LEAPFROG GEOTHERMAL



### **SURFACE TYPES**

Leapfrog Geothermal 3.9

#### LEAPFROG GEOTHERMAL 3.9 SURFACES

#### CORE CONTACT SURFACE TYPES

Deposit Erosion Intrusion Vein

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Z	New <u>D</u> eposit
Ø	New <u>E</u> rosion
	New Intrusion
×	New Vei <u>n</u>
۶	New Structural Surface
÷	New Vein Syste <u>m</u>
9	New <u>S</u> tratigraphy
	<u>V</u> iew All
1	P <u>r</u> ioritise
7	Properties

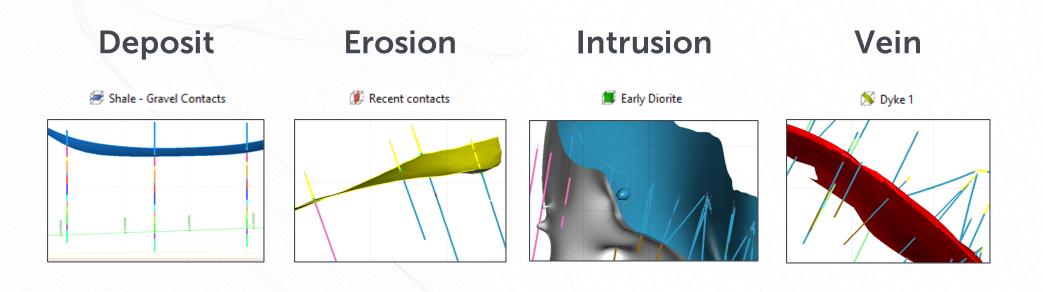
From Base Lithology...
From Other Contacts...
From Polyline...
From GIS Vector Data...
From Structural Data...
From Points...
From Offset Surface...
From Surface...

