The Geology and Uranium Mineral Resources and Exploration Potential of the Parana Basin, Paraguay, South America.

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ACKNOWLEDGEMENT:
Uranium Energy Corporation (UEC)

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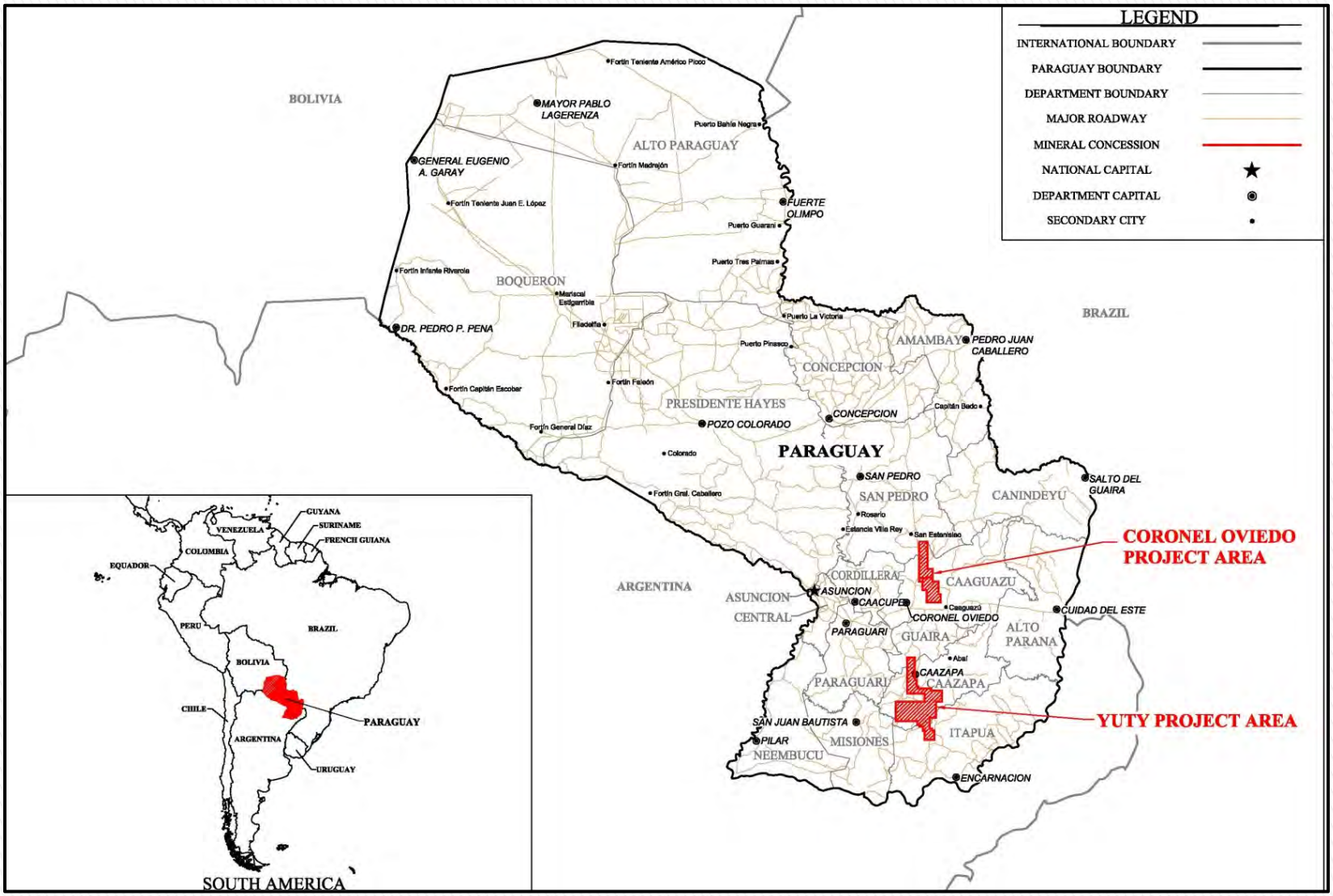
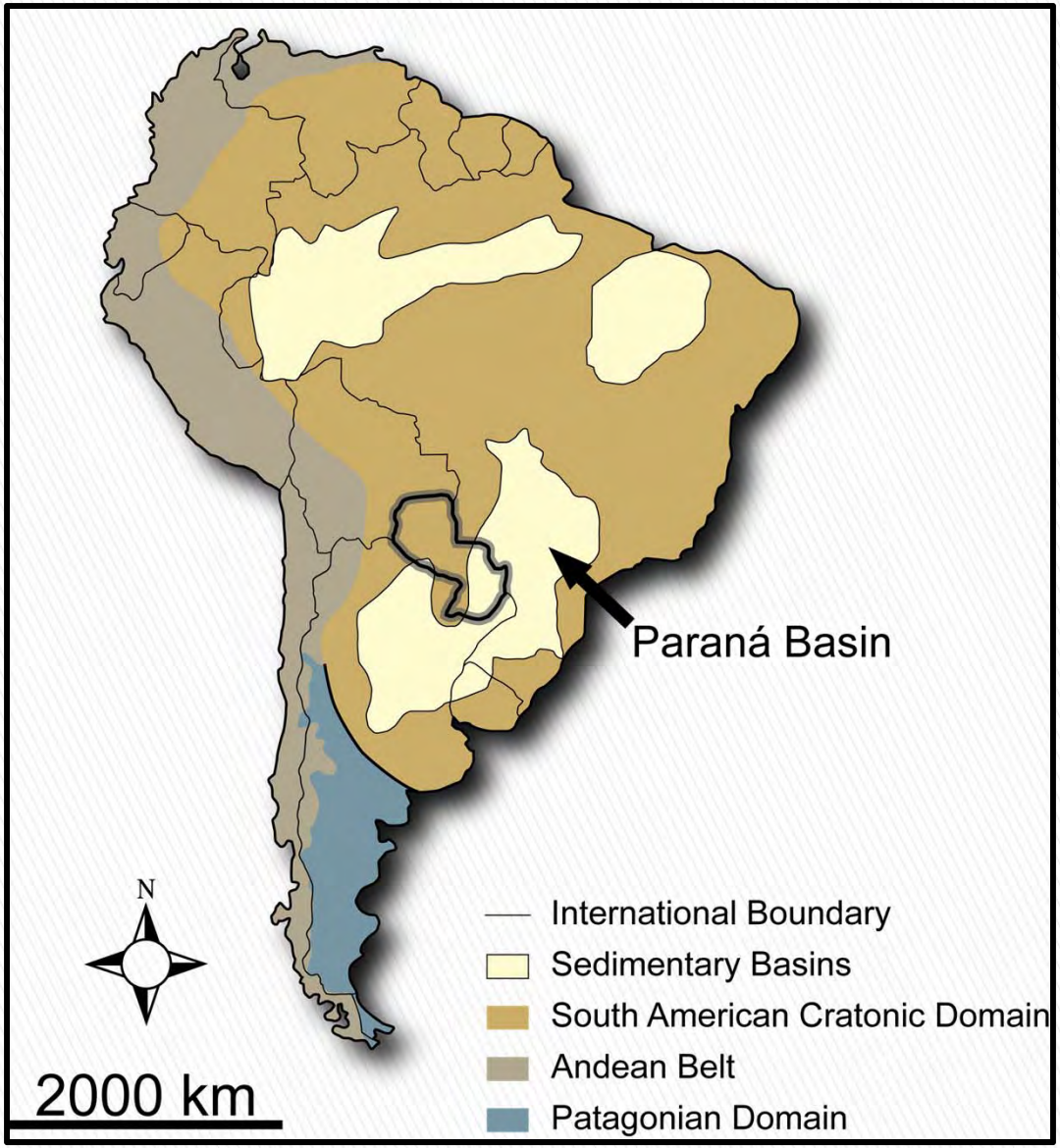


Location Map



After Milani and Thomaz-Filho, 2000, and Baretto, 1985

- Intracratonic Basin
- Paleozoic and Mesozoic Sediments
- 1,600,000 km^2
- Paraguay, Brazil, Argentina, and Bolivia
- Uranium Mineralization
  - Lower Devonian
  - Upper Permian Carboniferous

Tectonic Regions of SA

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Geologic History, Parana Basin

- Middle Silurian
  - Marine sequences of sandstone, siltstone, and shale
  - Transgressive sequence of coarse sediments
- Devonian
  - Continental sequences of sandstone, siltstone, shale
  - Uranium mineralization, Amorinopolis District Brazil
- Late Devonian to Late Carboniferous
  - Extended period of erosion
- Permo-Carboniferous
  - Following uplift in late Carboniferous
  - Sandstone, siltstone, shale, and coals
  - Uranium mineralization UPC
    - Figureira District, Brazil
    - **Yuty and Coronel Oviedo, Paraguay**

