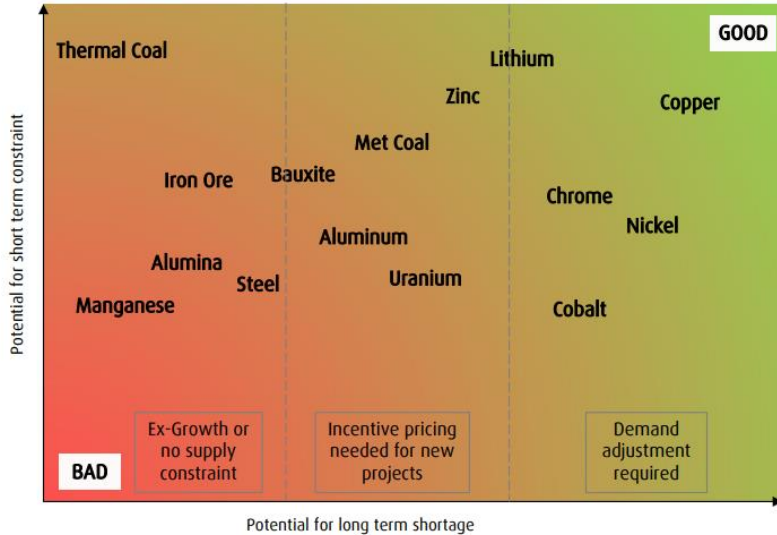
**SONORAN DESERT COPPER CORPORATION**  
**TSX-V: SDCU**

**A NEW PERSPECTIVE ON THE  
CUATRO HERMANOS COPPER PROJECT**

**CONFIDENTIAL | JUNE 2023**

# WHY COPPER

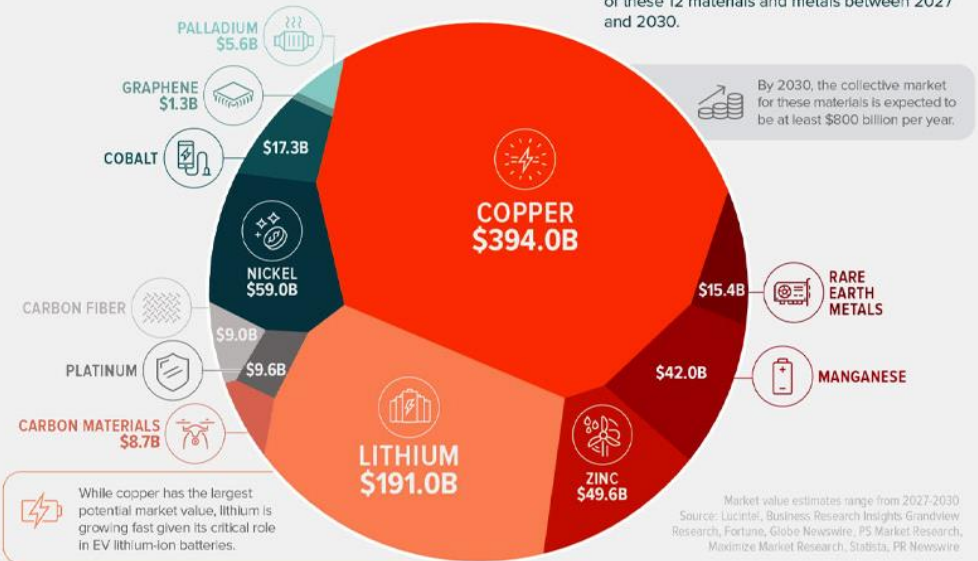
## BMO COPPER CASE - ENERGY TRANSITION Short-Term Constraint & Long-Term Shortage



## THE FUTURE VALUE OF DISRUPTIVE MATERIALS

Backed by large investments in climate-friendly technologies, the market for disruptive materials is poised for robust growth.

Let's take a deeper look at the expected value of these 12 materials and metals between 2027 and 2030.



# WHERE ARE THE GIANT COPPER PORPHYRIES





# CUATRO HERMANOS – THE HISTORIC VIEW

“The historic view of the Cuatro Hermanos Project is that the economics are supported by its size, proximity to infrastructure and above average molybdenum grades, but constrained by its marginal copper grades.”

“It is our view, based on almost 20 years of experience in the analysis, exploration and development of copper porphyry assets, that the historic view of Cuatro Hermanos is wrong.”

“The following overview of the phase 1 work program is the first step in our plan to reveal the enormous value that has been locked away at Cuatro Hermanos for over half a century, to the exclusive benefit of our shareholders.”

**Brian Leeners, CEO of Sonoran Desert Copper Corporation**

# 4H – THE NEW GEOTECH TEAM

**The Phase 1 Work Program**, which concluded in May 2023, was conducted by MineOro Explorations LLC under the direction of Michael Feinstein, PhD, CPG, and Jocelyn Pelletier, PGeo, MS.

Mike and Josh (pictured here at 4H) both have extensive experience with the geology and mineralization associated with the Laramide Cu-Porphyry Province of northwestern Mexico.

**A new 43-101 Technical Report will be delivered in June 2023.**



Josh Pelletier, MS, PGeo

Michael N. Feinstein, PhD, CPG

# 4H – PHASE 1 WORK PROGRAM

## **Phase 1 – Work Program & Deliverables (completed April-May 2023)**

- Core shack sampling in Hermosillo and field sampling and analysis
- Multi-element geochemistry, 4-acid digestion, ~300 project samples
- Drone imagery/terrane model - high-resolution imagery & surface topography model
- Complete 3D GIS (w. drill data) including sub-surface modeling
- Microscopy - Fluid Inclusions, Petrographic, Reflected Light
- 3D Targeting Analysis of the Historic Resource area and Conceptual Geologic Model
- Exploration Recommendations / Planning / Permitting Phase 2 Drilling
- **43-101 Technical Report (June 2023)**

