December, 2016

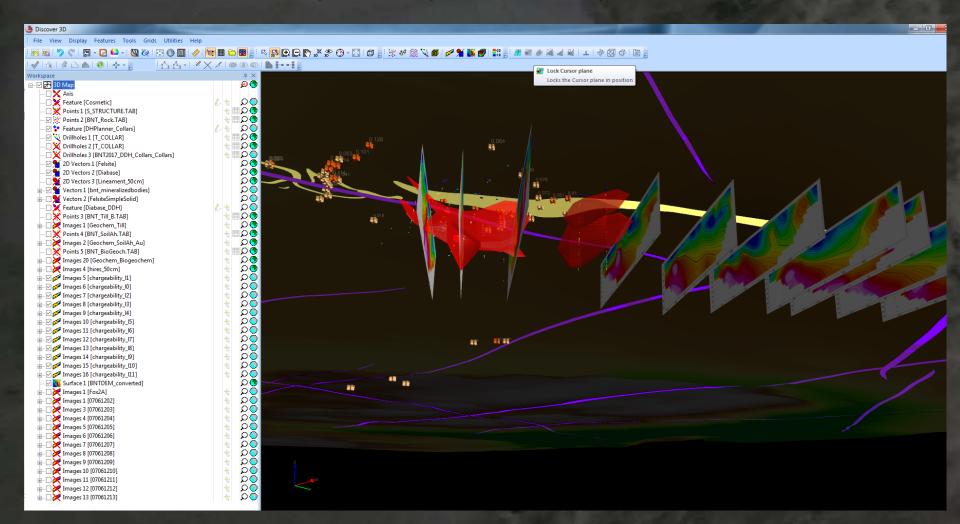
# BNT – Fox Lake Project 3D Layer Summary

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### **BNT – 3D Project**

Relevant Fox Lake geology, geochemistry, geophysics and drilling datasets have been compiled into a 3D workspace over the historic Au showing (Fox Lake and Zena)

Each layer is briefly outlined in this presentation



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### **BNT – LAYERS**

Field Structural Measurements

→ 2016 Rock Data

→ 1958 and Planned 2017 Drill Data
 → 2D and 3D Modeled Geology

2016 Surface Geochemistry
 50cm Panchromatic Imagery

**Chargeability Cross Sections** 

**DEM** 

1959 Drill Cross Sections

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### **SURFACE POINT DATA**

#### **Field Structural Measurements**

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#### **Bedding Measurements**

**Rock Samples** 

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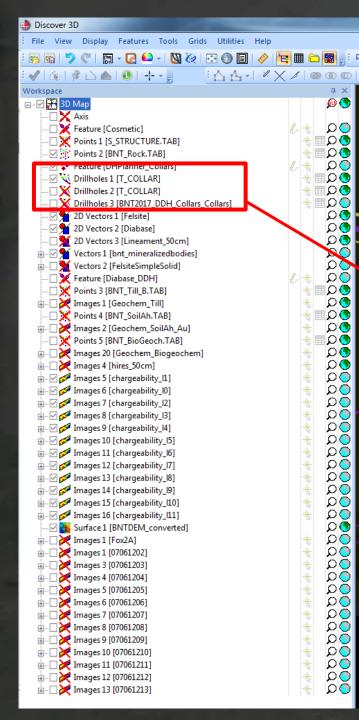
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### <u>BNT – LAYERS</u>

