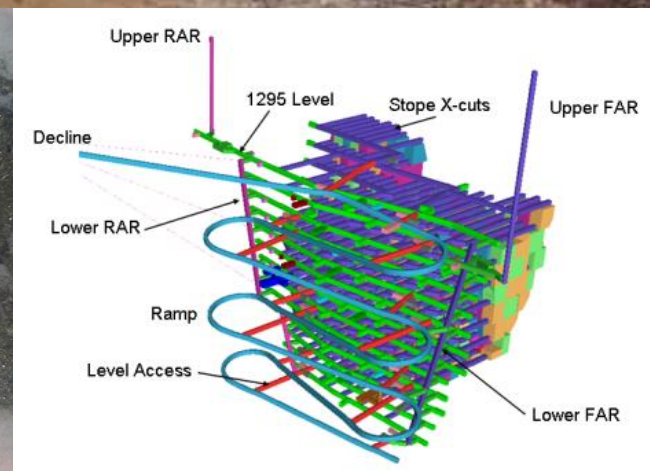


Discovery and Development of the Giant Fruta del Norte Epithermal Au/Ag Deposit, Ecuador

And other exploration plays in the Cordillera del Condor

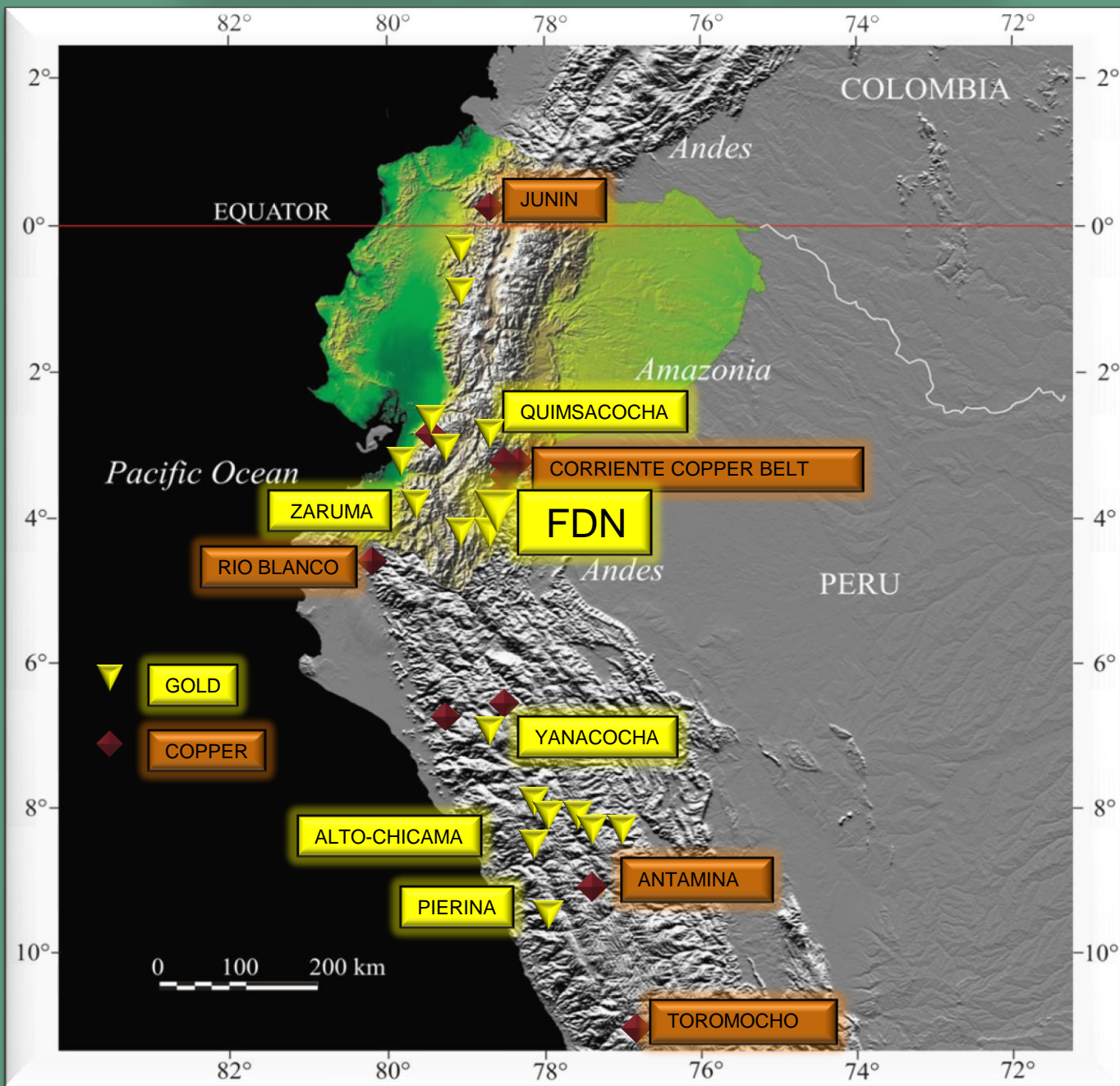


KINROSS

Karl Roa – Kinross Brazil Exploration
Presented at Simexmin, May 2010



ECUADOR'S MINERAL WEALTH



SUB-ANDEAN ZONE (Cordillera del Condor)



ENVIRONS OF FDN

Cretaceous 119-110 Ma

Cretaceous

FDN 158-156 Ma

Jurassic 170-190 Ma

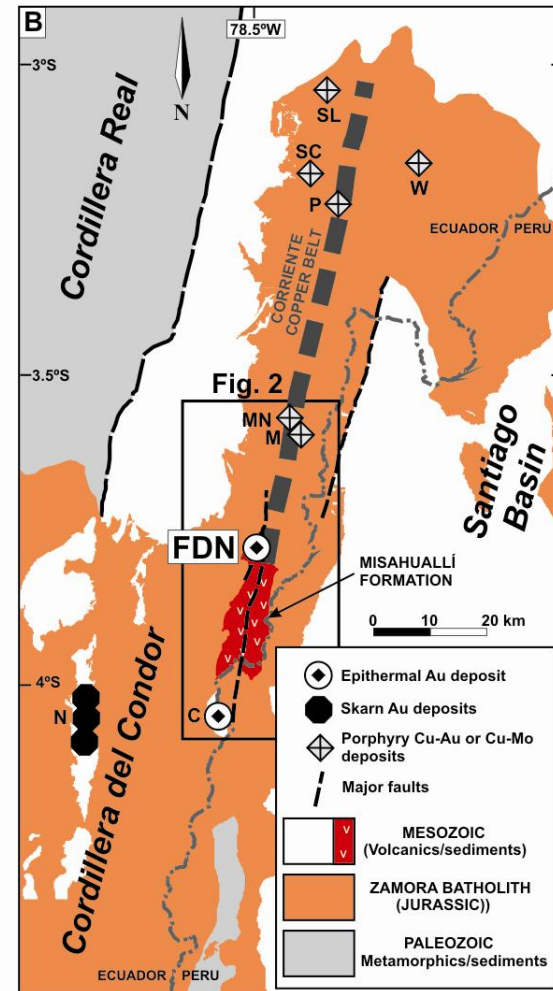
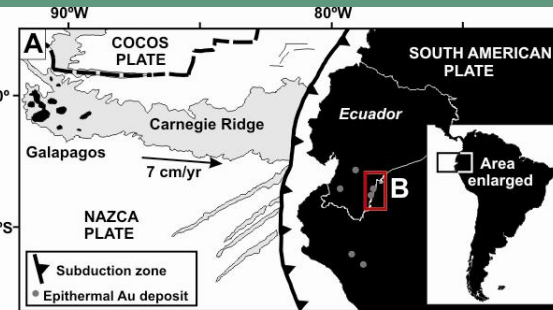
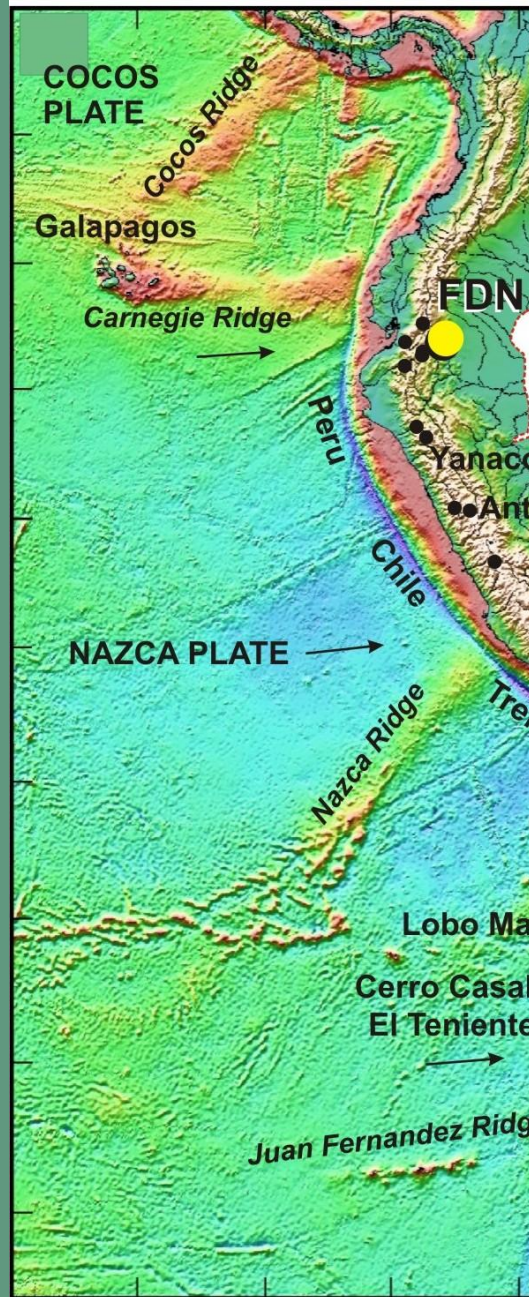


