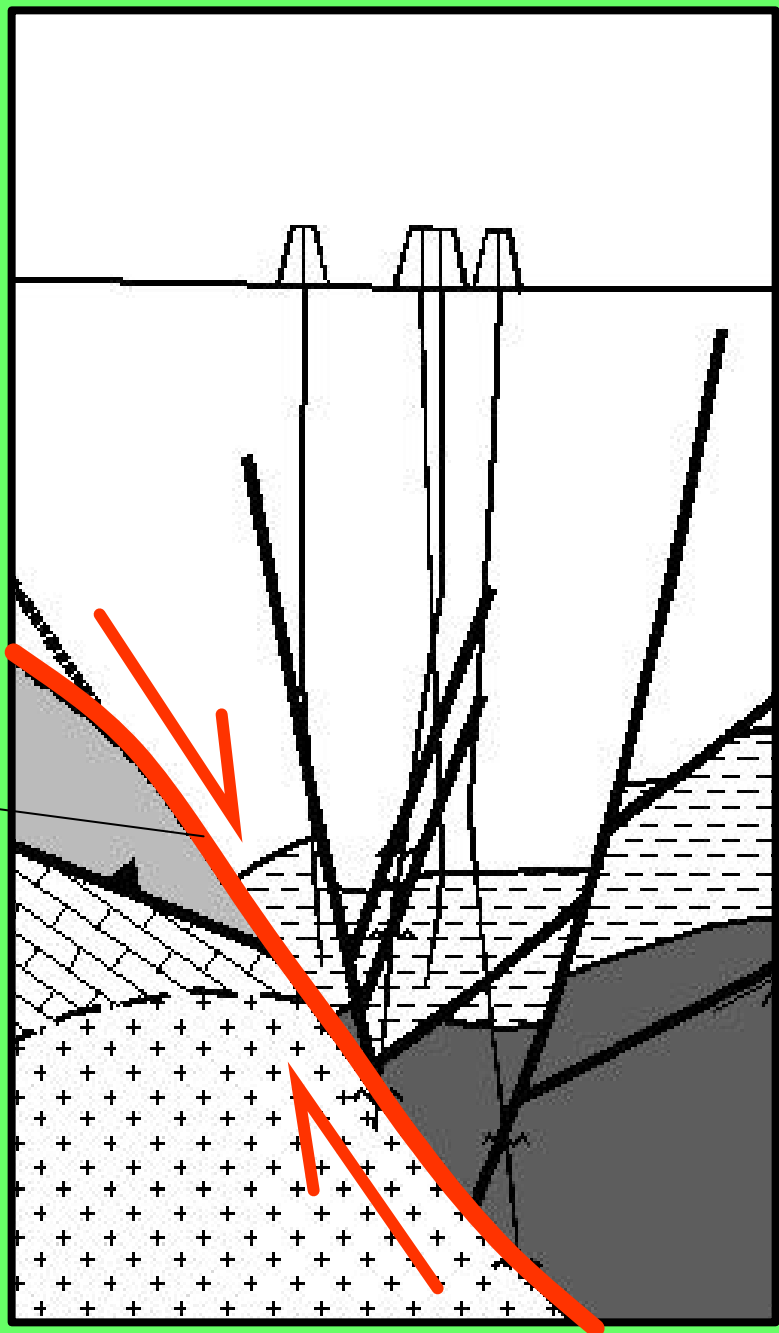


STILLWATER RANGE STRUCTURE

Stillwater Range =
upthrown block



1500 m

Dixie Valley Fault