### Drillhole Data – Historical 1958 and Proposed 2017 Holes

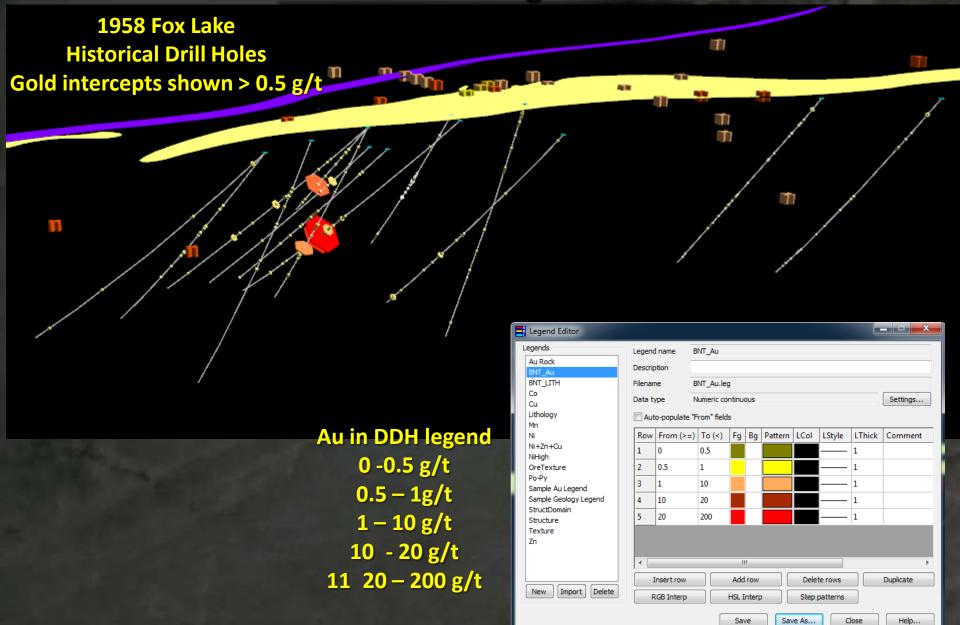
1958 and Planned 2017 Drill Data

### **BNT – Historical Drilling**

1958 Zena Drill Holes

1958 Fox Lake Drill Holes

### **Historical Drilling: Fox Lake**



### **Historical Drilling - Zena**

Surface Rock samples

1958 Zena

**Drill Holes** 

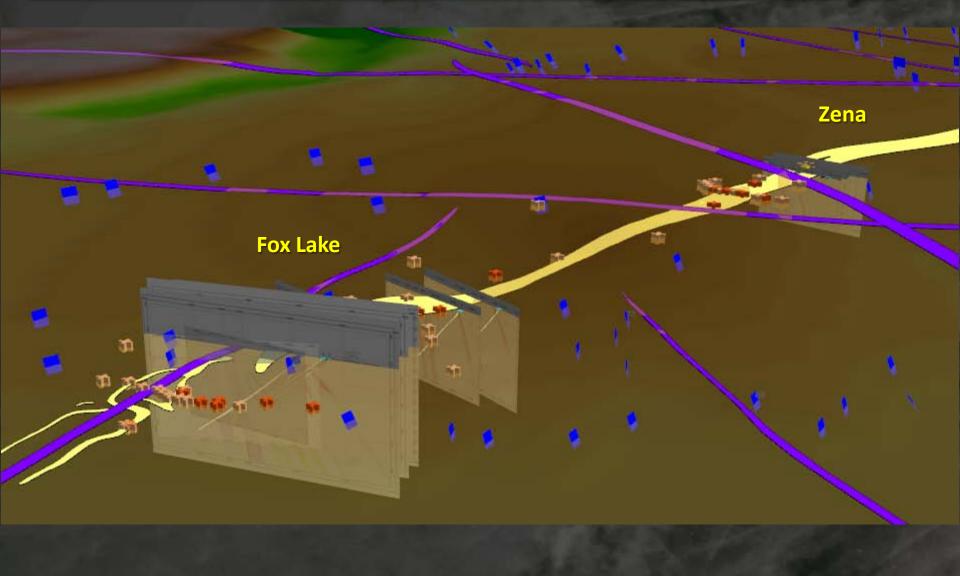
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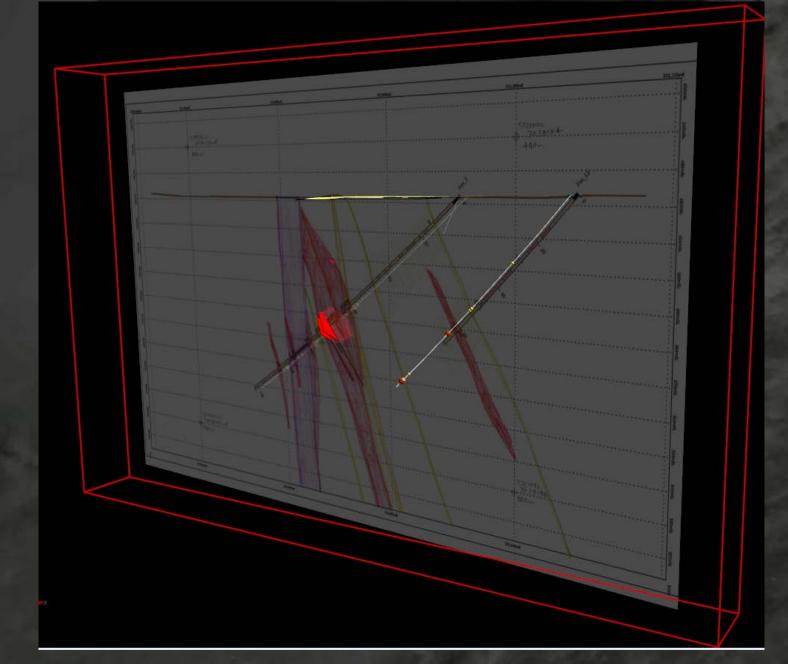
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#### **New Cross Sectional Interpretations** of historical drilling

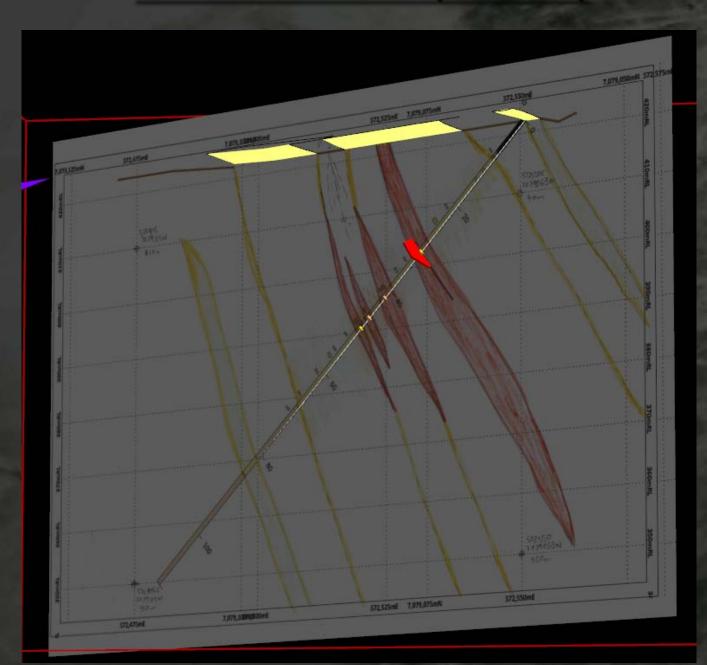
### **New Cross Sectional Interpretations of Historical Drilling**



