

Outcrop Analog for Lower Paleozoic Hydrothermal Dolomite Reservoirs \neq

EXCAVATION



quarry floor consisted of pick-axes and shovels, loose dolomite rubble and but the majority of the roughly two feet of overburden was removed limestone talus. Only a few using a skid-steer bucket pieces of in-situ dolomite loader. were exposed.



Prior to excavation, the Excavation began with

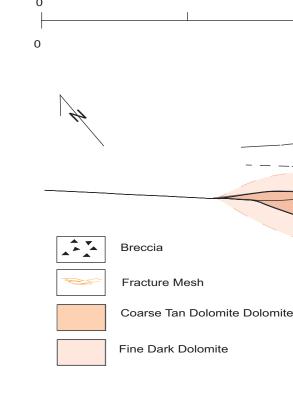


Once the structure had An air compressor been uncovered, high equipped with high 📐 pressure water was pressure hoses is 🕨 used to wash away the used to blow away remaining dirt and the dirt and mud that \mathbf{k} debris



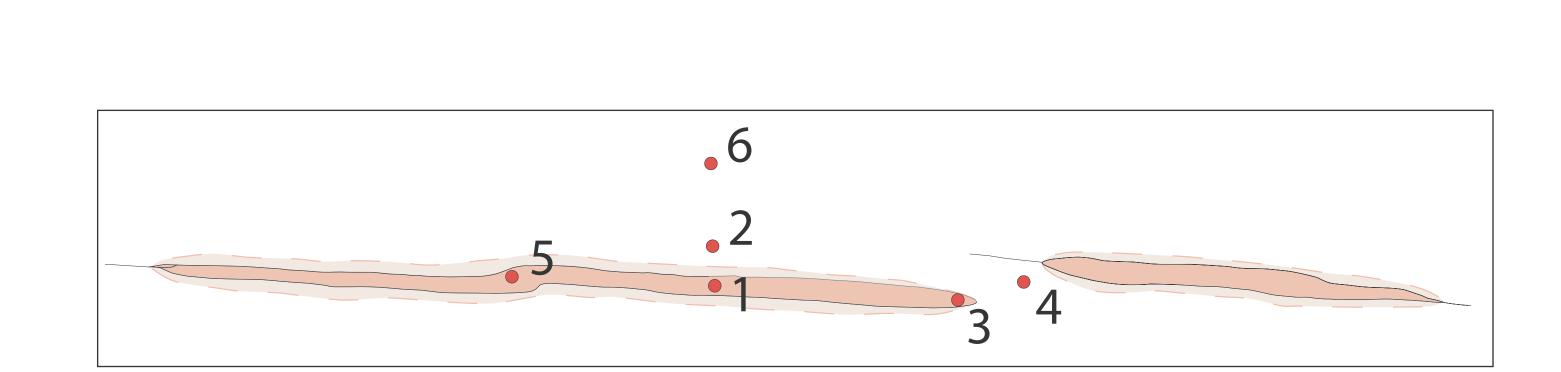
naturally accumulate over time.









