

Fruitland Coal Infill De Novo Hearing

San Juan Basin Geological Setting for
Fruitland Coal

Fruitland Coal Infill De Novo Hearing

Geologic Exhibits

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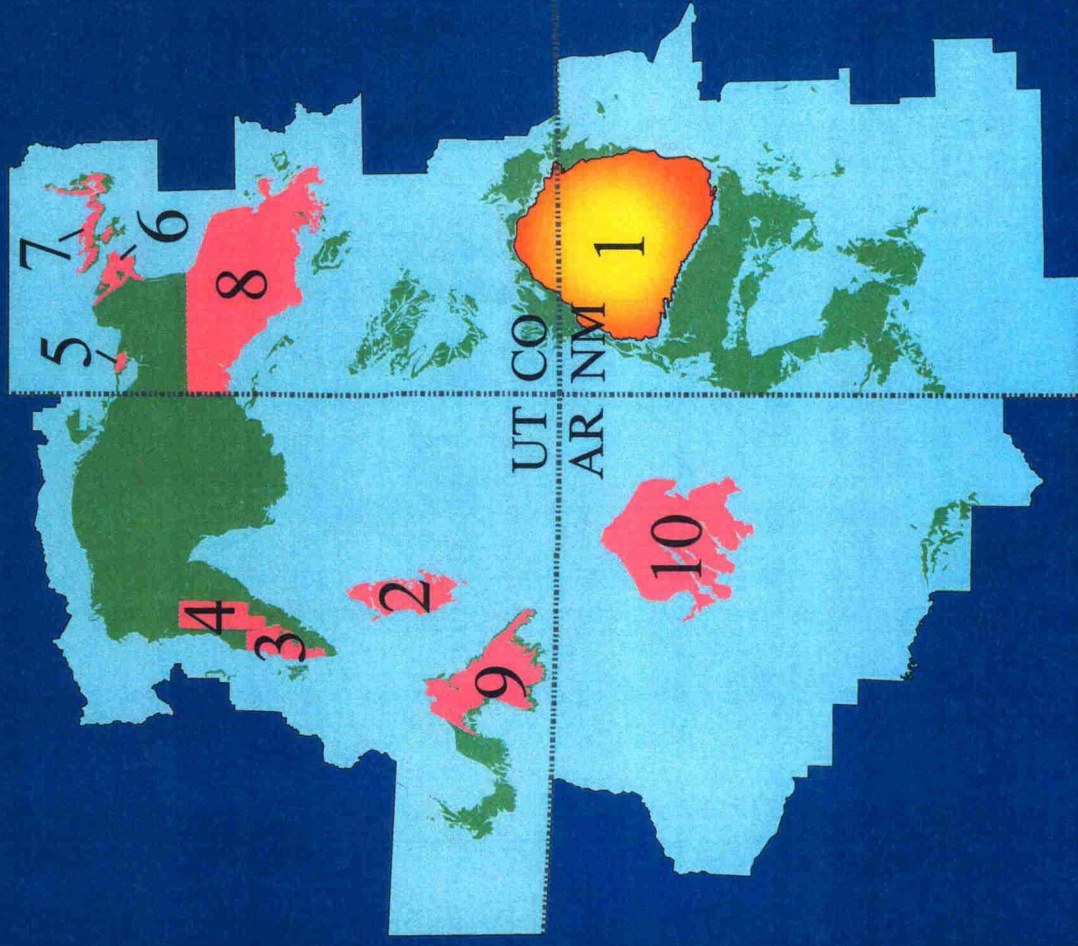
DISTRIBUTION OF FRUITTLAND FORMATION COAL BEDS IN SPACE AND TIME