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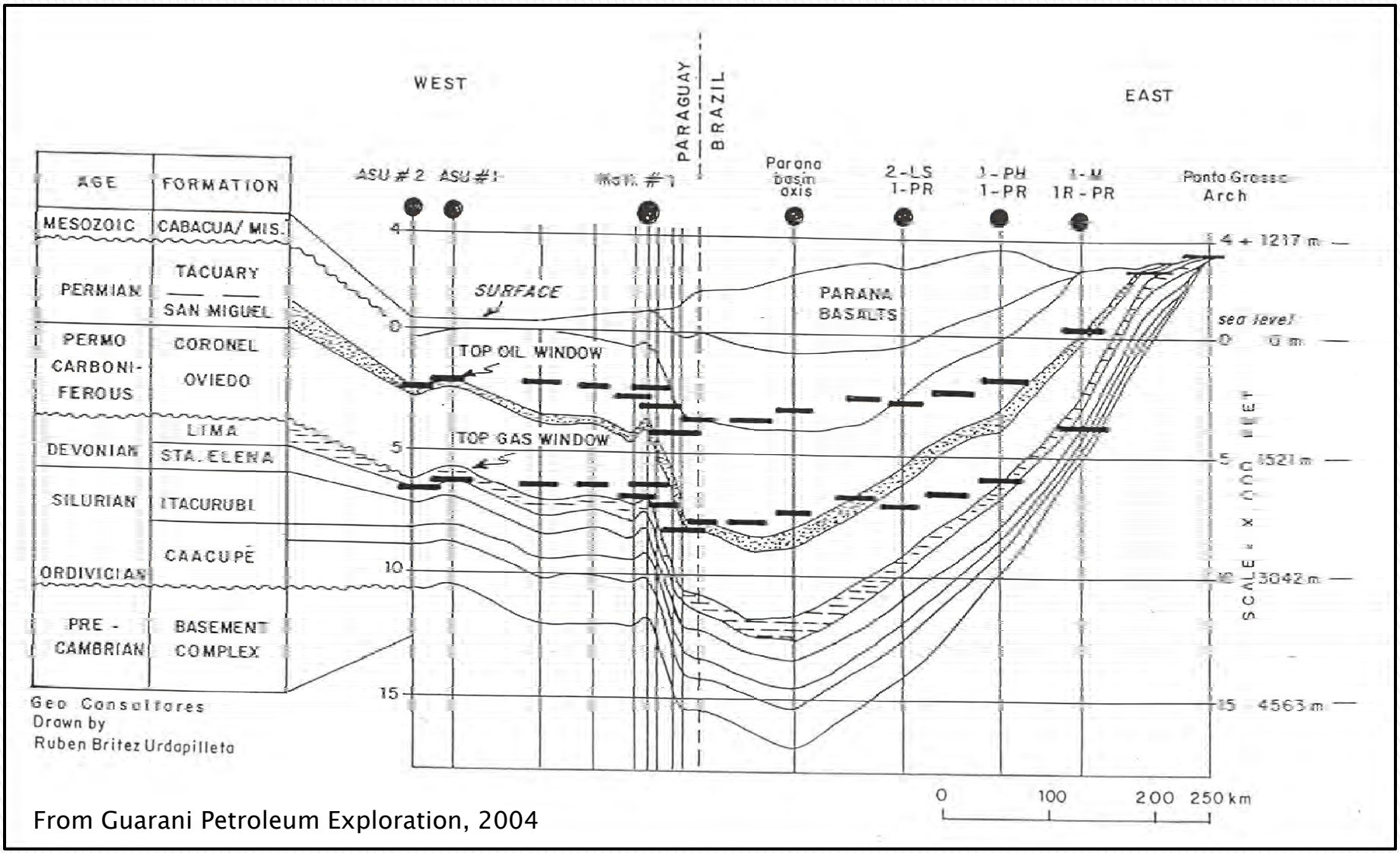

From Guarani Petroleum Exploration, 2004

Regional Cross Section

Description of Uranium Deposits

- Sandstone Type Deposits
  - Roll Front Type
  - Tabular Type
- Digenetic-Epigenetic, Low Temperature
- Source of Uranium
  - Overlying Cretaceous Volcanics
  - Surrounding Basement Rocks
  - Syngenetic
- Reductatant
  - H_2S gas and/or formation of sulphides (pyrite)
  - Interstitial carbonaceous materials

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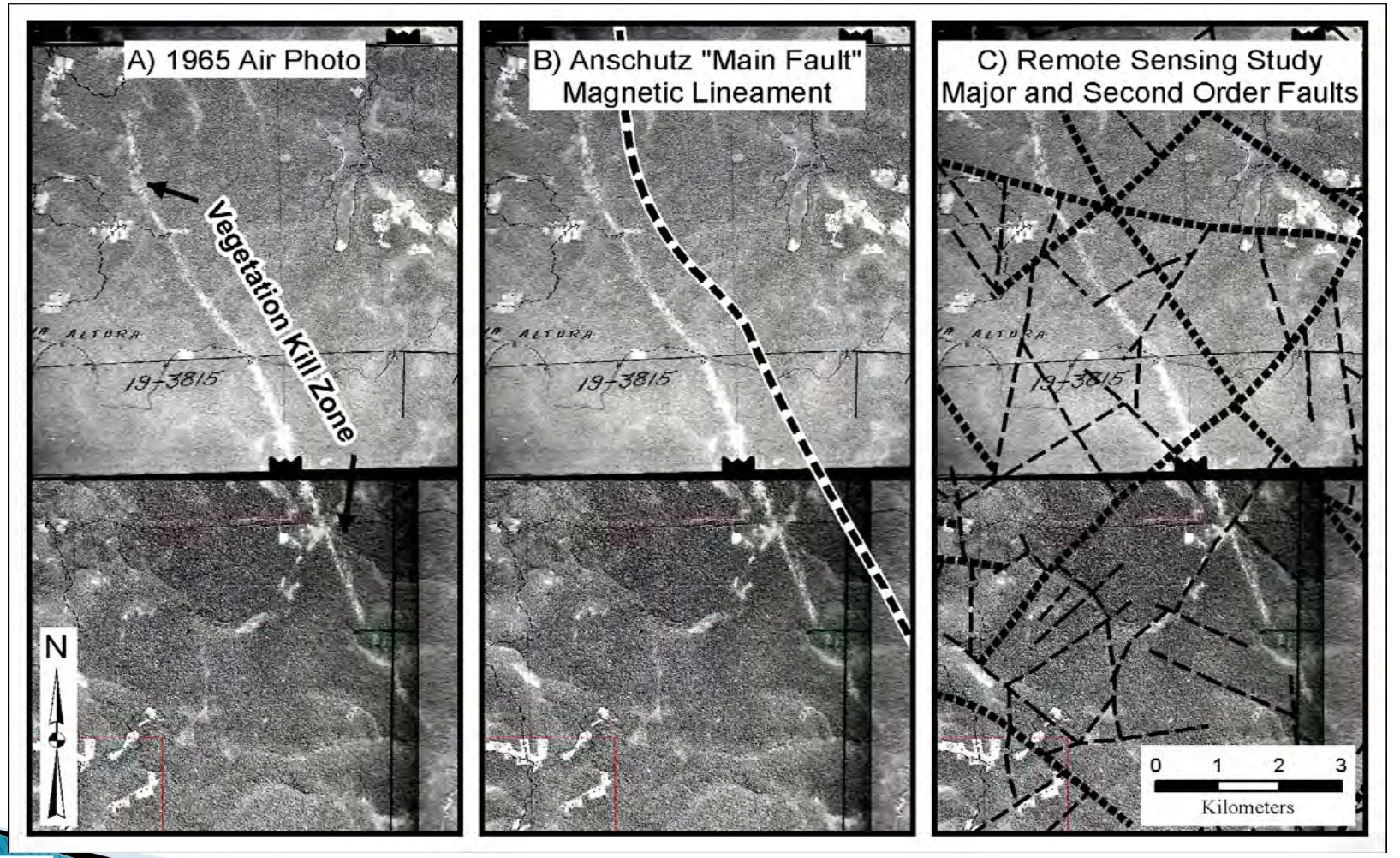
Faulting and H_2S Gas Migration?



