

# Exploration and Discovery of the Caspiche Porphyry Gold-Copper Deposit, Maricunga Belt, Region III, Chile

# Cautionary Statement

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Many of the assay results presented are preliminary and may not be accurate due to various factors, including but not limited to sample recoveries, true widths and interpretations.



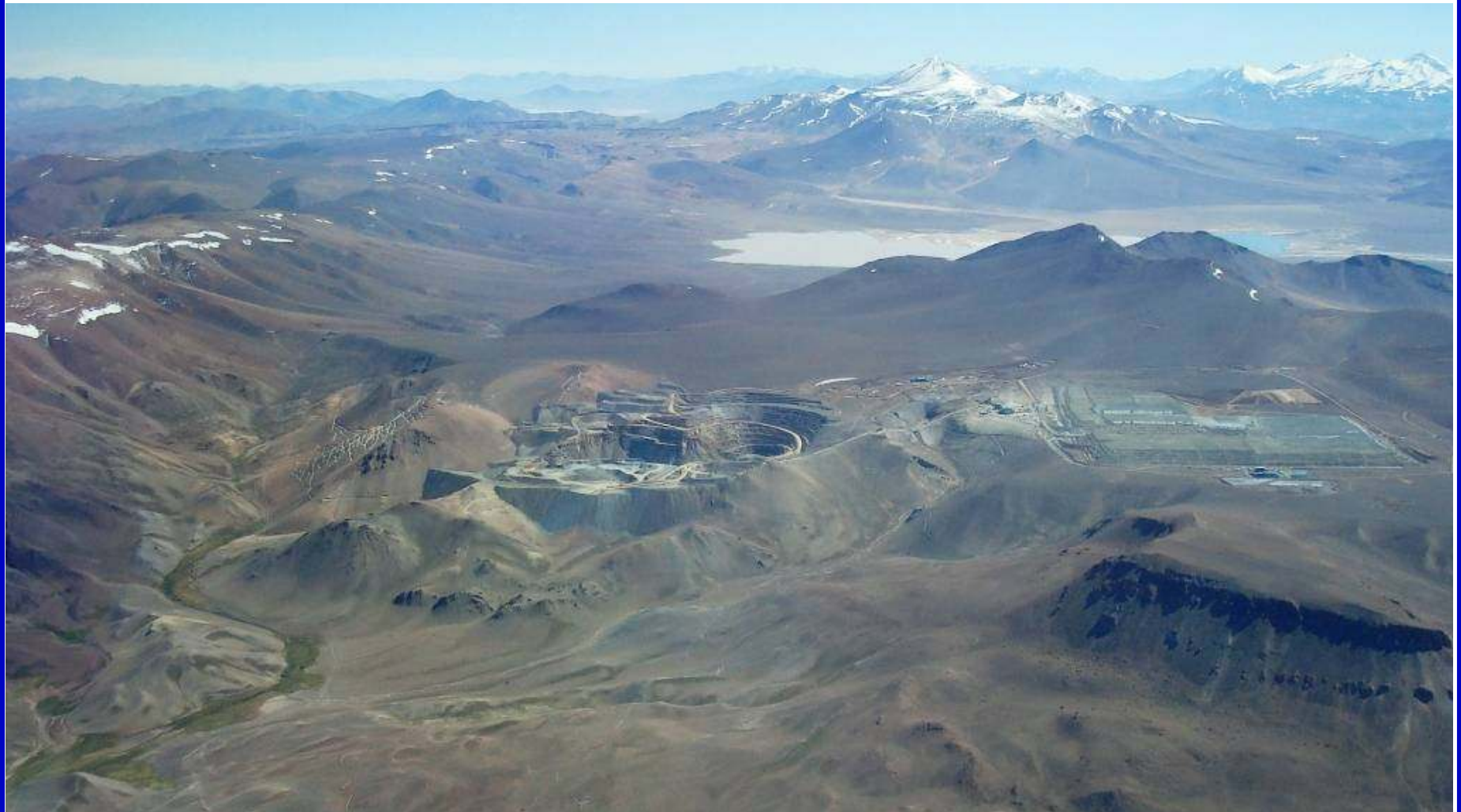
NYSE-AMEX: XRA TSX.V: XRC



# Talk Outline

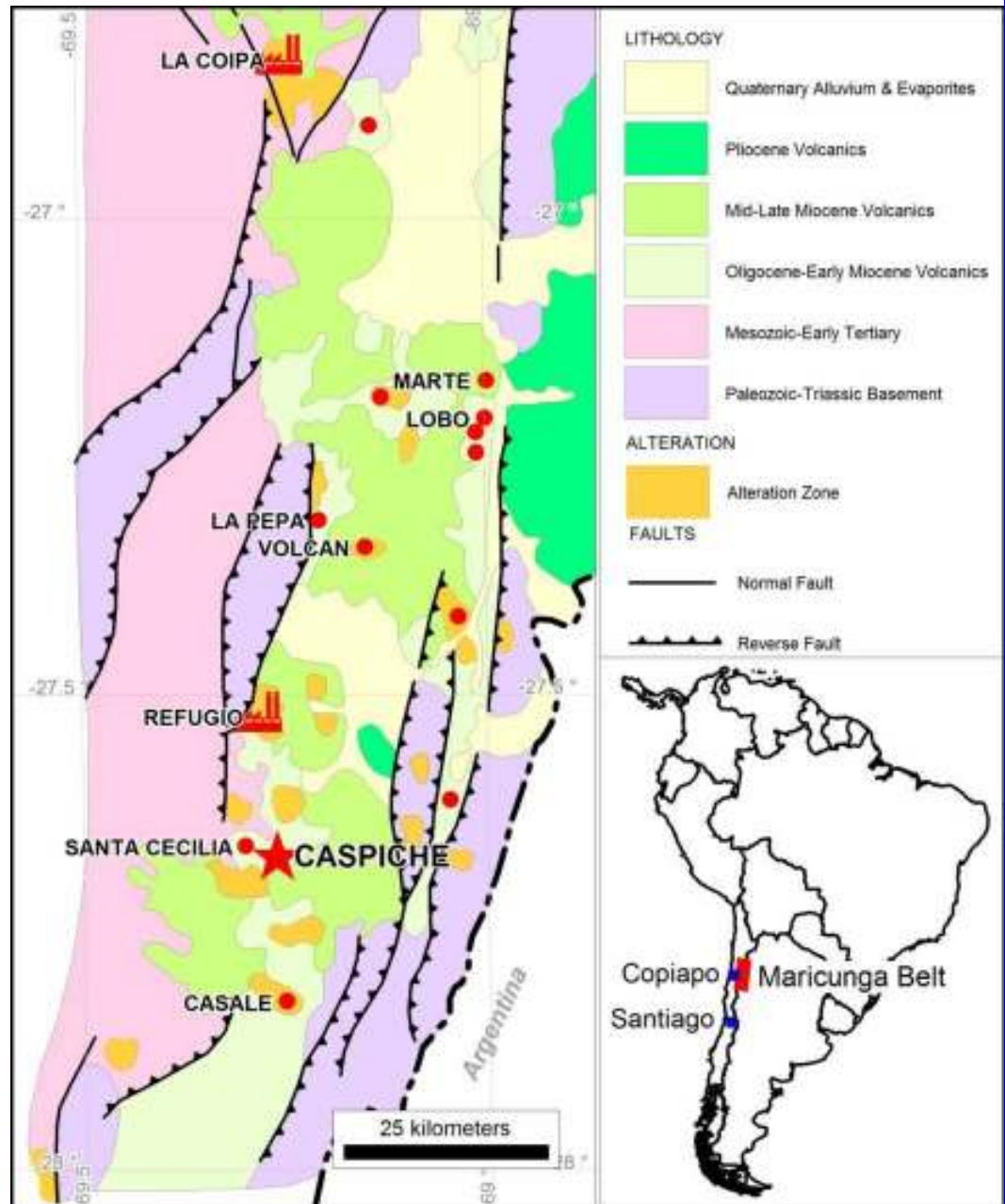
- I. Regional geology and setting
- II. Historic exploration
- III. Exeter exploration
- IV. Project geology overview
- V. Resource delineation
- VI. Ongoing and future programs

# I. Regional Geology & Setting



# Maricunga Belt, Chile

- Palaeozoic-Triassic basement
- Oligocene - Miocene graben hosted volcanics
- Extensive alteration
- Porphyry & HS epithermal deposits
- Casale – 28.8 Moz Au, 7.8 Blb Cu resource
- Maricunga – 6.4 Moz Au reserve



# Maricunga Belt Looking to the North

Maricunga (Refugio)  
4 Moz Au @ 0.72 g/t

aspiche (behind ridge)