Reservoir =
downthrown
block

- TECTONIC STRUCTURE
- FOUR SETS OF FAULTS
- MESOZOIC TO PRESENT



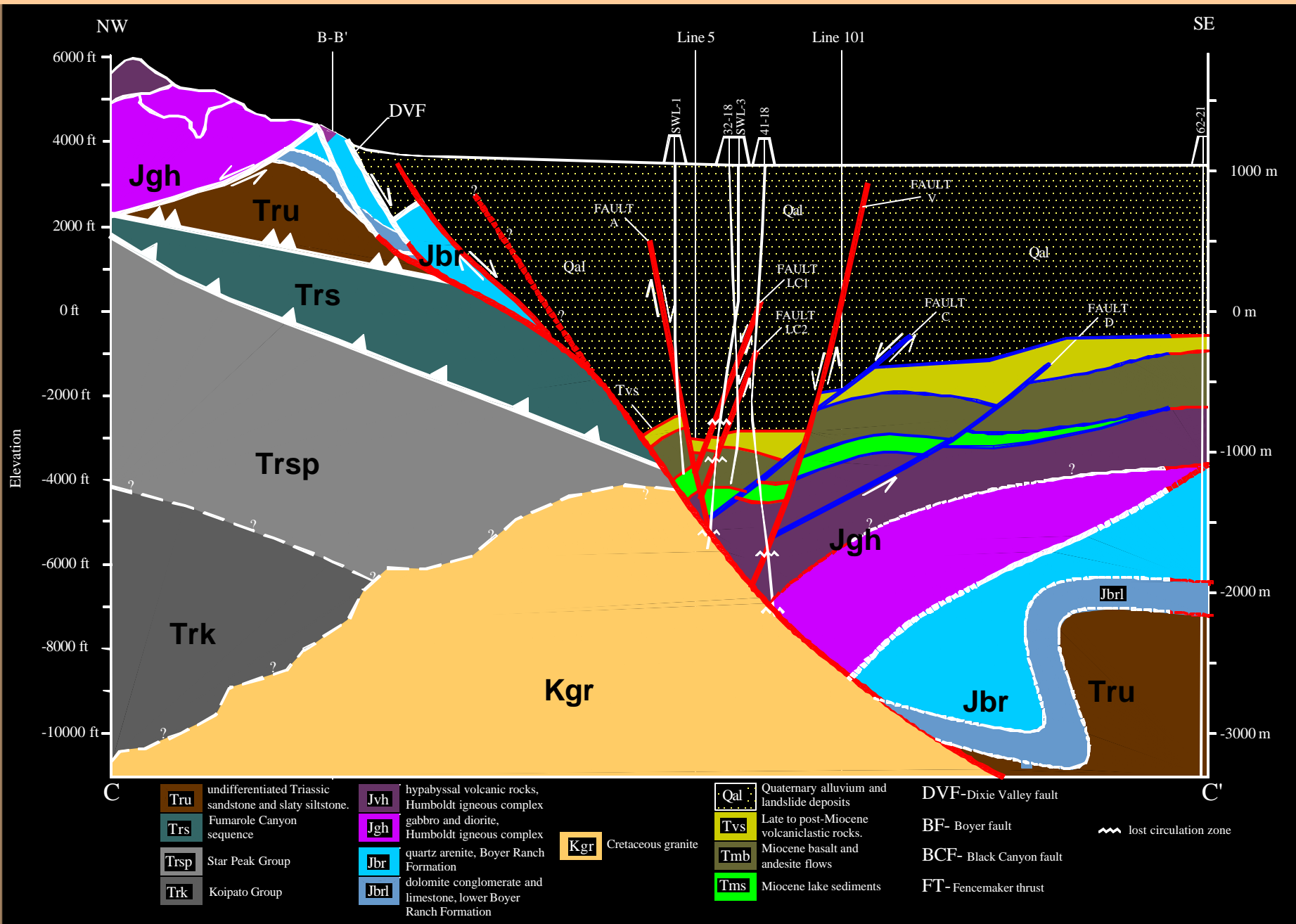