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Uranium Exploration – Parana Basin

- Brazil
  - Uranium Occurrences Known Since 1950's
  - Exploration by USGS and Brazil
- Paraguay
  - Historic Uranium Exploration
    - Anschutz 1976 – 1983
    - JV with KEPCO and TPC
  - Mineral Concession 182,000 km^2
  - Radiometric and Magnetic Surveys
  - Follow-up Drilling
  - Discovered Uranium Mineralization
    - Yuty and Coronel Oviedo

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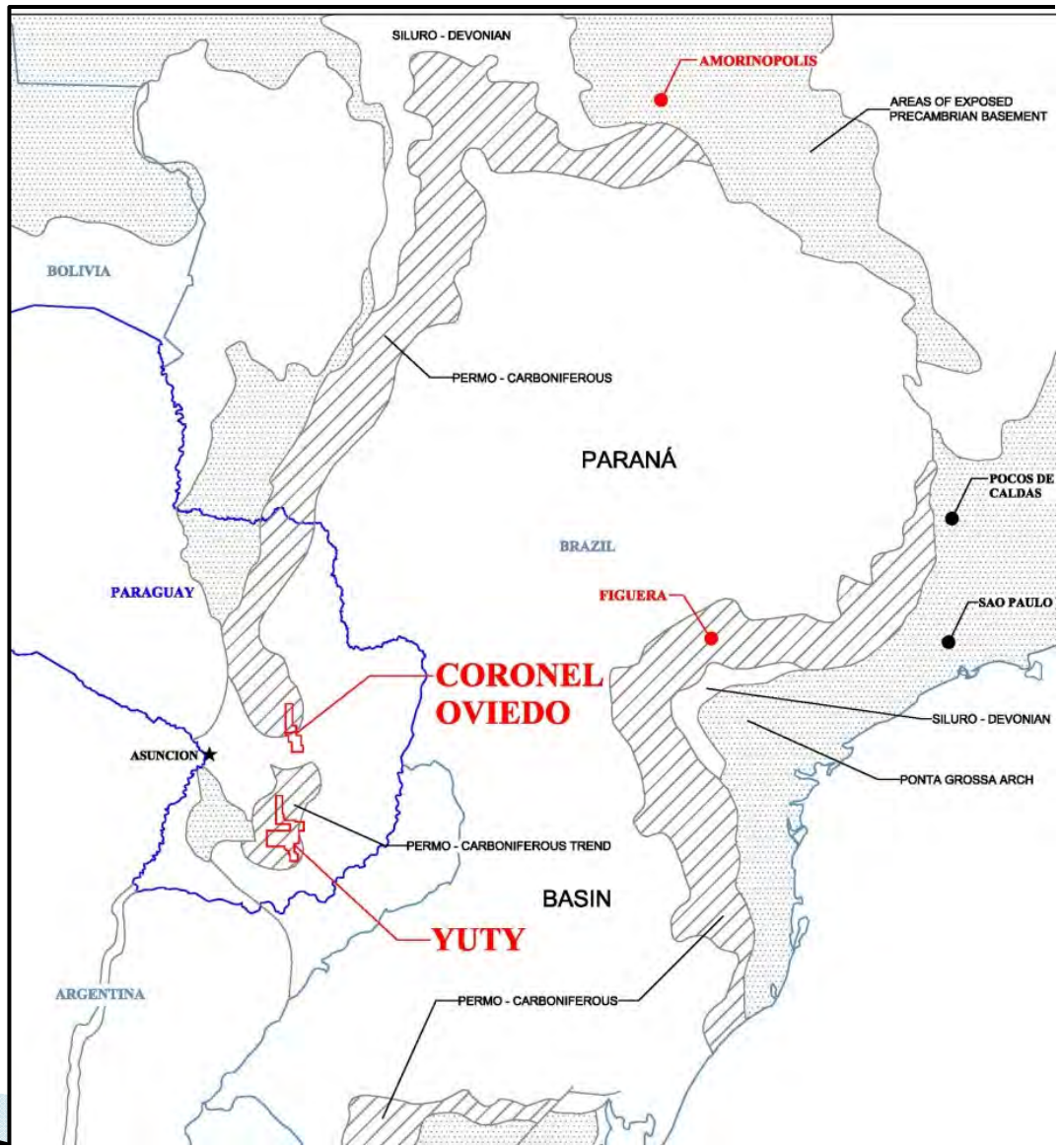
Uranium Occurrences, Parana Basin

UEC (BRS 2011,2012):

- Coronel Oviedo Project
  - Exploration Potential
  - 23 to 56 million lbs
- Yuty Project
  - 8.9 million lbs Measured and Indicated Resource
  - 2.2 million lbs Inferred

Past Producers (IAEA, 2009):

- Figueira Mine, Brazil
  - 10 to 20 million lbs
- Amorinopolis Mine, Brazil
  - 5 to 10 million lbs



Yuty and Coronel Oviedo Projects

Yuty Project

- Depth 100-150 m
- Width 125 m
- Thickness 4.8 m
- Grade 0.052 %eU_3O_8

Coronel Oveido Project

- Depth 70-200 m
- Width 80 – 125 m
- Thickness 4.0 – 5 m
- Grade 0.04 – .052 %

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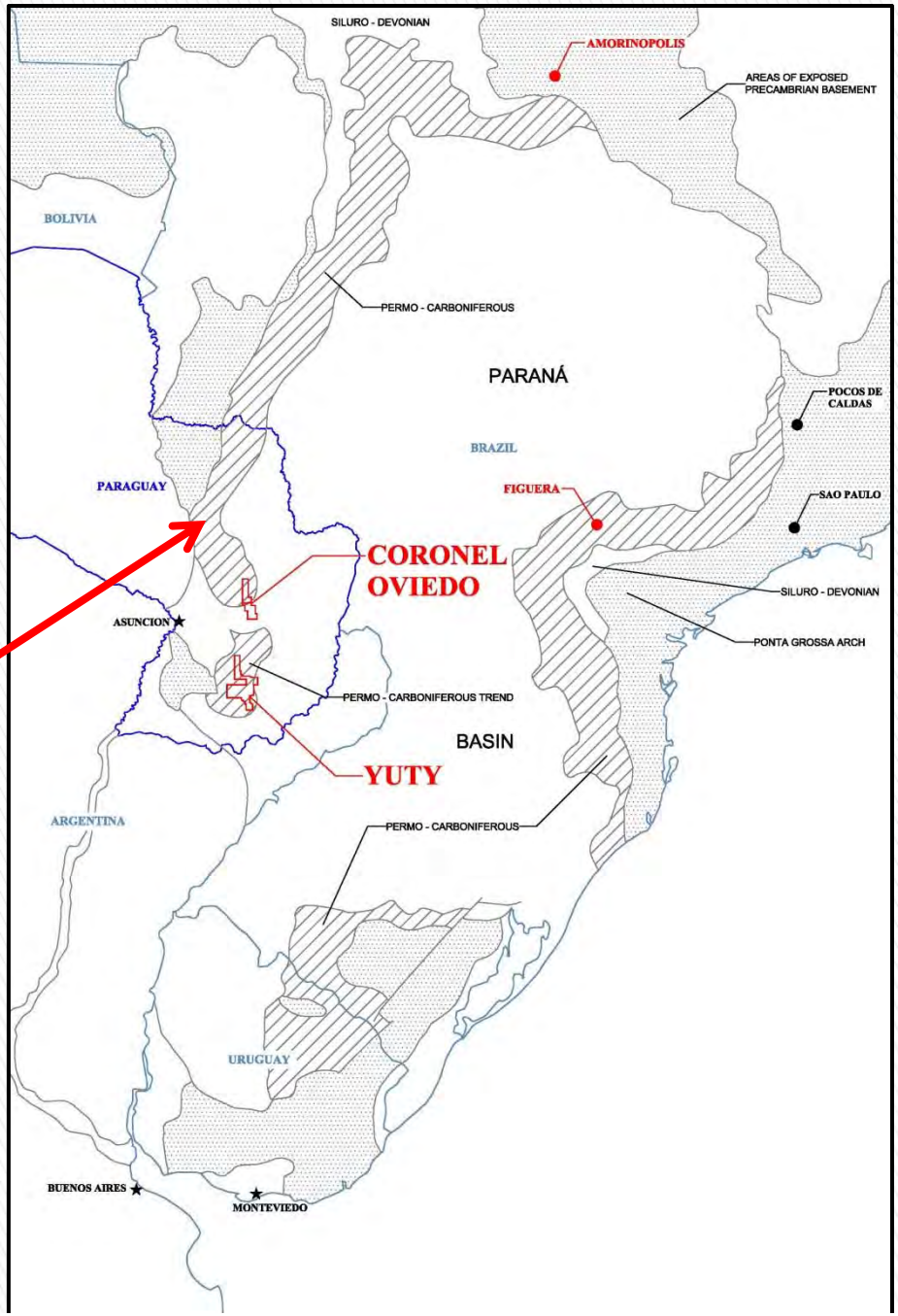
Geologic Setting