° Volcan  
9.8 Moz Au @ 0.62 g/t

° Cerro Casale  
28.3 Moz Au @ 0.54 g/t  
7.8 Blb Cu @ 0.21% Cu



\* Reserve  
° Resource

# View to the Northeast Overlooking Caspiche

Caspiche Epithermals

Siliceous ridge

Caspiche Porphyry

Santa Cecilia

# View to the West Overlooking Caspiche

Santa Cecilia

Caspiche Porphyry

Siliceous Ridge

Caspiche Epithermals



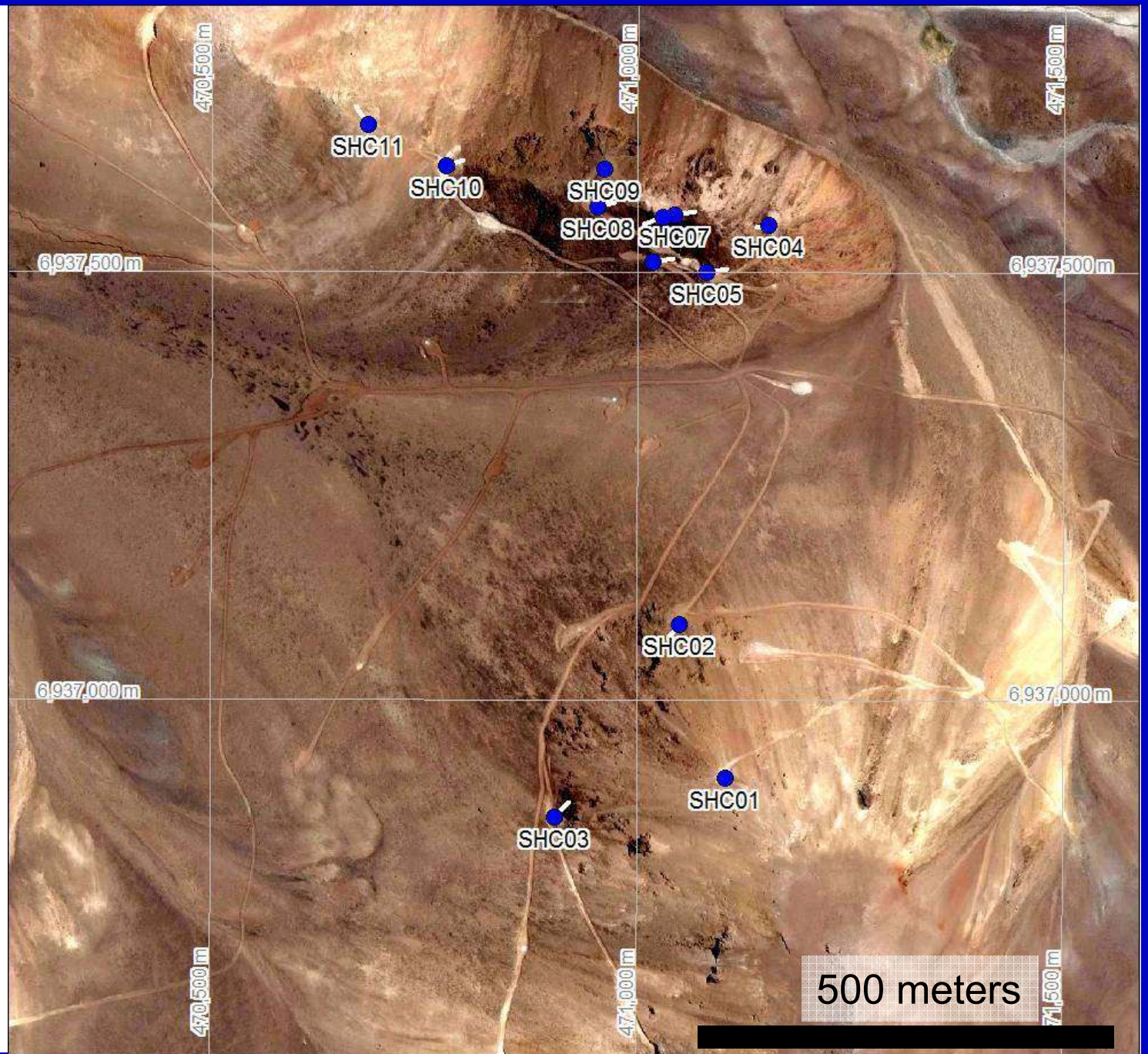
# II. Historic Exploration



# 1986-1988, Anglo American

Best  
intercept

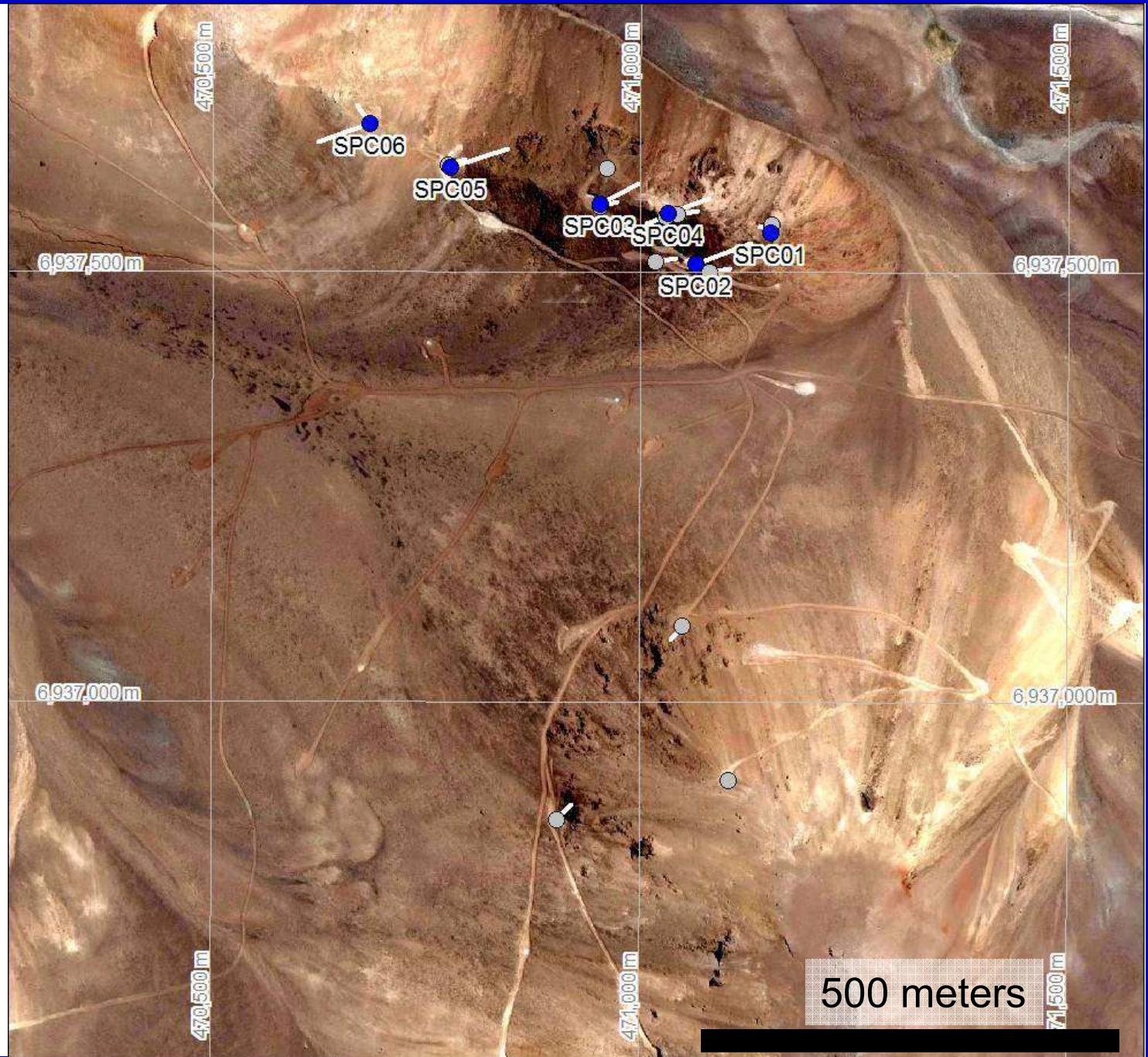
48 m @  
1.03 g/t Au  
& 6.1 g/t Ag  
(SHC05)



# 1989-1990, Anglo American

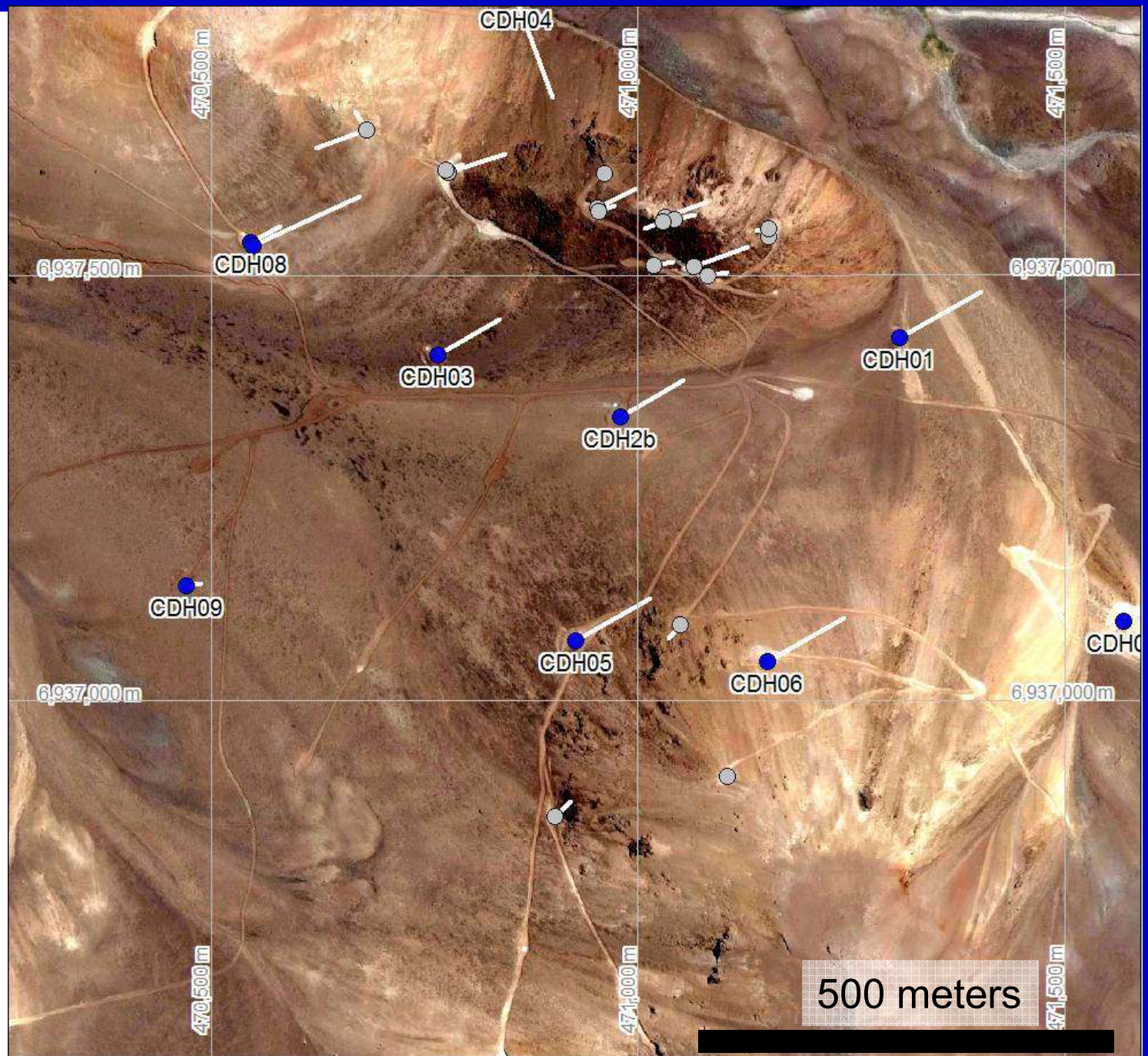
Best  
intercept

150m @  
0.45 g/t Au  
(SPC05)

