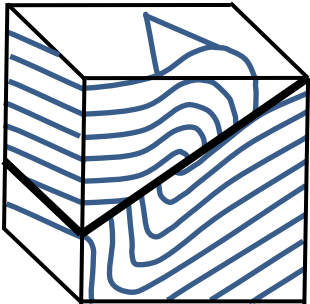


Structural Characterization and Modelling Capabilities

John Fedorowich

Structural Geology Consulting Inc.



JFSGC INC.

Our Consulting approach in terms of developing a robust structural geology model begins with a thorough assessment of the **existing** structural geology datasets, such as:

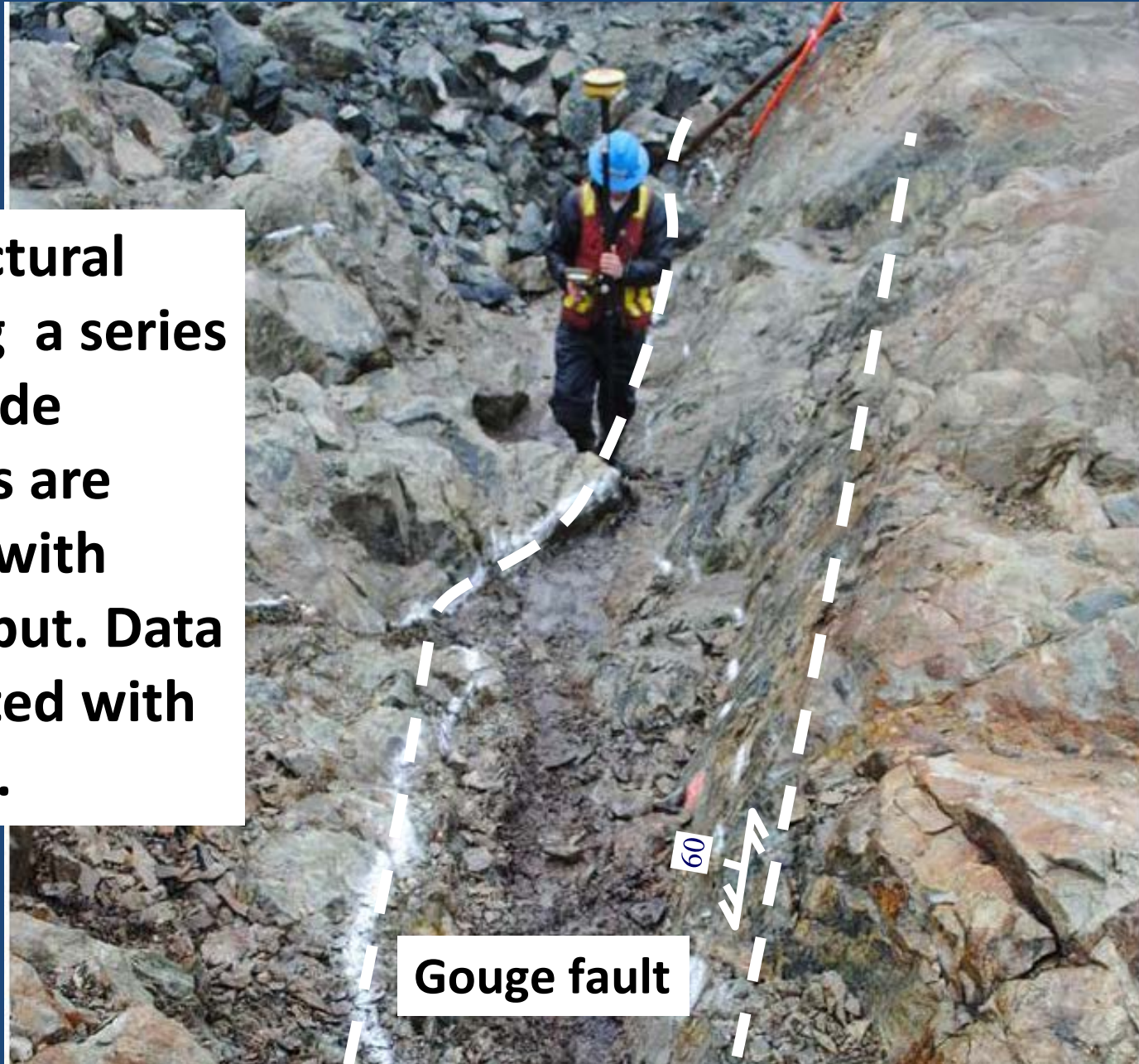
- pit structural mapping,
- core logging of structures,
- and televiewer information.