Project timeline - FDN

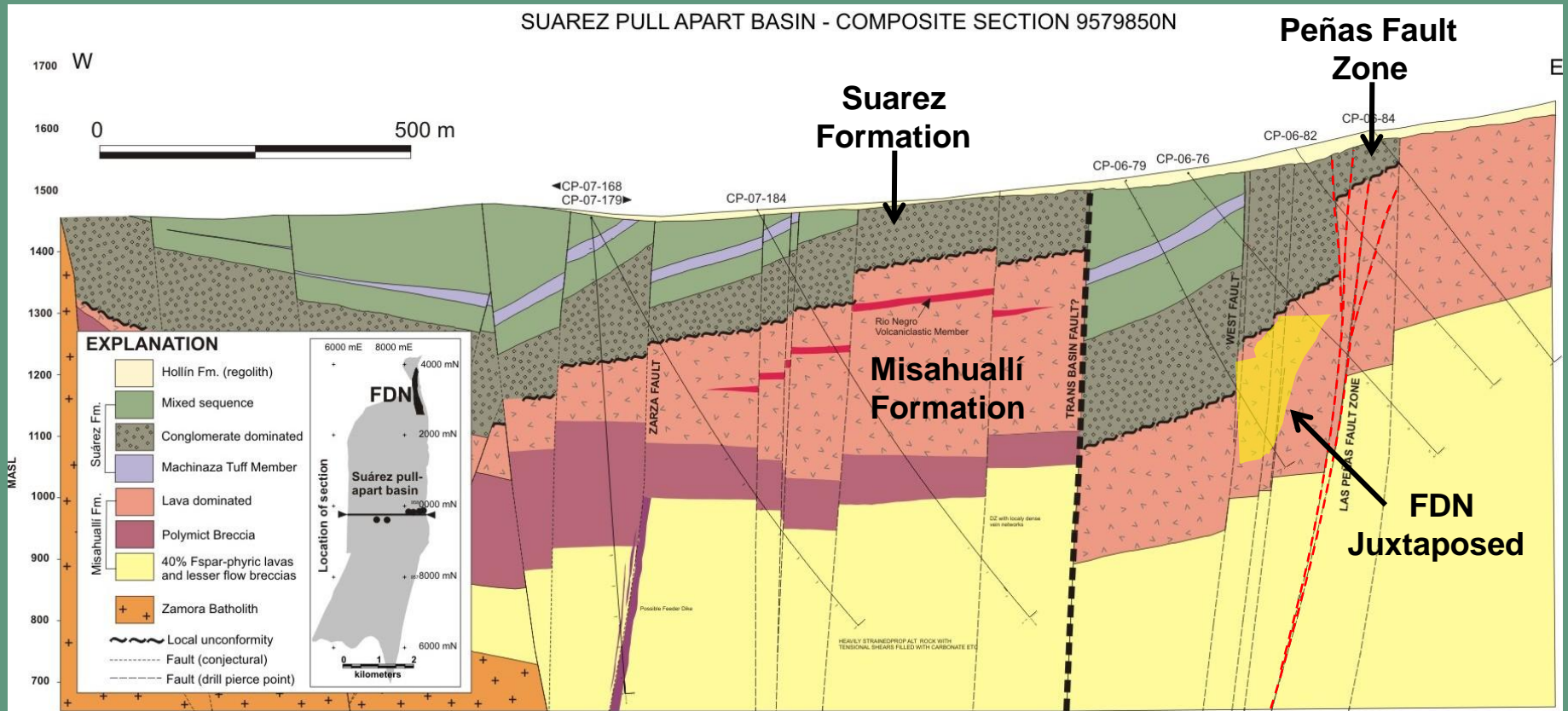
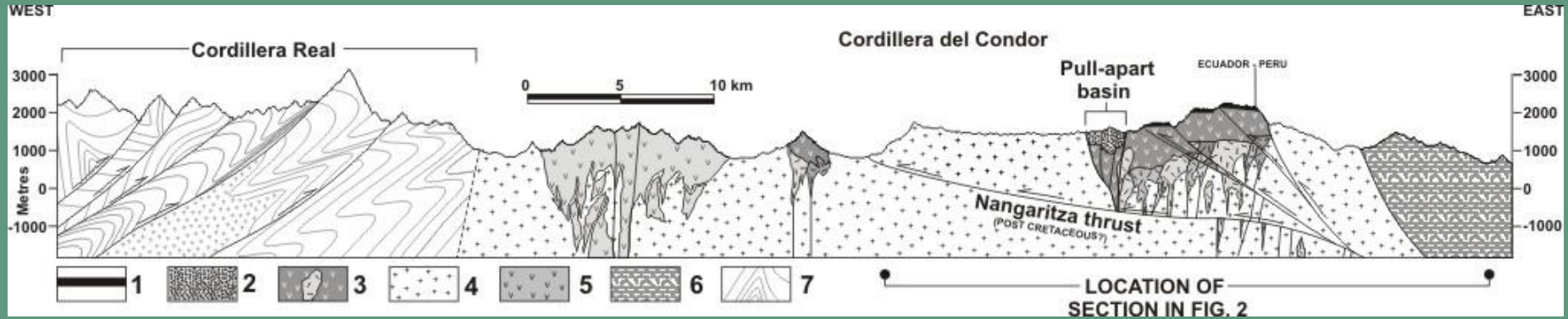
- 1993-1996 Artisanal miners (alluvial, limited hard rock activity south of FDN)
- 1996-1998 Climax Mining Bonza-Las Peñas/Ubewdy – IP defined anomaly at FDN
- 2001 Aurelian Resources consolidates the Condor Project
- Feb 2006 FDN blind target predicted and discovered (Steve Leary + Ecuador team)
- Nov 2007 Inferred Resource Estimate –13.7 m oz 7.23 g/t Au (2.3 g/t Au cap)
- March 2008 FDN exploration team wins the international discovery award PDAC
- Jan-Apr 2008 50, 25 m infill drilling, Basin drilling, Aeromag, Geotech, Metallurgical drilling
- April 2008 **MINING MANDATE**
- Sept 2008 Kinross Gold Corp take over of Aurelian Resources
- Nov 2009 Drilling at FDN recommences – Pre-feasibility Stage (Q4 2010)