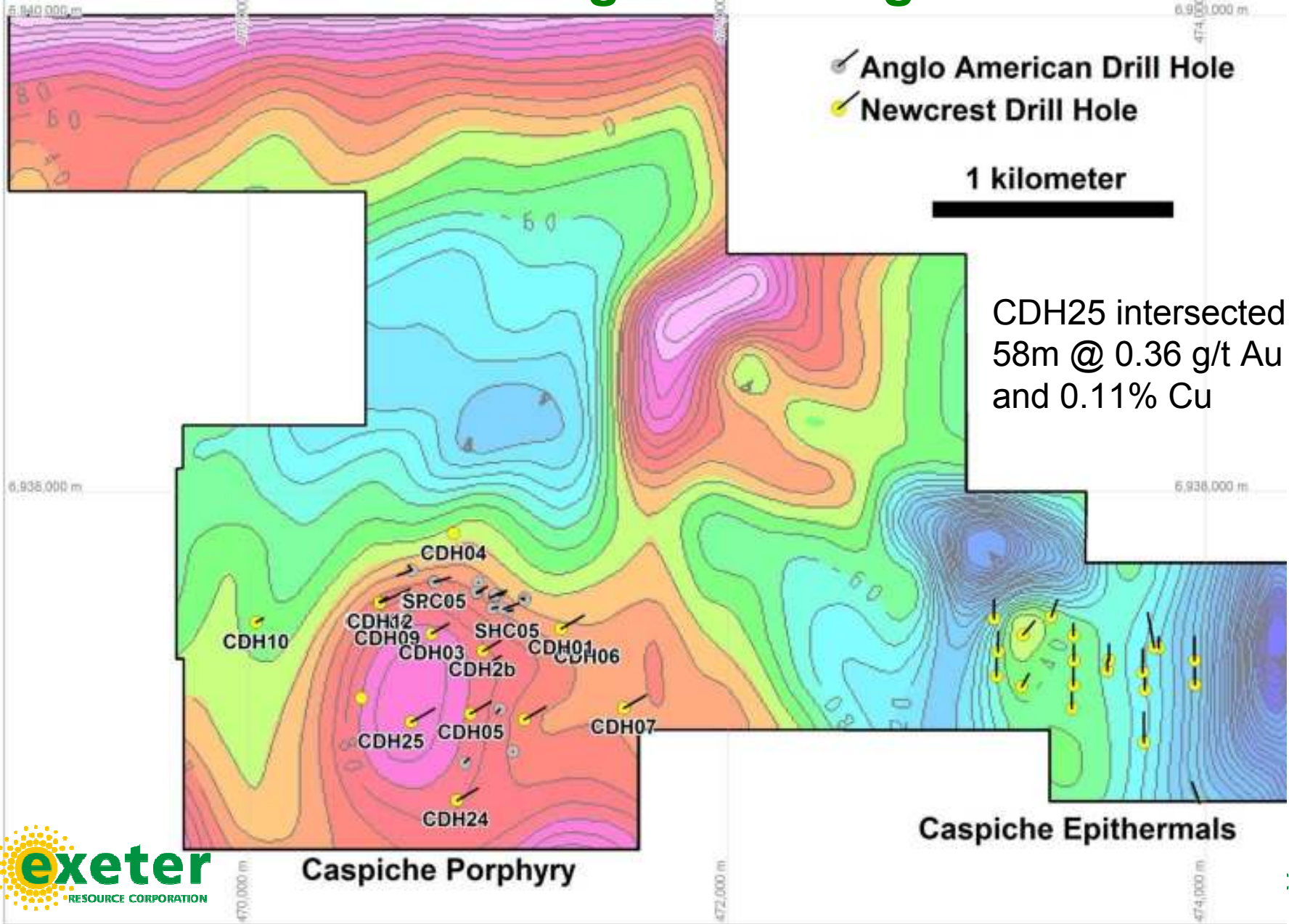


# 1996-1998, Newcrest

Best  
intercept  
298m @  
0.57 g/t Au  
& 0.16 g/t  
Cu  
(CDH03)



