

# Raven Project

Classical Carlin Target on Rabbit Trend

TECHNICAL PRESENTATION
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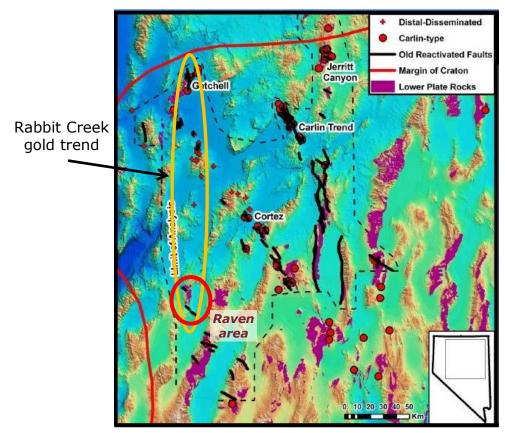
## Introduction

# A classical Carlin target with the characteristics necessary to host a multi-million ounce gold deposit

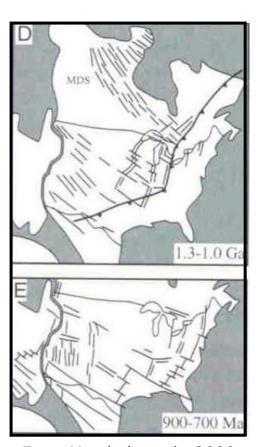
- Presence of a Carlin-type gold system on southern Rabbit Creek Gold Trend
- Altered lower plate carbonate host rock Roberts Mountains. Formation exposed in window through Roberts Mountains Thrust
- Large regional As anomaly, similar to main trends
- Skarn, hornfels, altered dikes near center of district
- Potential feeder structures old reactivated high angle faults consistent with Proterozoic rift structures
- Widespread Au anomalies in upper plate rocks overlying concealed Roberts Mountains Formation: incompletely drilled
- Has never had a comprehensive district-scale exploration approach

# Deep-Seated Proterozoic Rift-Related Structures

NNW and WNW Old Reactivated High-Angie Faults: Consistent with orientation of Proterozoic Rift Faults throughout the United States



Modified from Muntean et al., 2007

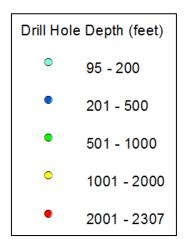


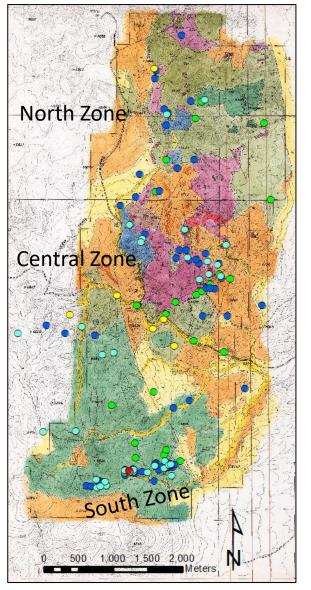
From Marshak et al., 2000



# **Historical Drilling (165 holes)**

- Exploration began in 1968, 9 companies
- Small mineralized body in South Zone hosted by Ov calcareous siltstone (~50,000 oz @ 0.011 oz/t)
- 36 Holes in South Zone (4100 ft strike length) with intercepts up to 9.977 g/t Au
- TM98-2, deepest DH in district (Digger Resources) TD NX CORE 2307 ft in Ov? with thin porphyry dikes and intense silicification + pyrite at bottom
- Central Intrusion
- Deep Srm on south end
- Shallow Srm on north end







# **Work Completed By Orogen**

- Extended soil survey, 162 samples (2017)
- Added 36 additional claims
- 3D Modeling (2017)
  - Georeka software
  - Compilation of historical data
  - Defined deep target in South block
  - Identified need for additional mapping, especially in North block
- Mapping (2018)
  - Geologic map of North block
  - Reconnaissance map of decalcification
  - Recognition of multiple silty/sandy carbonate horizons
  - Biostratigraphic dating: Improved knowledge of structural and stratigraphic relationships