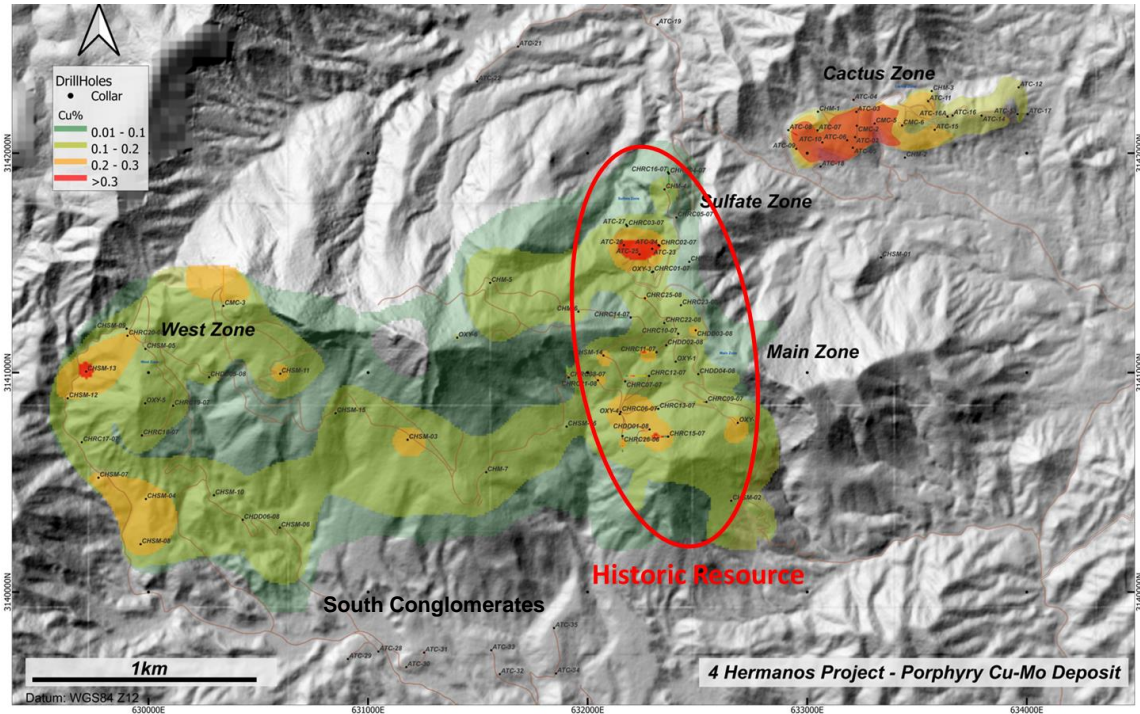


# 4H – SIZE & SCALE



- Cuatro Hermanos (4H) is contained within a large claim block of 2,825 hectares, which covers most of the porphyry Cu-Mo mineralized intrusive complex.
- San Lorenzo is an even larger concession of 5,300 hectares to the south of 4H and appears to contain another porphyry Cu-Mo mineralized intrusive complex.

# 4H – WORK TO DATE



The vast majority of drilling completed at 4H, to date, has been focused on the following areas:

- Main Zone
- Sulfate Zone
- Cactus Zone
- West Zone
- South Conglomerates Zone

The Historic Resource at 4H is entirely contained within the Main Zone and Sulfate Zone.



# 4H – HISTORIC RESOURCE (2008)

## 4H Historic Resource

| 4H Historic Resource Estimate (2008)  |        |  |          |          |               |             |
|---|--------|--|----------|----------|---------------|-------------|
| A 2008 Technical Report stated Resources at a range of cut off grade assumptions. |        |  |          |          |               |             |
| At a cut off grade of 0.30% EqCu the resources stated in 2008 were:               |        |  |          |          |               |             |
| 177,917,000 mt in Indicated Resources at 0.2049% Cu and 0.0224% Mo                |        |  |          |          |               |             |
| 464,850,000 mt in Inferred Resources at 0.1830% Cu and 0.0242% Mo                 |        |  |          |          |               |             |
|   |        |  | Cu Grade | Mo Grade | Cu Pounds     | Mo Pounds   |
| 177,917,000   | tonnes |  | 0.2049%  | 0.0224%  | 802,014,253   | 87,677,498  |
| 464,858,000   | tonnes |  | 0.1830%  | 0.0242%  | 1,871,518,308 | 247,490,399 |
| 642,775,000   | tonnes |  |          |          | 2,673,532,561 | 335,167,897 |

- Resource was calculated by Virgin Metals in 2008
- Resource Data: Occidental Petroleum, Amoco, Morgain Minerals, BHP and Virgin Metals (2007 drilling)
- Resource is from 13,854.5 metres drilled over 97 drillholes between 1969 and 2007 in Main & Sulfate Zones
- Drillholes intersect disseminated Cu/Mo mineralization with an enrichment zone overlying the sulphide zone
- **Note:** Phelps Dodge drilling in the South Conglomerates Zone is not included in the Historic Resource

# 4H – RESOURCE POTENTIAL

| Zone                  | Status           | Open     |
|-----------------------|------------------|----------|
| 4H - Main             | Resource         | Depth    |
| 4H - Sulfate          | Resource         | Depth    |
| 4H - Cactus           | Drilled          | None     |
| 4H - Cerro San Felipe | Limited Drilling | Entirely |
| 4H - West             | Limited Drilling | Entirely |
| 4H - N Conglomerate   | Limited Drilling | Entirely |
| 4H - S Conglomerate   | Limited Drilling | Entirely |
| 4H - Noeli            | Limited Drilling | Entirely |
| 4H - Tortuga          | Limited Drilling | Entirely |
| 4H - Sapuchito        | Limited Drilling | Entirely |
| San Lorenzo           | No Drilling      | Entirely |

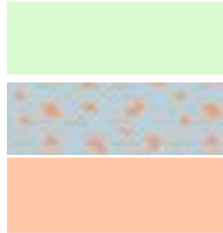


# 4H – HISTORIC COPPER GRADES

Volcanic Complex

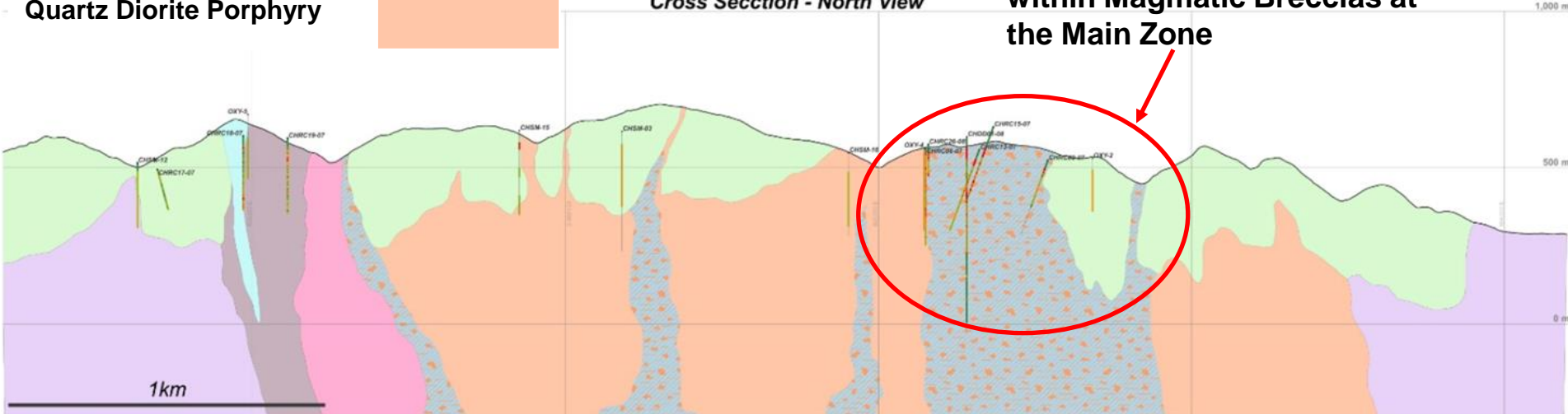
Magmatic Breccia

Quartz Diorite Porphyry



Cross Section - North View

Historic Resource contained within Magmatic Breccias at the Main Zone





# 4H – MAIN ZONE HG COPPER IS FROM BELOW

**Breccias** are formed by an explosive escape of gas from lava that is solidifying or they can be formed as intrusive breccias by intrusion of magma.

