

Fruitland Coal Infill De Novo Hearing

Geologic Exhibits

BP

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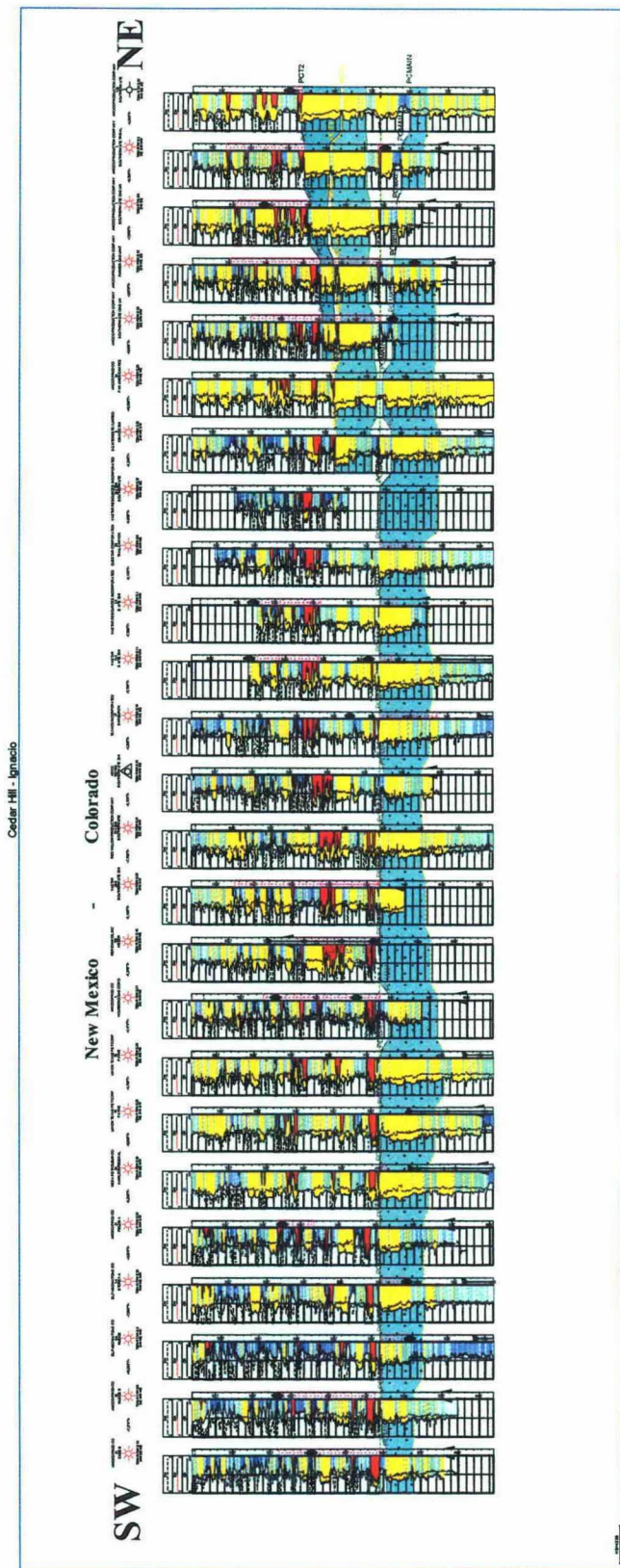
Summary Points

- The Fruitland coals were deposited in similar and related environments throughout the San Juan Basin
- The coals are laterally discontinuous at a scale locally approaching 80 acres
- The coals are vertically discontinuous at scales of millimeters to centimeters
- The coals are interrupted by both structural and stratigraphic features which cause additional discontinuities

Map of vegetation variation in the Okefenokee Swamp, Georgia and Florida.