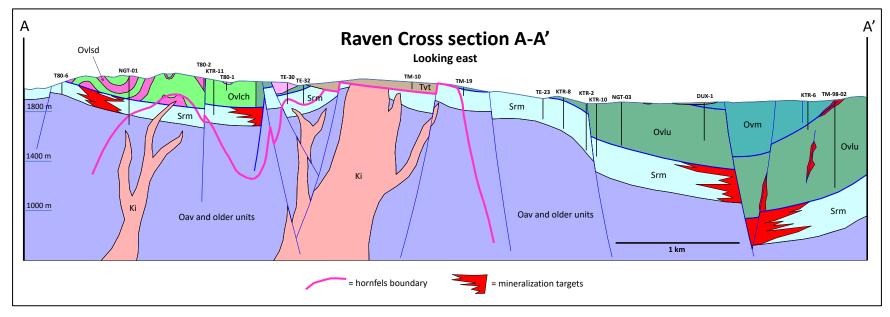


# **Soil Geochemistry**

Au in soils compilation (3582 historical samples) 162 additional soils (REN) Widespread gold anomalies identified on north end with overall northwest trend Most anomalies in upper plate overlying concealed Srm Soil anomalies of As, Sb, Hg, Cu, Mo also present **Expanded** Soils 162 soils 400 ft. grid June 2017 **Historical** Soils



# **Two Target Domains**

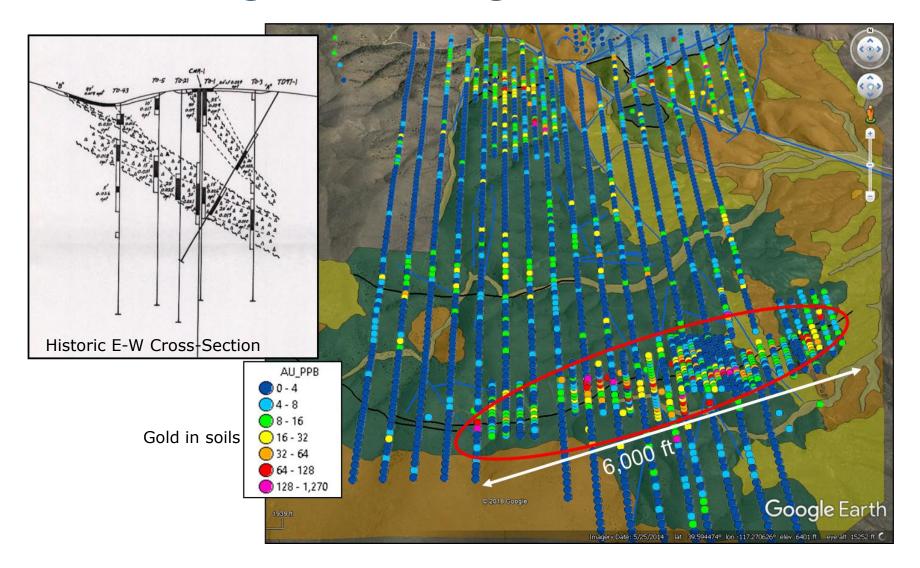


North Target – Roberts Mountains formation at 100-600' deep targeting below gold-in-soil anomalies in upper plate siliciclastic rocks. Open Pit Potential

South Target – Roberts Mountains formation at ~2000' deep below high grade gold cell drilled out in the upper plate. Underground Potential