Many of the fragments inside the magmatic breccia in the Main Zone at 4H are mineralized with Type-A veins and...

**These fragments are coming from down below... the source.**



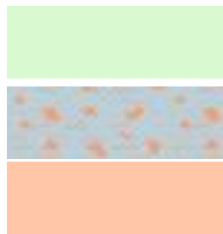
Type-A vein found in a fragment of the porphyric diorite in the Main zone at 4H.

# 4H – GEOLOGICAL CROSS SECTION

Volcanic Complex

Magmatic Breccia

Quartz Diorite Porphyry



Cross Section - North View

West Zone

**CHDD05-08**

Cerro San Felipe

Main Zone

Very few historic drill at 4H tested the main body of the porphyry but CHDD05-08 provides the best close-to visual...

1km

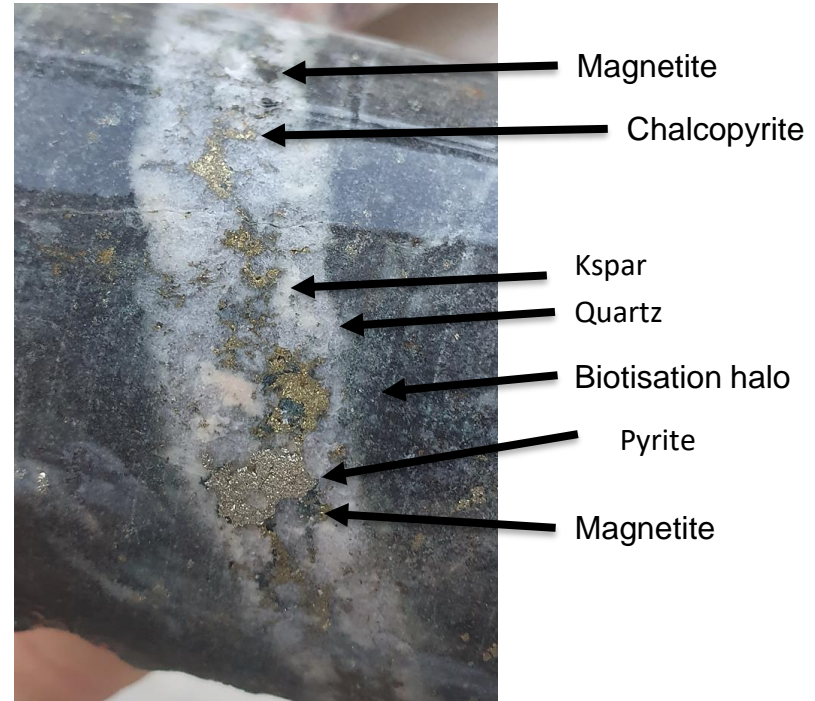
# 4H – DRILL HOLE CHDD05-08

## Virgin Metals drill hole CHDD05-08:

- Typical Type-A vein which is made of disseminated pyrite-magnetite-chalcopyrite, found in granular quartz-Kspar vein matrix.
- This is very common in the main body of a Porphyry Copper deposit.