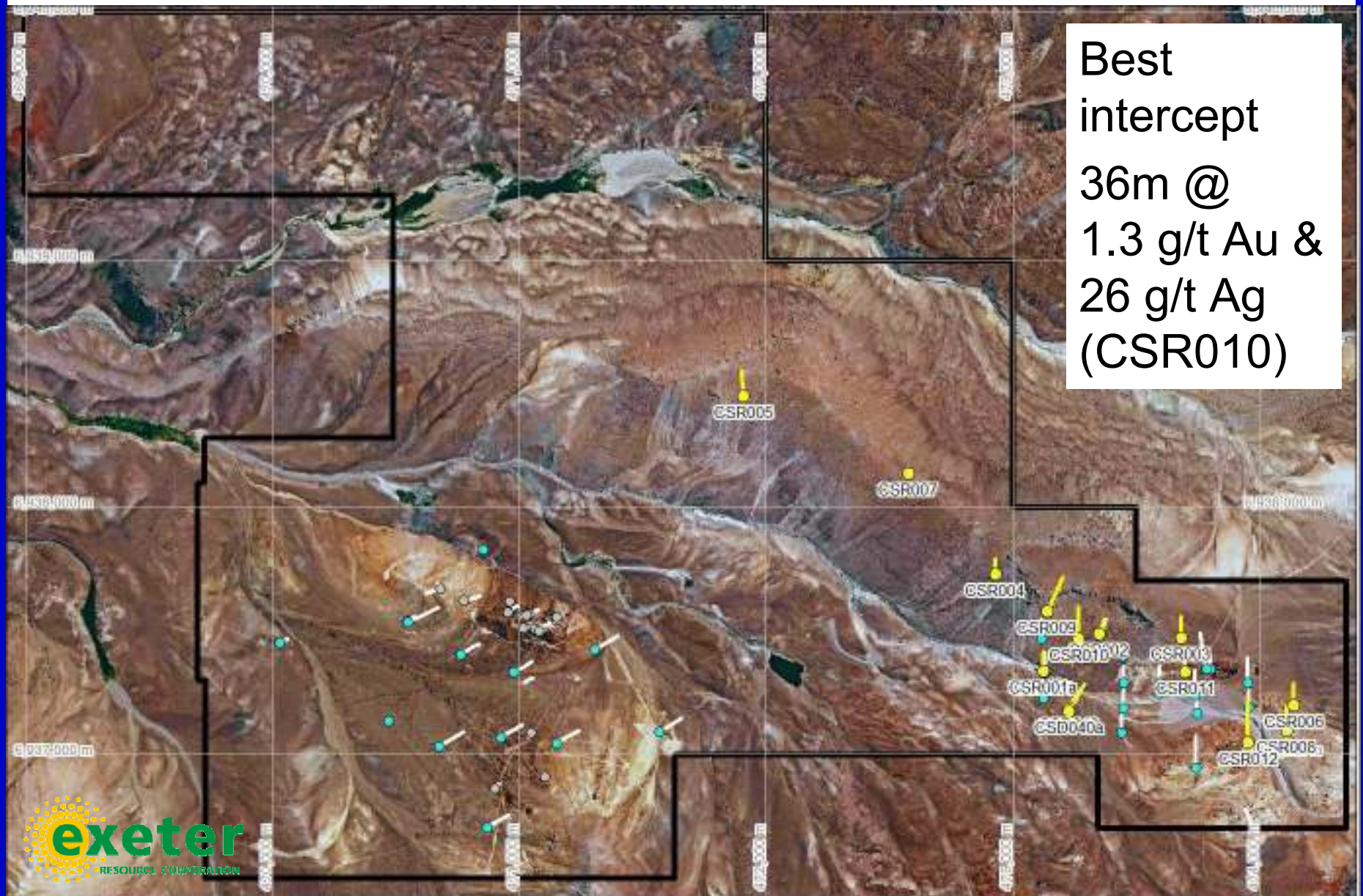
# Historic Drilling on Air Magnetics



# III. Exeter Exploration 2005 -

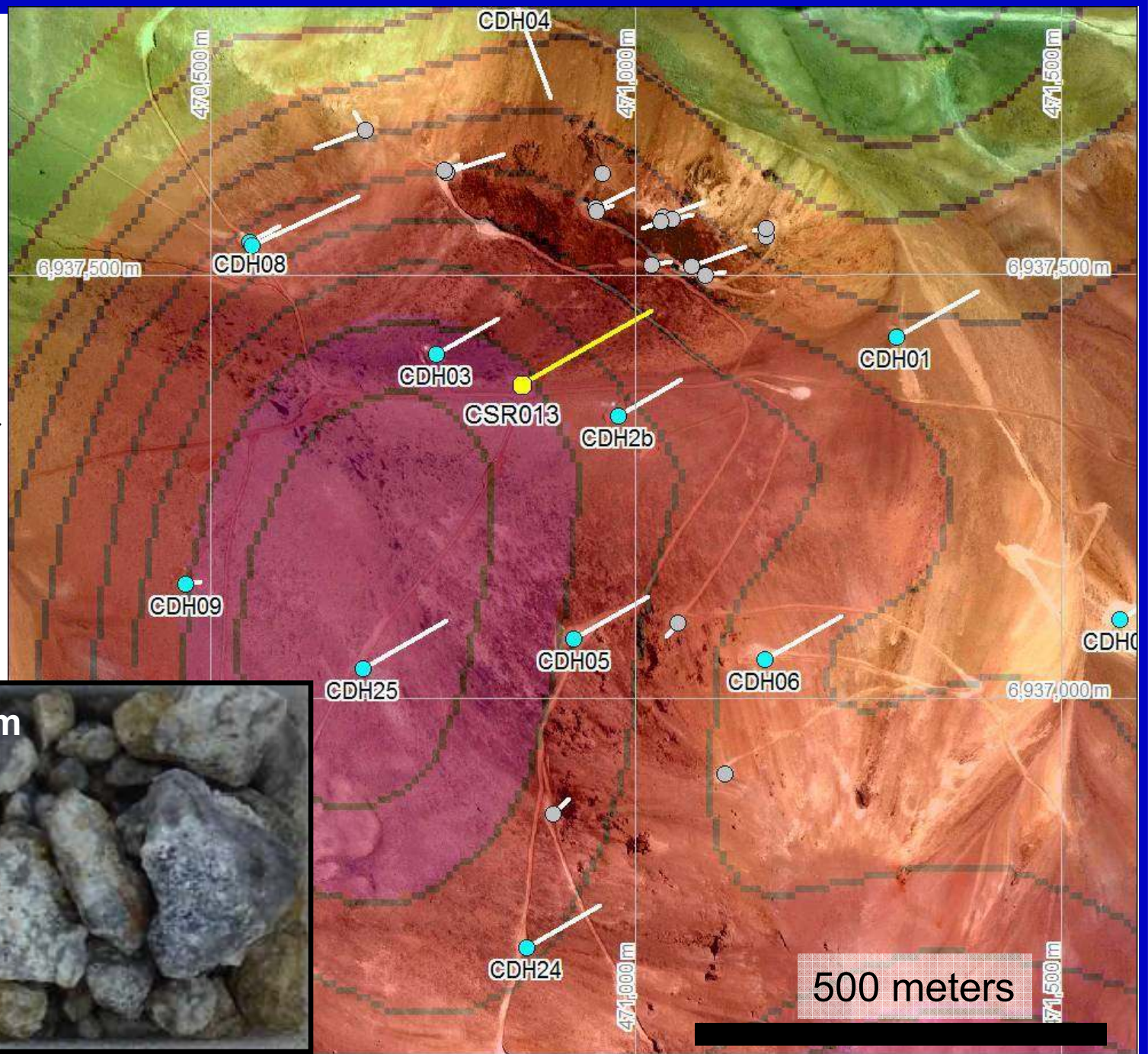


# Exeter's Drilling on the Eastern Epithermal's



2005-2007,  
Exeter

CSR013  
304m @  
0.9 g/t Au &  
0.26% Cu



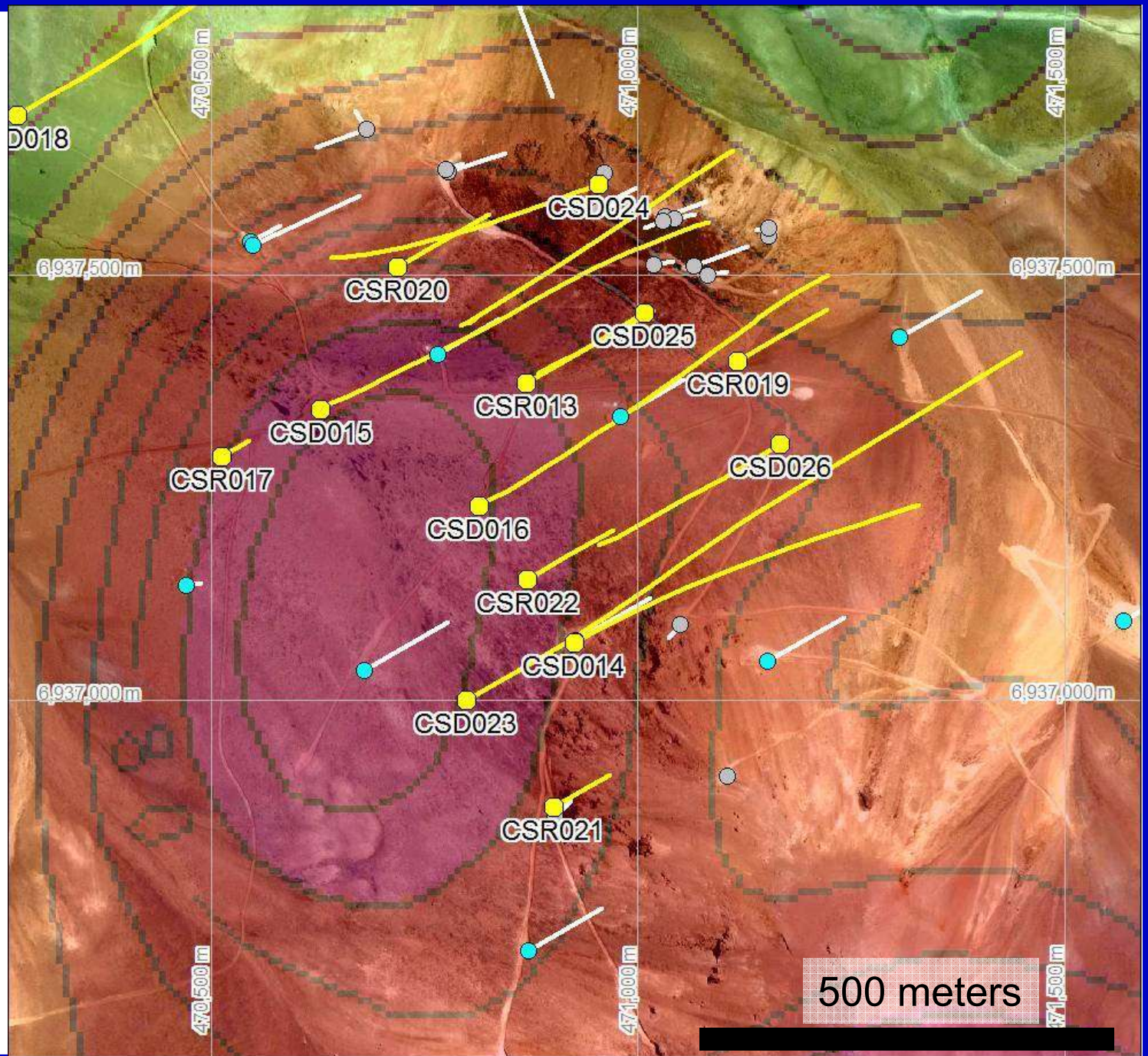
CSR013 – 338m





# 2007-2008 season, Exeter

Best  
intercept  
793m @  
0.96 g/t Au  
& 0.40%  
Cu  
(CDH016)