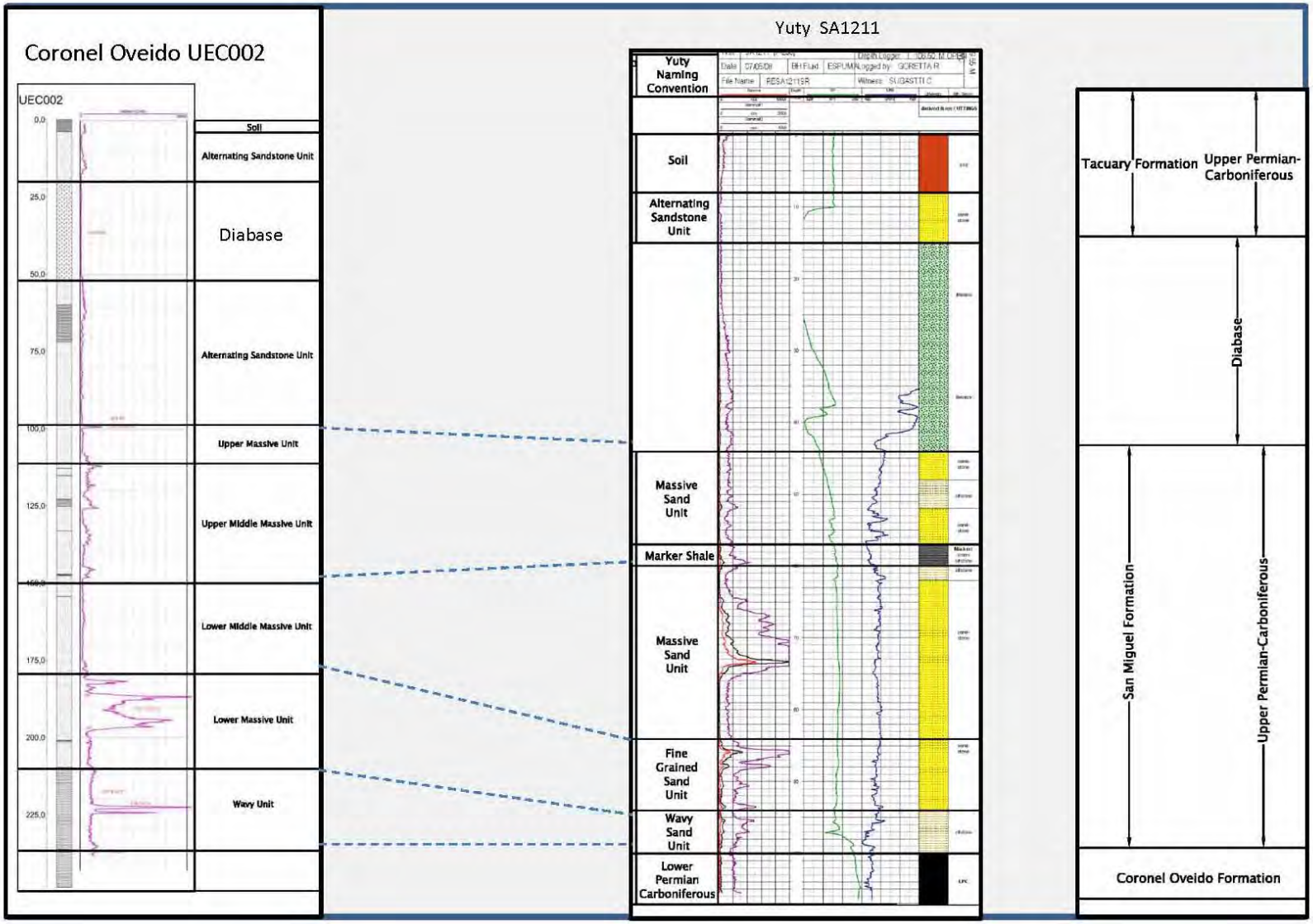
Parana Basin

PERIOD	SYSTEM	GEOLOGICAL UNIT			TARGET FORMATION
CENOZOIC	QUATERNARY	Quaternary			
	TERTIARY	Tert. / Quat. undiff.			
MESOZOIC	CRETACEOUS	Alto Paraná Gr.	Acaray Fm.	Asunción Gr. Magm.	
			Mahm.	Palacios Fm.	
	JURASSIC		Misiones Fm.		
	TRIASSIC	Cabacúa Fm.			
PALEOZOIC	PERMIAN	Independencia Gr.	Tacuary Fm.		
			San Miguel Fm.		
		Cnel. Oviedo Gr.	Cnel. Oviedo diamict.		
	CARBONIFEROUS		Aquidaban Fm.		

Upper Permian Carboniferous (UPC)



Type Log Correlation



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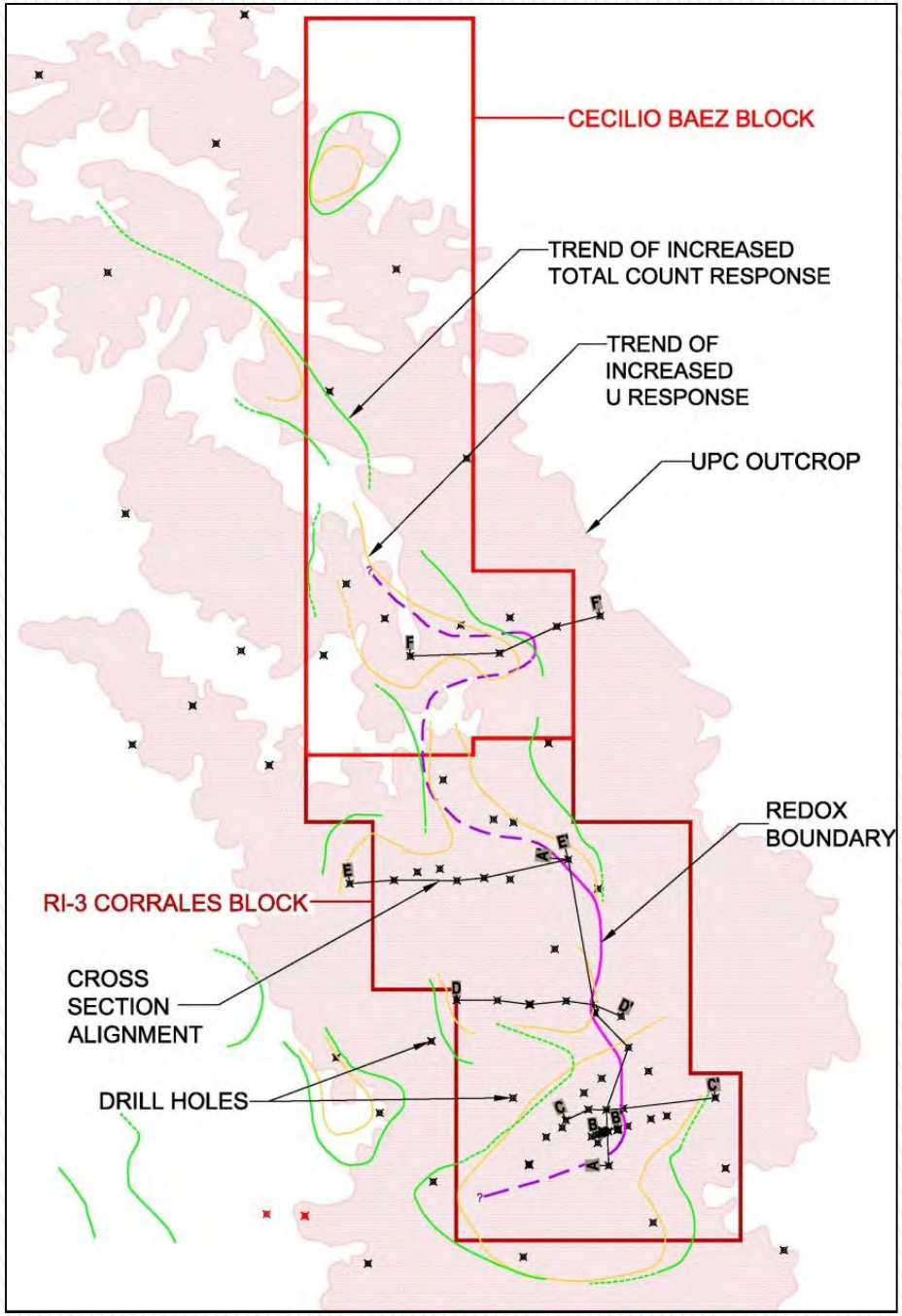
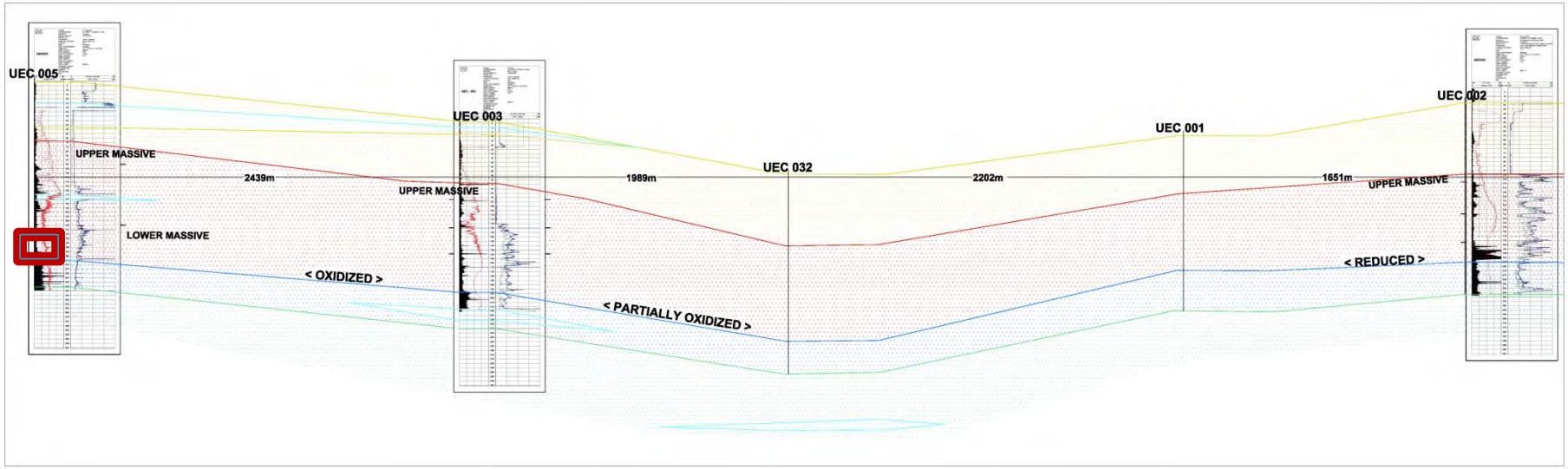
Coronel Oveido Trend Map