### Fox Lake Cross Section (DDH Fox7 & 13)



# Zena Cross Section (DDH G-1)



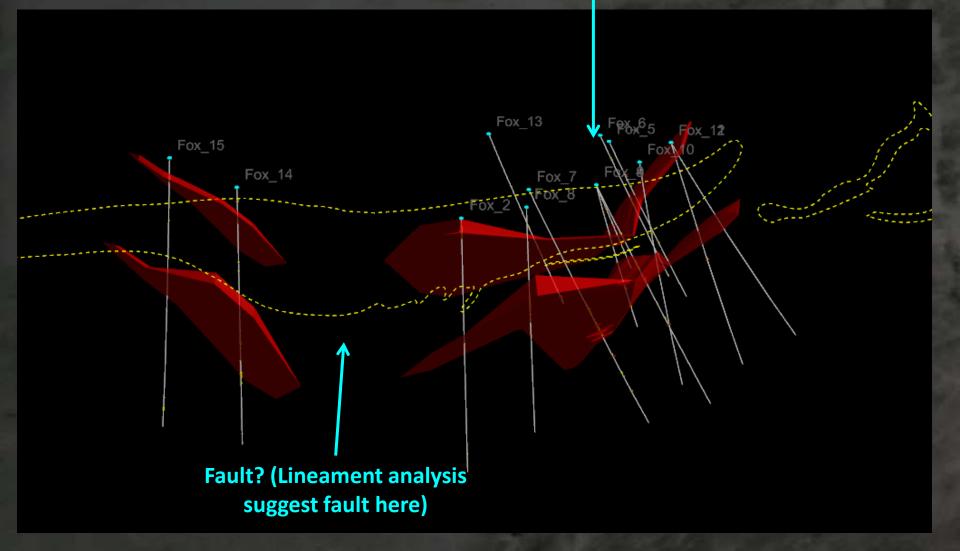
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### Modeled Geology and Gold Mineralization Zones

2D and 3D Modeled Geology

### Fox Lake – Modelled Gold Bodies (Preliminary)

E-Plunging Gold Bodies (associated with F2 folding??)

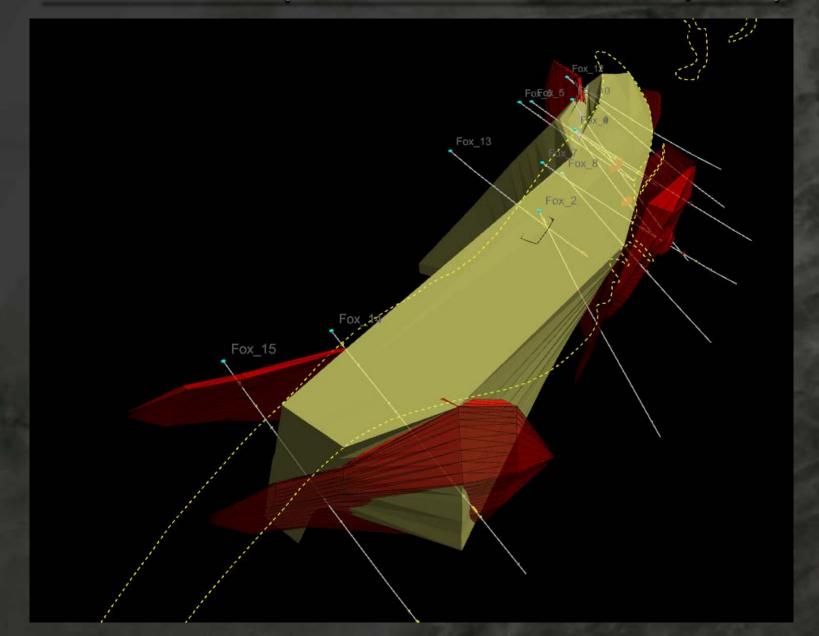


### **2D Lineament Analysis**

Lineament Analysis completed for historical drilling area indicates significant E-trending fault cuts gold Fox Lake gold zone

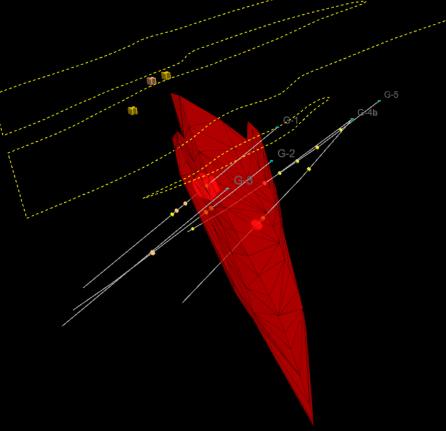
### **BNT – Fox Lake Drill Zone: Modeled Gold and Simplified**