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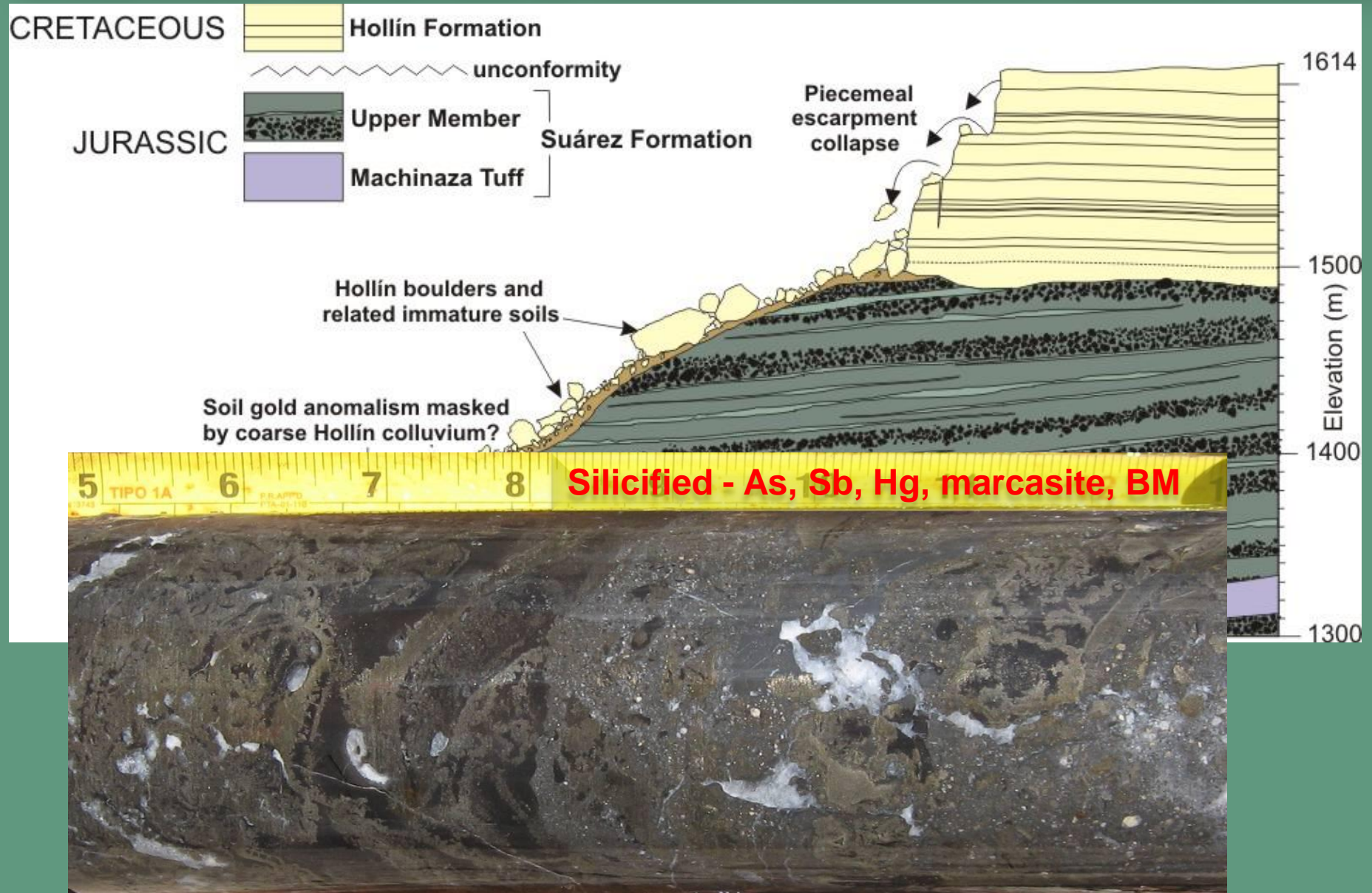
REGIONAL TECTONICS



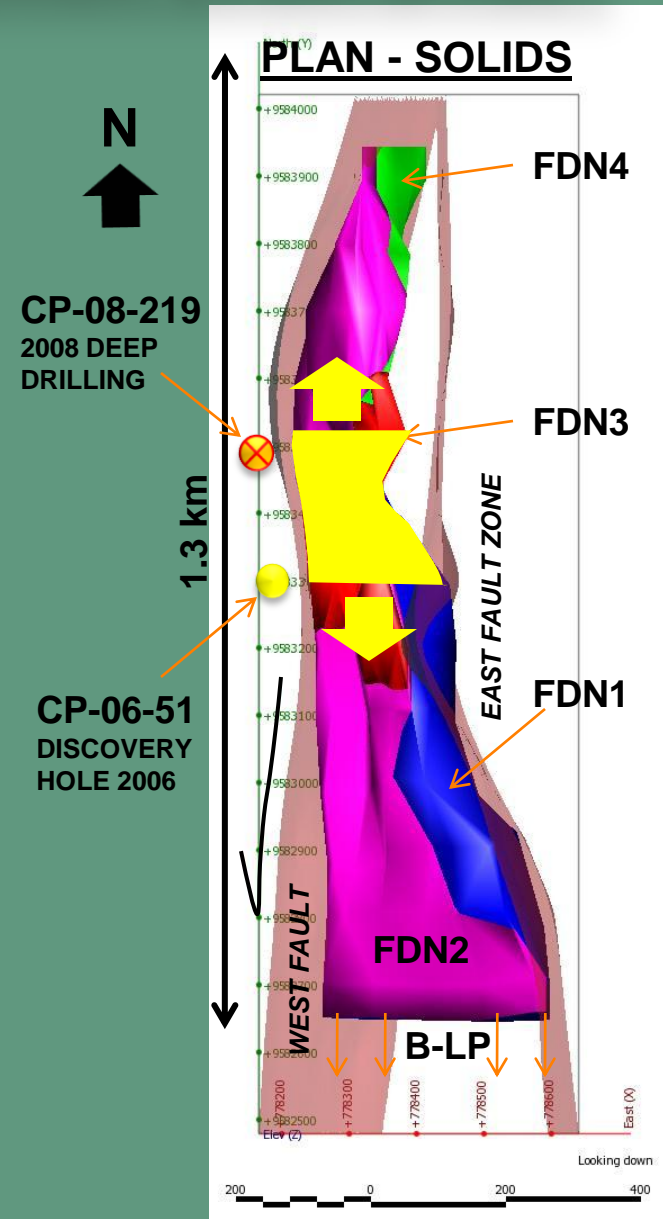
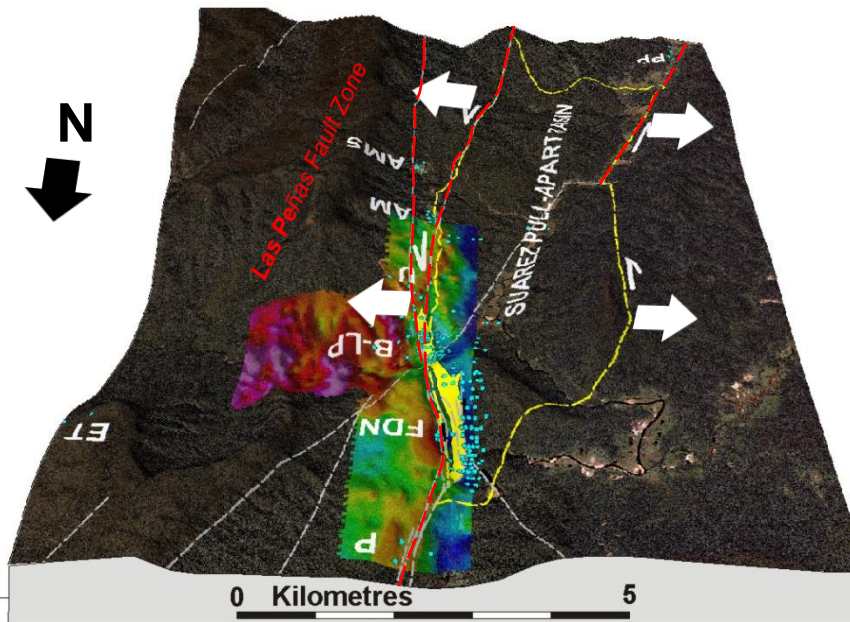
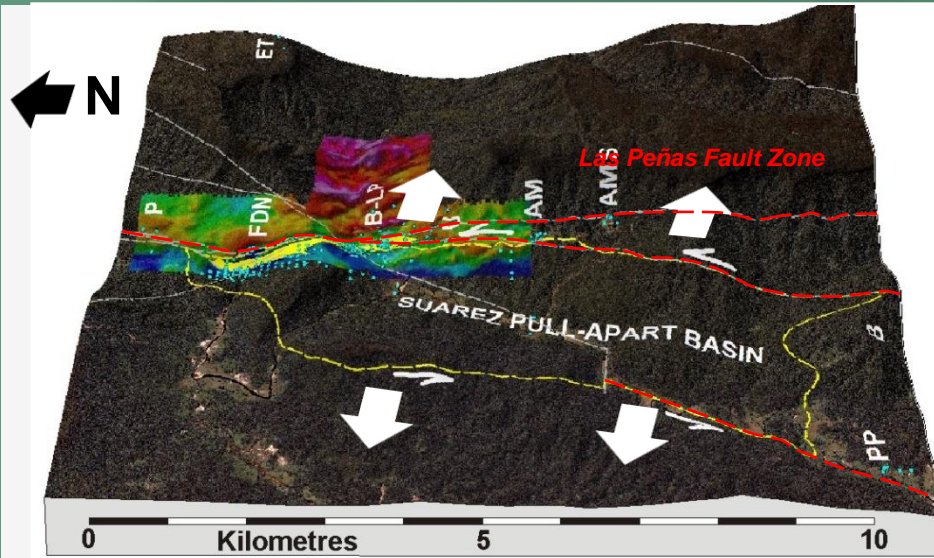
LOCAL CRUSTAL STRUCTURE