USGS NATIONAL COAL ASSESSMENT

Cretaceous coal fields - Colorado Plateau

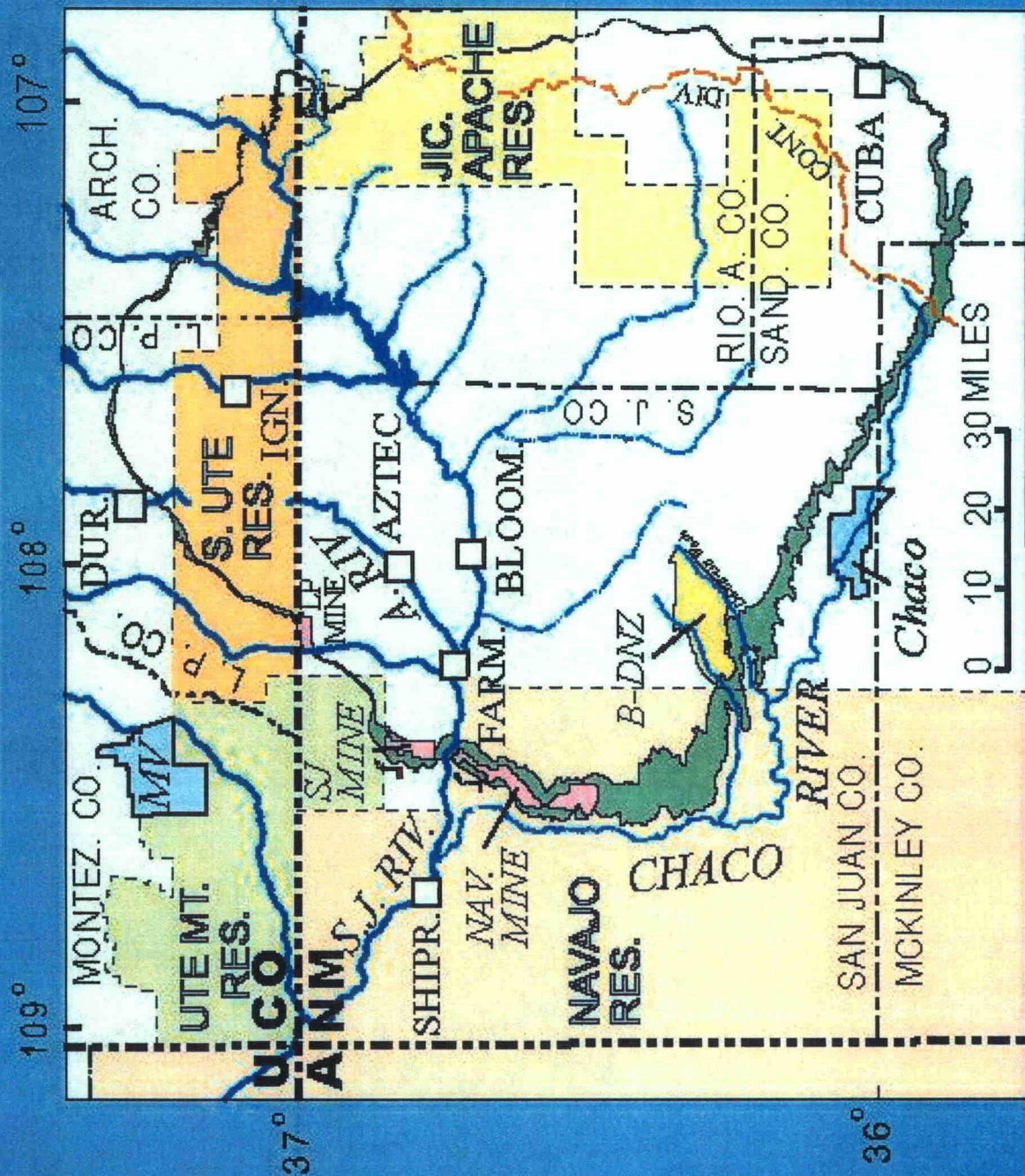
COAL STUDY AREAS

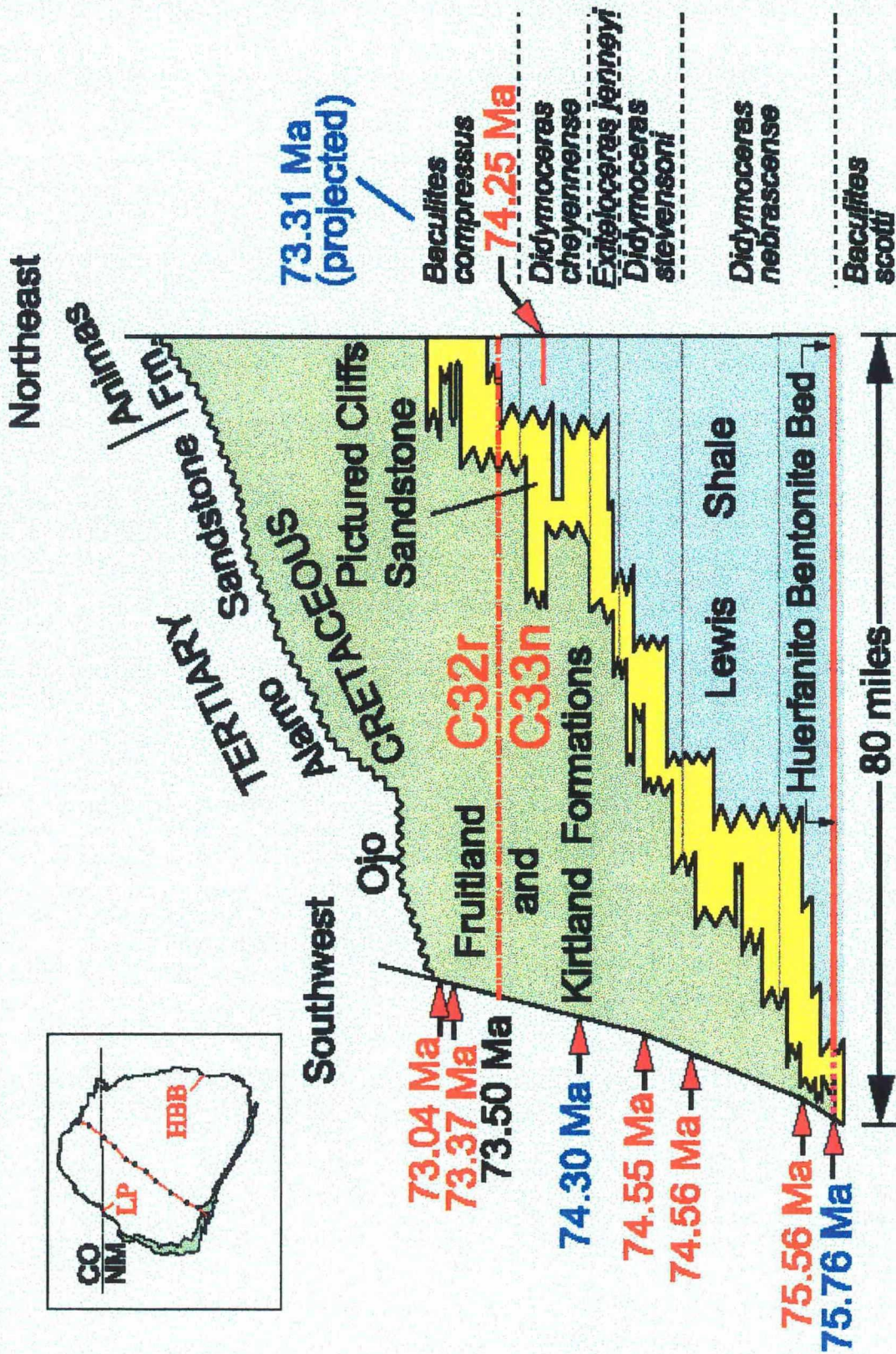
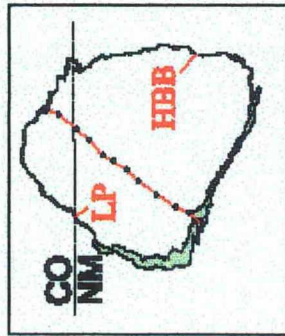
1. SAN JUAN BASIN
2. Henry Mountains
3. South Wasatch Plateau
4. North Wasatch Plateau
5. Lower White River
6. Danforth Hills
7. Yampa
8. South Piceance Basin
9. Kaiparowits Plateau
10. Black Mesa Basin