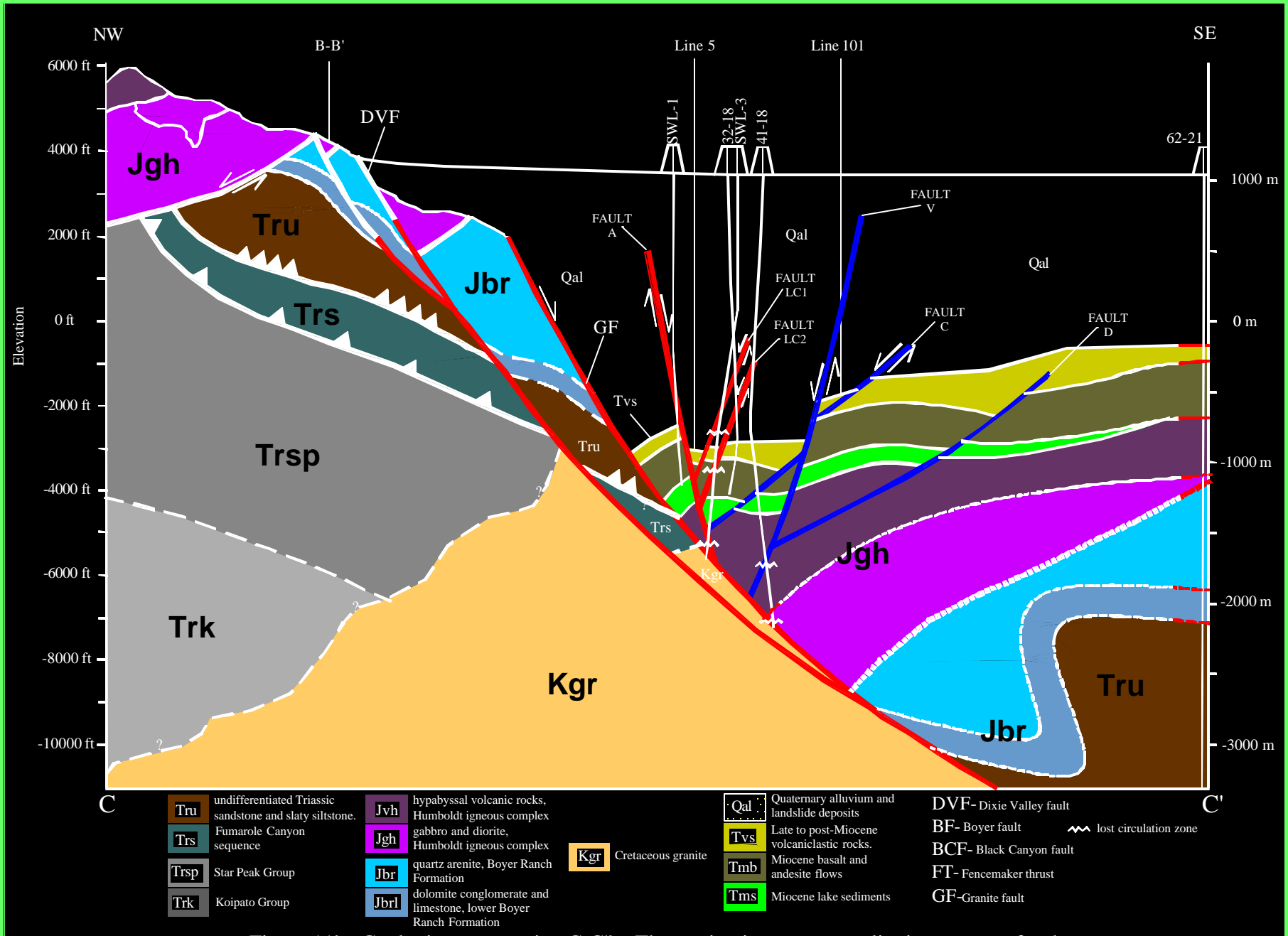
SIMILAR SUBSURFACE STRUCTURE

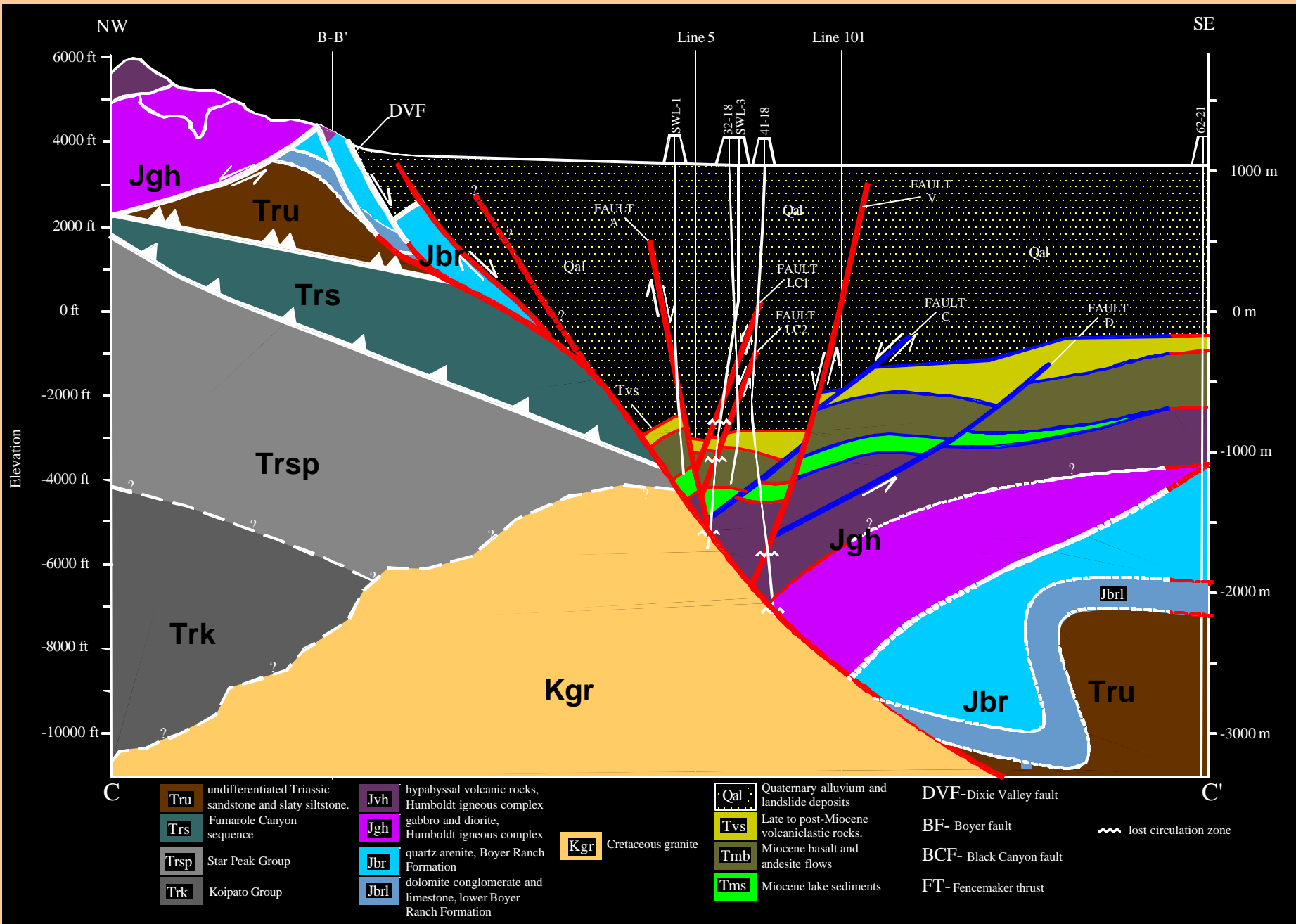
- Borehole logs