- Individual performance units may occur with a single layer only 1mm thick
- Individual biosomes approach 50 to 100 acres in some areas

SW – NE Stratigraphic Cross-section



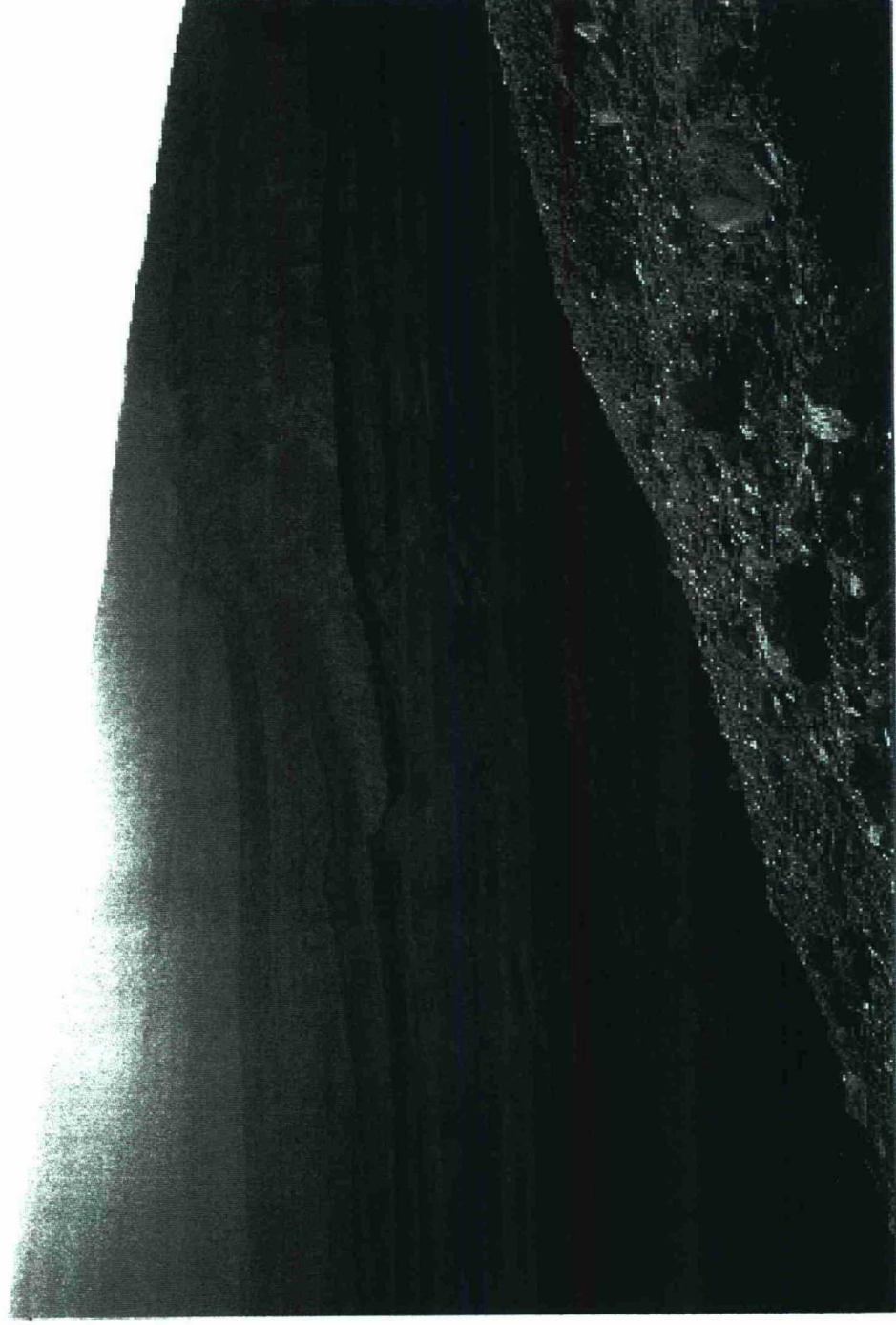
Channel truncation of coals



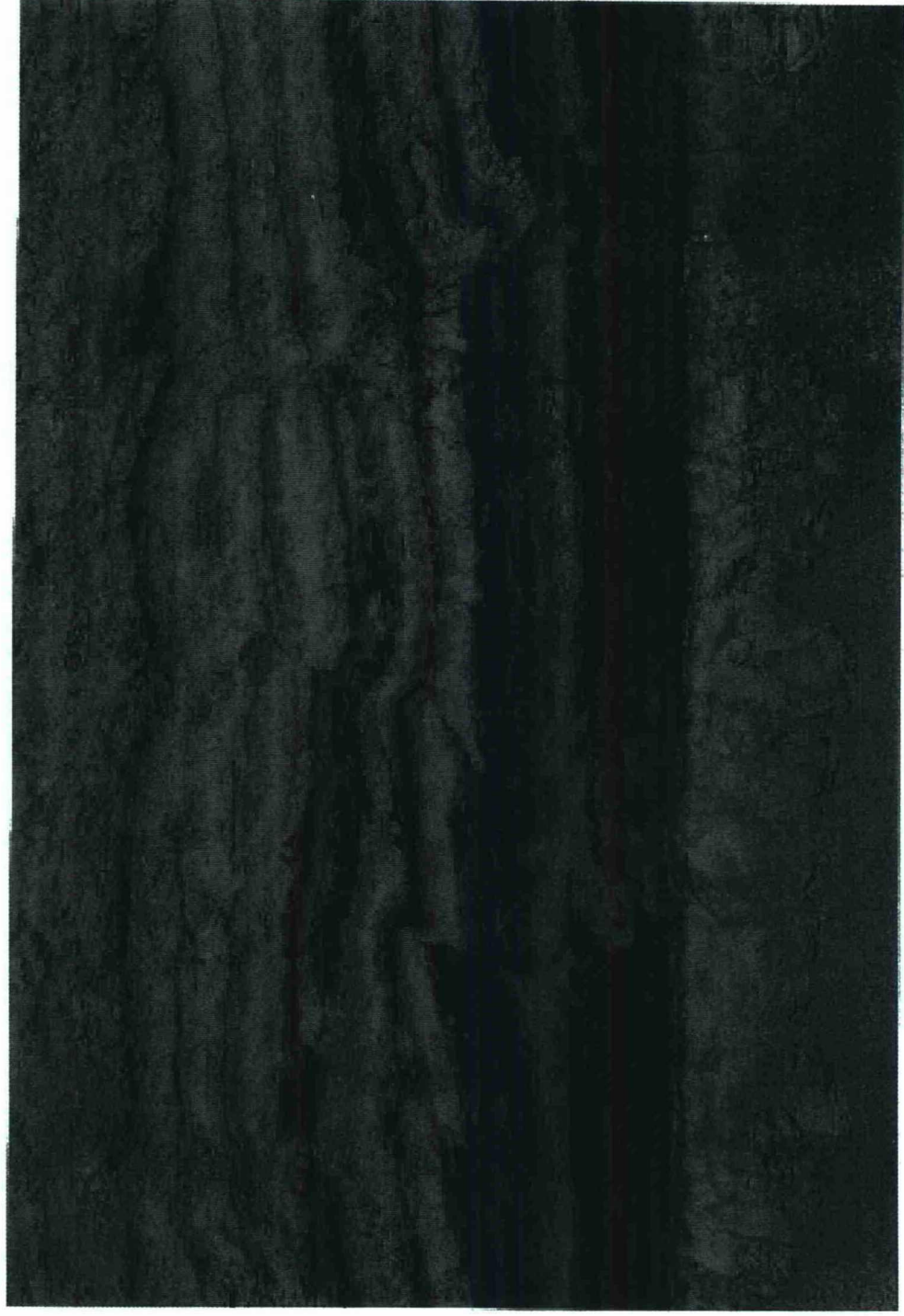
Vertical stratigraphic variations in the Fruitland coals at San Juan Mine.



Syn depositional faulting in the Fruitland coals at Navajo Mine.



Syn depositional faulting in the Fruitland coals at
San Juan Mine.



Faulting of coals



Summary points which my exhibits and discussion should leave:

- The coals were uniformly deposited across the basin.
- Features which influenced depositional environments and structural discontinuities in the coals are ubiquitous across the basin.
- Discontinuities, both stratigraphic and structural, occur at high frequency vertically and laterally across the basin.
- Outcrop evidence confirms the interpretations we are offering of the subsurface environment.