252.24

~250m

CSD016



442.40

~440m

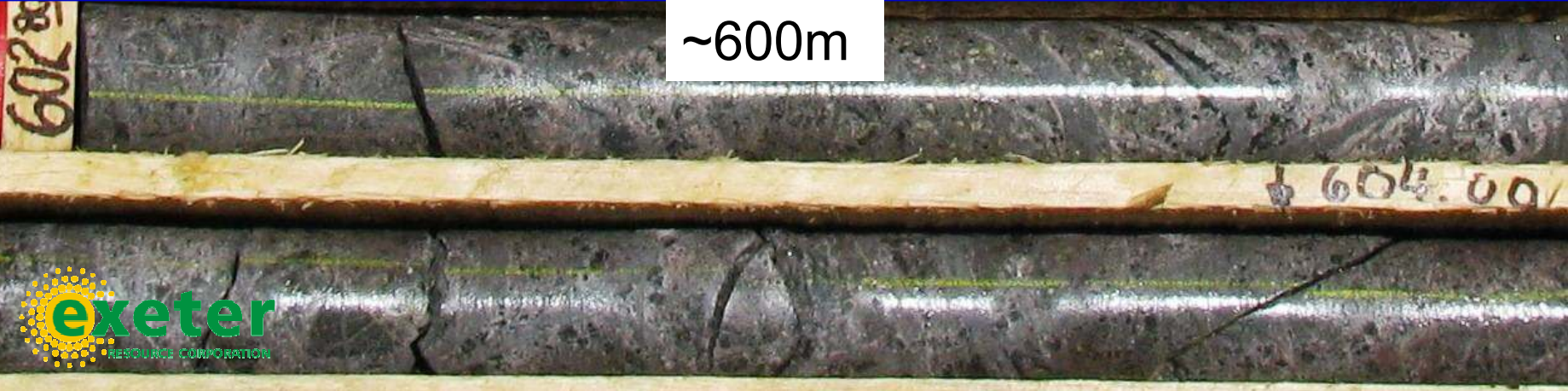
443.00



602.80

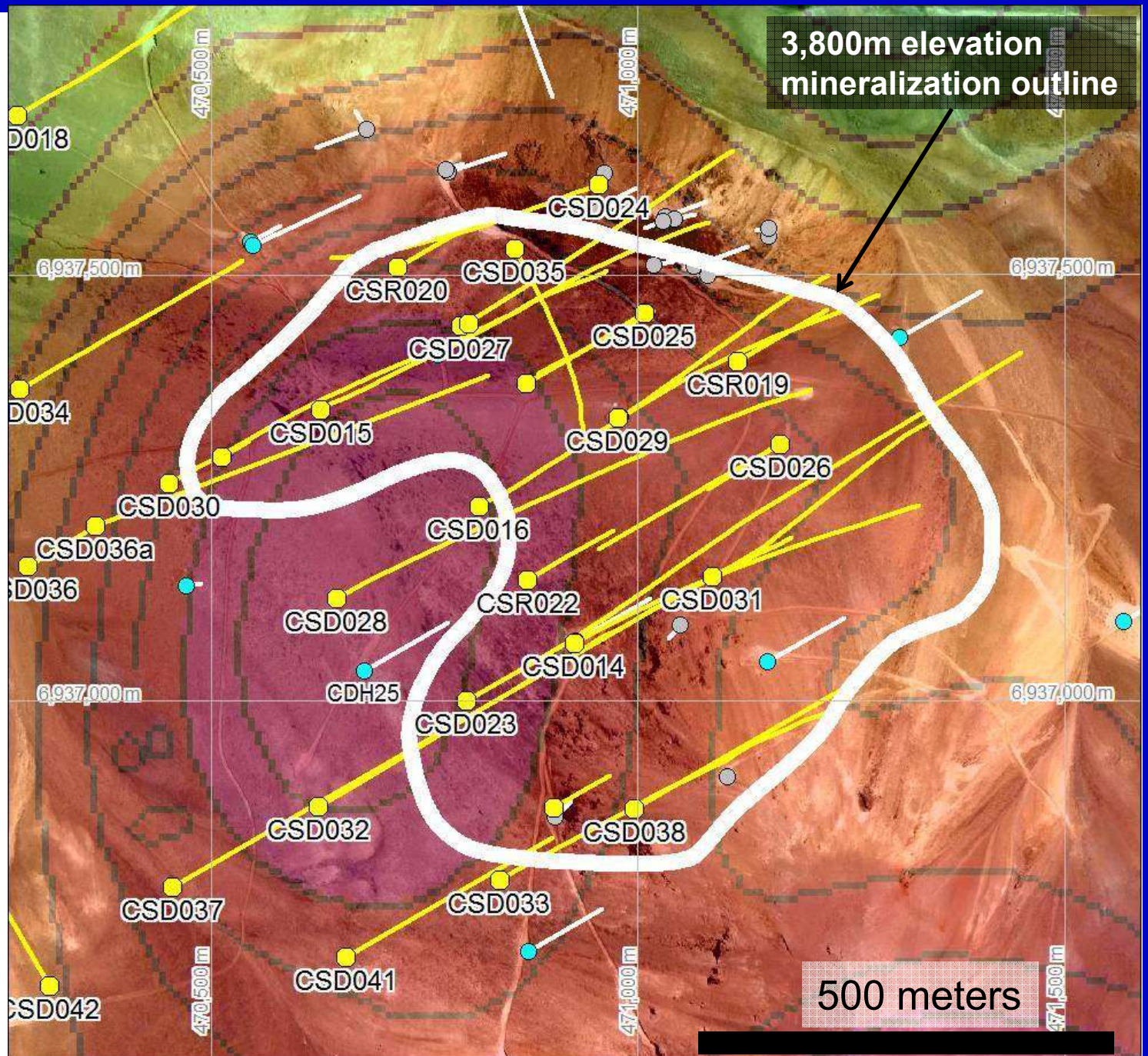
~600m

604.00



**2008-2009  
season,  
Exeter**

Best  
intercept  
1,214m @  
0.90 g/t Au  
& 0.33%  
Cu  
(CDH032)



# IV. Project Geology Overview








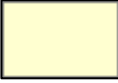
Siliceous Ridge

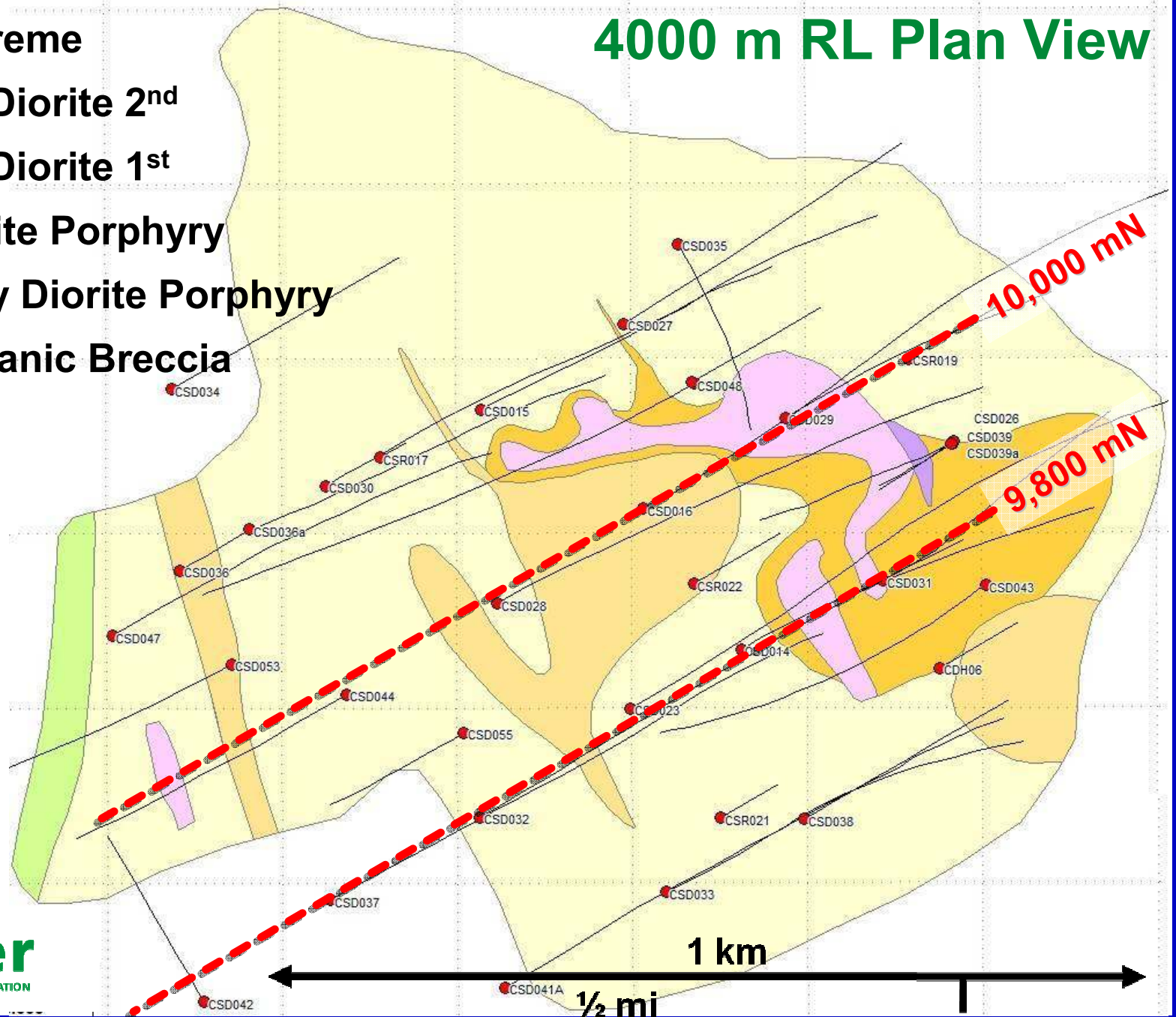
Caspiche Porphyry



View to the North Over Caspiche Porphyry

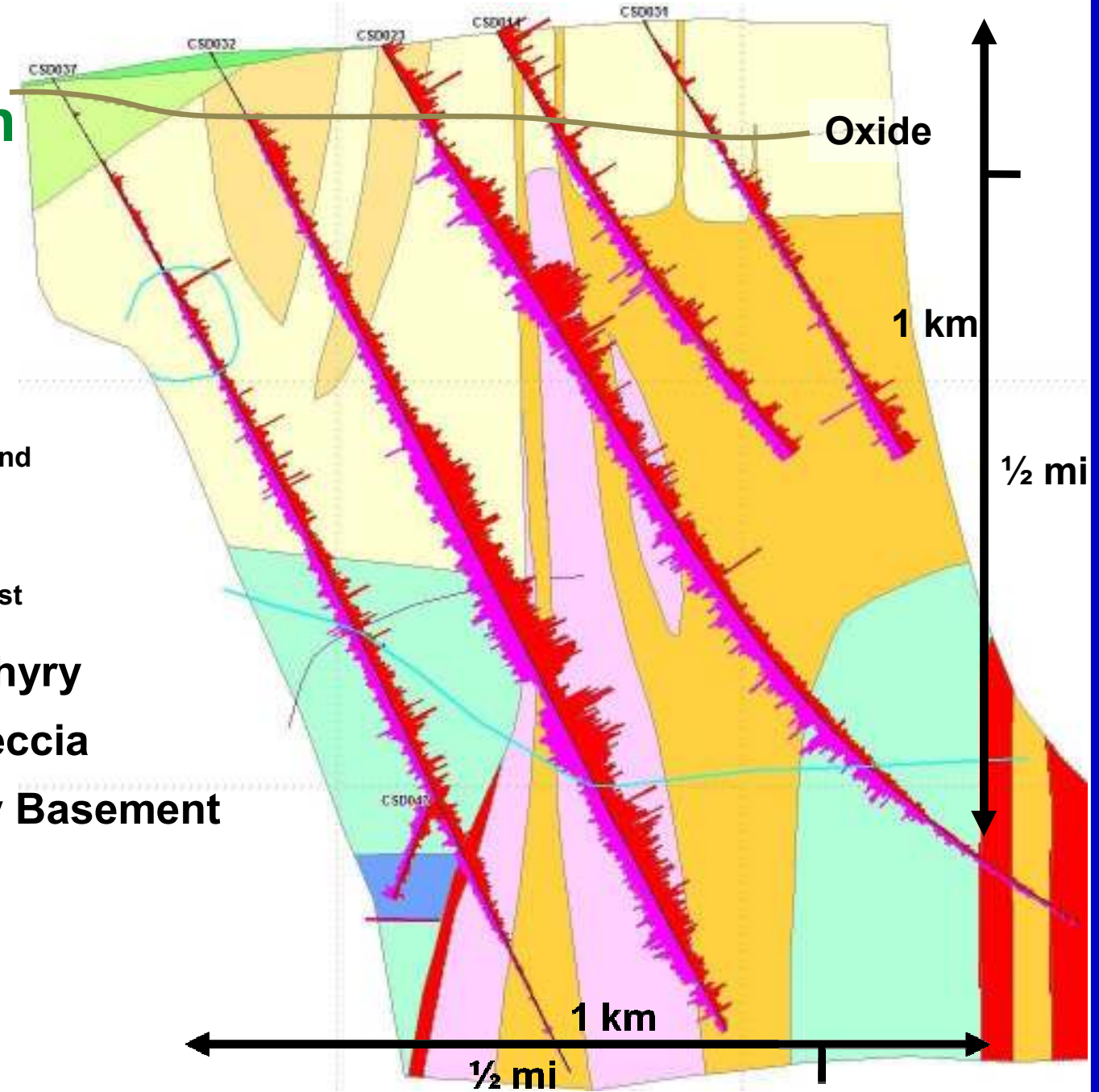
# 4000 m RL Plan View

-  Diatreme
-  Qtz Diorite 2<sup>nd</sup>
-  Qtz Diorite 1<sup>st</sup>
-  Diorite Porphyry
-  Early Diorite Porphyry
-  Volcanic Breccia