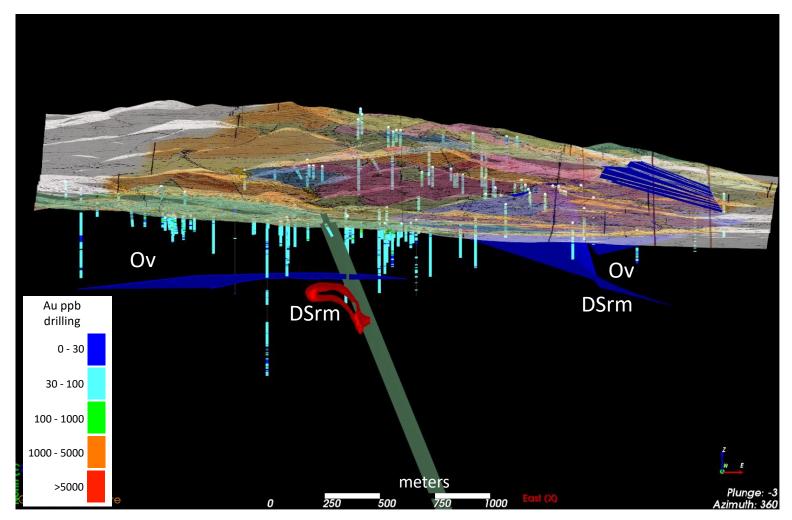
# **3D Modeling – South Target**





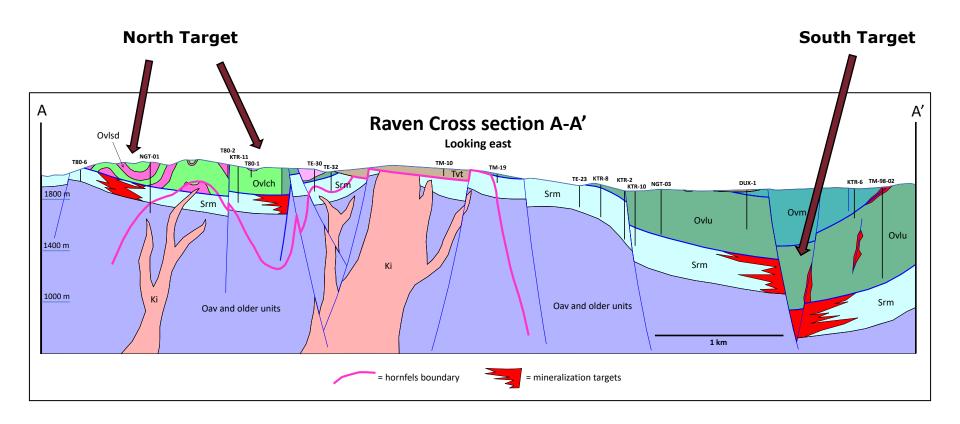
# **3D Modeling**

### **South Target**





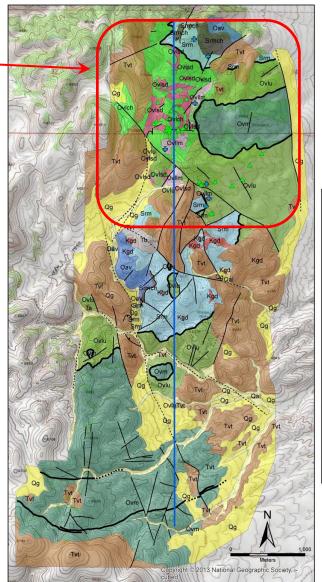
# **North-south Cross Section**





### Focused on northern area

- Srm occurs at 100-600 ft. depths
- Widespread soil Au anomalies
- Widespread Au in drill intercepts



### Raven Property Geologic Map

### Ravenswood District Lander County, NV

Mapping by Kennecott, 2000, augmented by Renaissance Gold, 2018, in northern third of map area.

November 9th, 2018



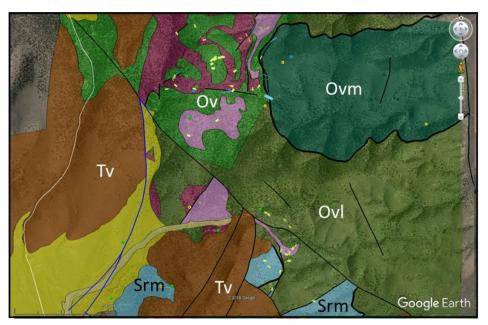


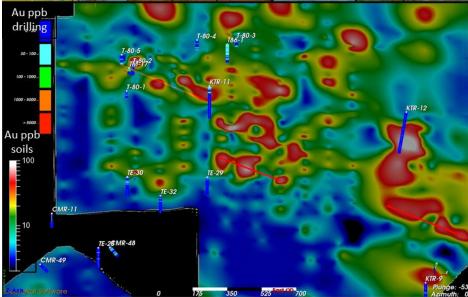
### Geology

- Major NW structure projects to barite mine
- Upper plate stratigraphy anomalous in many metals
- Possible leakage anomalies from underlying favorable lower plate carbonates