#### SPECIFIC FUNCTION SURFACES

Structural Offset Vein System Stratigraphy

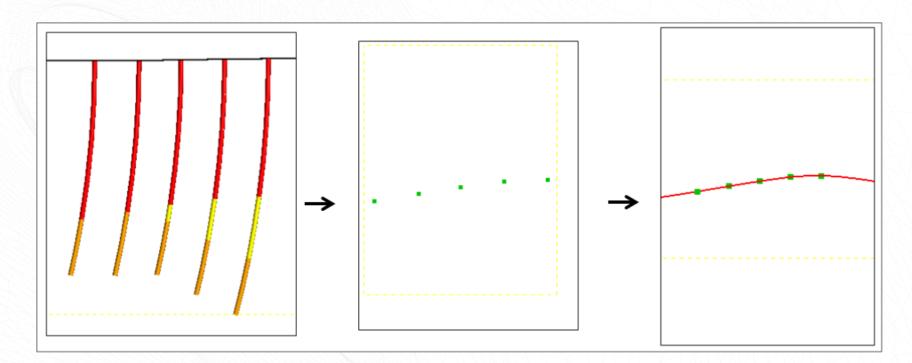
#### LEAPFROG GEOTHERMAL 3.9 SURFACES

### **CORE CONTACT SURFACE TYPES**



#### **DEPOSIT AND EROSION SURFACE**

One set of contact points – above **OR** below the unit of interest

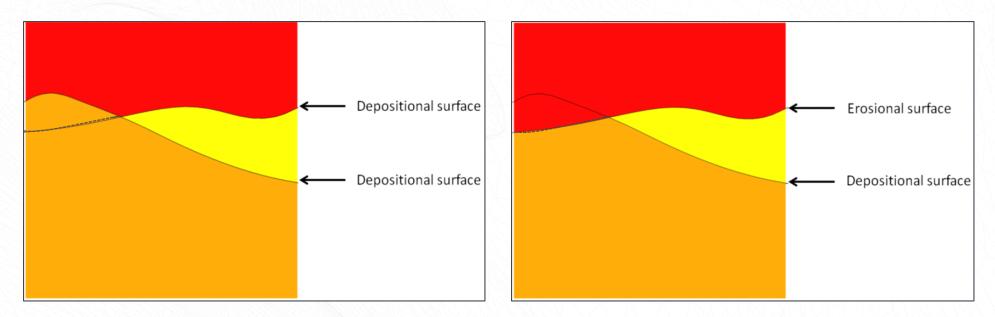


Only ONE contact point per unit per well

#### **DEPOSIT AND EROSION VOLUMES**

#### **Deposit Surface**

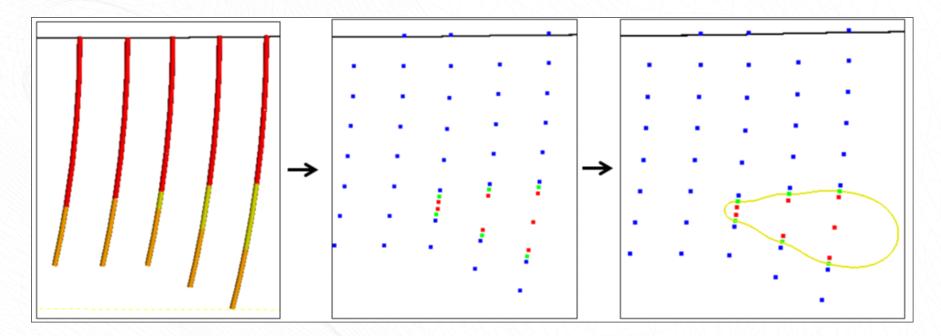
#### **Erosion Surface**



Cannot cut into an underlying older unit

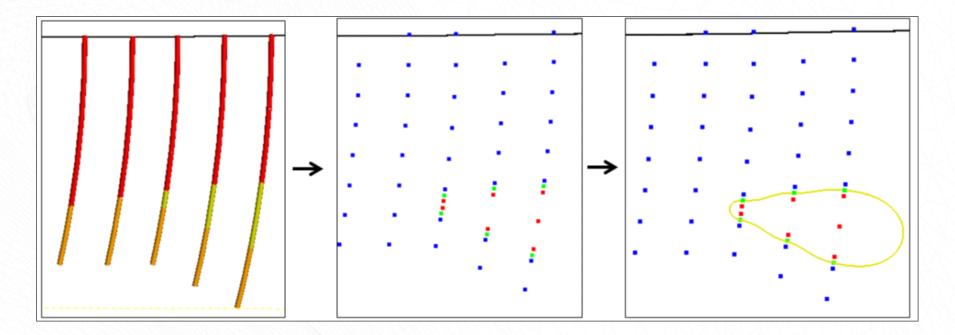
Can cut into an underlying older unit

One set of contact points – above AND below the unit of interest



Can have MULTIPLE contact points per unit per well

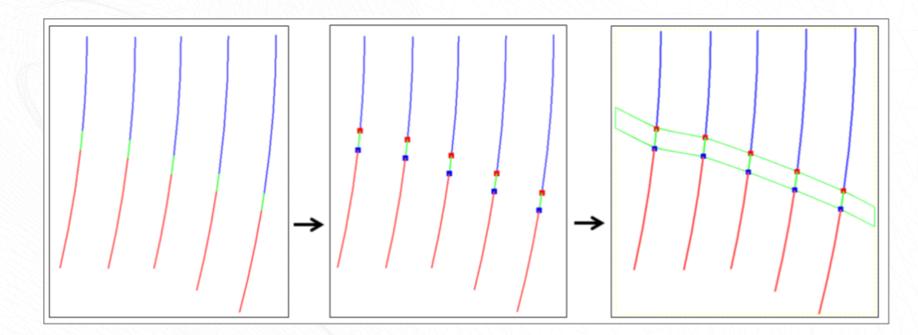
#### INTRUSION VOLUMES



Encloses the unit of interest

#### **VEIN SURFACE**

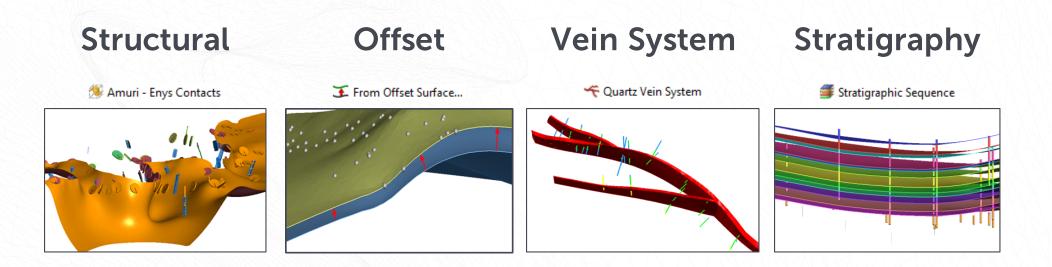
**Two** sets of contact points – above **AND** below the unit of interest