FRUTA DEL NORTE – BLIND TARGET – PATH-FINDER GEOCHEMISTRY

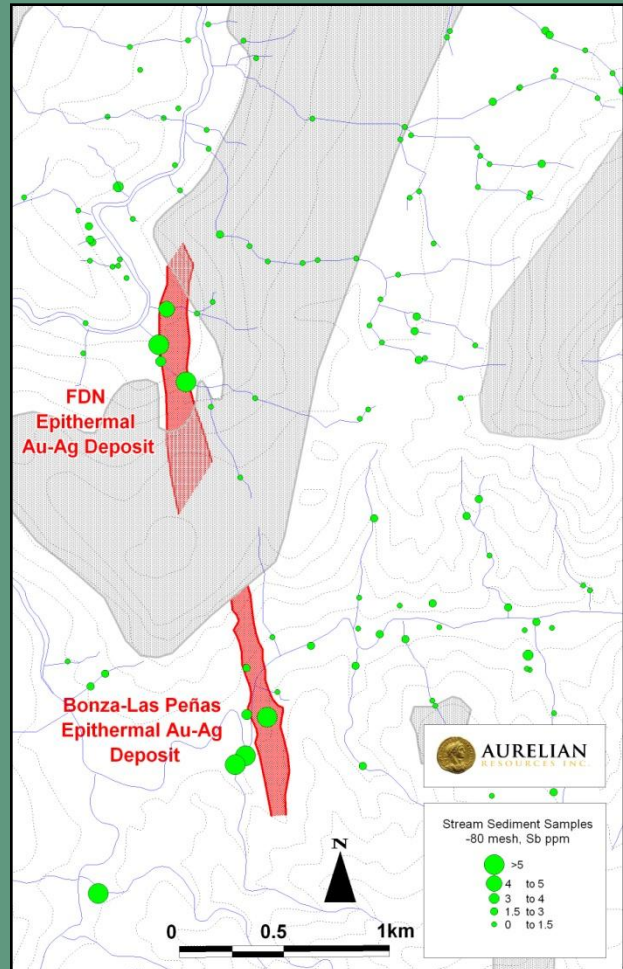
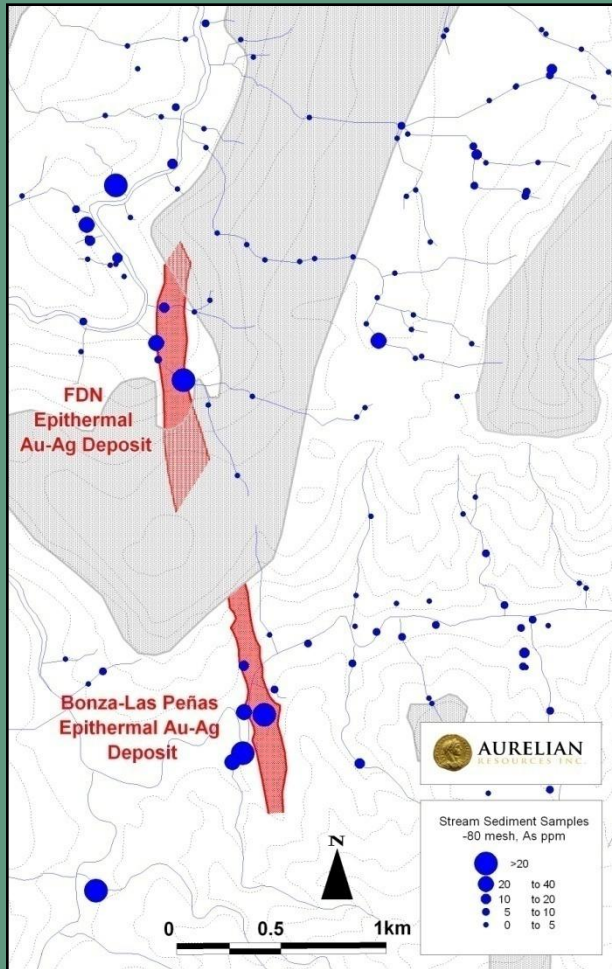
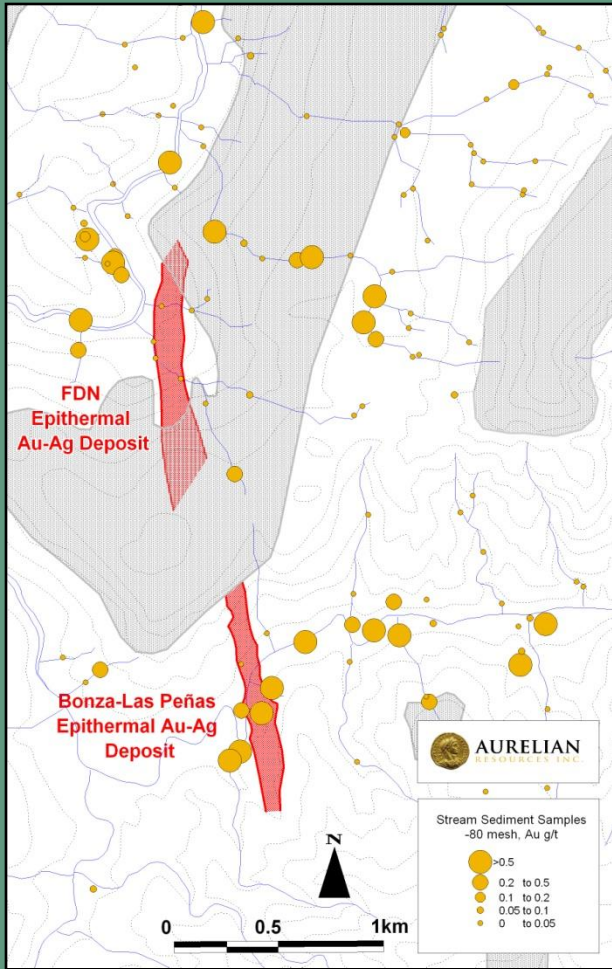