- Surface relationships

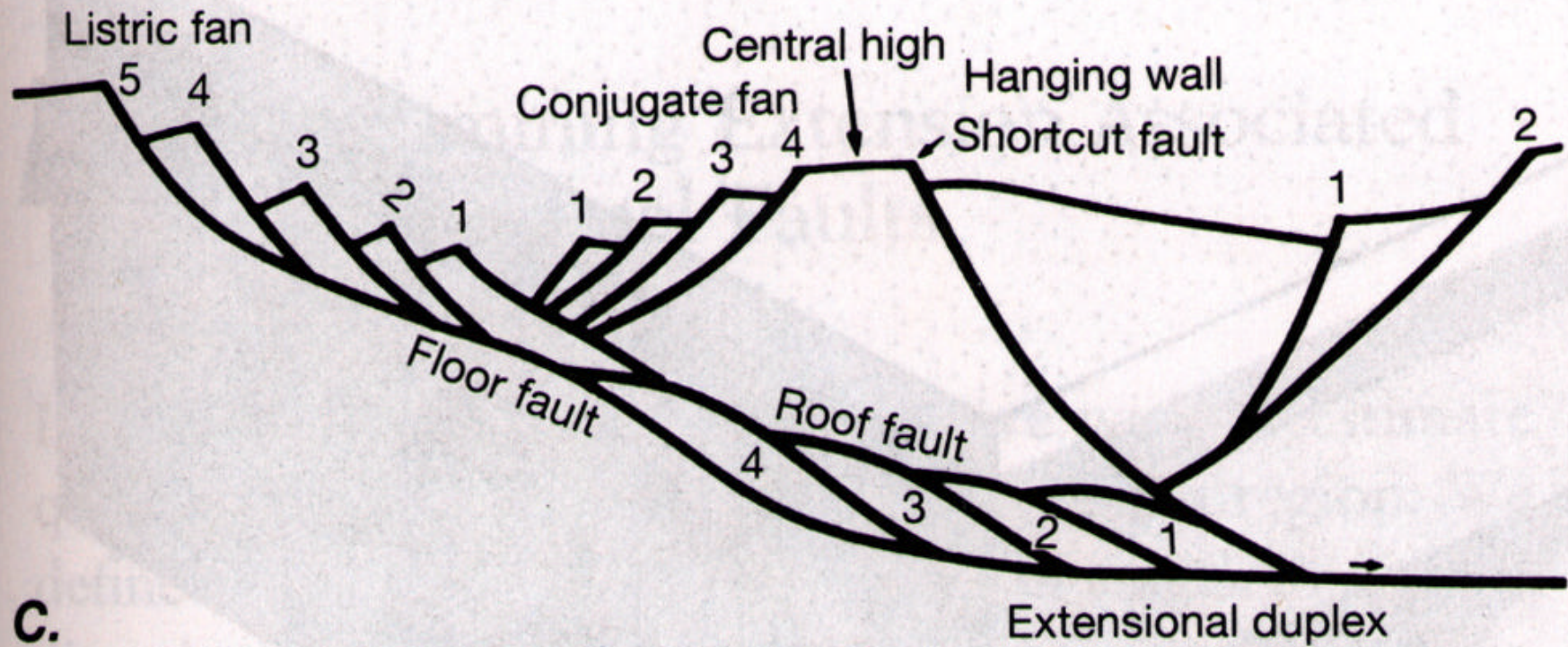


CONSTRAINTS ON GEOMETRY OF THE DIXIE VALLEY FAULT

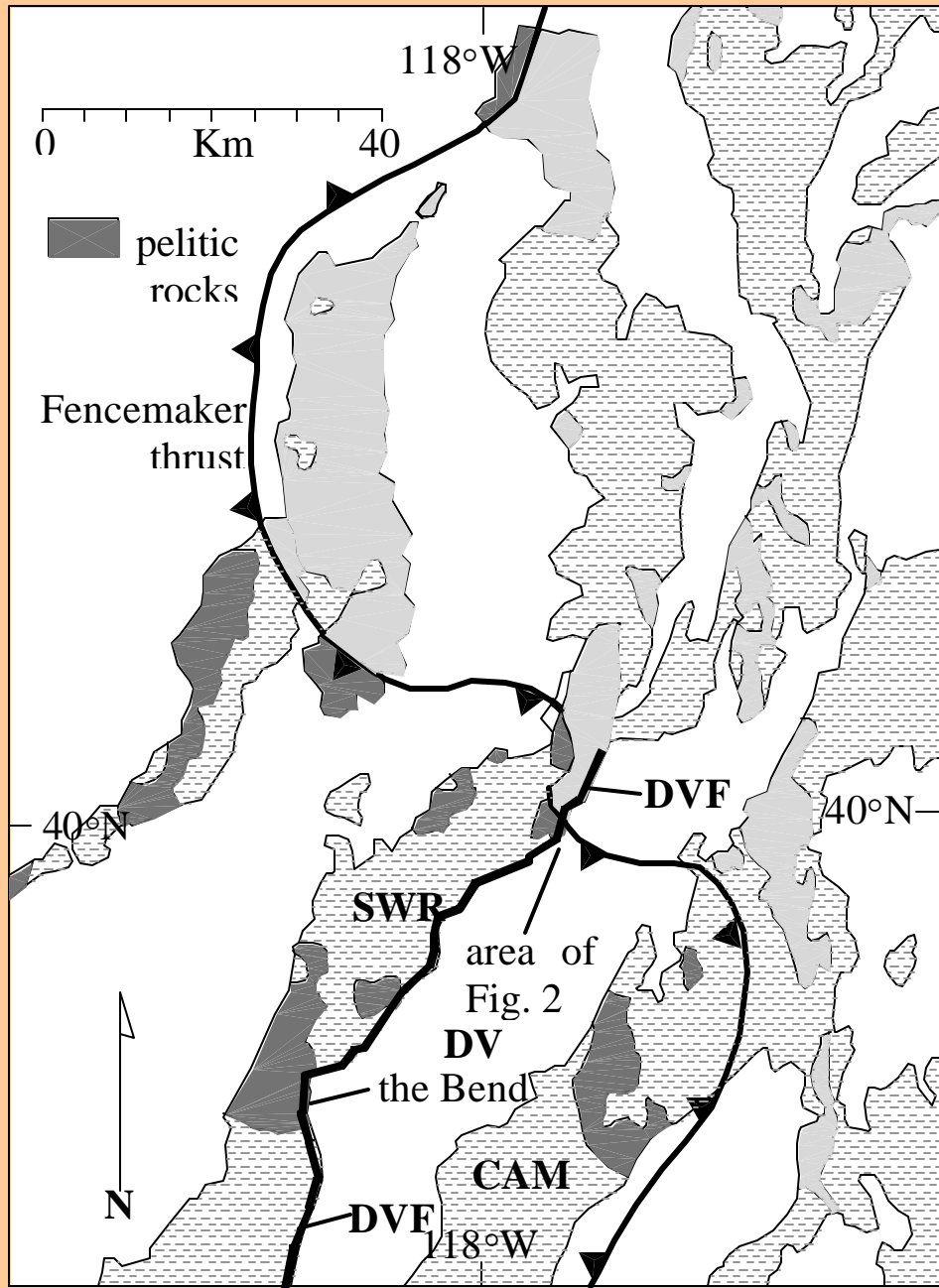
- Inactive splays exposed at the surface
- Shallow basement block from seismic model
 - Measured surface dip
 - Dip in boreholes