- Redox Boundary
- Defined by Drilling: 21 km
- Redox Trend Projected from
- Radiometric Anomalies: 40 km

Sample location for .064% U assay in intensely oxidized sands of the Lower Massive unit



CROSS SECTION D-D’



LEGEND

- ALTERNATING SS
- MASSIVE SS
- DIABASE
- WAVY SS
- LPC

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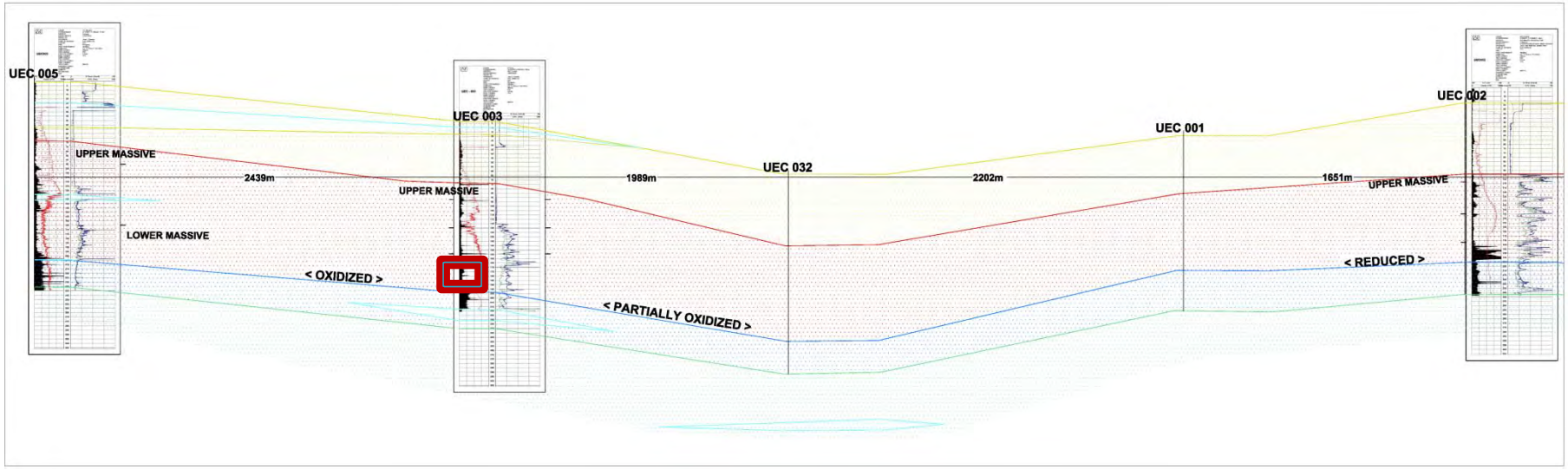
Photo of Core from Section D, UEC005

Oxidized

CROSS SECTION D-D’



LEGEND

- ALTERNATING SS
- MASSIVE SS
- DIABASE
- WAVY SS
- LPC

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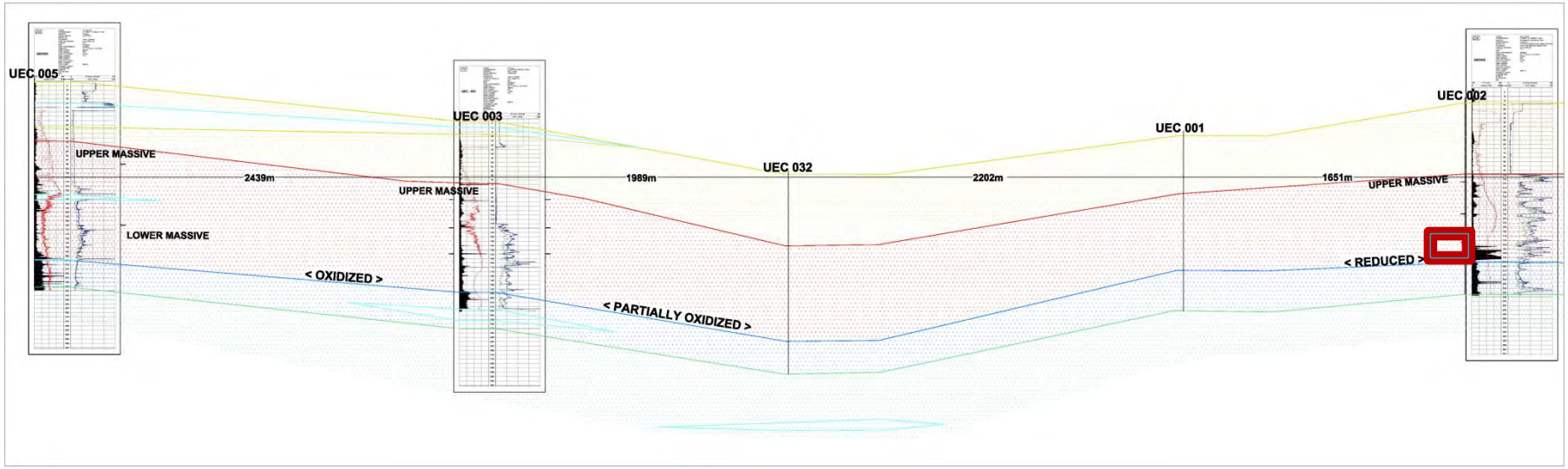
Photo of Core from Section D, UEC003

Partially Oxidized

CROSS SECTION D-D’