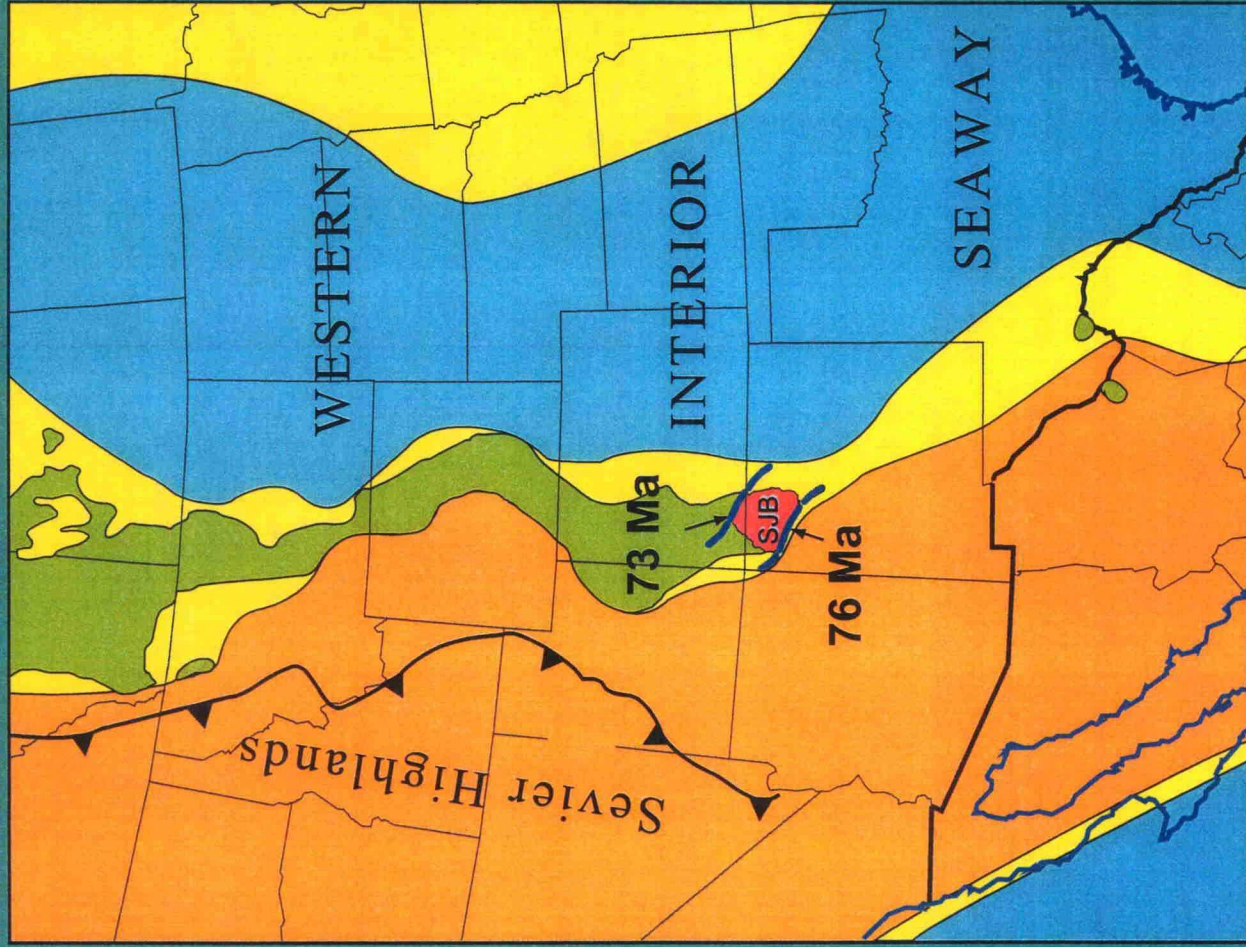
USGS PP 1625-B
CD-ROM, 2000

INDEX MAP

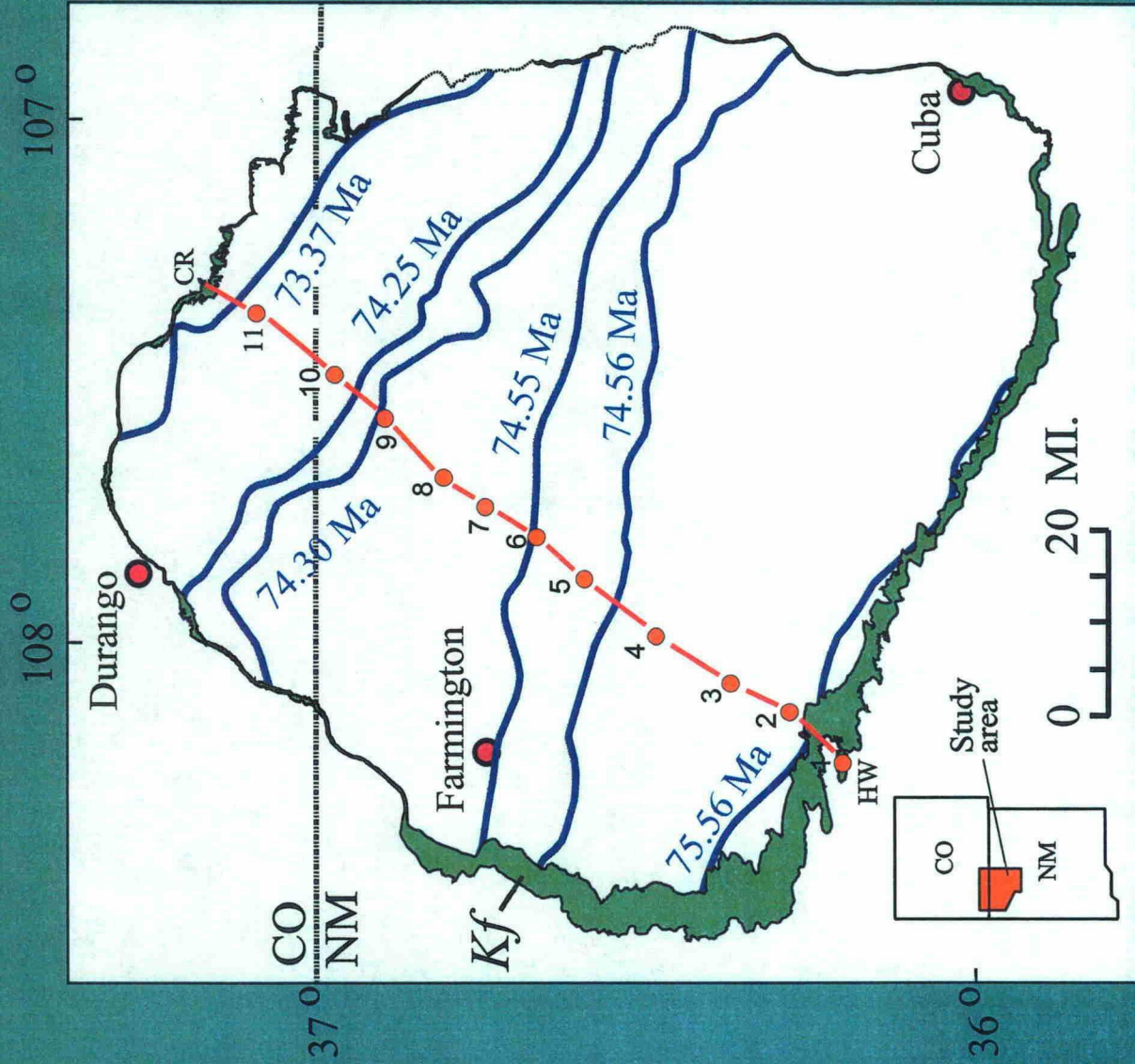




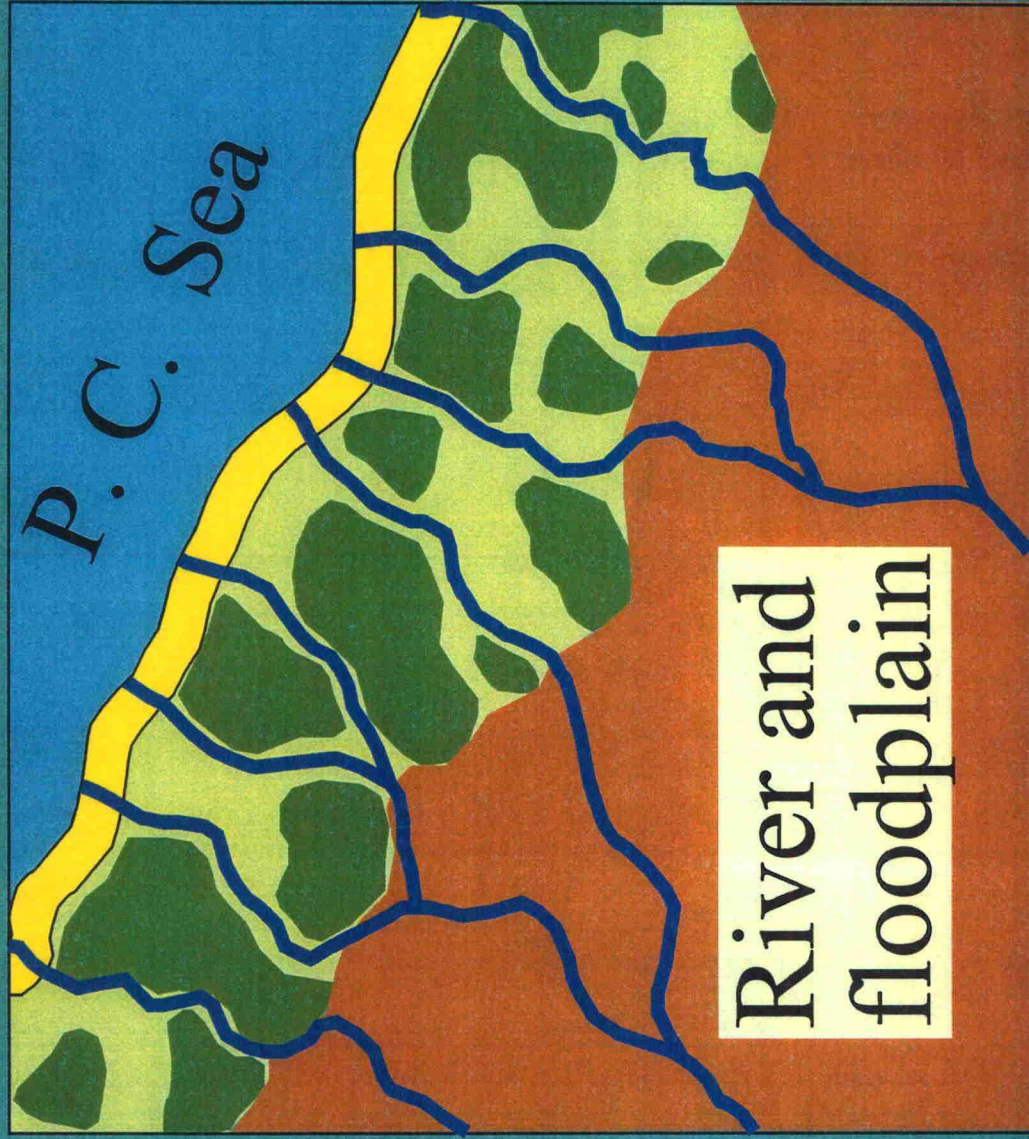
PALEOGEOGRAPHIC MAP -- ABOUT 72 MA