Working together with the client's key people, a gap analysis is carried out to determine what, if any, additional data needs to be collected within the area of interest.

We use the **best available current technology** to help develop a robust structural model

Precise structural field mapping

For structural mapping a series of pit-wide traverses are defined with client input. Data is collected with RTK GPS.



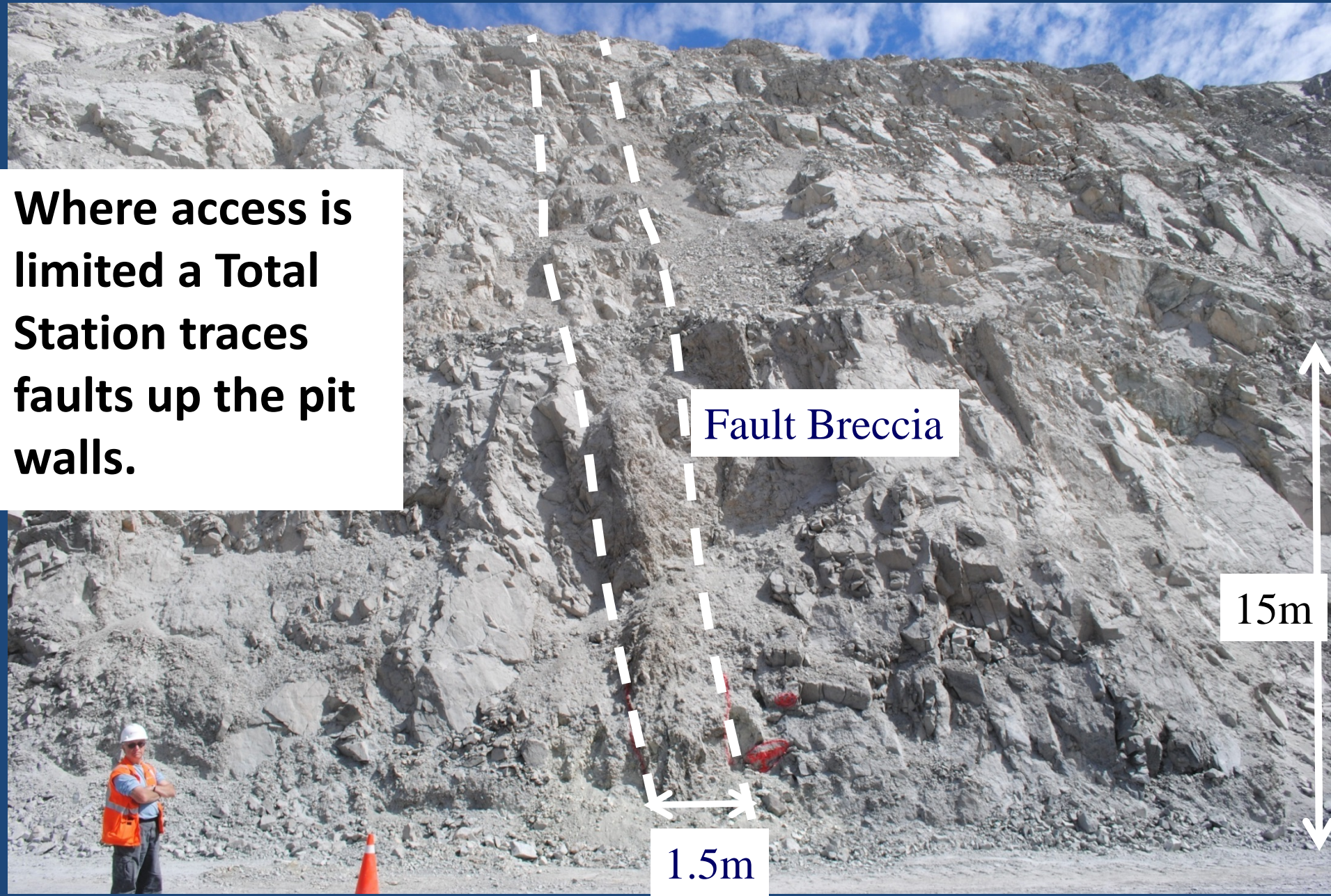
Total station fault mapping of pit walls

Where access is limited a Total Station traces faults up the pit walls.