LEGEND

- ALTERNATING SS
- MASSIVE SS
- DIABASE
- WAVY SS
- LPC

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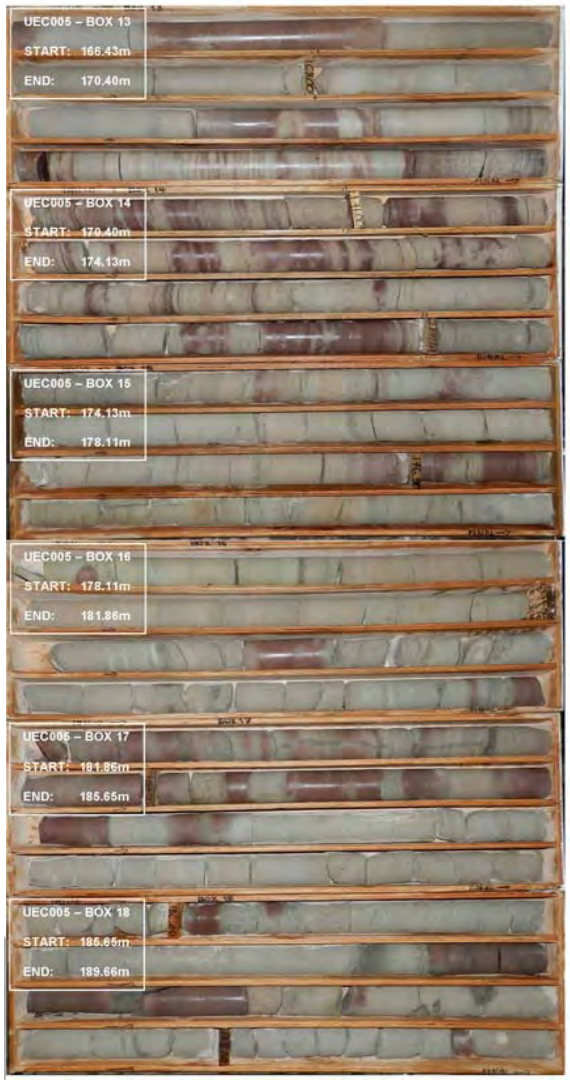
Photo of Core from Section D, UEC002