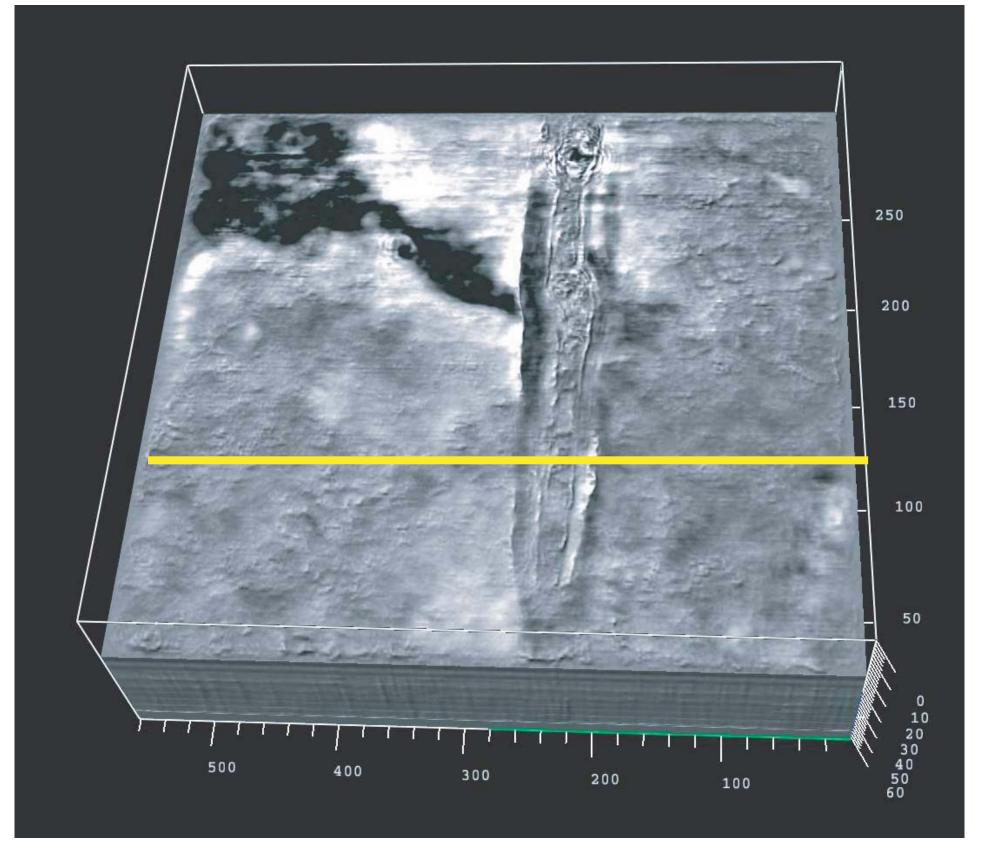


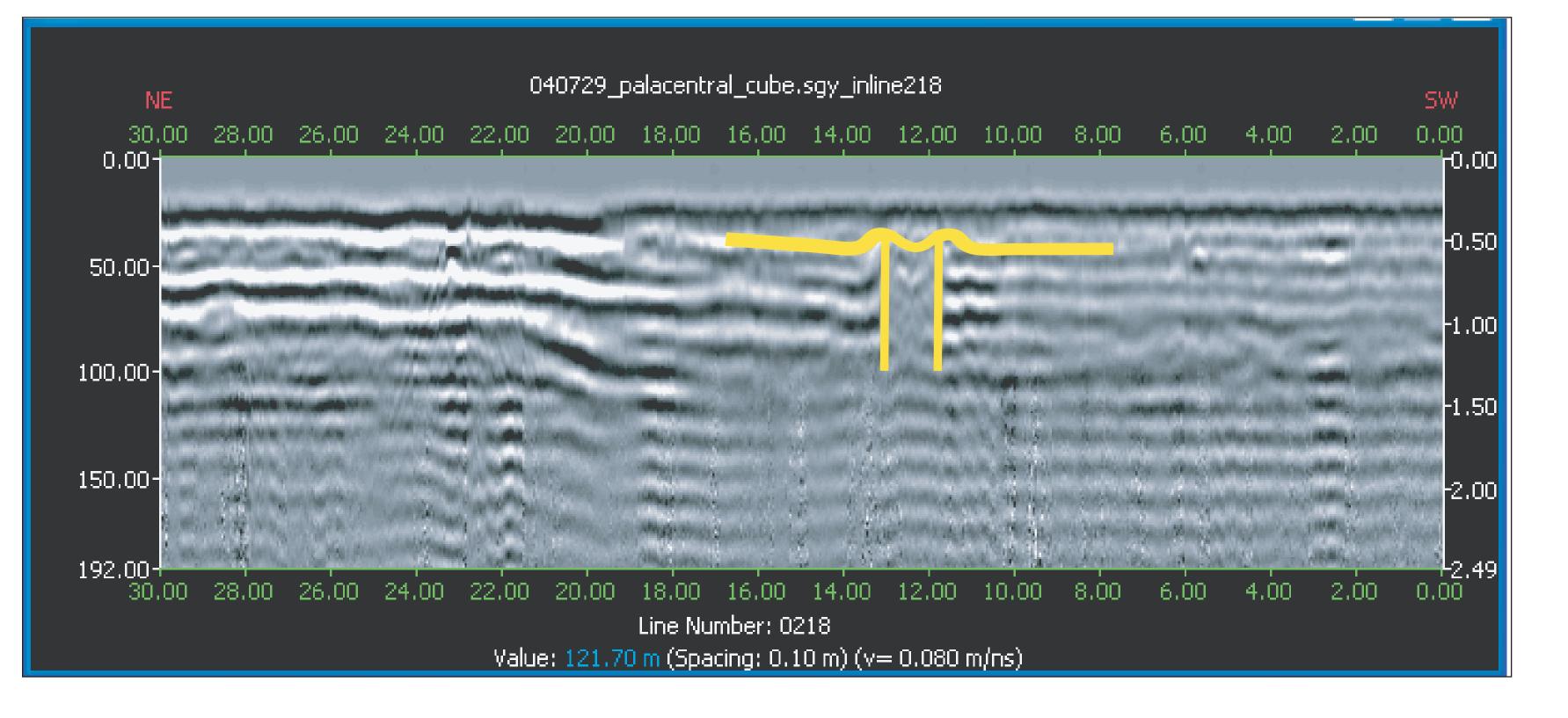


GROUND PENETRATING RADAR

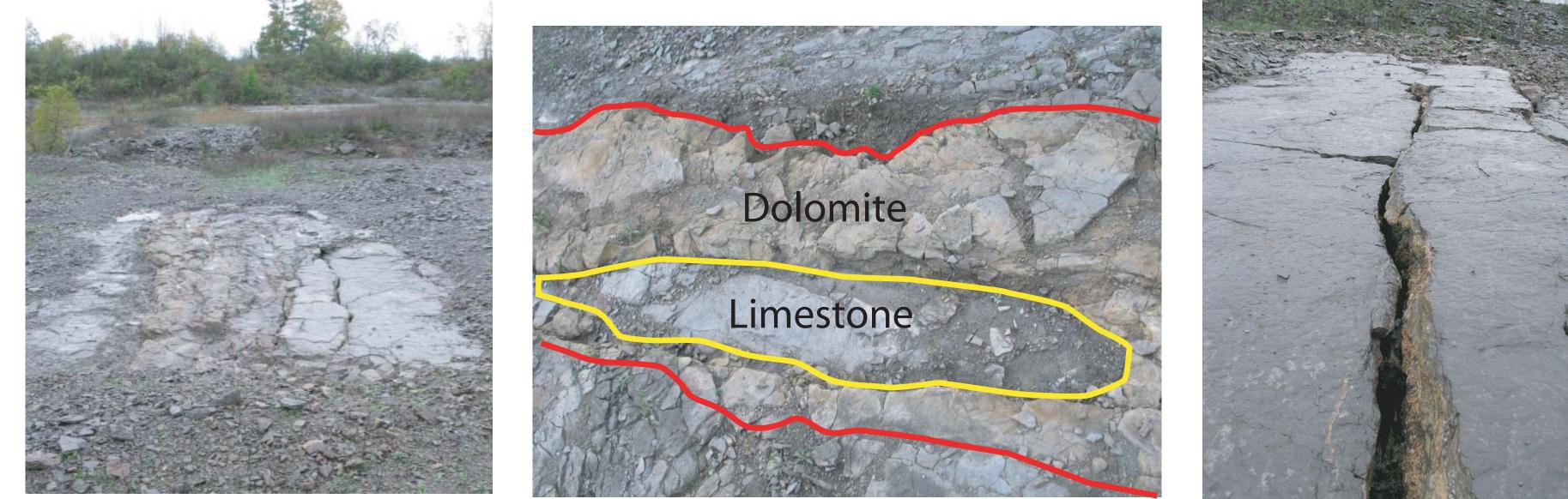


In the summer of 2004, before excavation was complete, a 3-D GPR survey was conducted in the area shown above. A 2-D slice from this survey s that the anticline flanked sag i not just a surface expression, but id evident at depth as well.