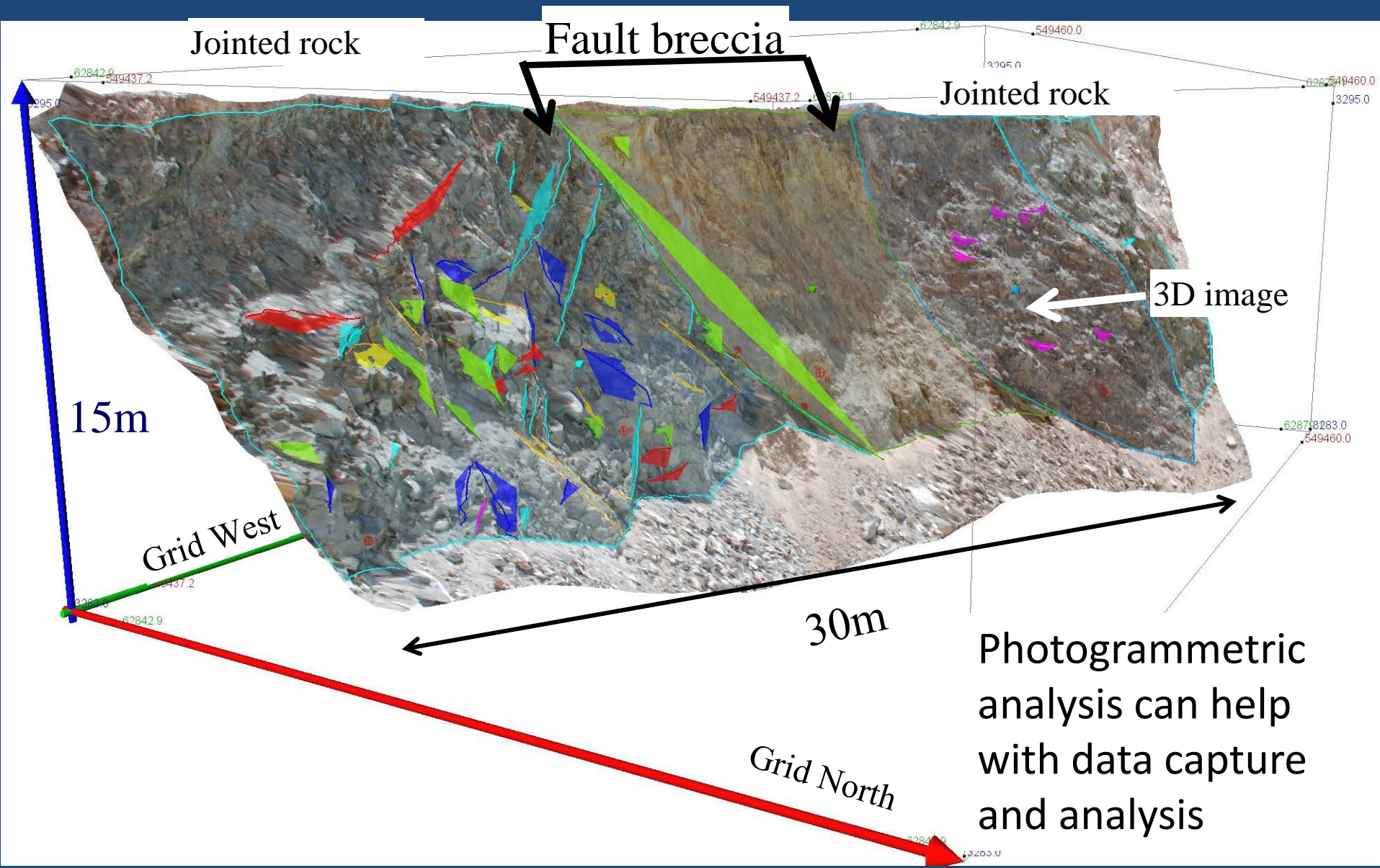
Fault Breccia

15m

1.5m

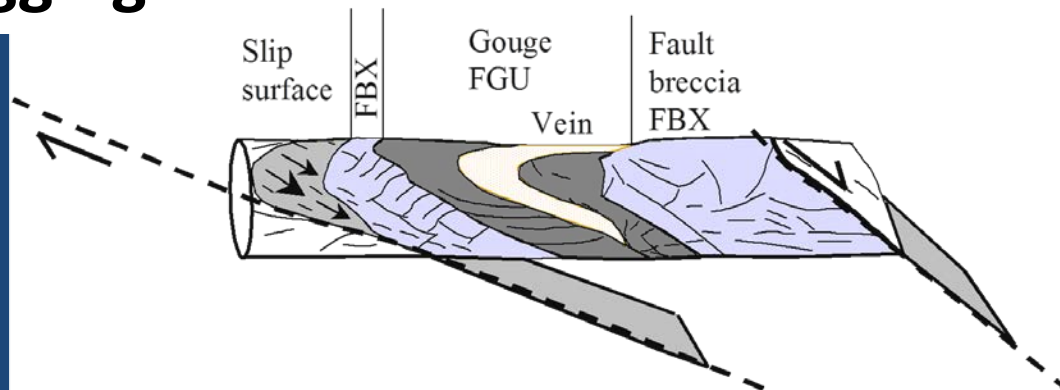


Stereo photogrammetric 3D structural reconstruction