***Interpreted as a mid-proximal type-A veinlet.***

CHDD05-08 – 43.9m



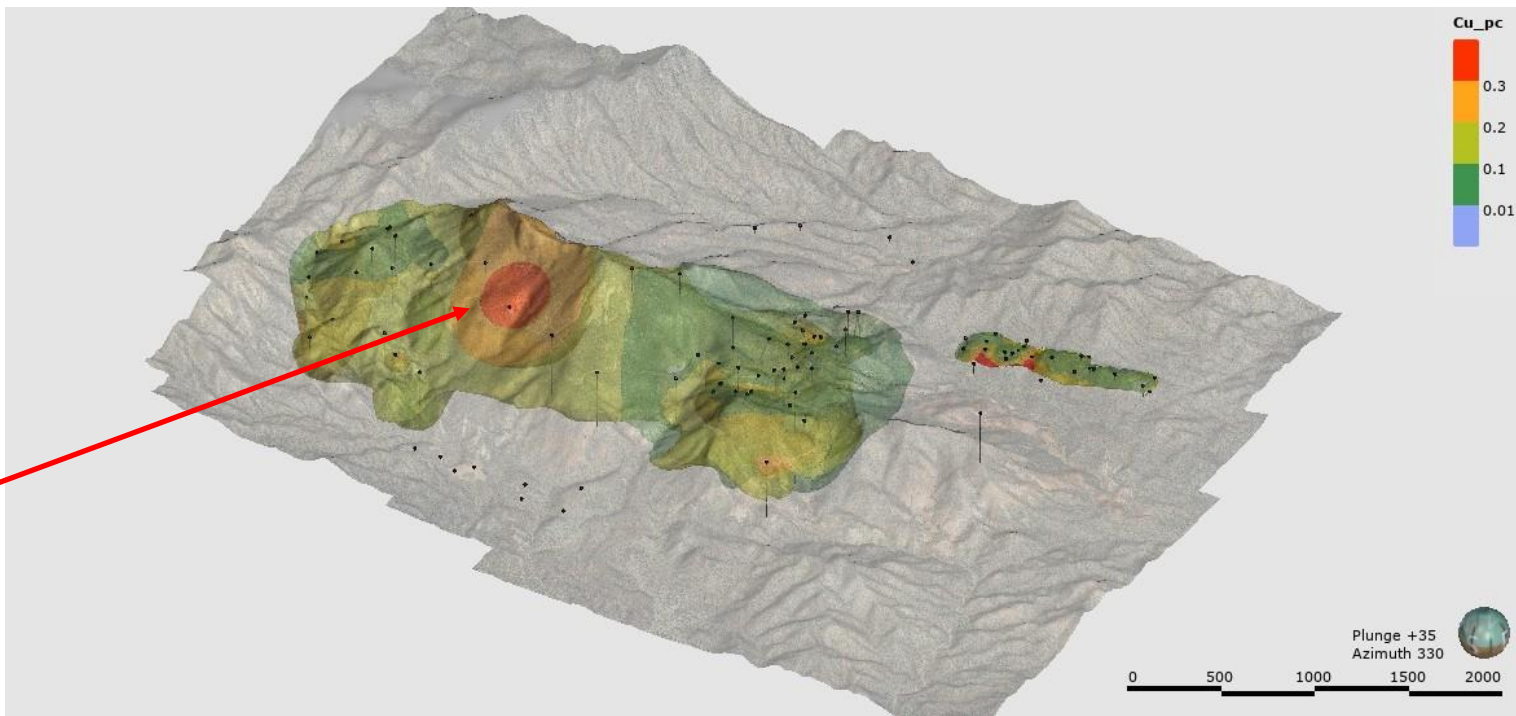


# 4H – COPPER GRADESHELL TARGET

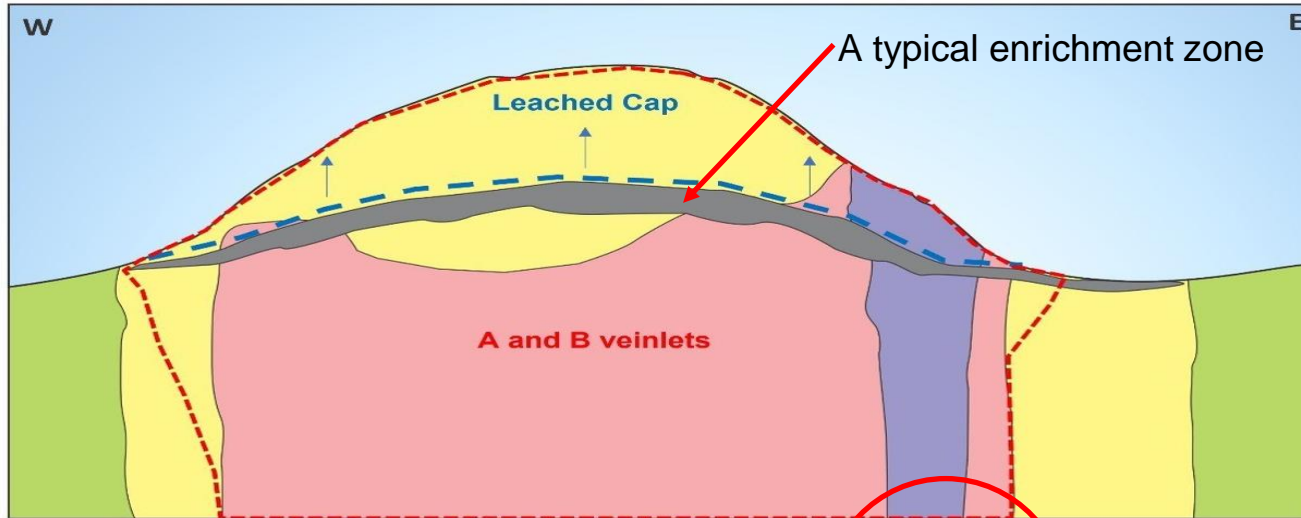
New gradeshell  
compilation of the  
historical assay  
data @ 4H

0.01% to +0.3% Cu

Bullseye Target  
sitting directly over  
the main body of  
the porphyry



# 4H – ENRICHMENT ZONE GRADES



Higher grade (0.45% to 0.75%) soluble copper in the enrichment zone above the primary sulphides has been encountered in most of the drill holes at 4H.

| Zone          | Soluble Tonnes | Cu Grade | Cu Tonnes | Cu Pounds   |
|---------------|----------------|----------|-----------|-------------|
| 4H - Cactus   | 14,640,000     | 0.48%    | 70,272    | 154,598,400 |
| 4H - Main     | 15,372,000     | 0.75%    | 115,290   | 253,638,000 |
| 4H - Sulphate | 6,100,000      | 0.75%    | 45,750    | 100,650,000 |

# 4H – CONGLOMERATE GRADES



**USGS data from drilling completed by Phelps Dodge in the 4H Conglomerates, cites an inventory of 90 - 200 million tonnes of +0.40% Cu. (USGS - Mexico Copper Porphyry Report)**



# 4H – SOLUBLE COPPER INVENTORY

## 4H Soluble Copper – Inventory & Target

| Status           | Zone                   | Soluble Tonnes     | Cu Grade     | Cu Tonnes        | Cu Pounds            |
|------------------|------------------------|--------------------|--------------|------------------|----------------------|
| Drilled          | 4H - Cactus            | 14,640,000         | 0.48%        | 70,272           | 154,598,400          |
| Drilled          | 4H - Main              | 15,372,000         | 0.75%        | 115,290          | 253,638,000          |
| Drilled          | 4H - Sulphate          | 6,100,000          | 0.75%        | 45,750           | 100,650,000          |
| Limited Drilling | 4H - Cerro San Felipe  | -                  | 0.00%        | -                | -                    |
| Limited Drilling | 4H - West              | -                  | 0.00%        | -                | -                    |
| Limited Drilling | 4H - N Conglomerate    | -                  | 0.00%        | -                | -                    |
| Limited Drilling | 4H - S Conglomerate    | -                  | 0.00%        | -                | -                    |
|                  | <b>Current Soluble</b> | <b>36,112,000</b>  | <b>0.64%</b> | <b>231,312</b>   | <b>508,886,400</b>   |
|                  | <b>Target Soluble</b>  | <b>300,000,000</b> | <b>0.50%</b> | <b>1,500,000</b> | <b>3,300,000,000</b> |

# 4H – DEVELOPMENT PLANS

## **4H Resource Sulphide Copper Grades**

- Cerro San Felipe (targeting copper core in main porphyry body)
- Confirmations: Cactus, Main/Sulphate & West

## **4H Soluble Copper to Production (SXEW Processing Plant @ Site to Cathode Cu)**

- N/S Conglomerates + Cerro San Felipe Enrichment Zone
- Confirmations: Cactus, Main/Sulphate & West – Enrichment Zones

## **San Lorenzo**

- The San Lorenzo block presents a potential second copper porphyry center

## **General**

- Full spectrum assays for associated by-products
- Metallurgy for soluble copper and sulphide copper / molybdenum recoveries
- PEA, Pre-Feasibility and BFS on soluble copper
- PEA, Pre-Feasibility and BFS on sulphide copper / molybdenum

# 4H – NEXT WORK PROGRAMS

## **Phase 2 – Work Program**

- 2,000m of drilling: DDH on existing Cuatro Hermanos Deposit
- Project-wide geochemical sampling
- Detailed target mapping and sampling peripheral to 4H Deposit
- Detailed target mapping and sampling on targets of San Lorenzo concession
- Geophysical surveys - Gravity/Magnetics, CSAMT/IP
- Permitting/planning for Phase 3 drilling