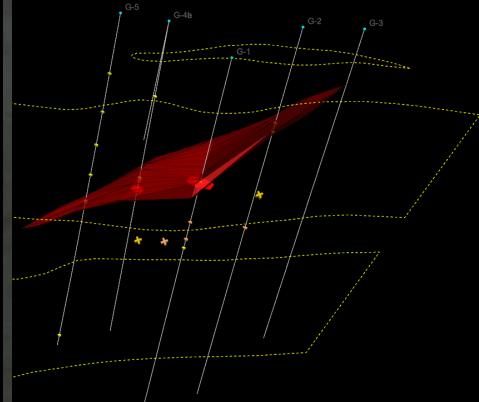
Modeled Felsite (Au Mineralization extends outside of Felsite)



### Zena- Modelled Gold Bodies (Preliminary)

1100 - Plunging Bodies (associated with F2 folding??)



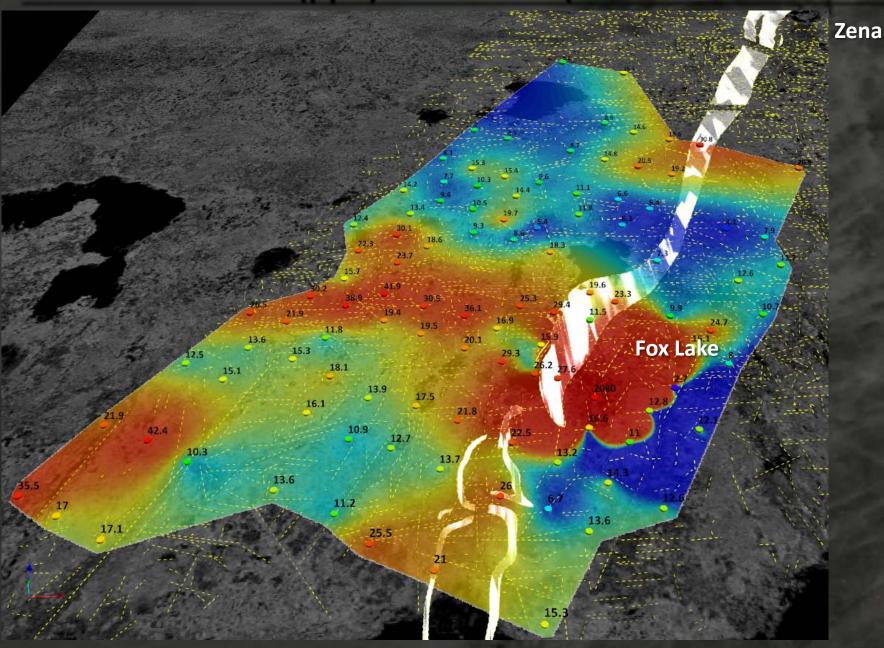


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# BNT – Surface geochemistry Gridded and Point data

#### 2016 Surface Geochemistry

# BNT – Surface Au (ppb) in Till Data (with lineament data)



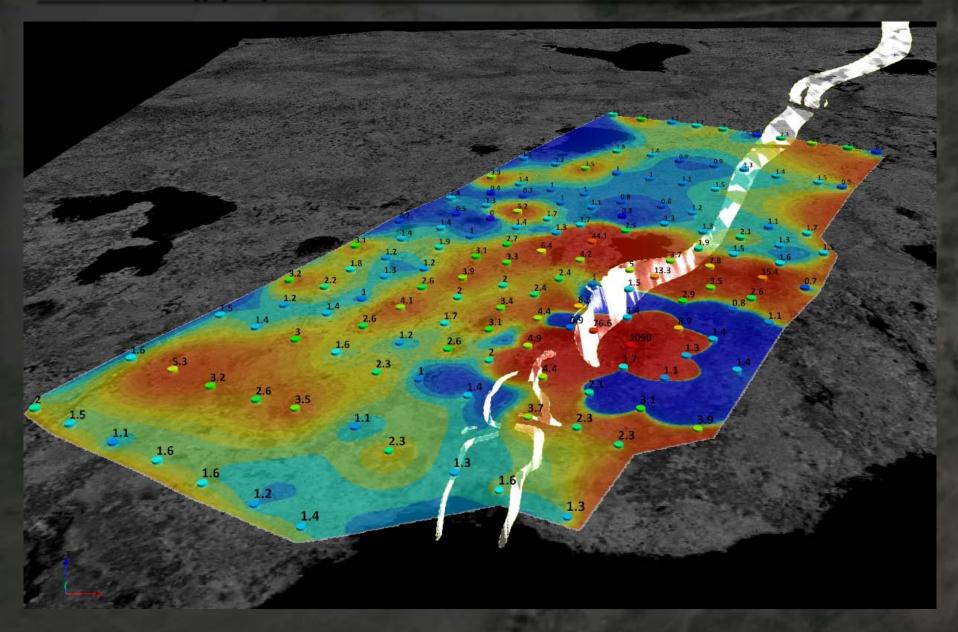
### BNT – Surface Au in Till Data (with Rock Data)