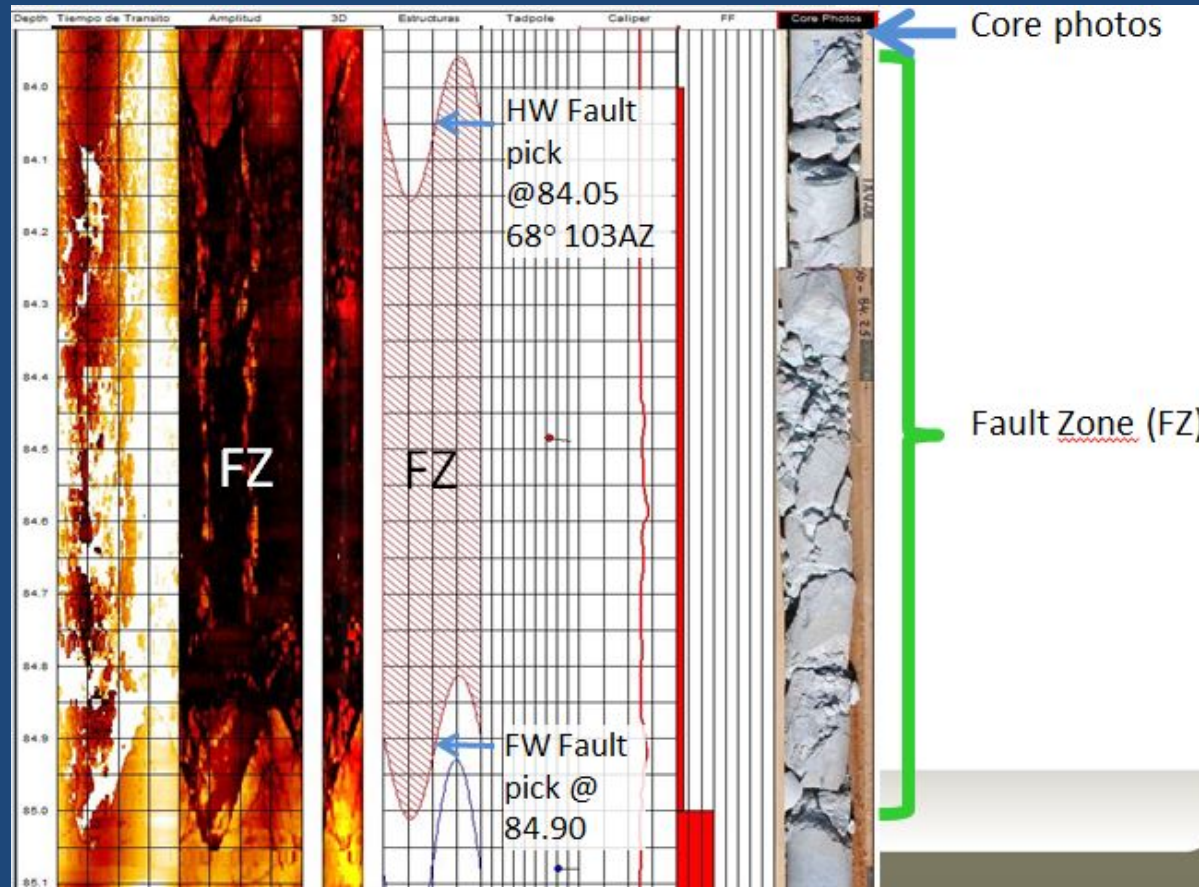


Guidance on logging geological structures

The structures in the subsurface are understood by detailed structural logging