### Gold in soils

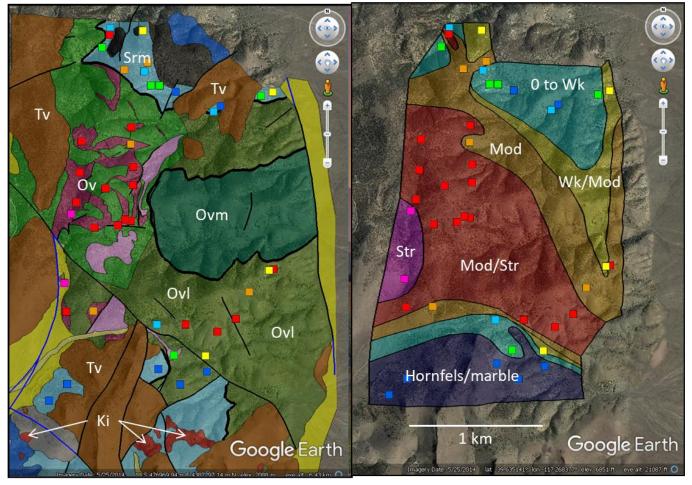
- 162 additional soils (OGN)
- Widespread gold anomalies identified on north end with overall northwest trend
- Most anomalies in upper plate overlying concealed Srm
- Soil anomalies of As, Sb, Hg, Cu, Mo also present







### RECONNAISSANCE DECALCIFICATION MAP

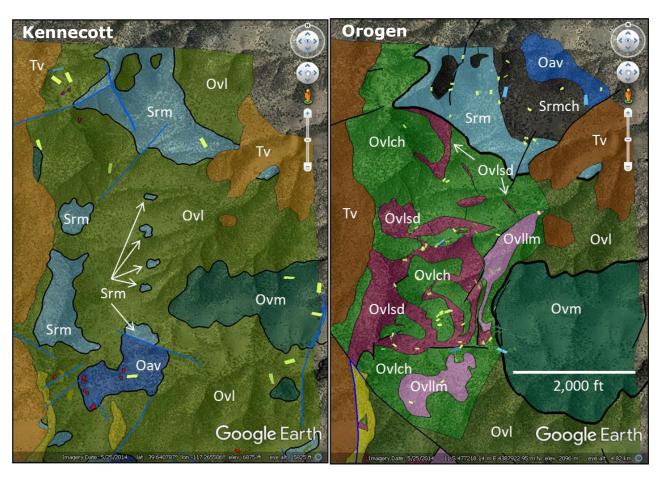


**North Target** 



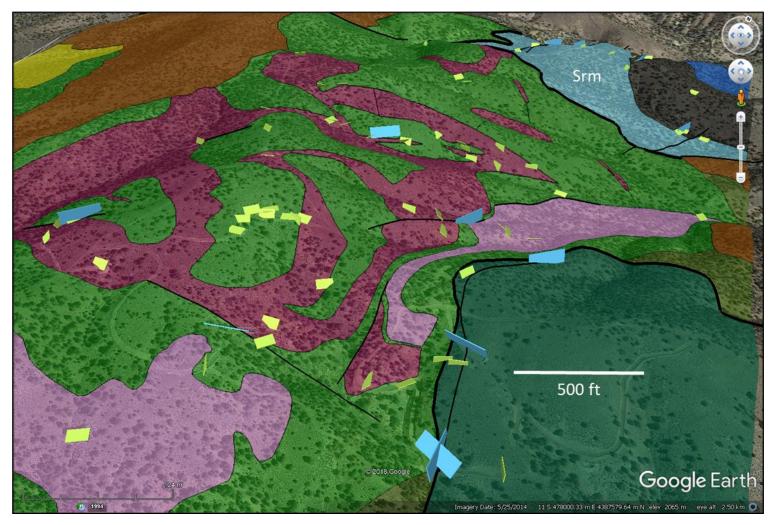
- Multiple silty carbonate horizons in upper plate (Ov)
- Upper carbonates
  - Allochthonous
  - Decalcified
  - Sulfidized
  - Ba-rich
  - Barite pseudos
  - P nodules
- Lower carbonates (Roberts Mtns Fm.) are poorly tested