## **Phase 3 – Work Program**

- 5,000m of drilling: DDH and RC
- Metallurgical studies including leach tests on oxide ore



# VALUATION

79,053,062 Shares @ \$0.05  
~ CA\$4 Million

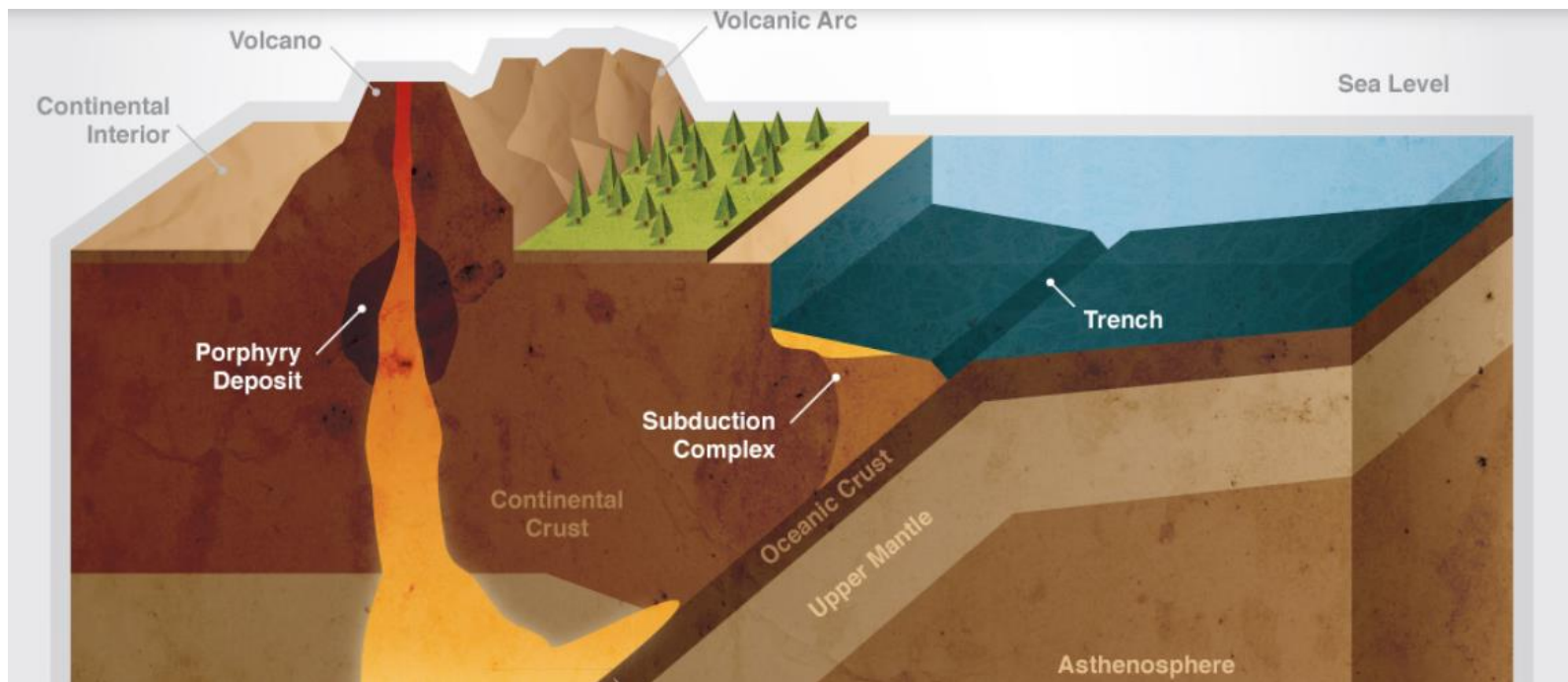
Recent range of single asset M&A  
\$500 Million -> +\$1 Billion

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| (604) 862-4184



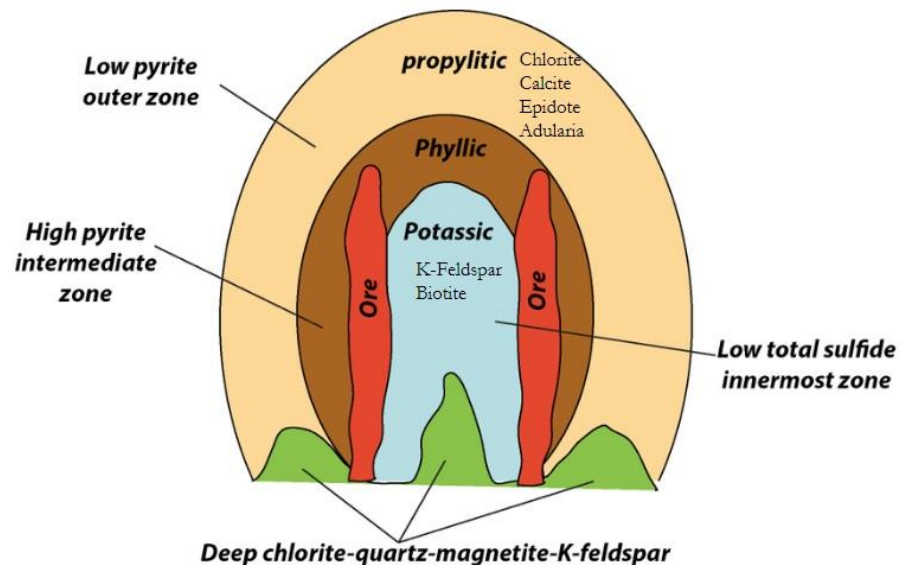
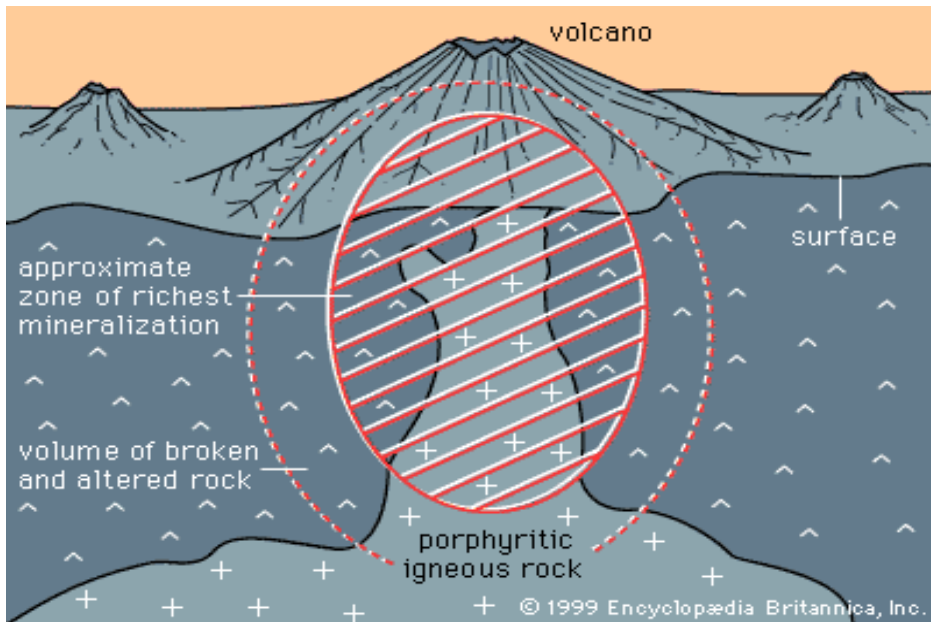
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# HOW ARE COPPER PORPHYRIES FORMED