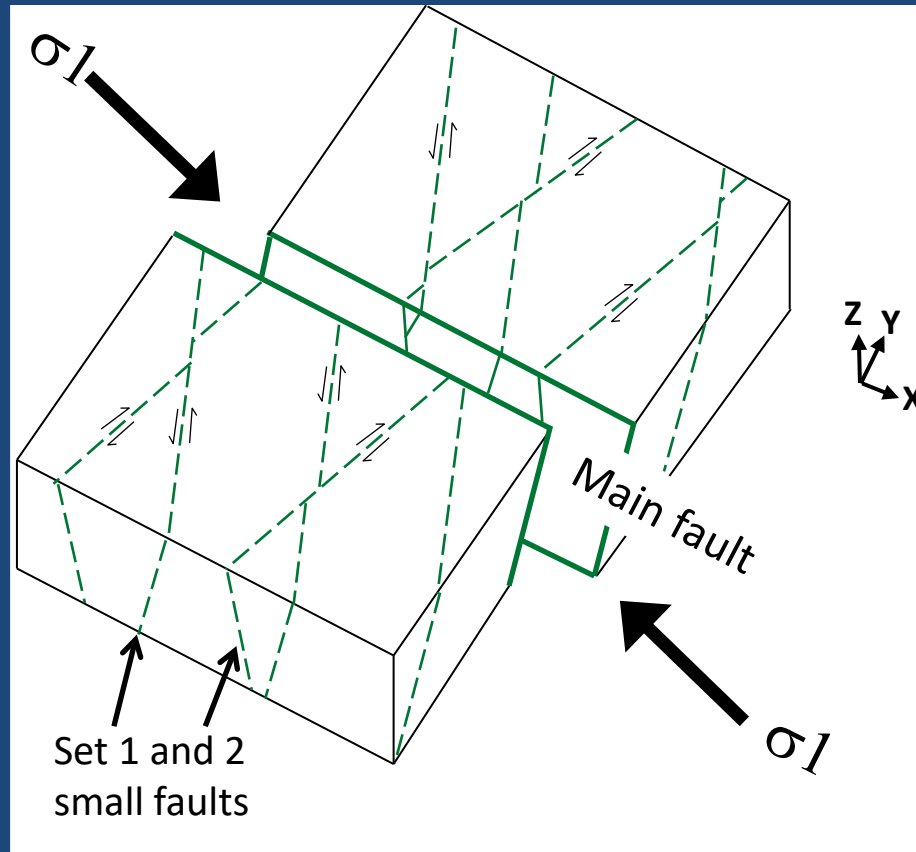


Televviewer analysis incorporated in the structural model

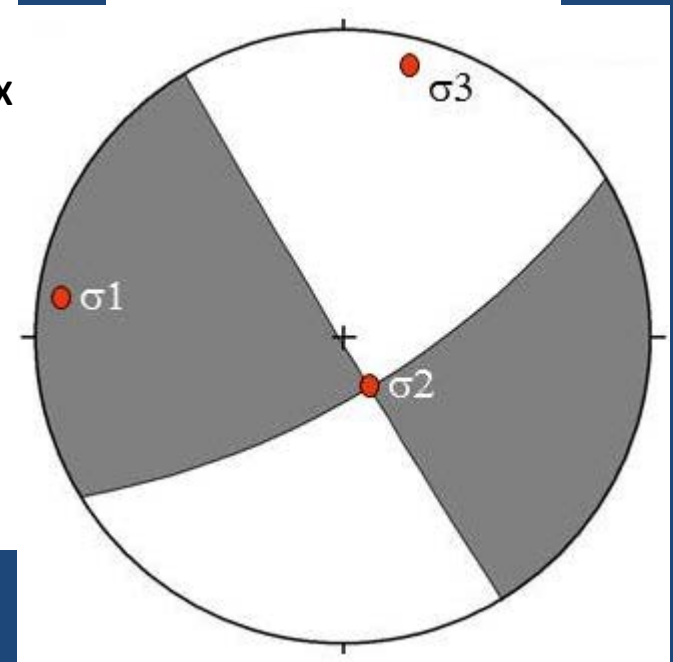


Acoustic and Optical televviewer information