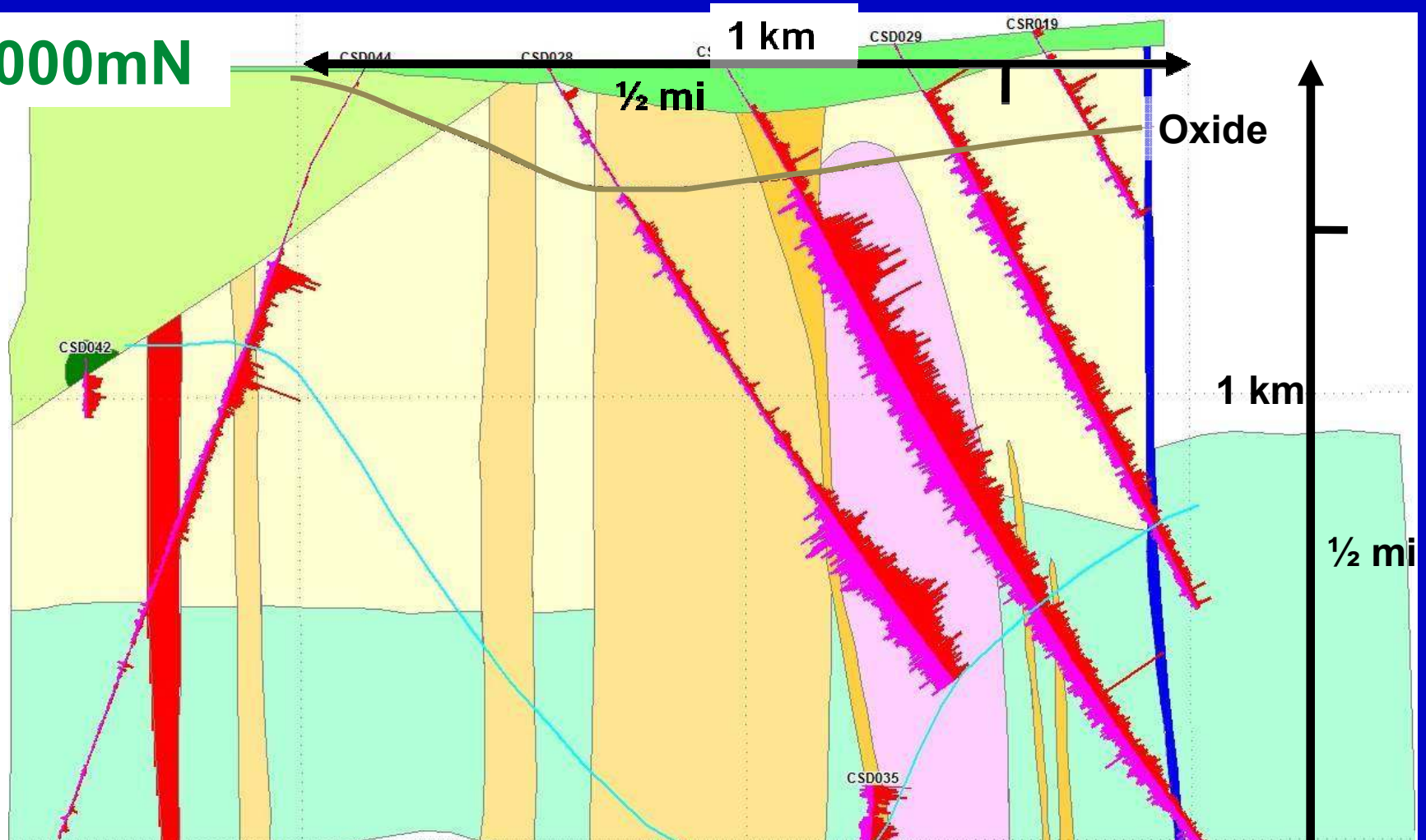





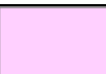

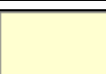

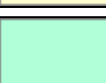
# 9800mN CrossSection

- Overburden
- Diatreme
- Qtz Diorite 2<sup>nd</sup>
- Breccia
- Qtz Diorite 1<sup>st</sup>
- Diorite Porphyry
- Volcanic Breccia
- Sedimentary Basement



10000mN



- |   |                                   |   |                                   |
|---|-----------------------------------|---|-----------------------------------|
|  | <b>Overburden</b>                 |  | <b>Qtz Diorite 1<sup>st</sup></b> |
|  | <b>Diatreme</b>                   |  | <b>Diorite Porphyry</b>           |
|  | <b>Qtz Diorite 2<sup>nd</sup></b> |  | <b>Volcanic Breccia</b>           |
|  | <b>Breccia</b>                    |  | <b>Sedimentary</b>                |

# Caspiche Rocks

Sedimentary Basement



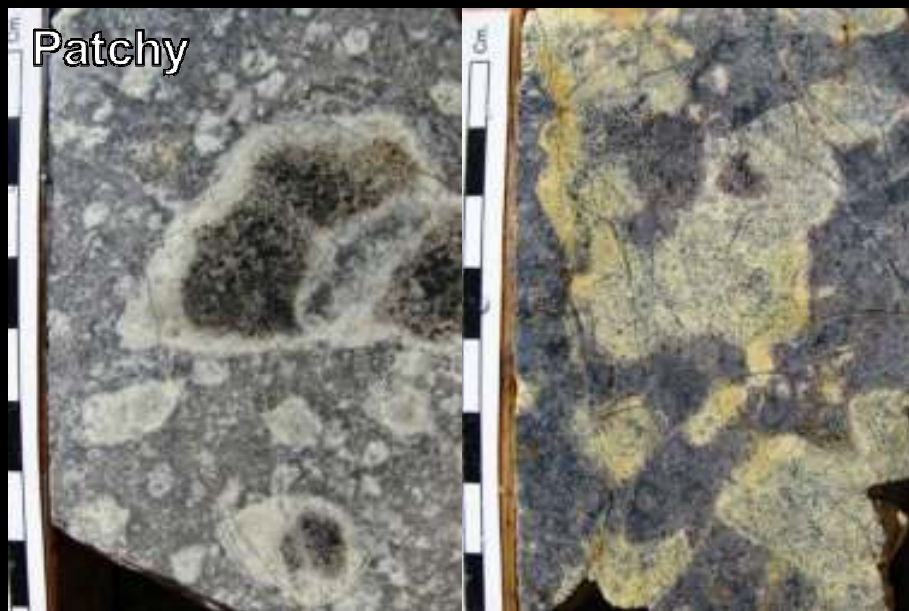
Volcanic Breccia



Wormy



Patchy





# Caspiche Rocks

Early Diorite Porphyry



Inter-mineral Quartz Diorite Porphyry



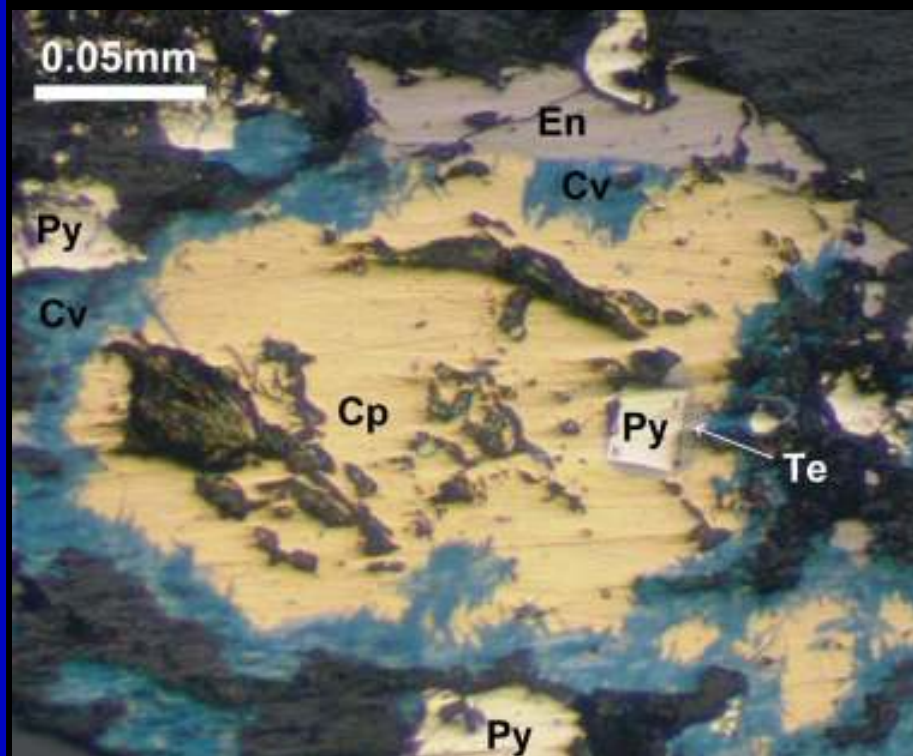
Inter-mineral Quartz Diorite Porphyry



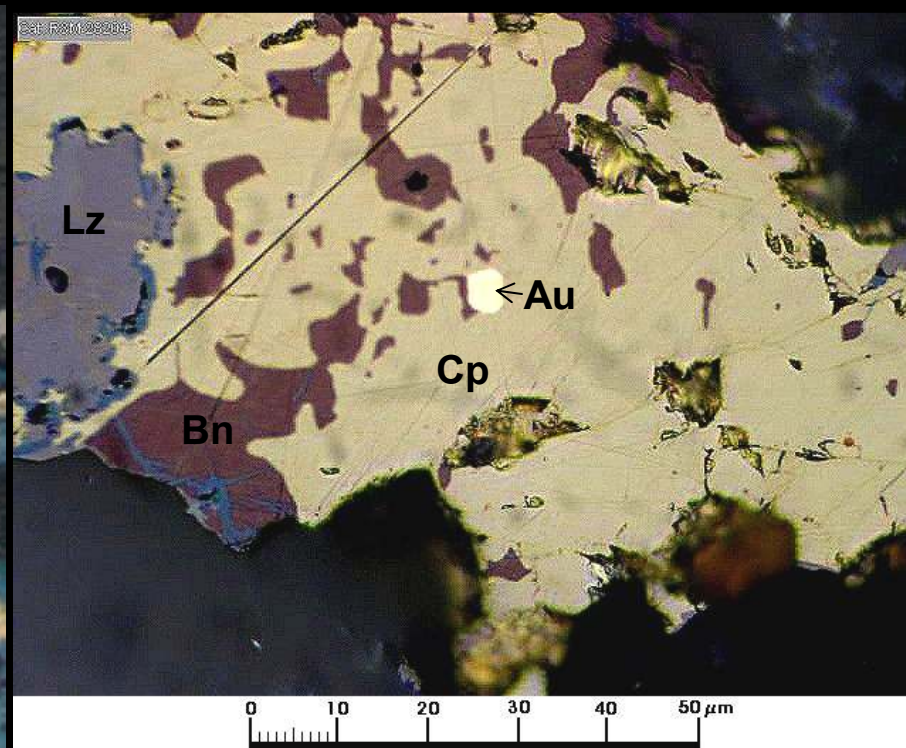
Post-mineral Diatreme Breccia



# Caspiche Petrography





Aggregate of chalcopyrite, pyrite, tennantite, and paragenetically later covellite as a rim replacement of chalcopyrite, and later enargite.