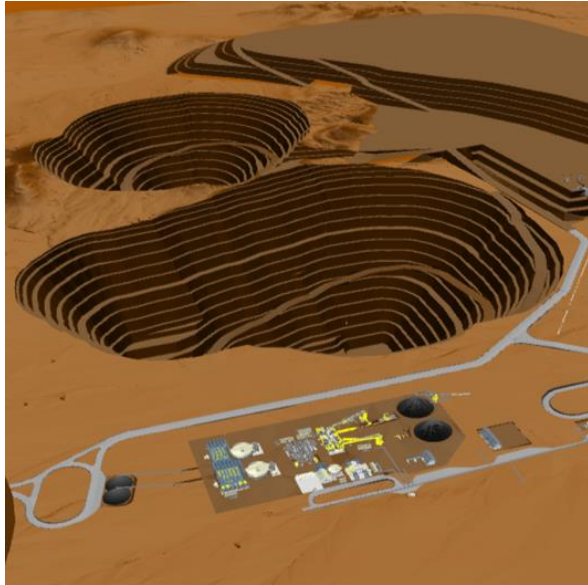




# HOW ARE COPPER PORPHYRIES FORMED



# COPPER PORPHYRY SUCCESS



## Large Scale, Low Cost and Long Mine Life

The ore is inexpensive to mill and concentrate using flotation methods, heap leaching and electrowinning (SXEW) processes.

Within porphyry systems the copper mineralization can extend vertically for several kilometers beyond the main base of the open pit.

This vertical scale often translates to a decades-long mine lives — Chuquicamata, Bingham, Morenci and Butte are not anomalies — meaning these mines can outlive many a market cycle, taking hits that would knock smaller mines out of commission.

# COPPER PORPHYRY SUCCESS



## Grade is King

Copper porphyry deposits are quite possibly the best example of how the “grade is king” dogma is merely an oversimplification of mine economics.

In the case of copper porphyry deposits, their enormous size, polymetallic nature, decades-long mine lives and high production rates rank them as one of the world’s most valuable deposit types.

A major producer’s ideal takeover target is a junior explorer with a district-scale copper porphyry project with access to necessary infrastructure, including water, power and transportation networks.



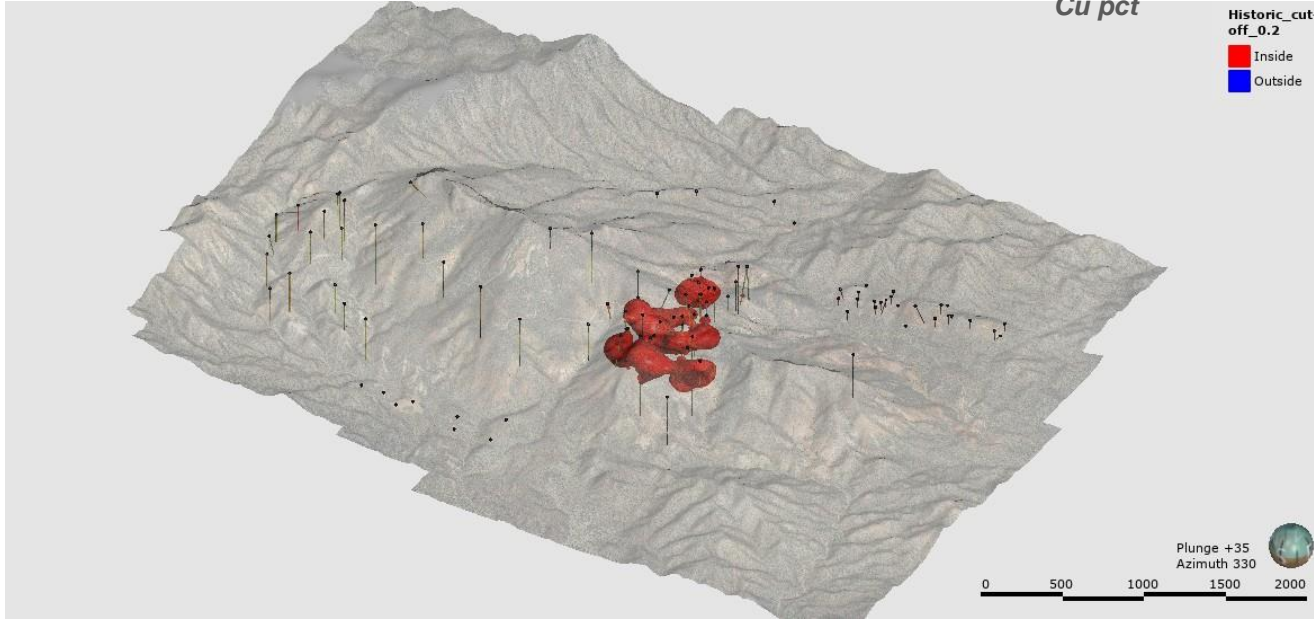
# Cuatro Hermanos (4H)