is reviewed and understood in WellCad, and orientation picks are applied in 3D

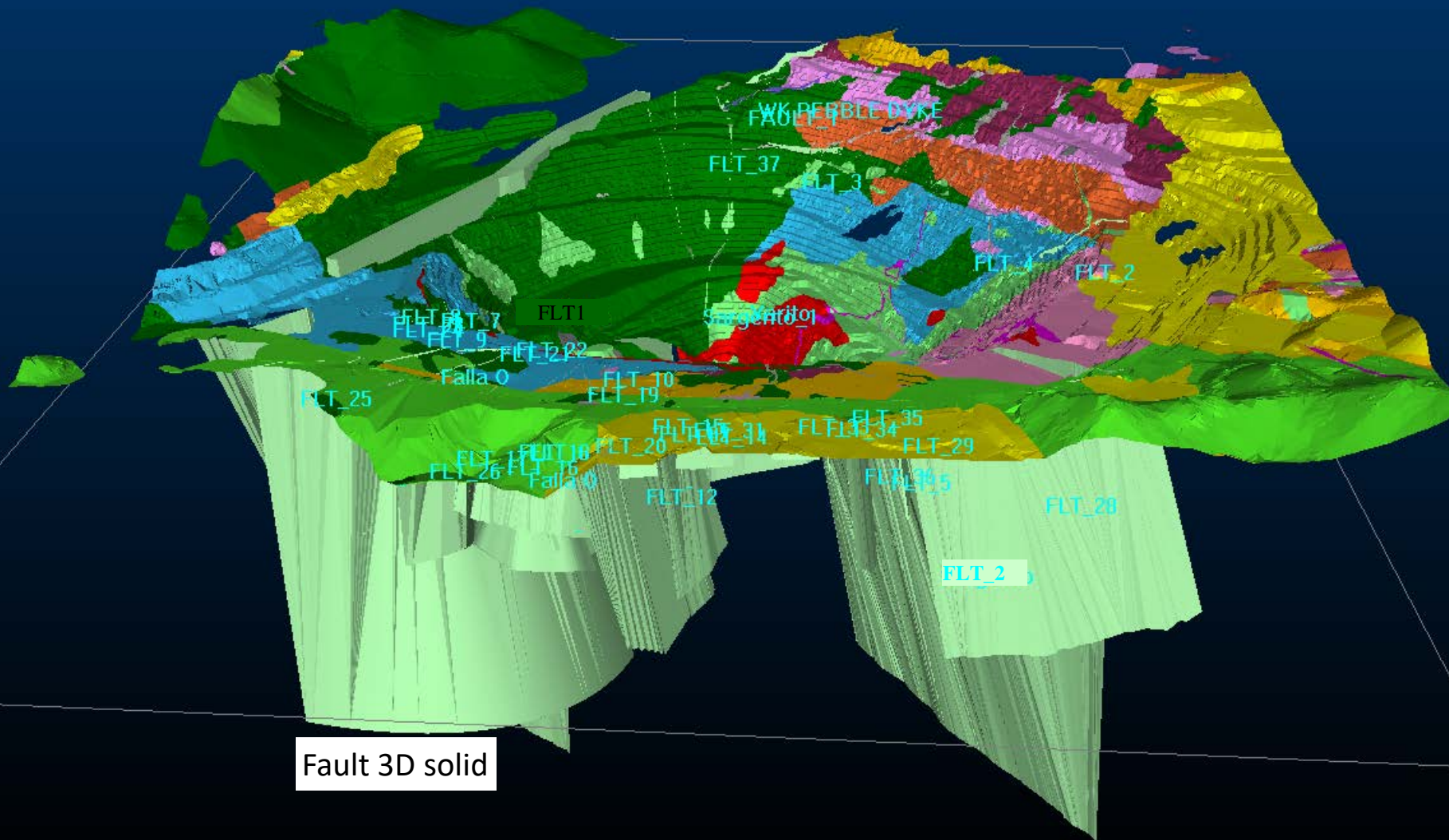
Structural interpretation of fabric elements