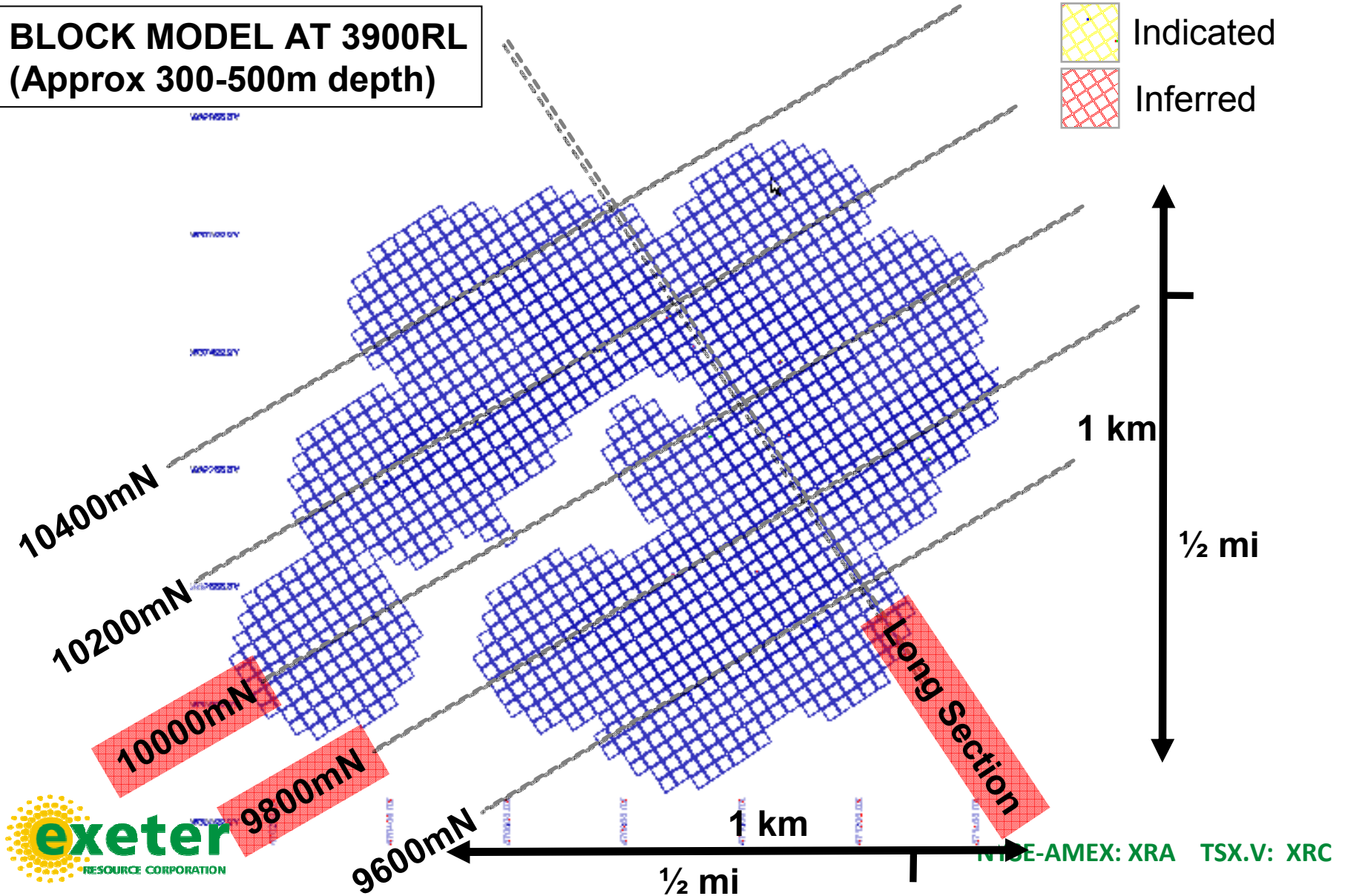


Chalcopyrite-bornite exsolution and hypogene luzonite replacement. Note the gold grain encapsulated by chalcopyrite.