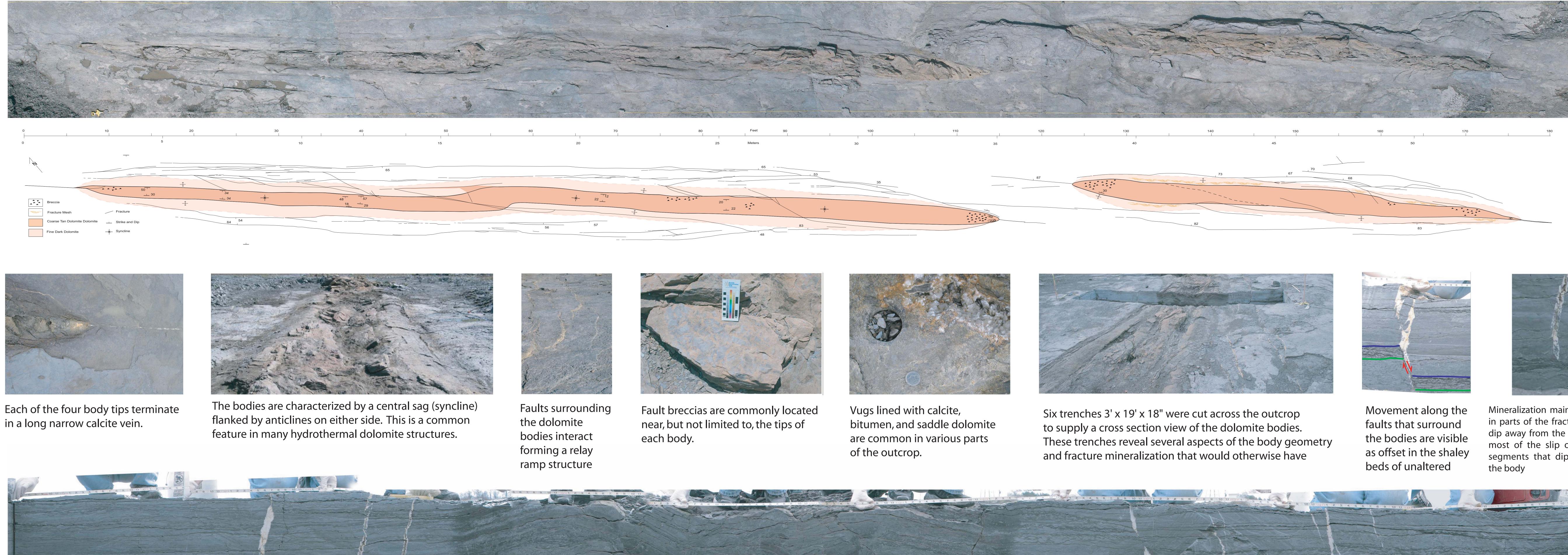


UPPER QUARRY



There is another exposure of dolomite in a separate section of the quarry. The features of this outcrop are similar to the main study site, however, there are patches of limestone within the dolomite body, and a large fracture with an opening greater than an inch. It is possible that open fractures surrounding a body may make better well targets than the dolomite bodies themselves.

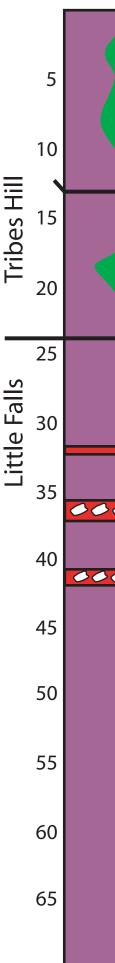
FIELD RELATIONS



In January of 2005 the Department of Transportation was contracted to drill a series of six 2" cores in and around the dolomite bodies. A map of the ore locations is provided above. The cross sections produced by from these cores helped make key observations would otherwise have gone unnoticed. One piece of core from Hole 2 @ 16 ft. (right) Is filled with vug lined by saddle dolomite crystals.



is consisten throughout the entire Tribes Hill formation. Hole 4, drilled into the limestone gap between the two bodies, is also dolomitized after crossing a fault at 3 ft. This indicates that bodies one and two are actually connected at depth.



CORES