Gradeshell > 0.2

Cu pct

Historic\_cut-off\_0.2

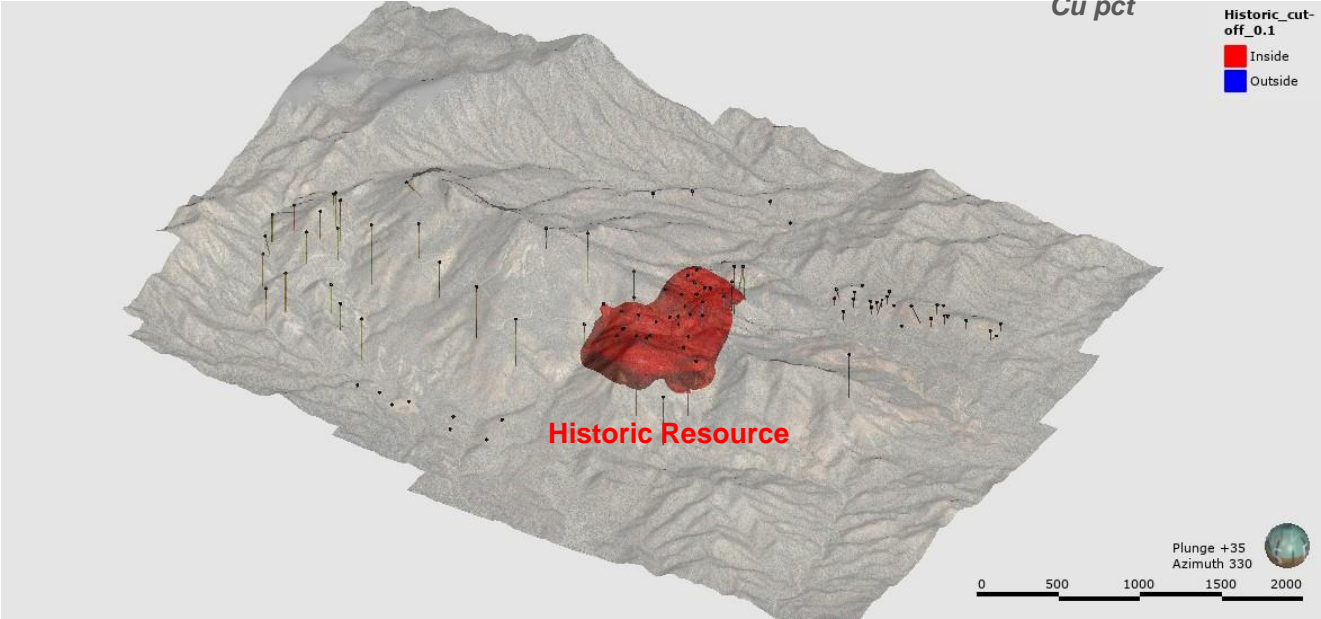
Inside  
Outside



# Cuatro Hermanos (4H)

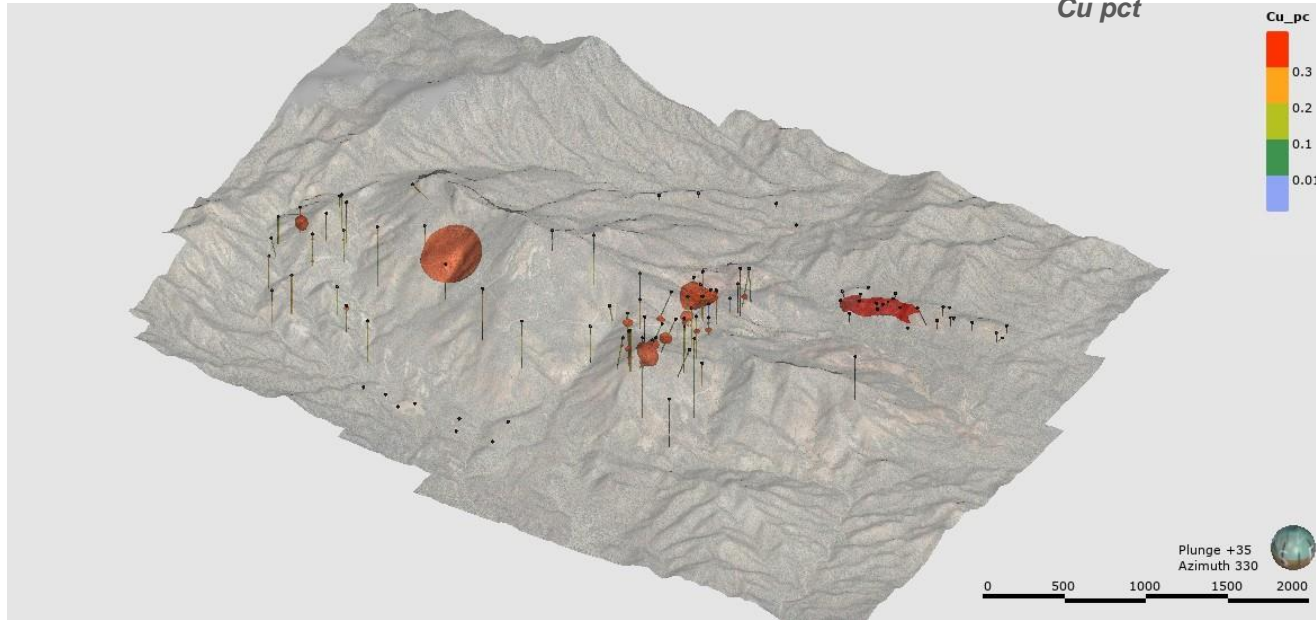
Gradeshell > 0.1  
Cu pct

Historic\_cut-off\_0.1  
■ Inside  
■ Outside



# Cuatro Hermanos (4H)

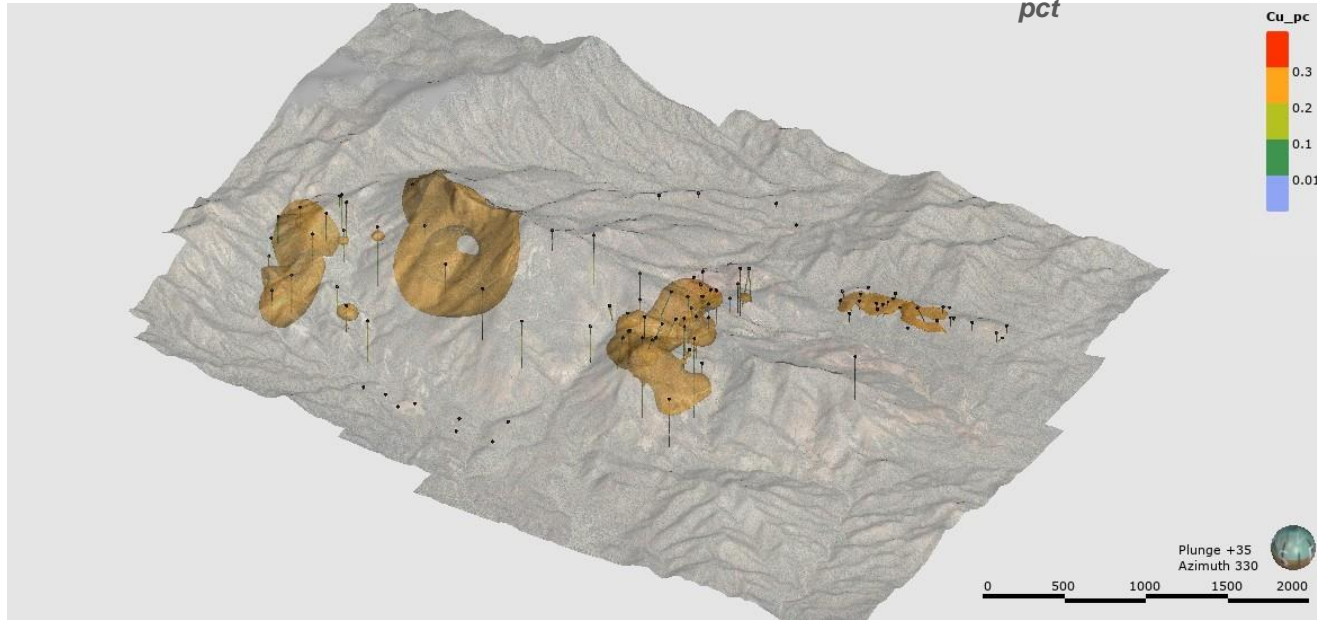
Gradeshell > 0.3  