P.C. SHORELINE POSITIONS



FRUITLAND AND COAL-SWAMP ENVIRONMENT



— Back-shore Fruitland coal swamp

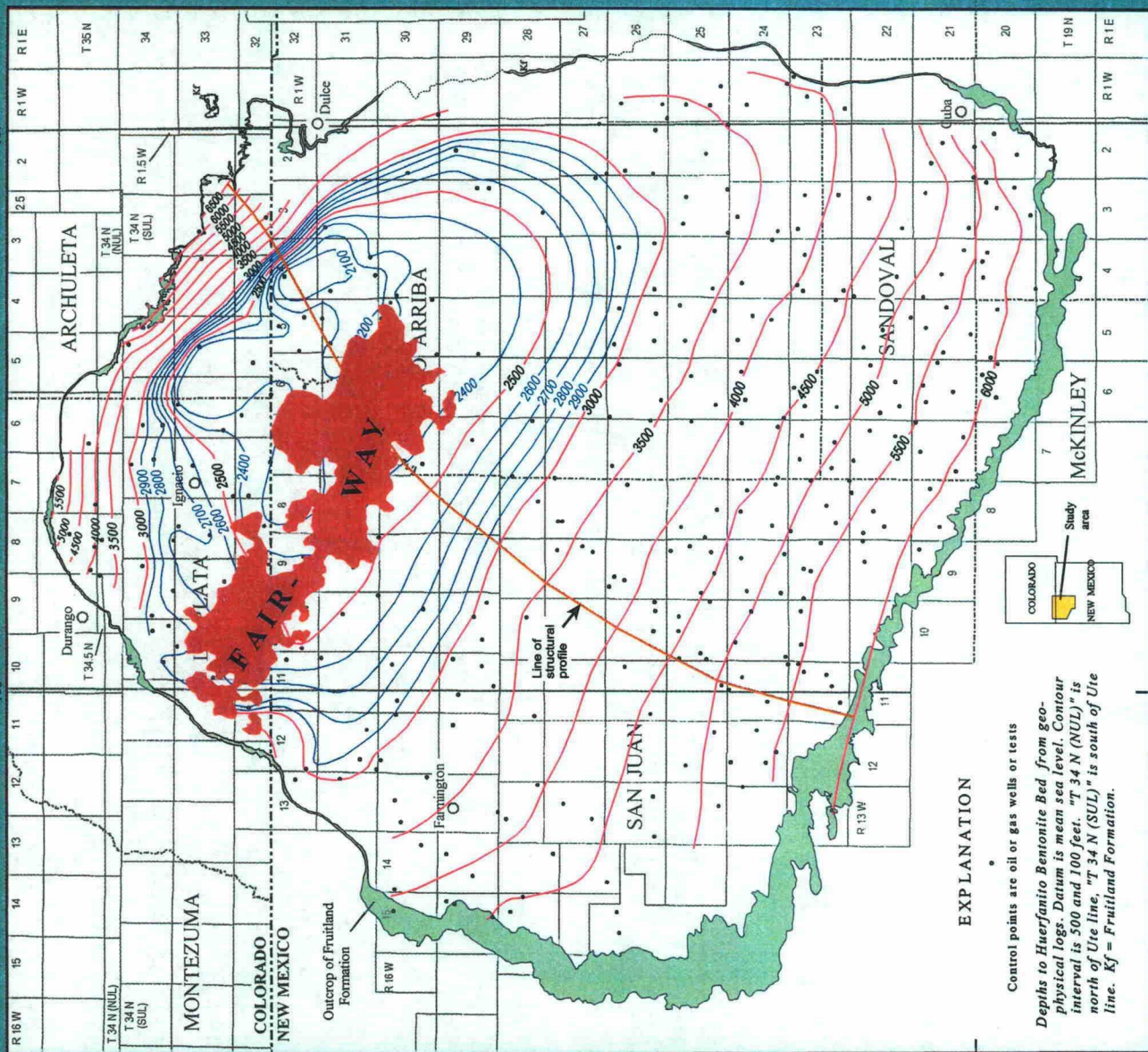
EXPLANATION