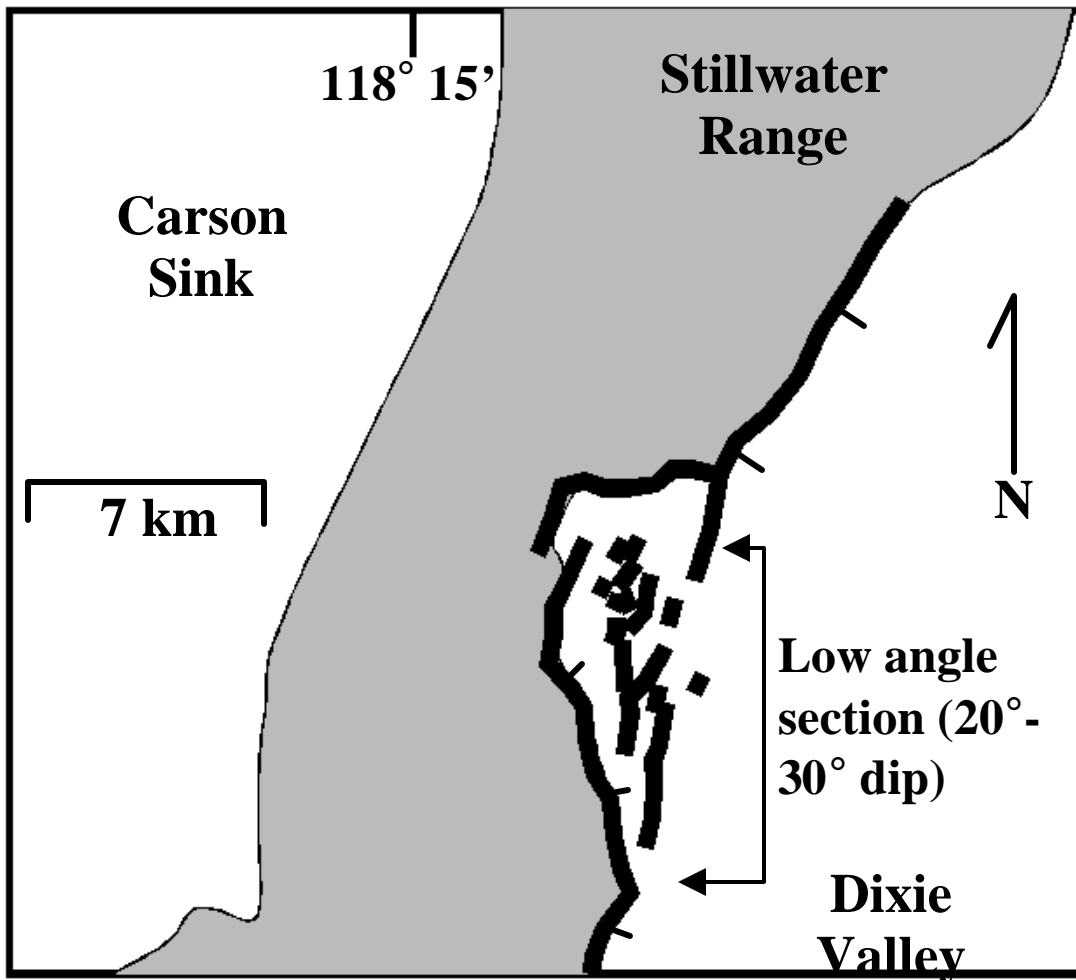