Cu pct





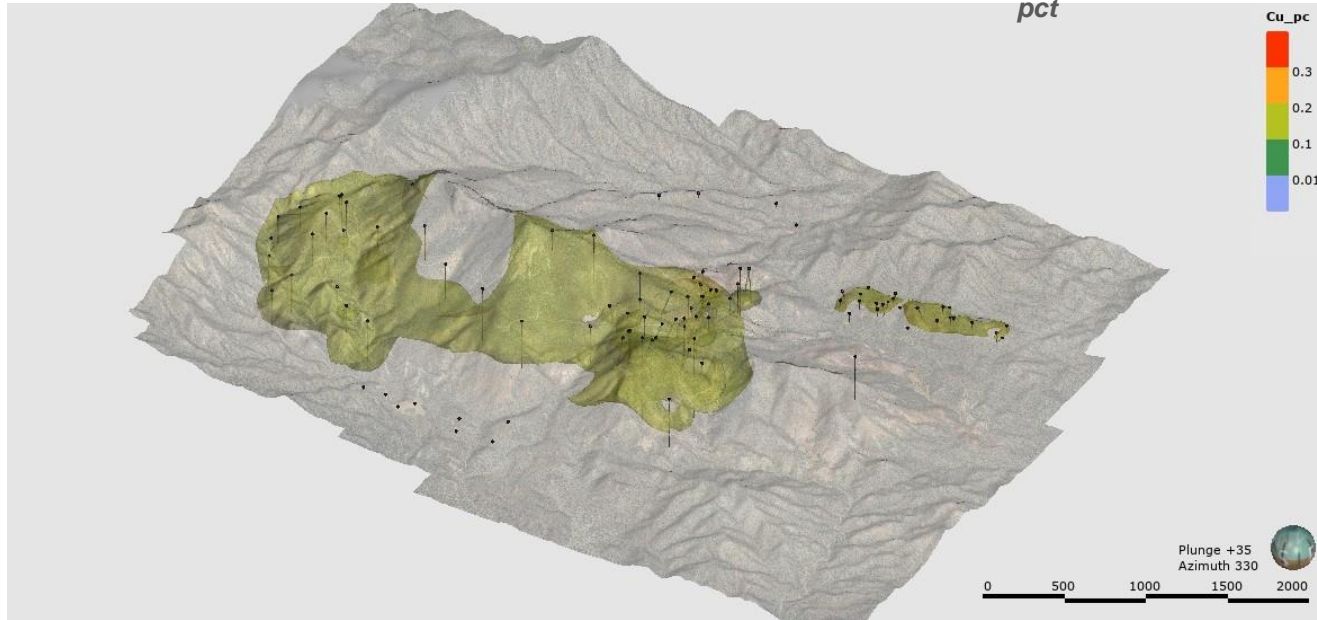
# Cuatro Hermanos (4H)

Gradeshell 0.2 to 0.3 Cu  
pct



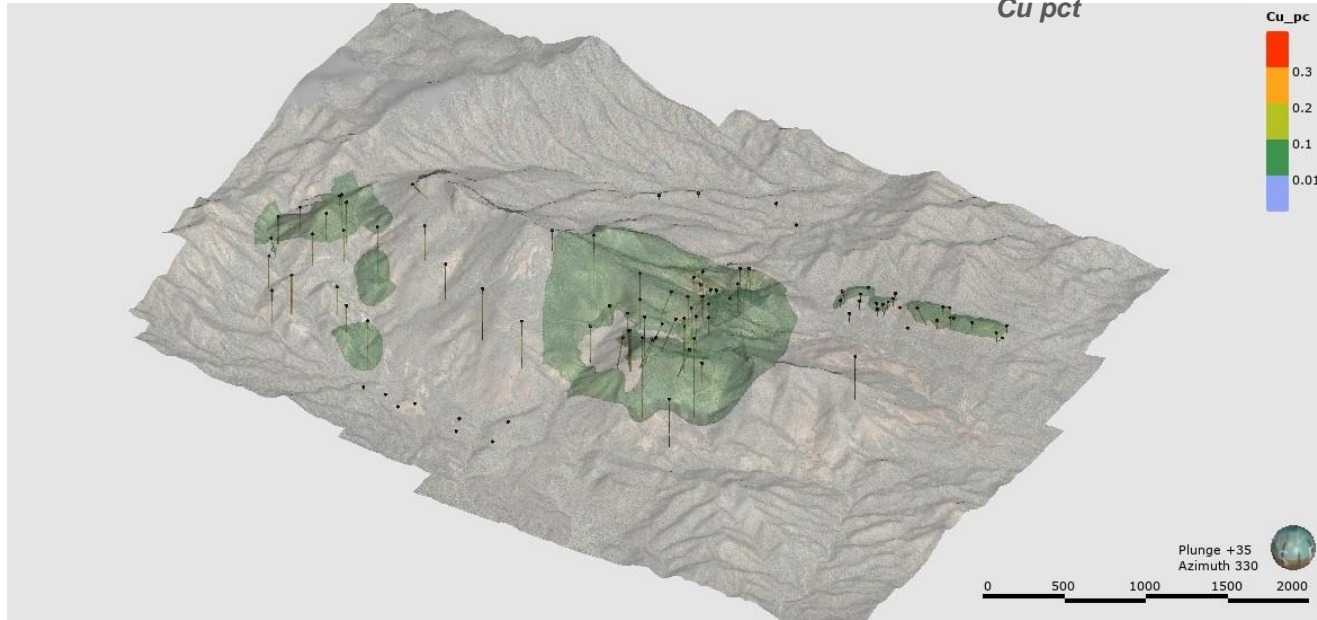
# Cuatro Hermanos (4H)

Gradeshell 0.1 to 0.2 Cu  
pct



# Cuatro Hermanos (4H)

Gradeshell 0.01 to 0.1  
Cu pct





# Cuatro Hermanos (4H)

Gradeshell 0.01 to 0.3 Cu  
pct