#### Extend surface geochemical sampling grids along length of Felsite body

Zena

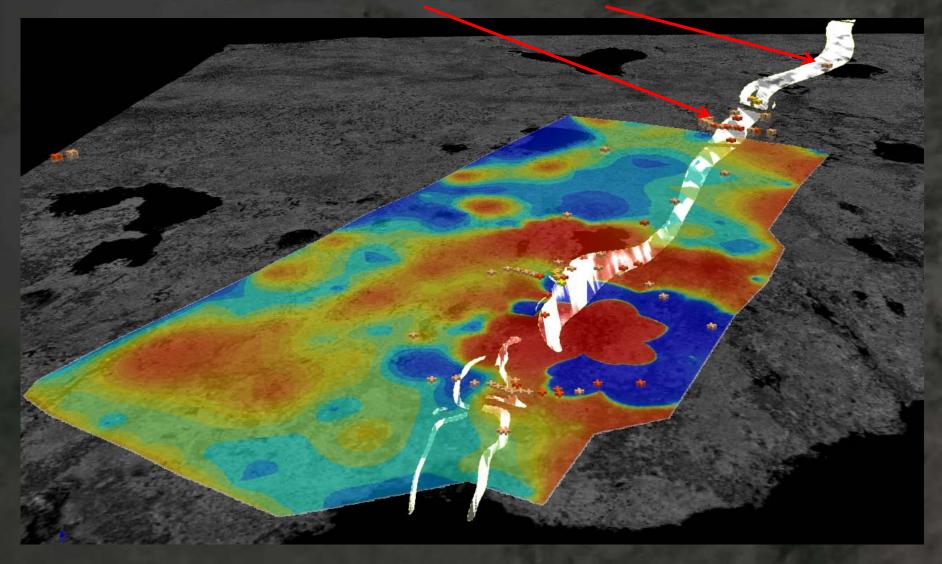
Fox Lake

# BNT – Au (ppb) in Ah Soil Horizon Gridded and Point data

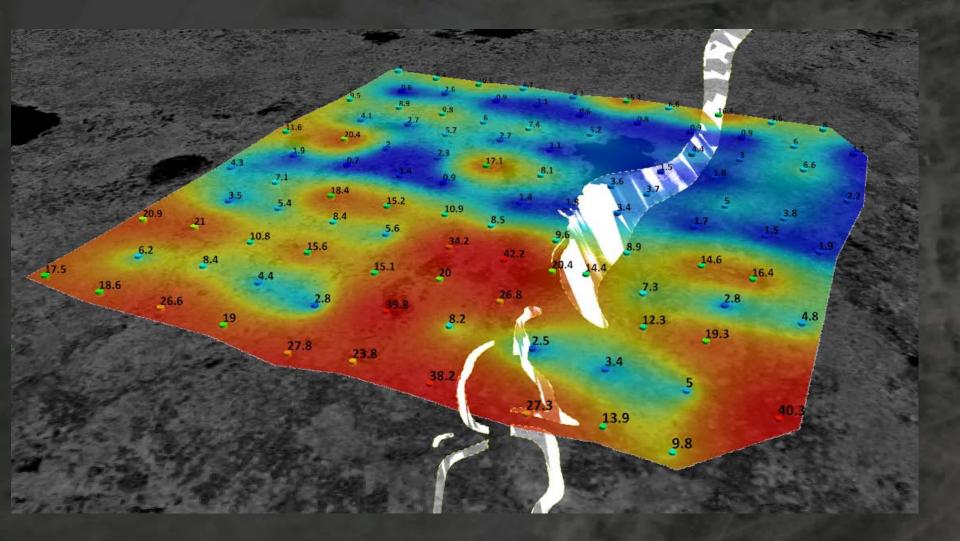


# BNT – Au in Ah Soil Horizon (with Rock Data)

#### Extend surface geochemical sampling grids along length of Felsite body

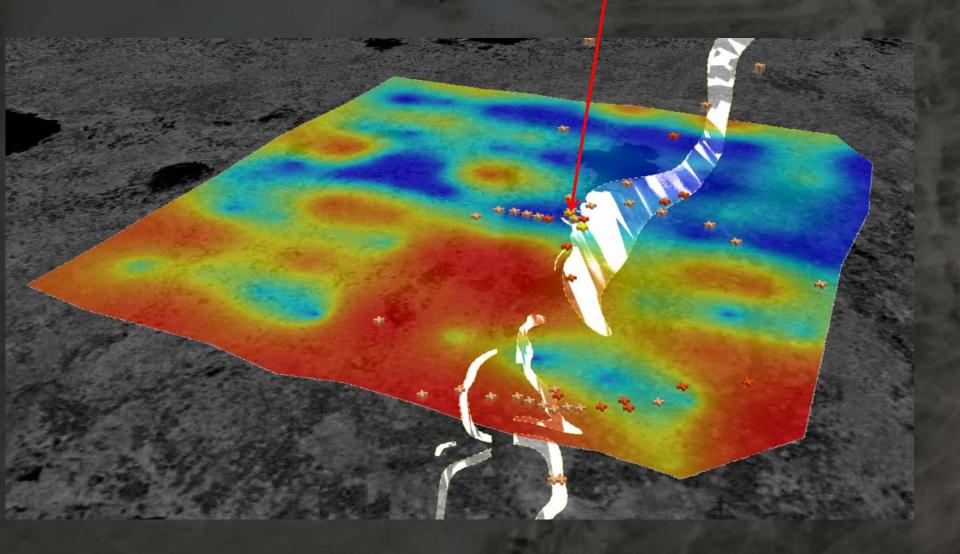