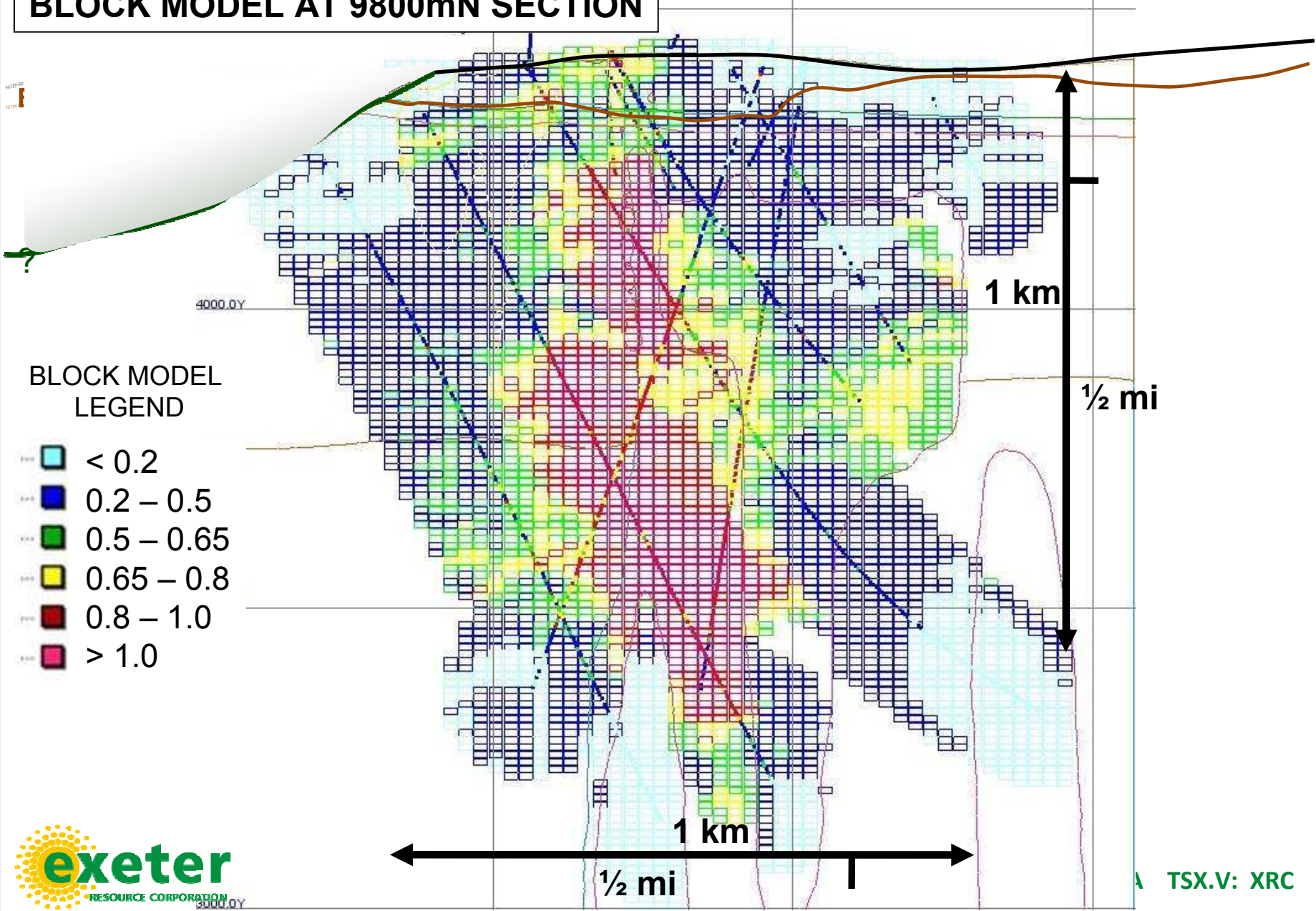
# V. Resource Definition

**BLOCK MODEL AT 3900RL  
(Approx 300-500m depth)**

 Indicated  
 Inferred

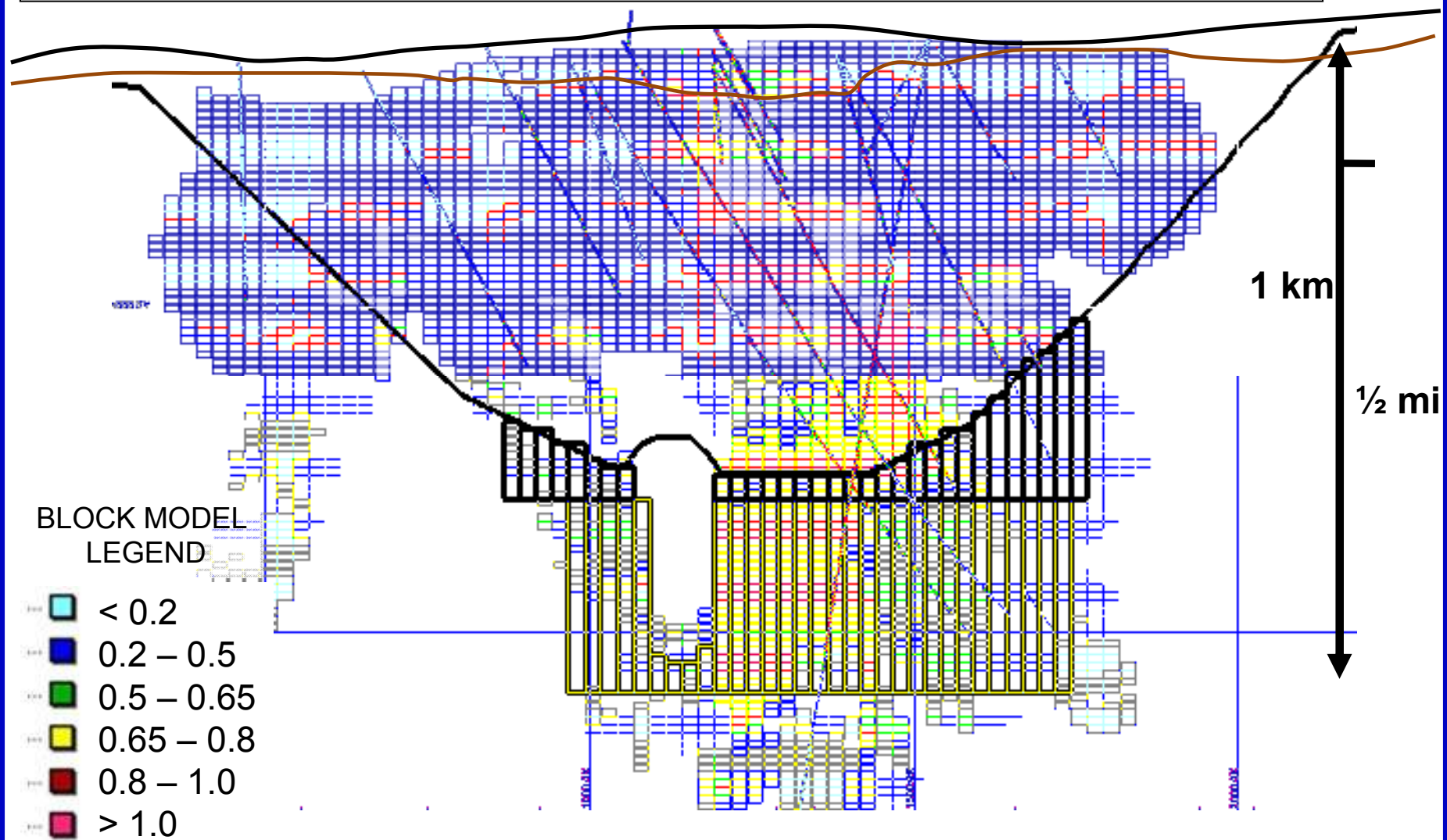


# BLOCK MODEL AT 9800mN SECTION



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# LONG SECTION – OPEN PIT AND UNDERGROUND RESOURCE SHELL



BLOCK MODEL  
LEGEND

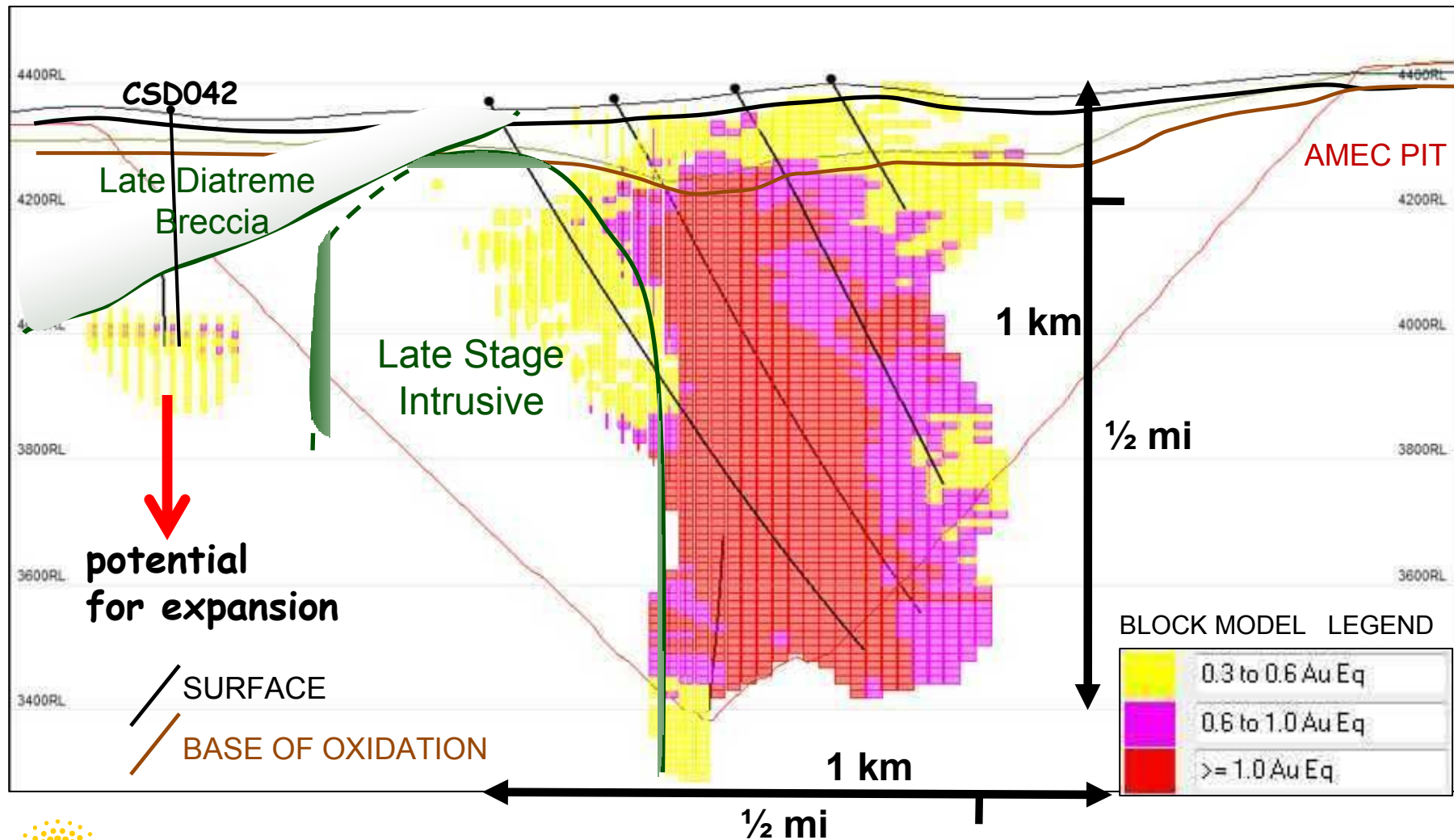
- < 0.2
- 0.2 – 0.5
- 0.5 – 0.65
- 0.65 – 0.8
- 0.8 – 1.0
- > 1.0



1 km  
↔  
1/2 mi

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# BLOCK MODEL AT 10000mN SECTION



# Caspiche NI 43-101 Resource by AMEC International

**1.47 Bmt at 0.20% Cu for 6.34 Blb Cu and 0.51 g/t Au for 24.3 Moz Au**

<u>Category</u>	<u>Source</u>	<u>Material</u>	<u>Cut-off</u>	<u>Volume</u>	<u>Tonnes</u>	<u>Au</u>	<u>Au</u>	<u>Cu</u>	<u>Cu</u>	<u>**AuEq</u>	<u>AuEq</u>
			<u>AuEq</u> <u>(g/t)</u>	<u>(Mm<sup>3</sup>)</u>	<u>(Mmt)</u>	<u>(g/t)</u>	<u>(Moz)</u>	<u>(%)</u>	<u>(Blb)</u>	<u>(g/t)</u>	<u>(Moz)</u>
<b>Indicated</b>	Open Pit	Oxide	0.2	39	95	0.46	1.40	0.01	N/A	0.46	1.40
		Sulphide	0.3	197	482	0.58	8.99	0.20	2.13	0.97	14.99
	Under-ground	Sulphide	NA*	82	208	0.59	3.94	0.29	1.33	1.13	7.52
	<b>Total</b>			<b>318</b>	<b>785</b>	<b>0.57</b>	<b>14.38</b>	<b>0.20</b>	<b>3.46</b>	<b>0.95</b>	<b>23.9</b>
<b>Inferred</b>	Open Pit	Oxide	0.2	5	13	0.30	0.13	0.01	N/A	0.30	0.13
		Sulphide	0.3	155	377	0.44	5.33	0.15	1.25	0.71	8.65
	Under-ground	Sulphide	NA*	116	298	0.47	4.50	0.25	1.64	0.95	9.06
	<b>Total</b>			<b>277</b>	<b>688</b>	<b>0.45</b>	<b>9.95</b>	<b>0.19</b>	<b>2.88</b>	<b>0.81</b>	<b>17.8</b>
<b>Indicated + Inferred</b>	<b>Combined Total</b>	<b>Oxide + Sulphide</b>		<b>595</b>	<b>1,473</b>	<b>0.51</b>	<b>24.3</b>	<b>0.20</b>	<b>6.34</b>	<b>0.88</b>	<b>41.8</b>

\* The underground resource shell is defined assuming a block caving mining method and appropriate mining costs. The block caving mining method does not permit any selectivity during the mining process and all material within the underground resource shell is therefore considered a resource.

\*\* Gold equivalence was calculated by AMEC using assumed metal prices of \$950/oz for gold and \$2.30/lb for copper and projected metallurgical recoveries of 75% and 85% respectively for sulphide material and 50% for Au in the oxide zone.



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# VI. Stage of development

Studies	Sectors	Consultants
METALLURGY	OXIDE	McCLELLAND – Reno, Nevada, USA
	SULPHIDE	G&T METALLURGICAL – Kamloops, BC, Canada
		SNC –LAVALIN – Perth, Western Australia
INFRASTRUCTURE	POWER	HATCH – Santiago, Chile
	WATER	KNIGHT PIESOLD - Santiago, Chile
		HATCH – Santiago, Chile
		IN - HOUSE
		IN - HOUSE
ENVIRONMENTAL	BASELINE	IAL AMBIENTAL – Santiago, Chile
DEVELOPMENT ANALYSIS	OPEN PIT	NCL INGENARIA Y CONSTRUCCIONES – Santiago, Chile
	UNDERGROUND	
	SITE LAYOUT	





Thank