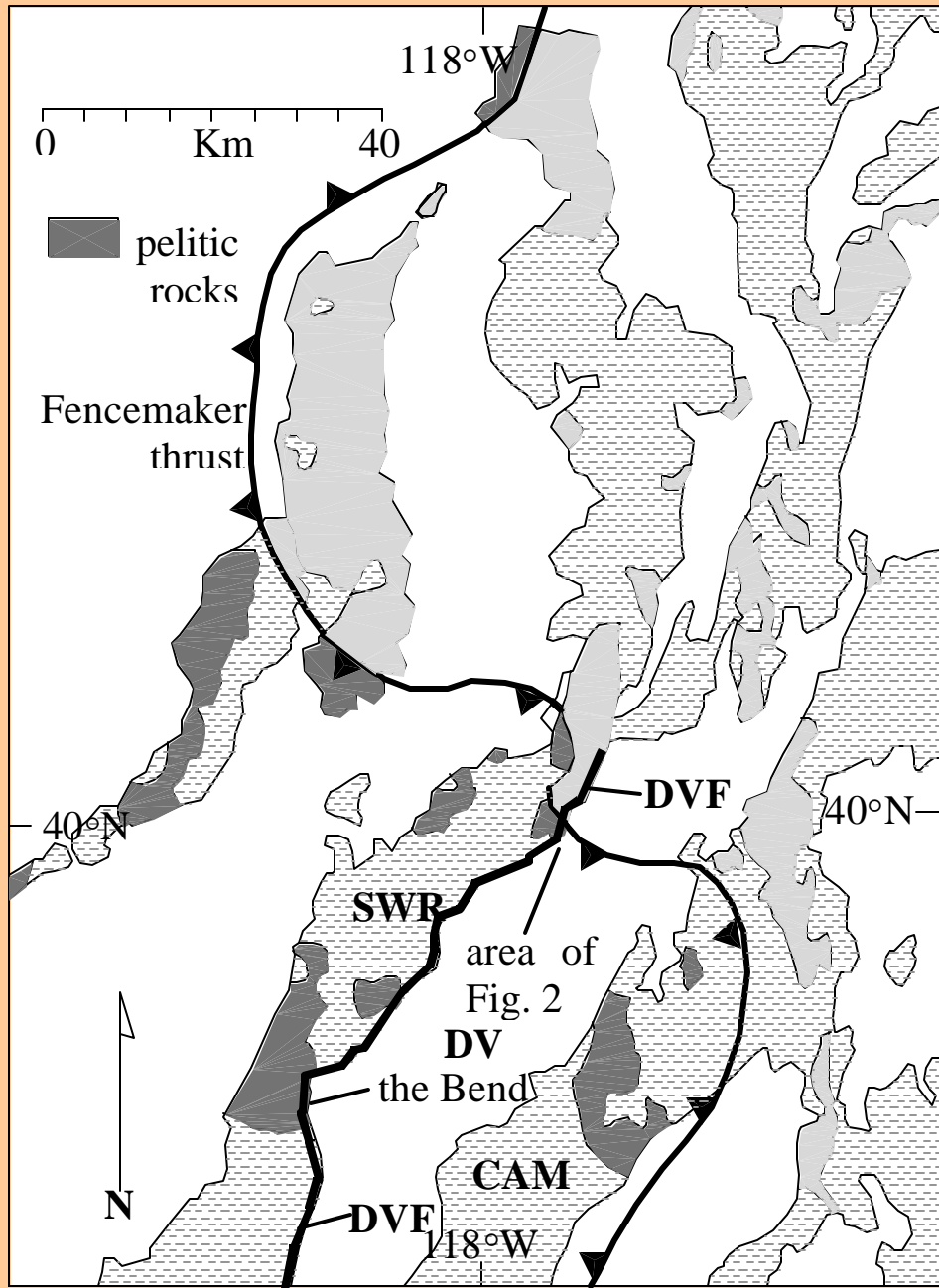




C.