# BNT – Au (ppb) in Biogeochemistry Gridded and Point data



# BNT – Au (ppb) in Biogeochemistry Grid with Rock Data

High Au in rock in zones of Low biogeochem Au

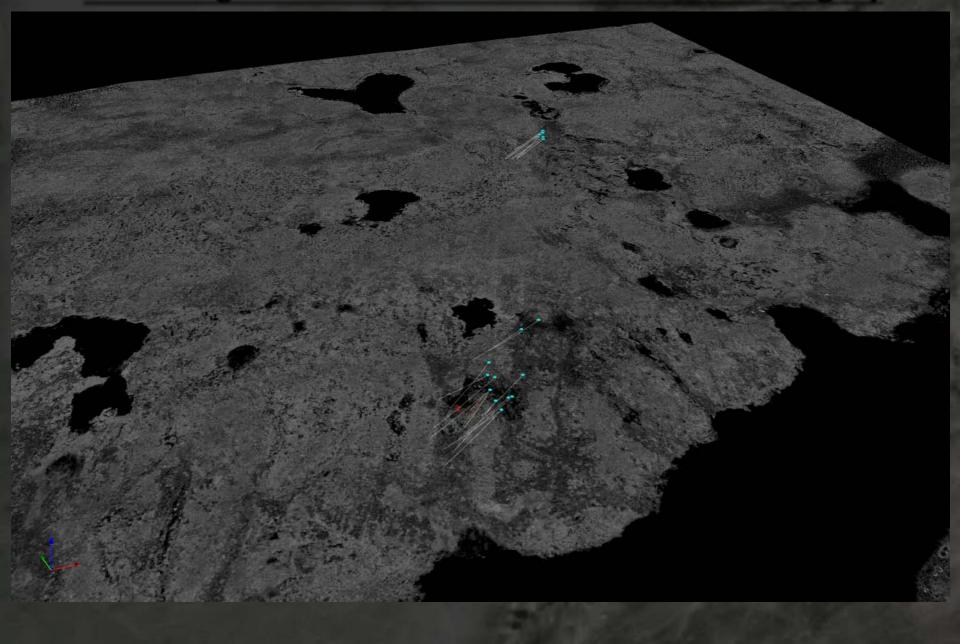


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### <u>BNT – High Resolution 50 cm</u> <u>Panchromatic Imagery</u>