Creates a Hanging wall (HW) set AND Footwall (FW) set of contact points

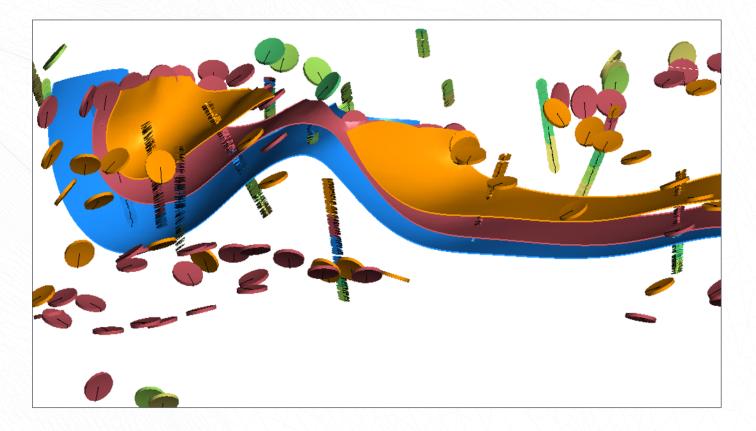
#### **SPECIFIC FUNCTION SURFACES**

### **SPECIFIC FUNCTION SURFACES**



#### STRUCTURAL SURFACE

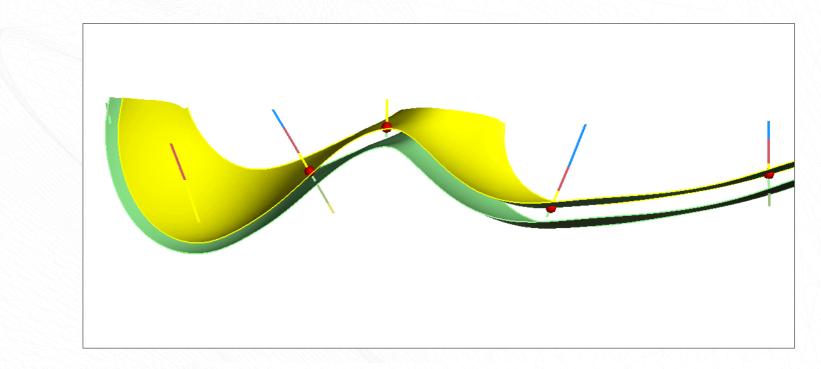
# Incorporates **non-contact** structural data with on-contact data (wells, surface mapping)



Can be used for a **Deposit**, **Erosion** or **Intrusion** contact type

#### OFFSET SURFACE

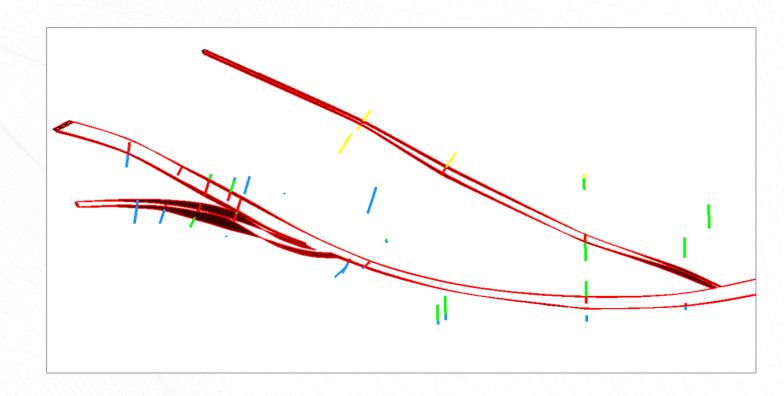
Maintains **consistent offset** while **honouring** contact points – for stratigraphy with common deformation



Can be used for a **Deposit** or **Erosion** contact type

#### VEIN SYSTEM SURFACE

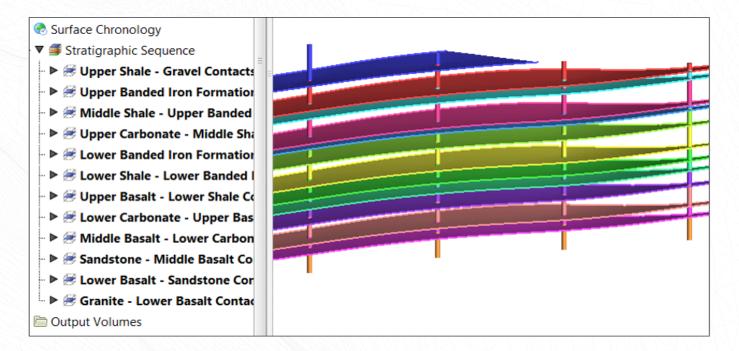
## Combines individual veins into a **single interconnected system** of veins



Can be used for a Vein contact type

#### **STRATIGRAPHIC SEQUENCE**

## Generates **multiple** surfaces in a stratigraphic sequence in a **single pass**



Can be used for a **Deposit** or **Erosion** contact type