DEPOSIT PHYSIOGRAPHY AND CURRENT EXTENT OF FDN

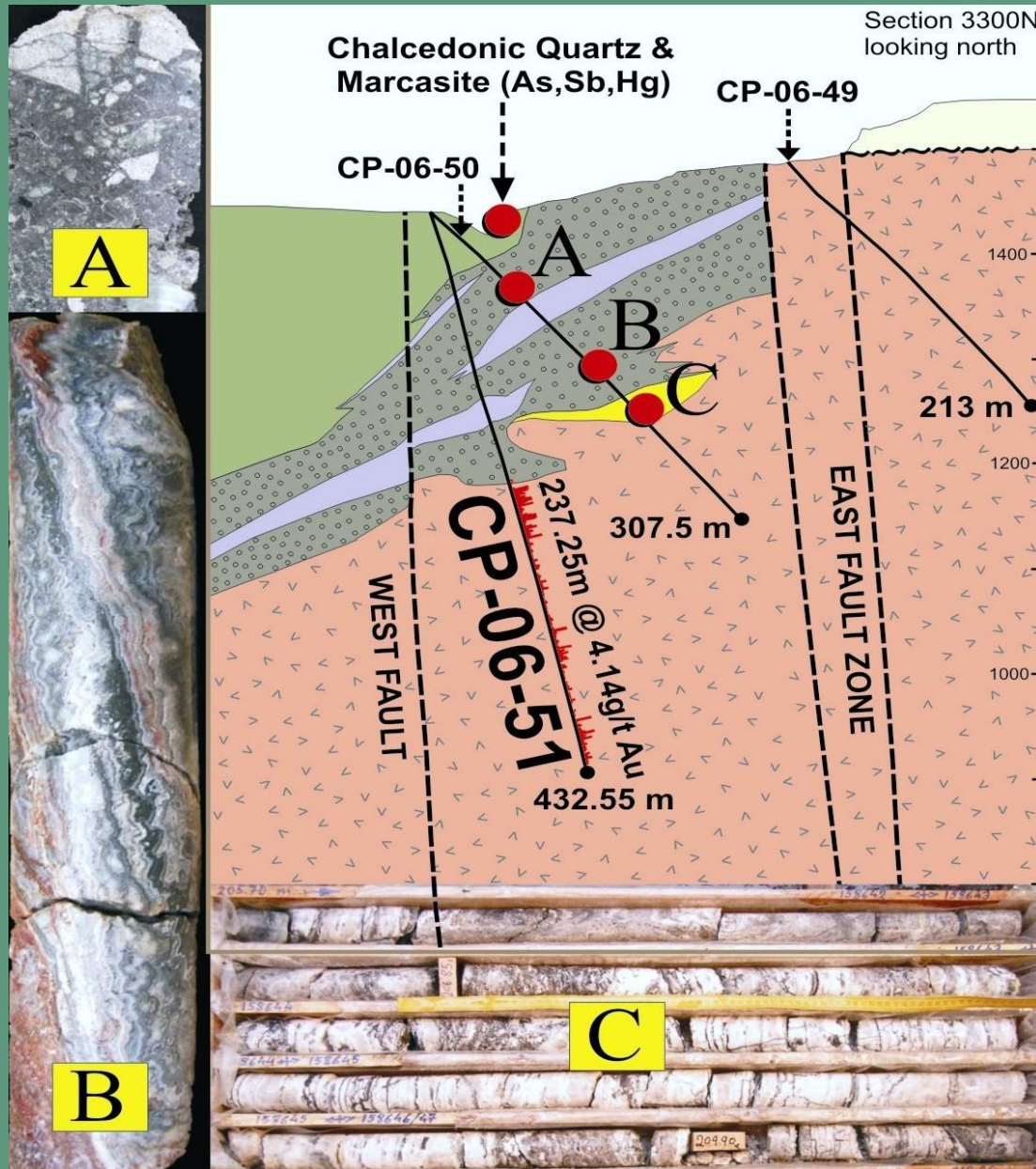


FDN STREAM SEDIMENT SIGNATURE

No Au..... but anomalous in As and Sb



THE DISCOVERY



Au INTERCEPTS – GLOBAL COMPARISON

Intercept rank	Deposit	Country	Hole No.	Metres	g/t Au	Gram-metre	Comments
1	Eskay Creek	Canada	DH-109	210.1	27.37	5748	Discovery Hole
3	Deep/Lower Post	Nevada, USA		137	33.87	4645	Best hole (grade data?)
4	Deep/Lower Post	Nevada, USA		119.18	33.8	4036	Discovery Hole
7	Sleeper	Nevada, USA		102	28	2856	
8	Quimsacocha	Ecuador		37.2	46.1	1714	Hole announced July '06
9	Lihir	PNG		197	6	1182	Plus Hg. Ag
10	El Peñon	Chile	DH-94	100	10.9	1090	Discovery Hole
12	Betze	Nevada, USA		60.96	14.62	891.15	
13	Pierina	Peru		77	4.7	361.9	
2	Fruta del Norte	Ecuador	CP-06-57	189.2	24.93	4716	Section 3400 N (0.5 g/t Au lower cut, 5 m dilution)
5	Fruta del Norte	Ecuador	CP-07-139	158.4	25.2	3993	Section 3400 N (0.5 g/t Au lower cut, 5 m dilution)
6	Fruta del Norte	Ecuador	CP-06-58	255	12.55	3200	Section 3400 N (0.5 g/t Au lower cut, 5 m dilution)
11	Fruta del Norte	Ecuador	CP-06-51	237.25	4.14	982.22	Discovery hole - Section 3300 N



FDN MINERAL ZONES
Intermediate Sulfidation Epithermal System

LAMINATED SILICA SINTER/MUD POOL DEPOSITS



Stromatolitic texture



Laminated silica sinter



Mud pool deposit



Champagne Pool, Wai-O-Tapu, New Zealand



Sinter terrace and geyser at Rotorua, New Zealand



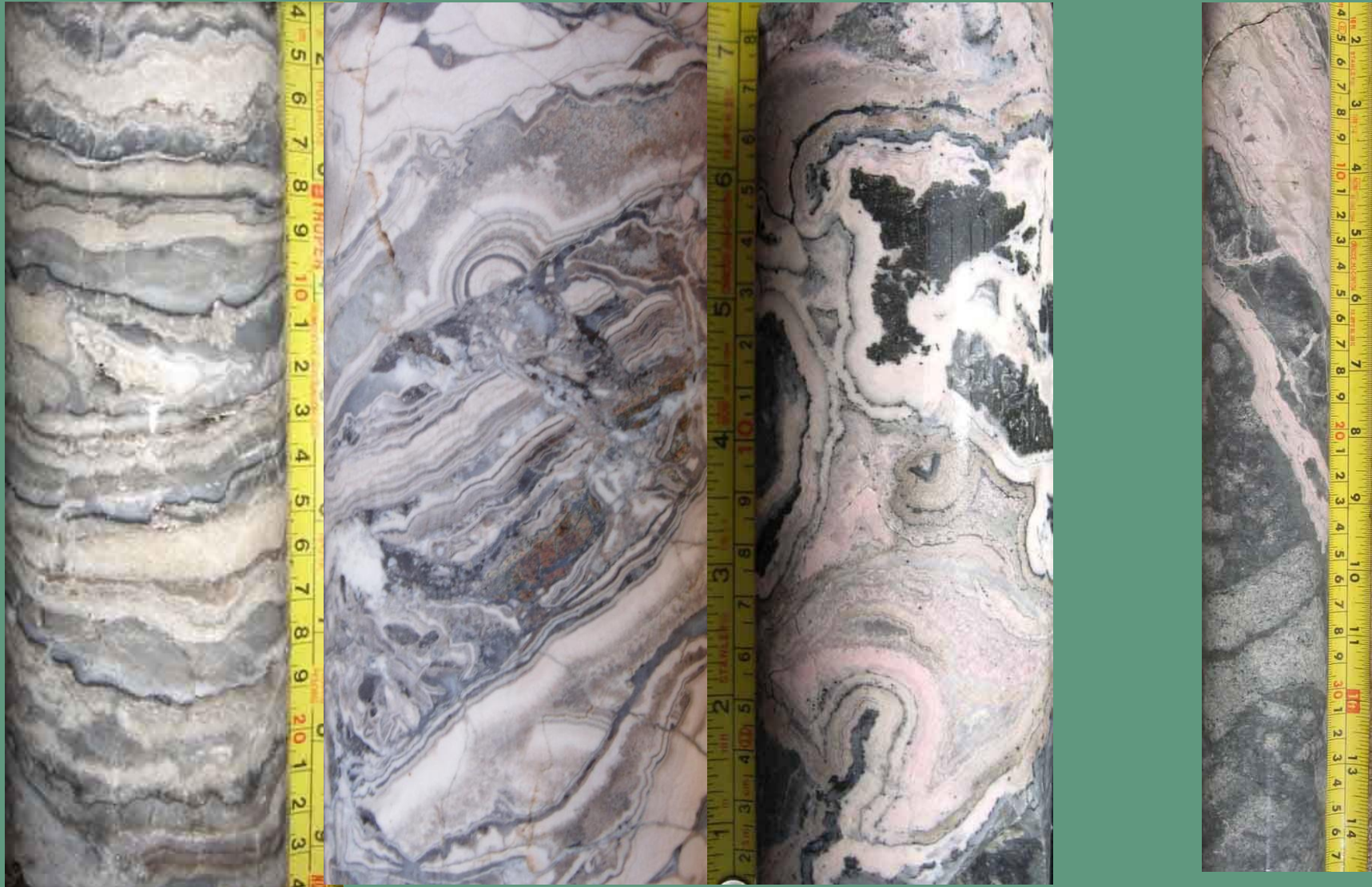
Mud Pool burst at Wai-O-Tapu, New Zealand

FDN-1 Mn-carbonate/rhodochrosite stockworks + BM

7.43 g/t Au, 7.54 M oz (55% of orebody)

TEXTURES:- Crustiform-colloform-cockade-ginguro

Diatreme breccia
(dacite)



FDN-2 Chalcedony marcasite + base metal sulphide

7.31 g/t Au, 3.64 M oz (22% of orebody)

FEATURES:- >1% SULPHIDE (marcasite) – blackened fine matrix



FDN-3 Upper silica low sulphide carapace

12.36 g/t Au, 0.4 M oz (2% of orebody)