### **North Target**



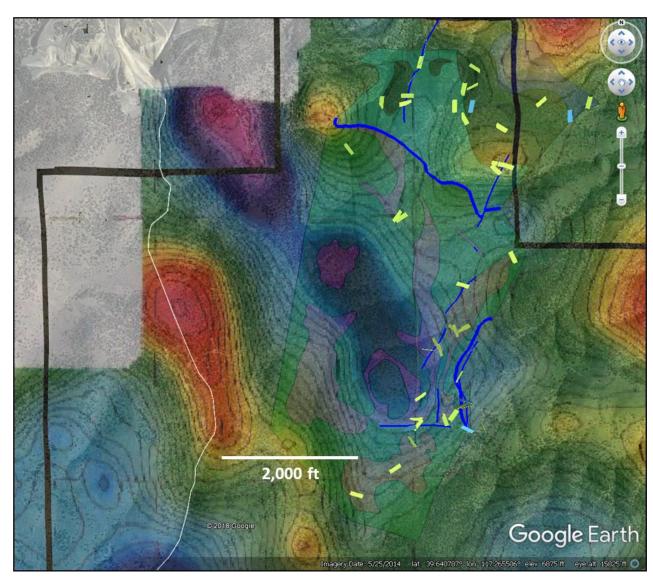


Bedding attitudes indicate presence of NW-trending antiformal/domal structure





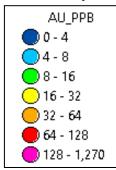
Residual gravity low coincides with antiform and barite mine structure





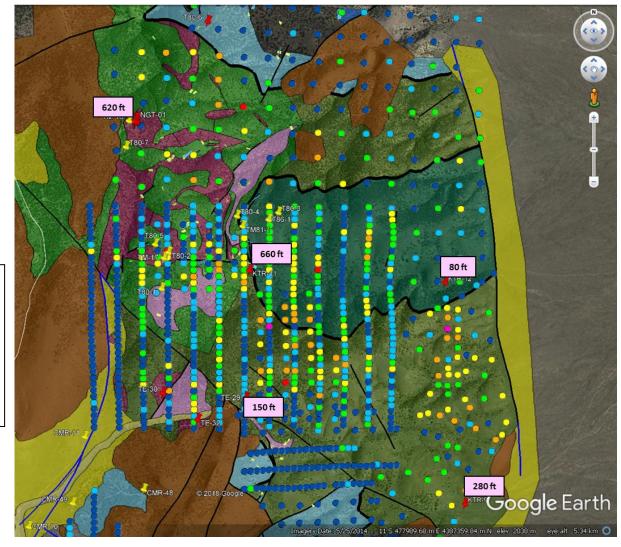
In the North Block, Roberts Mountain Formation is concealed at relatively shallow depths over a large area, overlain by Vinini Formation with widespread soil gold anomalies

### Soil samples



280 ft

= drill intercept of lower plate with depth

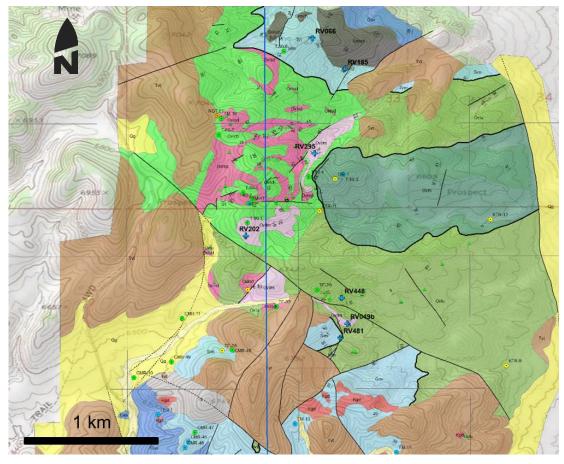




# **Biostratigraphic Dating**

### **North Target**

- Recent conodont ages refine stratigraphy
- Multiple favorable lower plate horizons identified



Label	Fossil Type	System	Series	Absolute Age
RV049b	conodonts	Devonian	Late	382.7 to 372.2 million years
RV185	conodonts	Silurian	Wenlock	433.4 to 430.5 million years
RV202	conodonts	Ordovician	Middle	467.3 to 458.4 million years
RV295	conodonts	Ordovician	Middle	467.3 to 458.4 million years
RV448	conodonts	Devonian	upper Middle	387.7 to 382.7 million years



# **Summary**

# A classical Carlin target with the characteristics necessary to host a multi-million ounce gold deposit

- Multiple silty carbonate horizons in upper plate (Ov)
- Untested lower plate targets in North and South blocks, distal to intrusive at center of district
- South Zone mineralization comprises large, "High Grade" gold anomaly that should be tested at depth in lower plate rocks
- North targets have widespread gold anomalies above largely untested Roberts Mountains Formation along a northwest corridor
- Large scale folds and deep crustal-scale faults may provide loci for mineralization
- One of few opportunities to explore a classical Carlin-type setting



# O R O G E N

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