**50cm Panchromatic Imagery** 

### BNT – High Resolution 50 cm Panchromatic Imagery



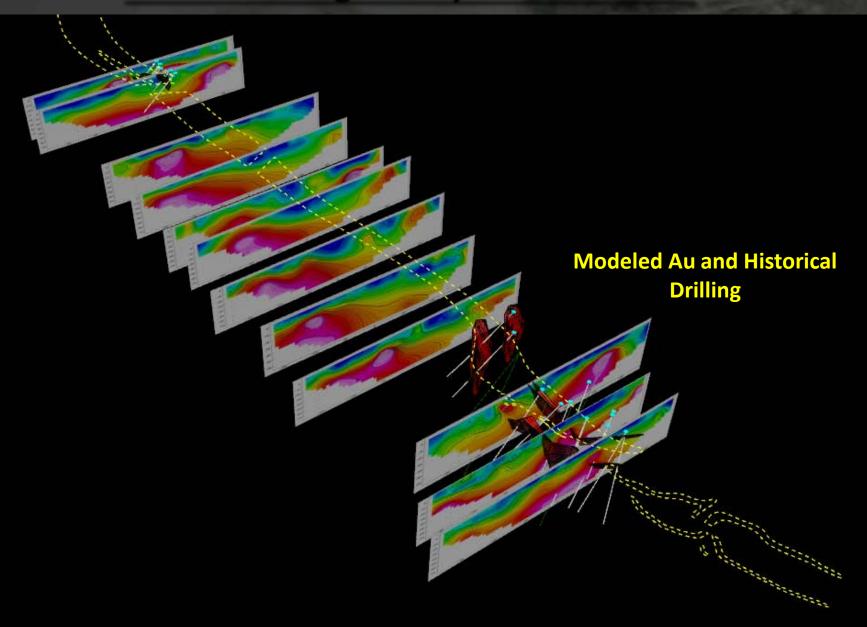
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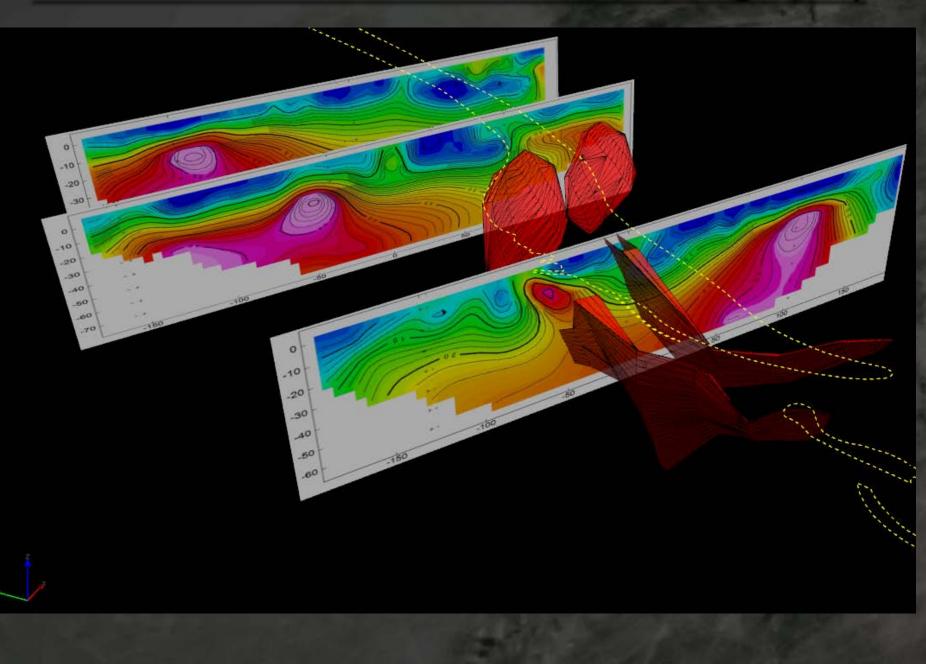
# <u>BNT – IP Chargeability Cross</u> <u>Sections</u>

**Chargeability Cross Sections** 

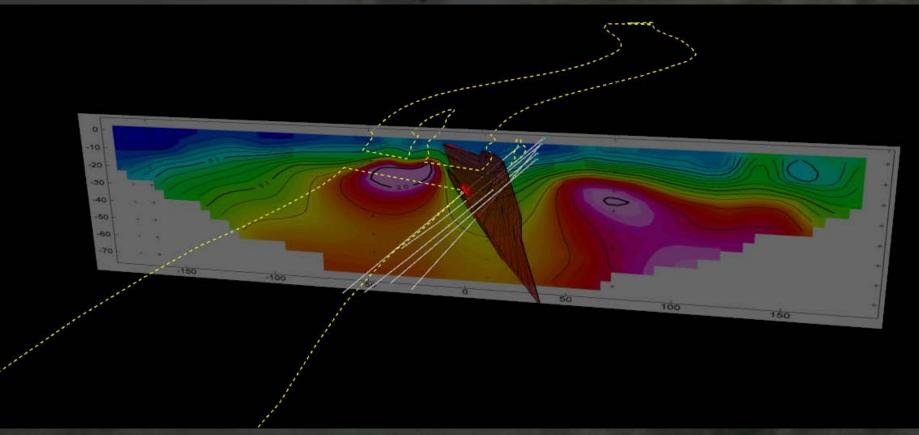
### **BNT – IP Chargeability Cross Sections**



### Fox Lake Zone – Modeled Au Bodies and Chargeability



### Zena Zone – Modeled Au Bodies and Chargeability





#### A 12 hole diamond drill program (1750 m)has been designed to:

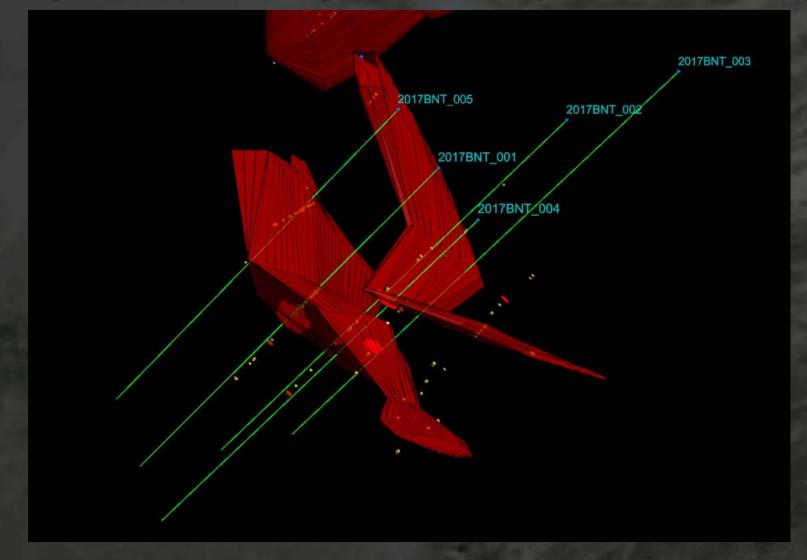
i) Verify Historical Drilling

- ii) Test Continuity of Modeled Gold bodies
  - iii) Test F2 Fold Structures
  - iv) Test Chargeability Highs