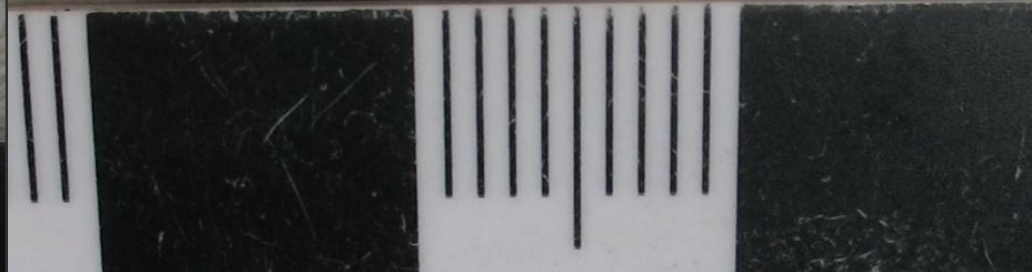
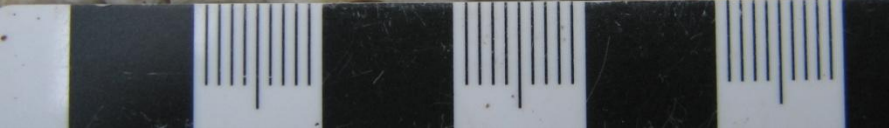
FEATURES:- Depleted in sulphide, enriched in celadonite, locally vuggy



FDN-4 Northern quartz vein zone

6 g/t Au, 2.1 M oz (18% of orebody)

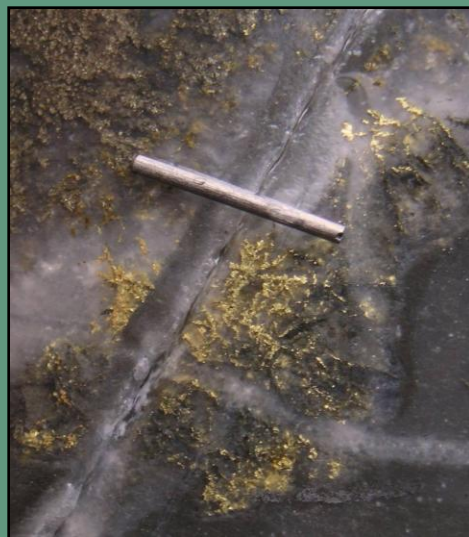
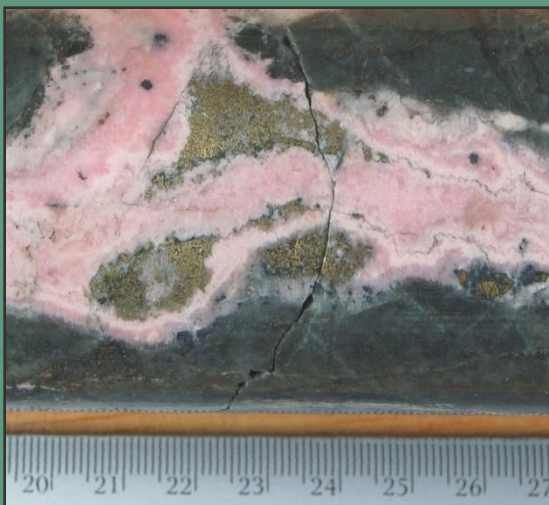
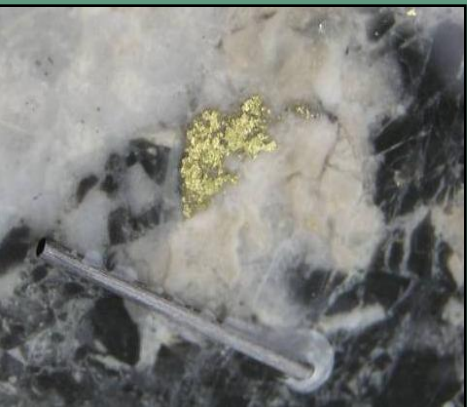
FEATURES:- Bladed carbonate (replaced), adularia – intense stockworks - electrum