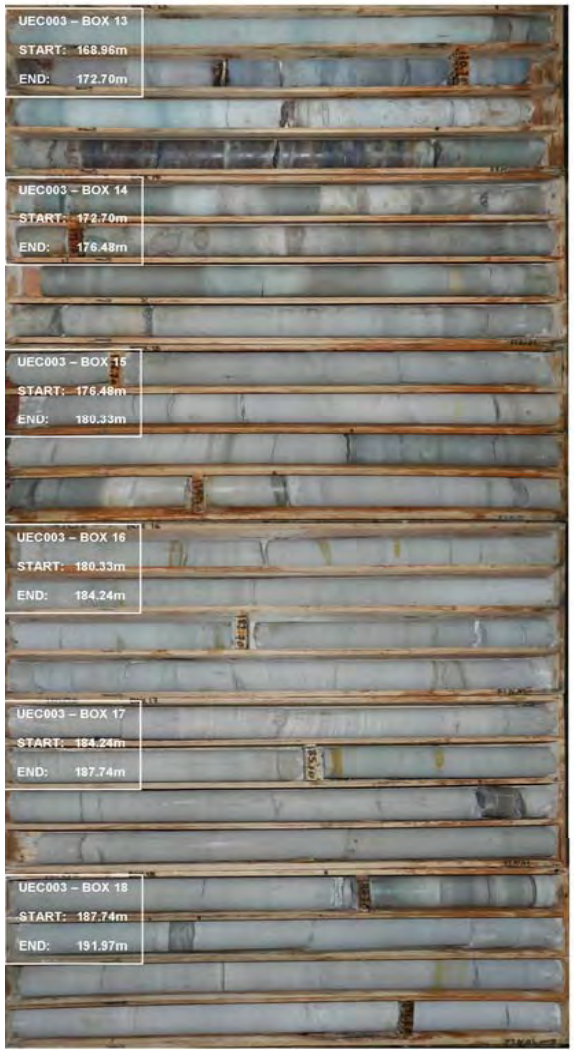
Reduced

Mineralized

Redox at Coronel Oveido

Oxidation

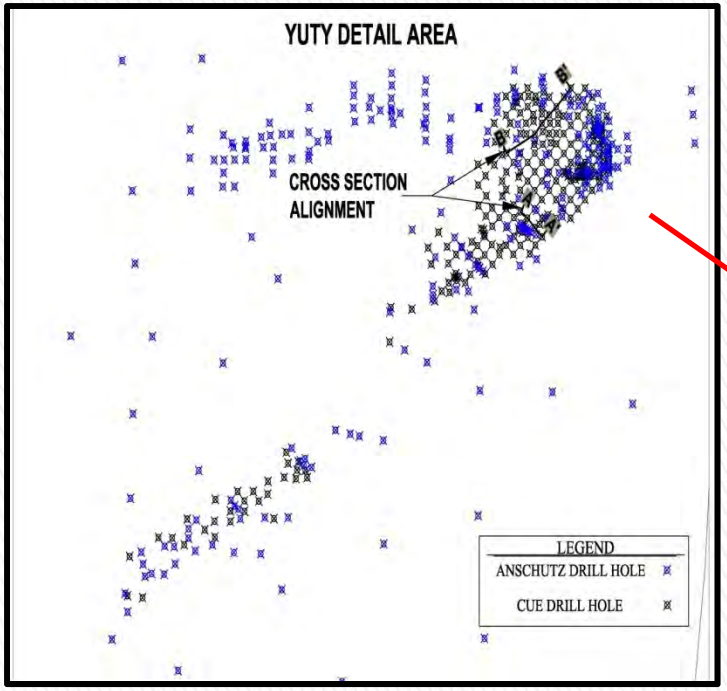


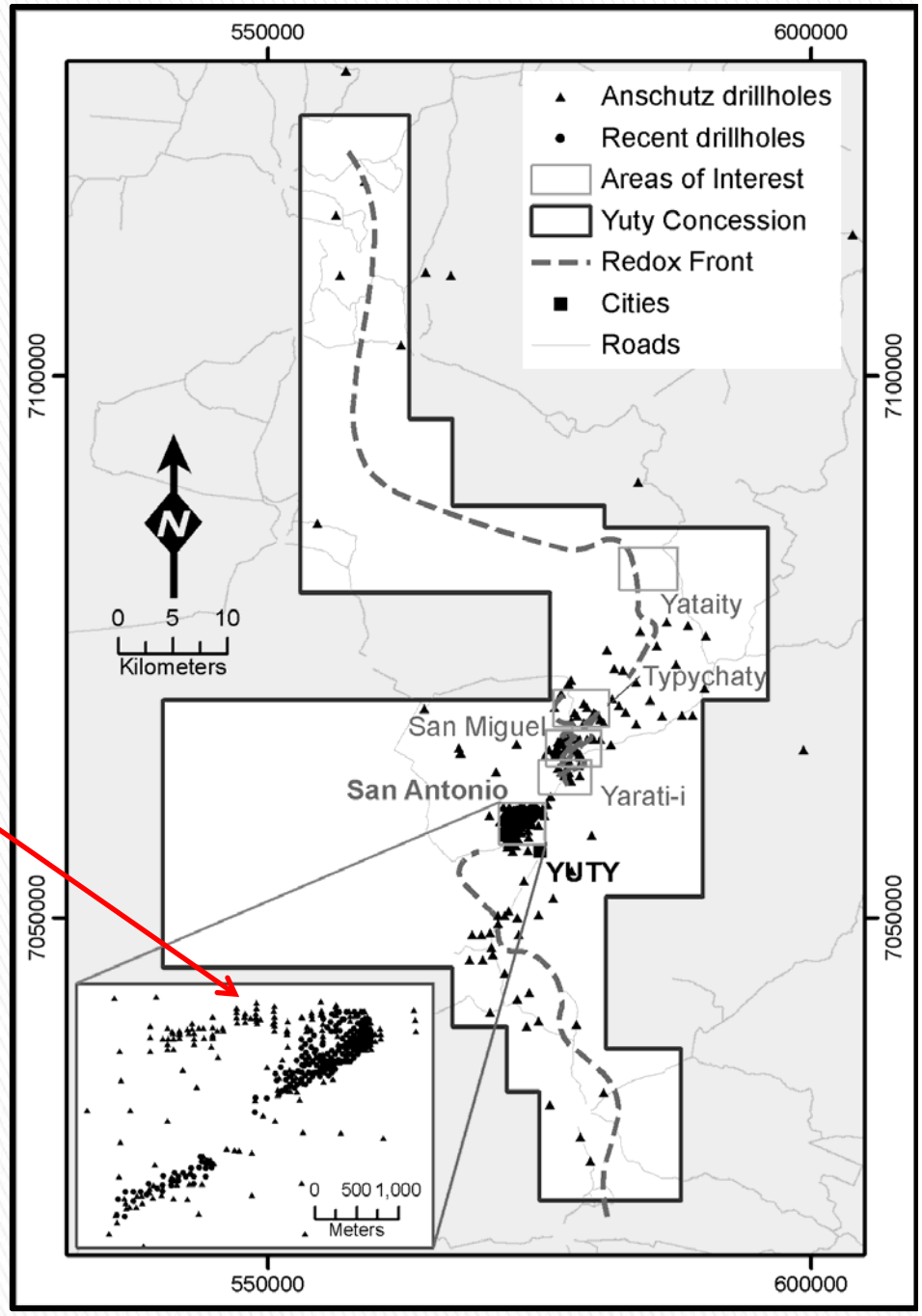


Reduction

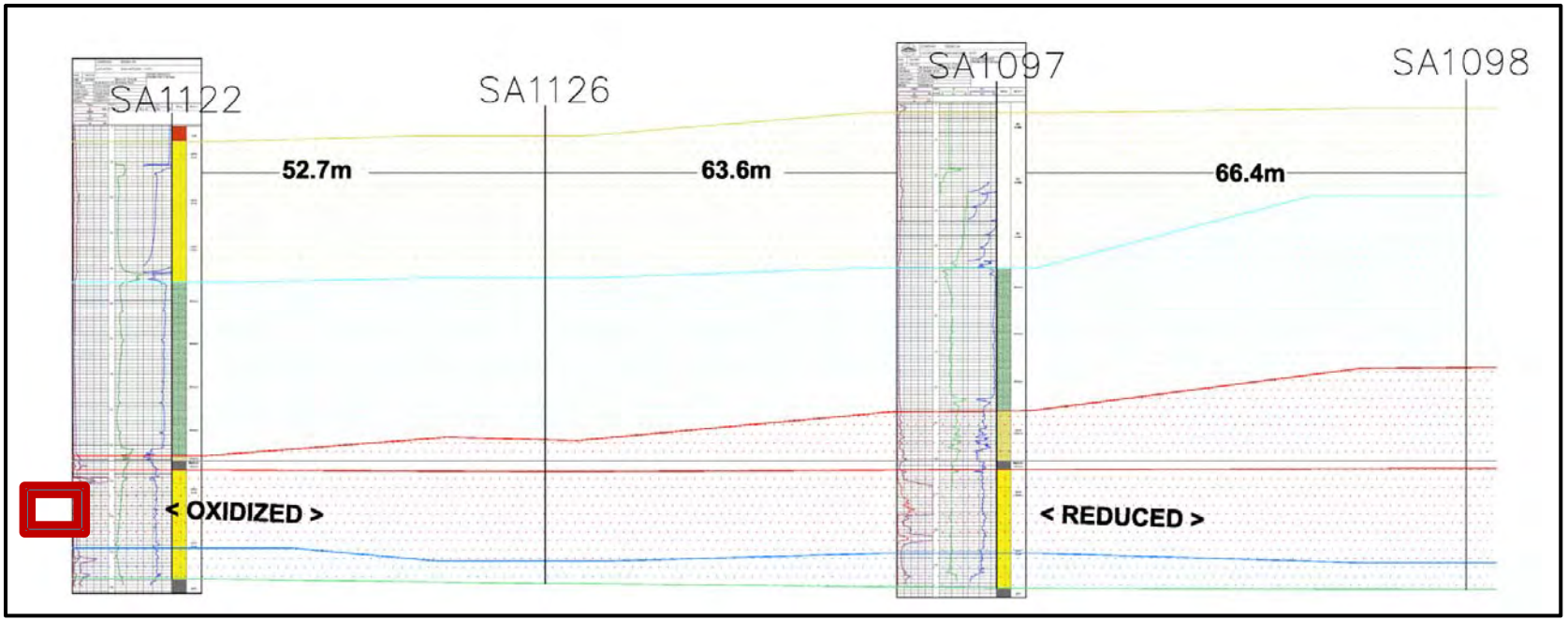
Yuty Trend Map

- 43-101 Compliant Mineral Resource





Yuty Section A-A’



LEGEND

- ALTERNATING SS
- MASSIVE SS
- DIABASE
- WAVY SS
- LPC

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YUTY Hole SA 1122

Oxidized

Lower Massive

LPC contact

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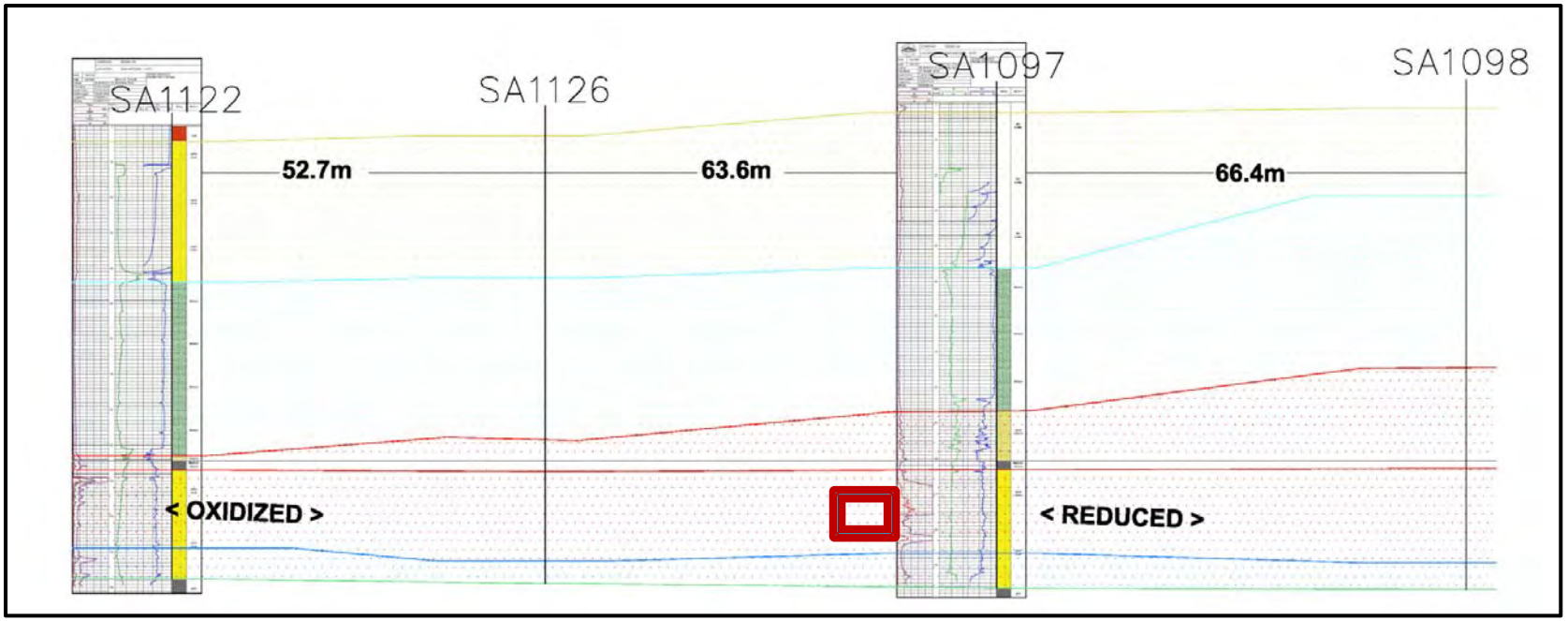
Yuty Section A-A’