HOLE ID	LOCATIONX	LOCATIONY	LOCATIONZ	LENGTH	Rationale
2017BNT_001	572078	7078185	421	150	Test Main Au Zone Fox Lake; F2 Fold
2017BNT_002	572126	7078176	421	175	Test Main Au Zone Fox Lake; F2 Fold
2017BNT_003	572174	7078170	421	200	Test Main Au Zone Fox Lake; F2 Fold
2017BNT_004	572074	7078160	421	150	Test Main Au Zone Fox Lake; F2 Fold
2017BNT_005	572084	7078215	421	150	Test Main Au Zone Fox Lake; F2 Fold
2017BNT_006	572090	7078245	421	100	Test Chargeability High - Fox Lake
2017BNT_007	572141	7078273	421	175	Test Fault Zone Between North and South Fox Lake
2017BNT_008	572141	7078273	421	175	Test Fault Zone Between North and South Fox Lake
2017BNT_009	572174	7078170	421	100	Test Chargeability High - Fox Lake
2017BNT_010	572620	7079055	421	150	Test Main Au Zone Zena; F2 Fold
2017BNT_011	572565	7079066	421	100	Test Chargeability High - Zena
2017BNT_012	572540	7079107	421	125	Test Chargeability High - Zena
				1750	

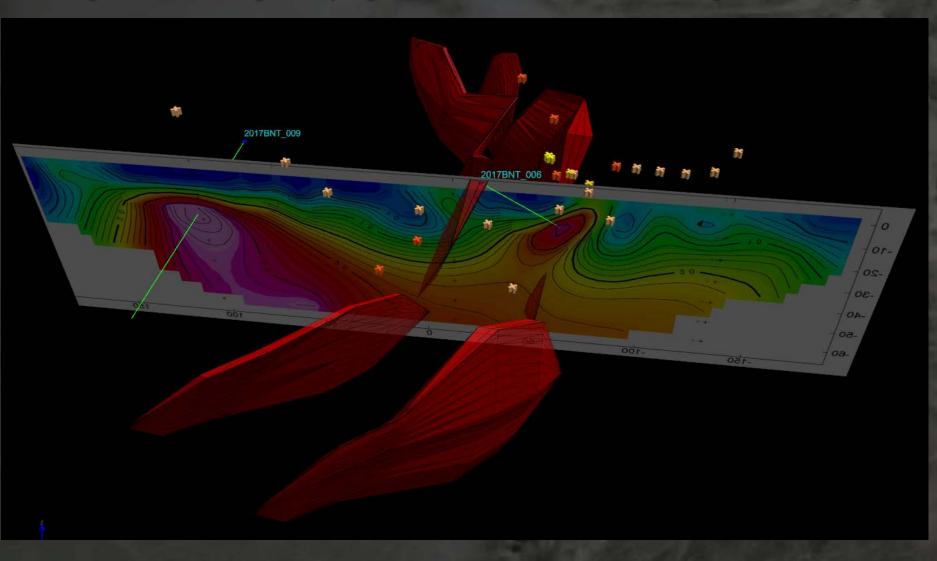
2017BNT DDH 1-5: Fox Lake

Designed to Verify 1958 Gold highs and test continuity associated with F2 Folding



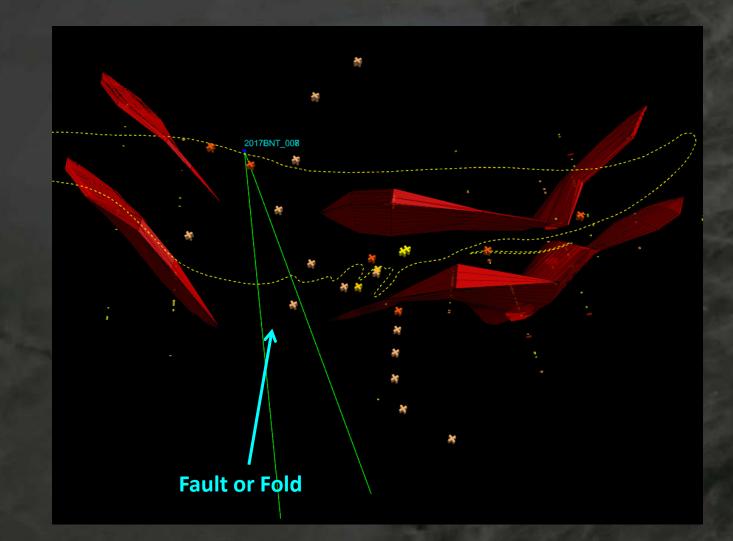
2017BNT DDH 6 & 9: Fox Lake

Designed to test chargeability Highs; DDH 6 aimed towards surface gold in rock highs



2017BNT DDH 7-8 : Fox Lake

Designed to test either E-trending Fault or F2 Fold structure between North and South Fox lake Mineralized Bodies



2017BNT DDH 10-12 : Zena Lake Designed to verify historic Zena Intercept and test chargeability high

017BNT\_010

Test Historical Au Intercept and E plunging Fold

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