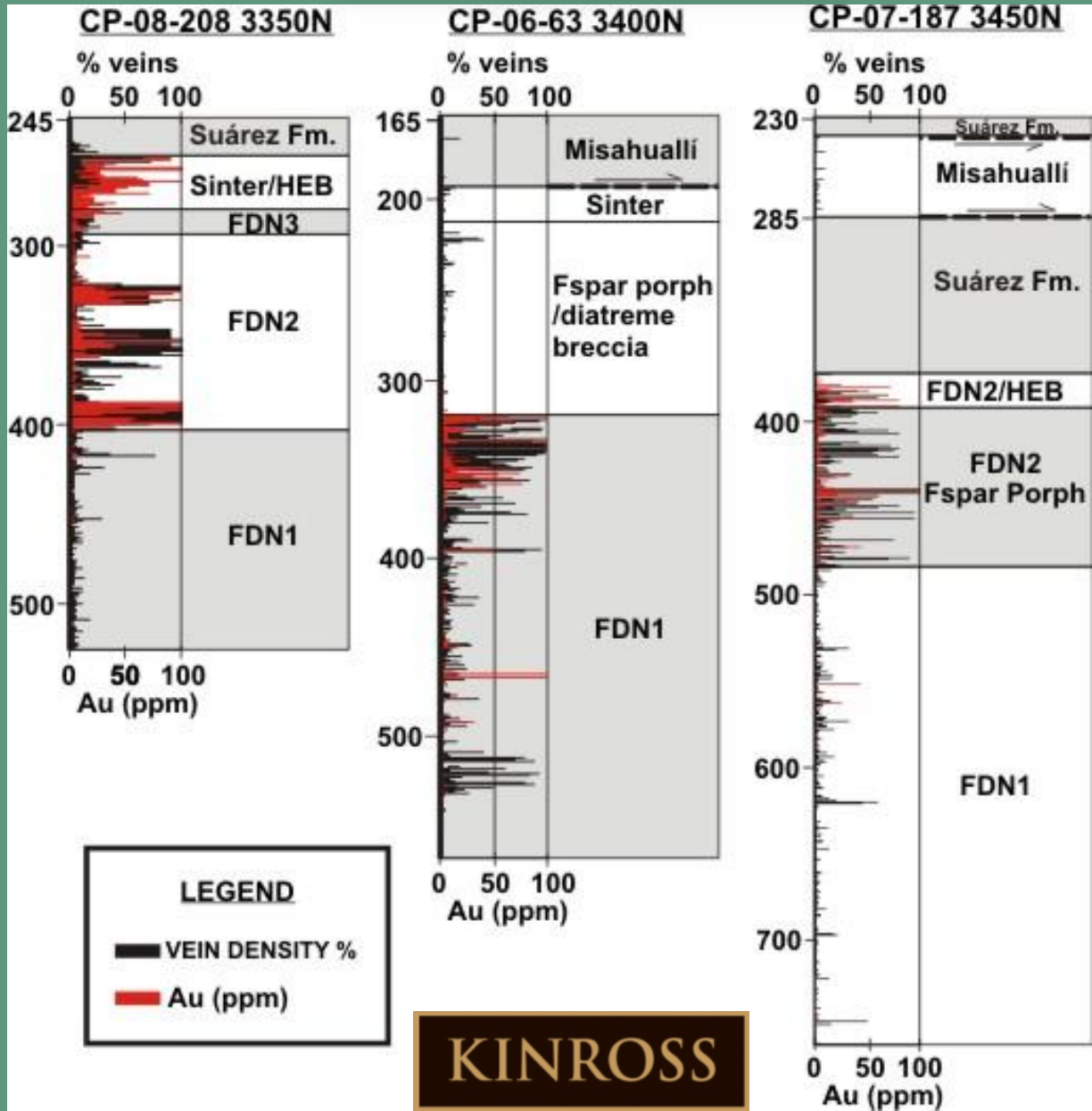
FDN1.... 2447 g/t Au

THE GOLD

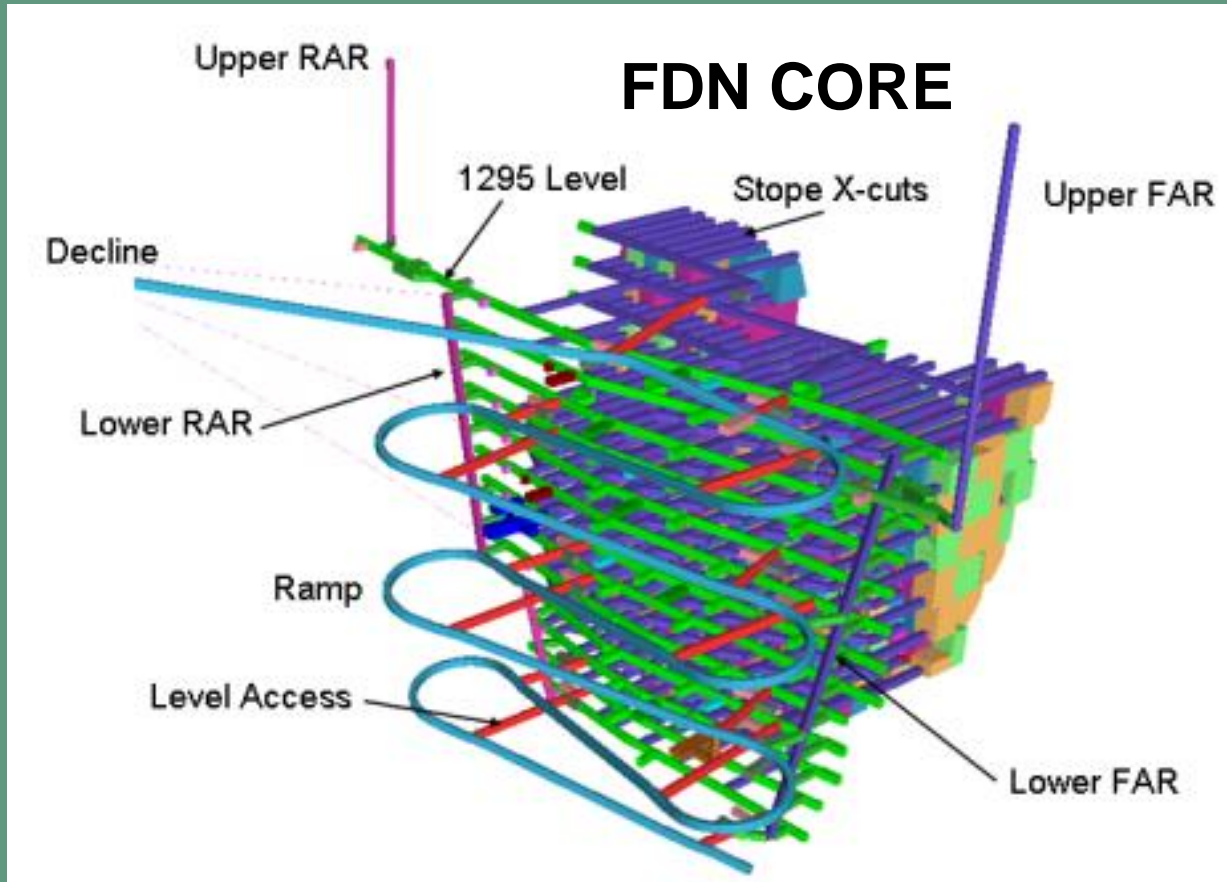




VEIN DENSITY



CONCEPTUAL MINE DESIGN PLANS



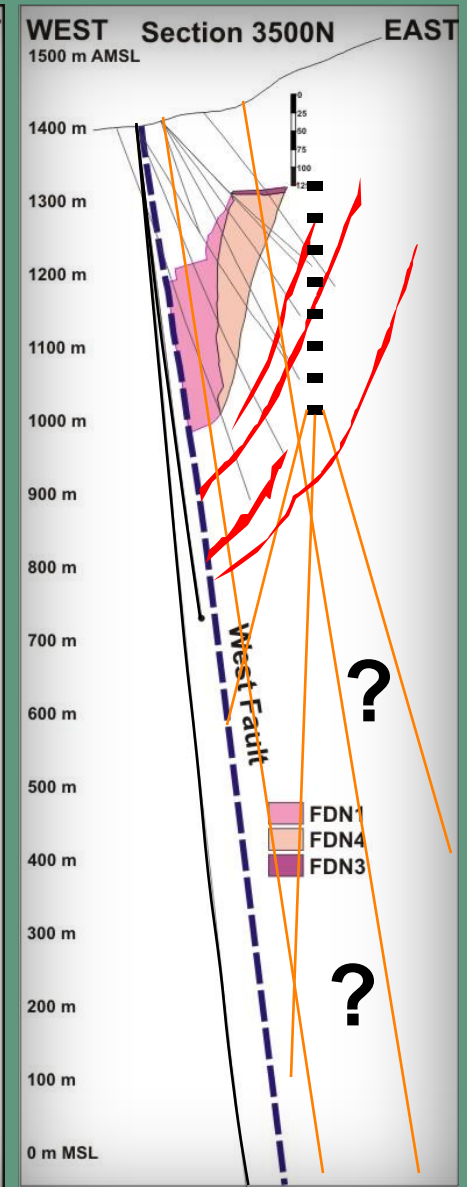
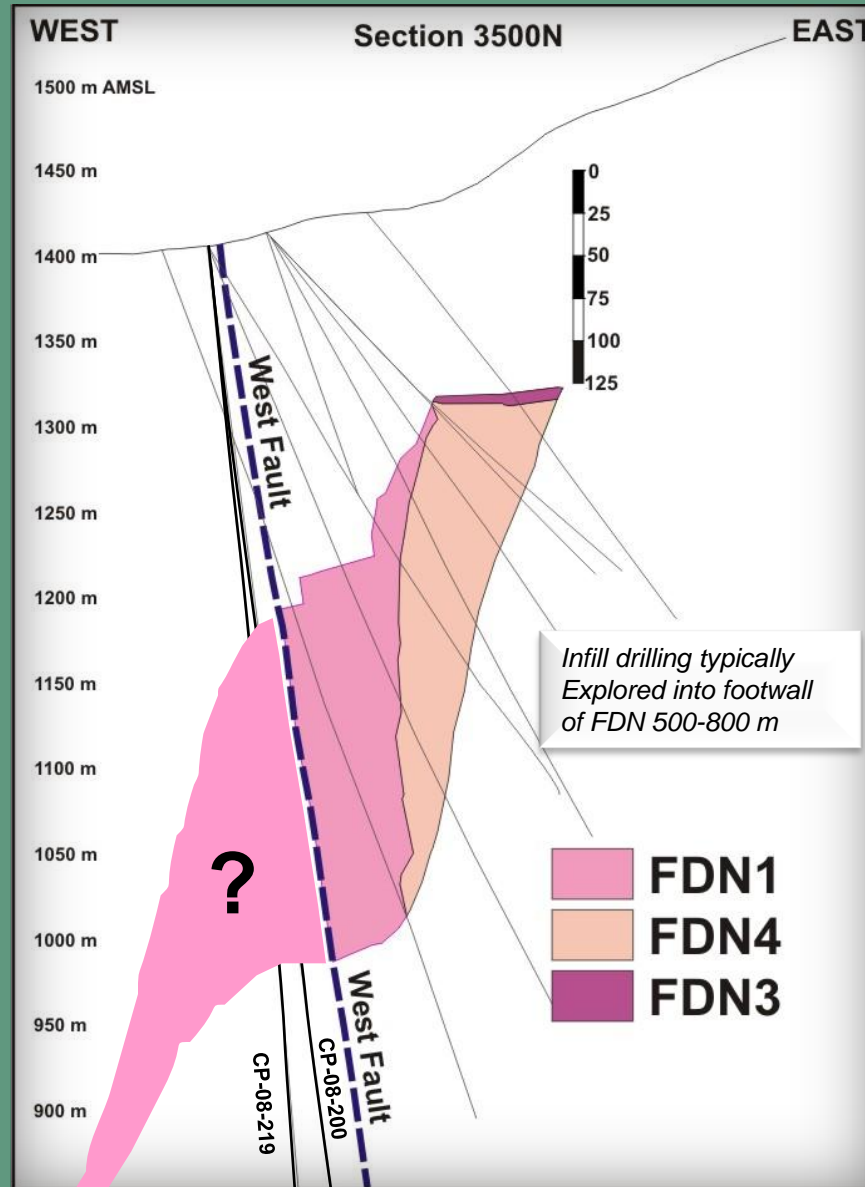
- 2000-4000 TPD U/G OPERATION (INITIAL)
- GRAVITY/POX/CIL
- LOW ENVIRONMENTAL FOOTPRINT