LEGEND

- ALTERNATING SS
- MASSIVE SS
- DIABASE
- WAVY SS
- LPC

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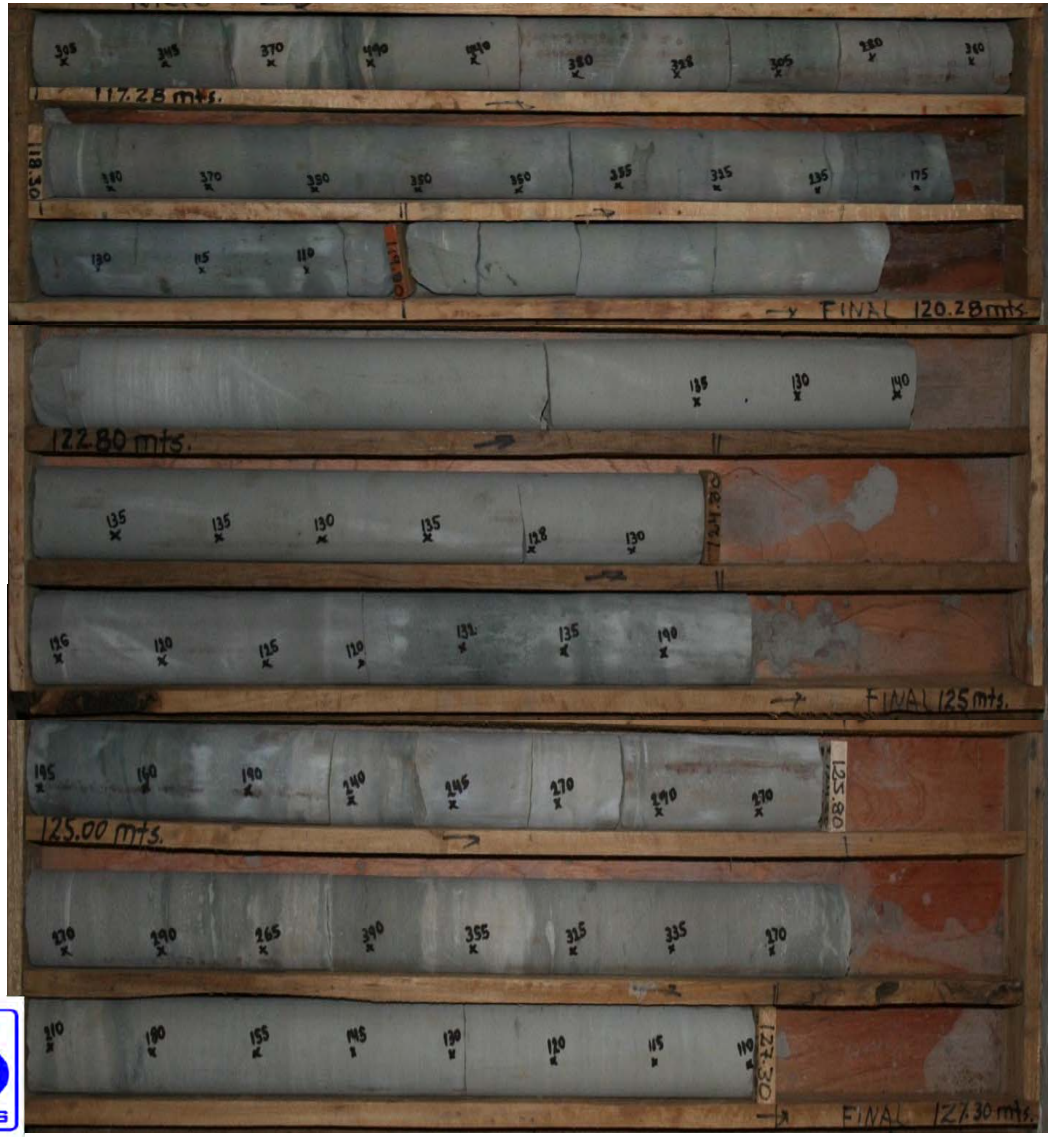

YUTY Hole SA 1097

Reduced and Mineralized

Lower Massive

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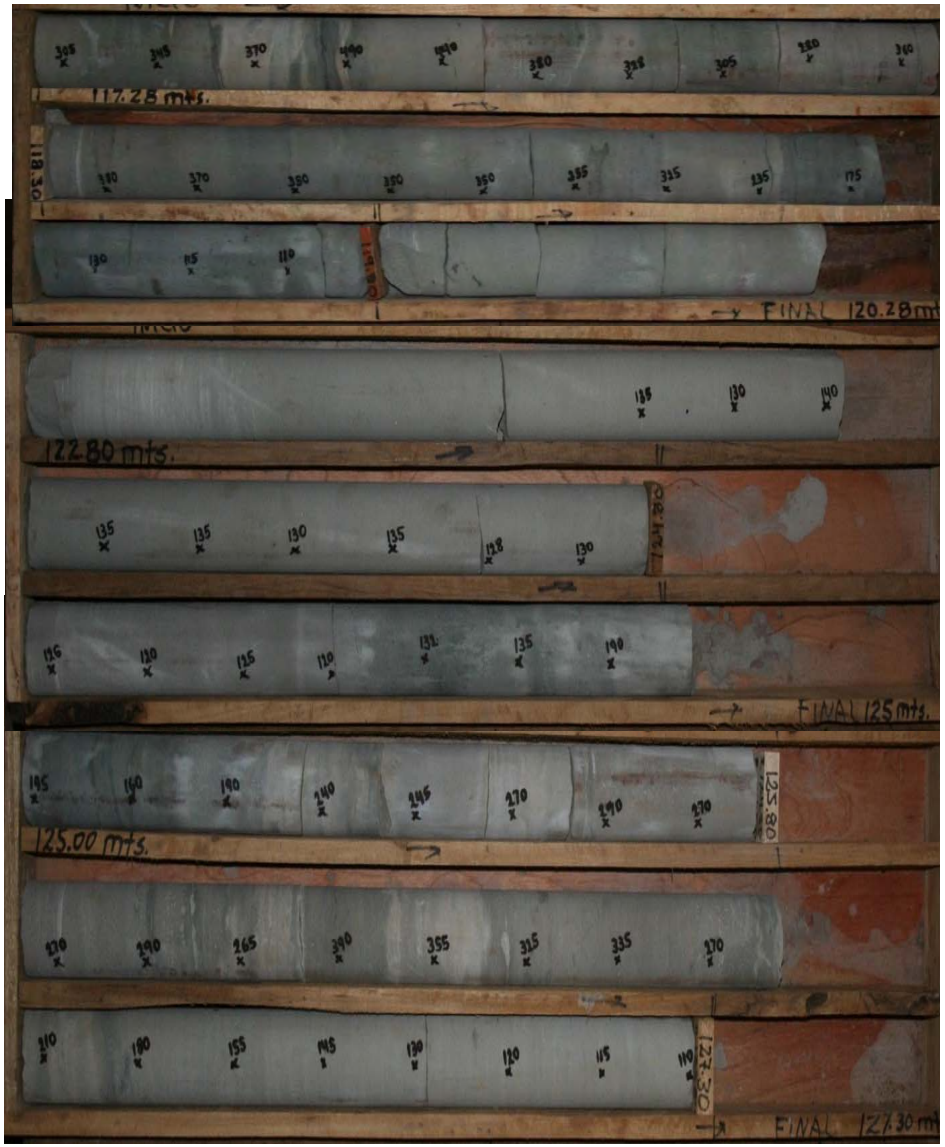
Redox at Yuty

Oxidation

Reduction



Conclusions

- Significant Uranium Mineralization Occurs in the Parana Basin in the UPC and Devonian.
- Uranium Mineralization is Sandstone-Type (IEA) both Roll Front and Tabular Deposits.
- Mineral Concessions held by UEC in Paraguay, Yuty and Coronel Oveido, have Demonstrated Uranium Mineral Resources and Exploration Potential.
- Metallurgical and Aquifer Testing Indicates Favorability for ISR Extraction or Conventional Mining

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Yuty Project – UEC Summary

- **11.1M lbs. NI 43-101*** compliant resource established after exploration on 5% of 500,000 acre concession
- Subject to **uranium exploration** by The Anschutz Corporation (1976-1983) and Cue / Cameco (2007-2010)
- Determined to be **ISR-amenable** indicated by initial aquifer test

Measured Resource *2.054M tonnes @ 0.062 % U3O8 containing* ***2.801M lbs. U3O8***
Indicated Resource *5.783M tonnes @ 0.048 % U3O8 containing* ***6.113M lbs. U3O8***
Inferred Resource *2.139M tonnes @ 0.047 % U3O8 containing* ***2.226M lbs. U3O8***

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Coronel Oviedo Project – UEC Summary

- NI 43-101 Exploration Target of **23 to 56 Million Pounds** U3O8
- Prospecting permits for **500,000 acres** located in the area of Coronel Oviedo, Paraguay
- Subject to limited **uranium exploration** by The Anschutz Corporation (1976-1983) and Crescent Resources (2006-2008)
- Property characterized by **mineralization very similar to the South Texas** uranium trend, holds large-scale potential
- Determined to be **ISR-amenable** indicated by initial aquifer test

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IN CLOSING

- Complementary flash drives are available from BRS containing a copy of this presentation.
- The flash drive also contains information about BRS and some of our recent and/or current projects including;
  - UEC, Coronel Oviedo and Yuty Uranium Projects, Paraguay, SA.
  - EFR, Sheep Mountain Uranium Project, Wyoming, US.
  - Juniper Ridge Uranium Project, Wyoming, US.
  - Cyclone Energy, West Divide and New Fork Uranium Projects, Wyoming, US.
  - Arcadia Minerals, Zircon, Titanium, and Light RE Project, Wyoming, US.
- Thank You for your time and consideration.

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