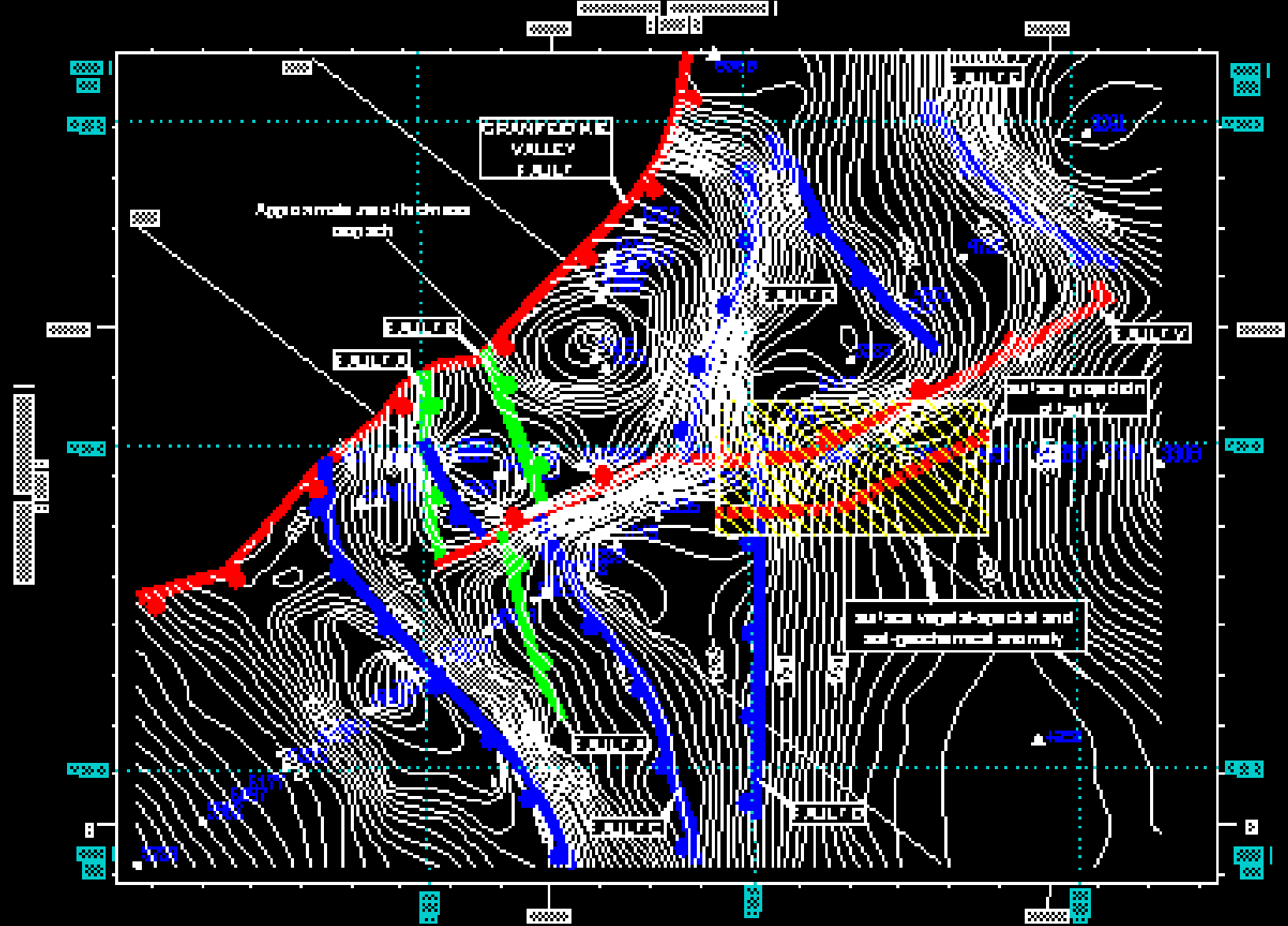




SUMMARY

- **Tectonic Stratigraphy is Similar in Footwall and Hanging wall. This is nothing new.**
- **Shape of the master range front is most likely ramp-flat. This is based on structural observations.**
- **Fault sets in the Range front appear to be present in the subsurface**

BASALT TO PCO MTD URS- DUGA- C-175 FT



CONCLUSIONS

- **Fault geometry may influence fracture orientation, and therefore may influence which fractures are open.**
 - **The question of fault geometry is important to future studies**
- **Dave Blackwell is somewhat suspicious of seismic images**