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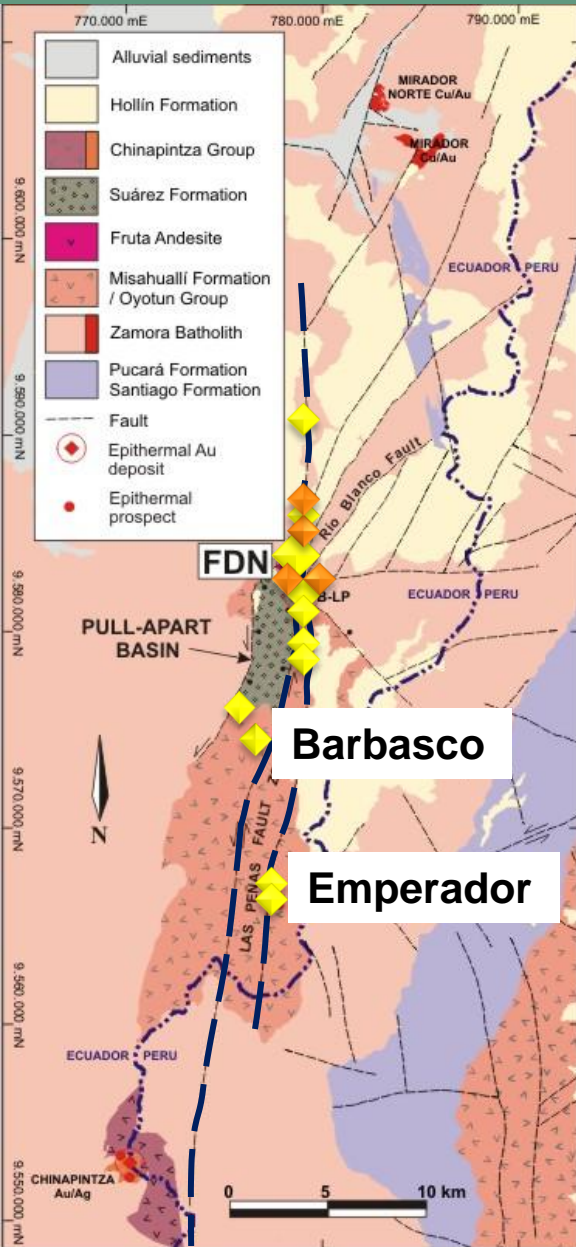
FDN – FUTURE INITIATIVES

OBJECTIVES

- Testing for the displaced other half of FDN.
(Potential multi-million ounce extension)
- DEEP DRILLING 2008
CP-08-200 (abandoned)
CP-08-219 (1434 m)
- ALTERNATE STRATEGIES
1: Within FDN block
2: From underground
- Exploration of the footwall
- Footwall veins
e.g. 53 g/t Au - 3000 g/t Ag
(CP-07-151)
- Exploration East of FDN
- Porphyry Copper targets
- Sandia 1.2% Cu grabs
Papaya – 6% Cu outcrop
Tranca Loma 73 m @ 0.3% Cu
Camp – 116 m @ 0.35 % Cu



FUTURE INITIATIVES - PEÑAS FAULT ZONE/MISSAHUALLÍ



EMPERADOR – SINTER SUBCROP

- Laminated sinter, oncoidal



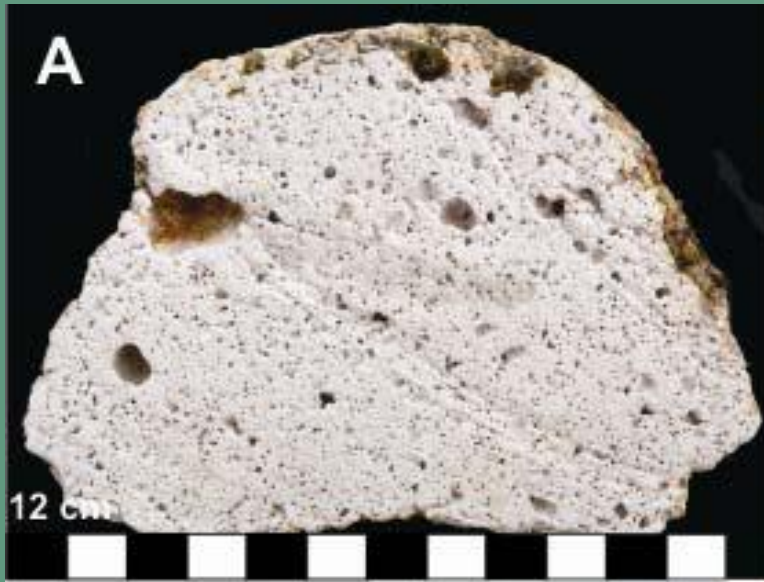
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AMERICAN / CANADIAN
STRATIGRAPHIC

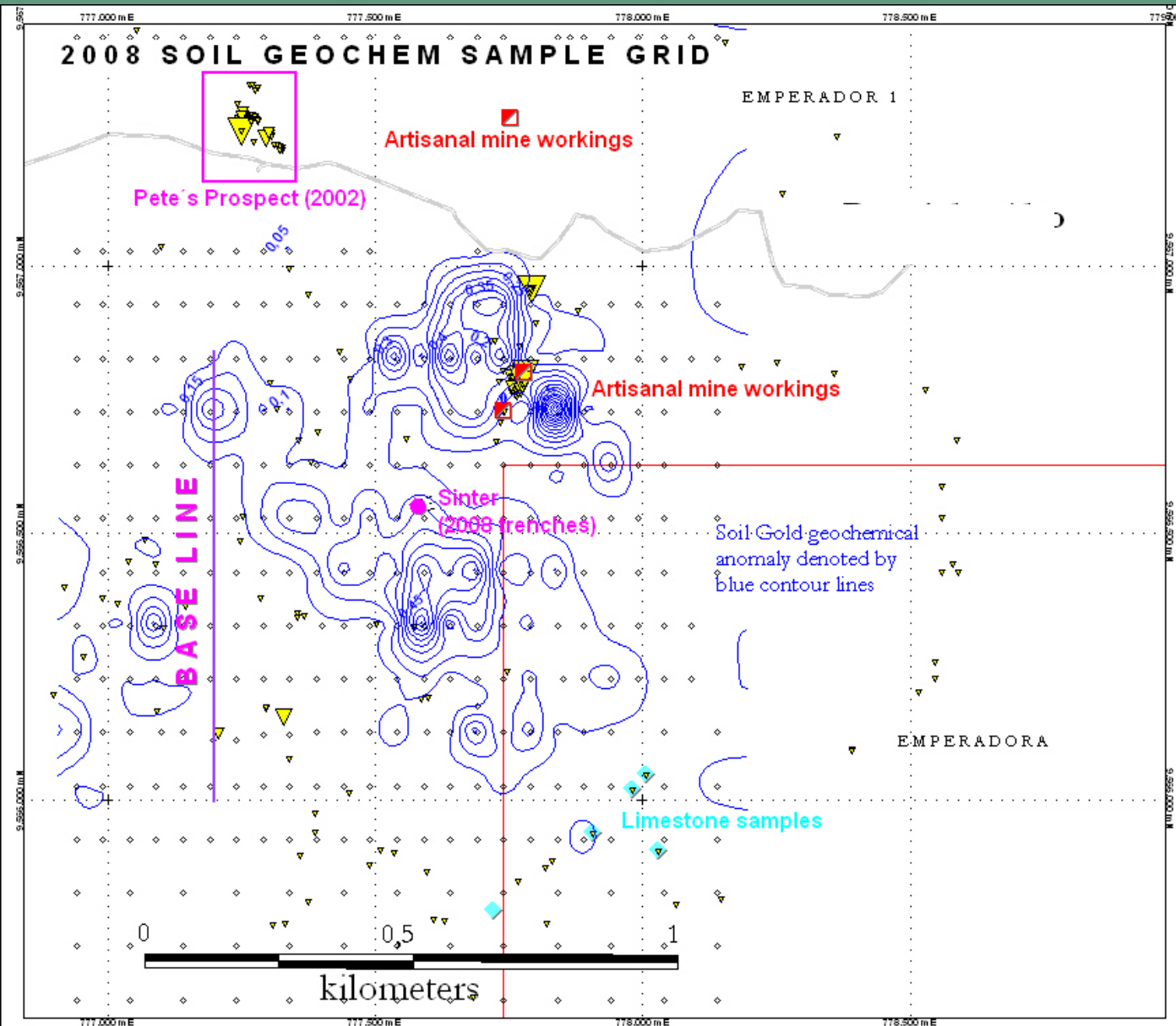
WU	= 1410 - 2000 μ	= -0.5 - -1.0 ϕ
WL	= 1000 - 1410 μ	= 0.0 - -0.5 ϕ
GU	= 710 - 1000 μ	= 0.5 - 0.0 ϕ
GL	= 500 - 710 μ	= 1.0 - 0.5 ϕ
MU	= 350 - 500 μ	= 1.5 - 1.0 ϕ
ML	= 250 - 350 μ	= 2.0 - 1.5 ϕ
LU	= 177 - 250 μ	= 2.5 - 2.0 ϕ
LL	= 125 - 177 μ	= 3.0 - 2.5 ϕ
UL	= 88 - 125 μ	= 3.5 - 3.0 ϕ

EMPERADOR – VUGGY SILICA

- High Sulfidation component



EMPERADOR – GEOCHEMICAL ANOMALY



- <1 km coincident Au, As, Sb anomaly.
- Vuggy silica (HS component)
- Pyritic breccias
- Sinter
- Diatreme-like system (Chinapintza style?)

MUITO OBRIGADO

KINROSS