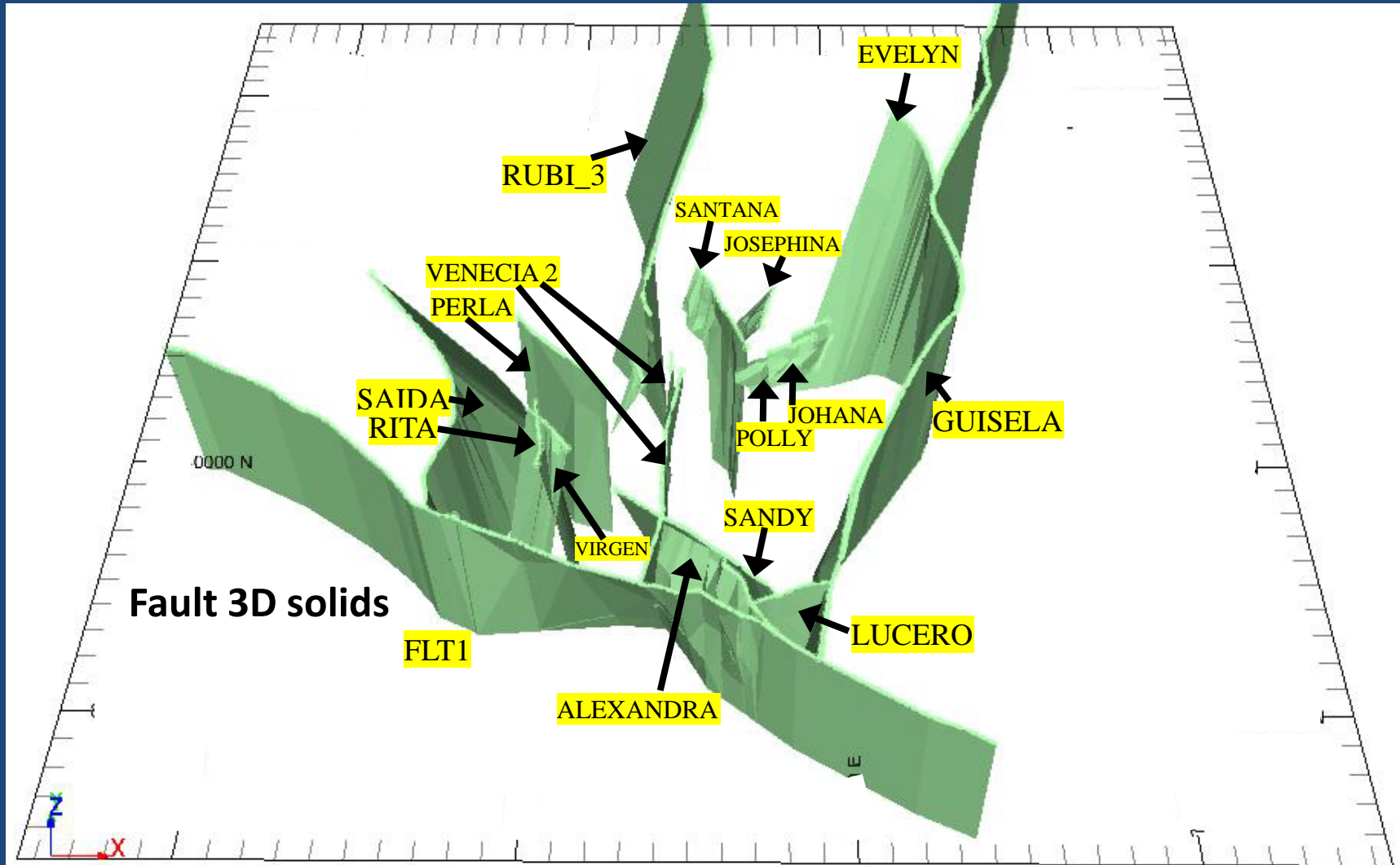
Paleostress configuration



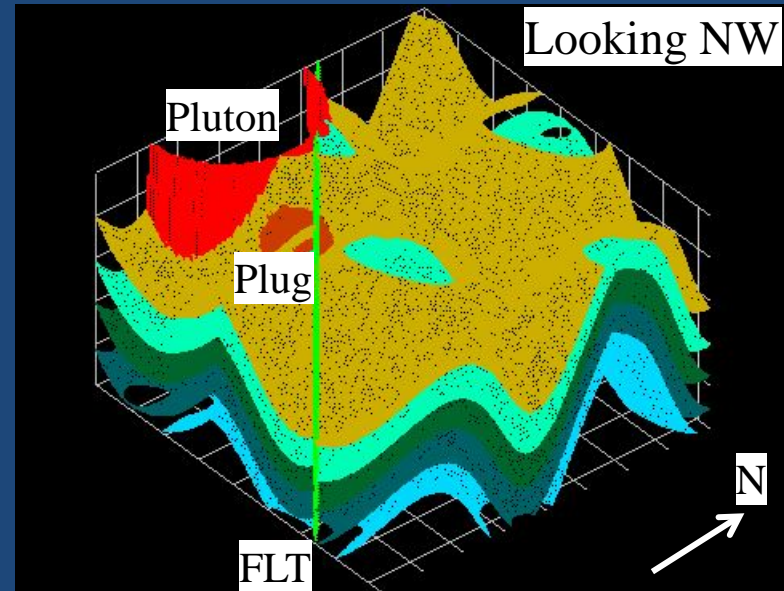
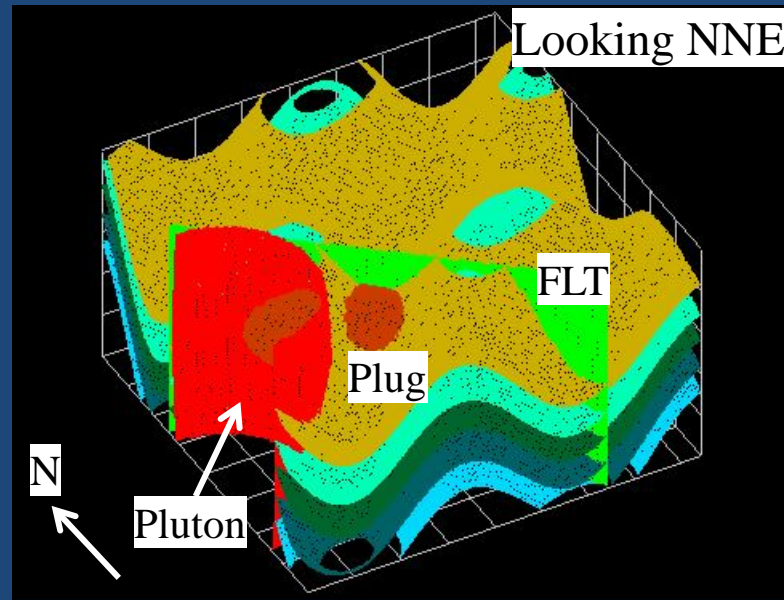
3D Fault Model incorporating mapping and drilling information



3D Fault Model incorporating mapping and drilling information



3D Fold and Fault Modelling



***JOHN FEDOROWICH STRUCTURAL GEOLOGY
CONSULTING INC.
SERVICES***

Structural field mapping

Underground structural mapping

Datamine 3D structural modelling

Integration of mapped and logged faults

ArcGIS lithology, structural, and lineament interpretation

WellCad ATV and OPTV structural analyses

Drill core structural logging and guidance

Ar/Ar radiometric dating of fault rocks

Fault rock petrography

Contact Information

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