Control points are oil or gas wells or tests

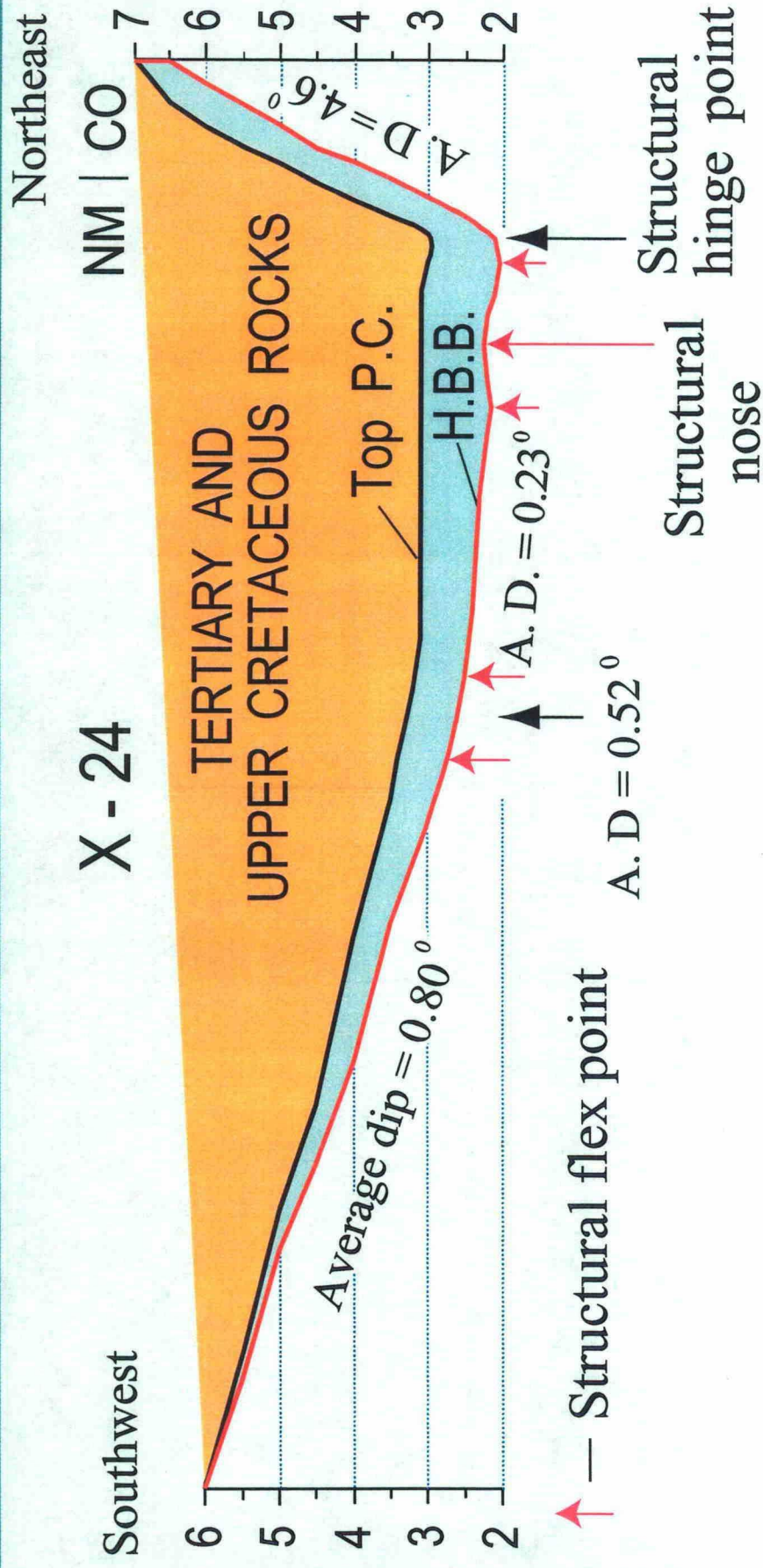
Depths to Huerfano Bentonite Bed from geophysical logs. Datum is mean sea level. Contour interval is 500 and 100 feet. "T 34 N (NUL)" is north of Ute line, "T 34 N (SUL)" is south of Ute line. Kf = Fruitland Formation.

Control points are oil or gas wells or test depths to Huerfano Bentonite Bed from geophysical logs. Datum is mean sea level. Contour interval is 500 and 100 feet. "T 34 N (NUL)" is south of Ute line, "T 34 N (SUL)" is south of Ute line. Ky = Fruitland Formation.



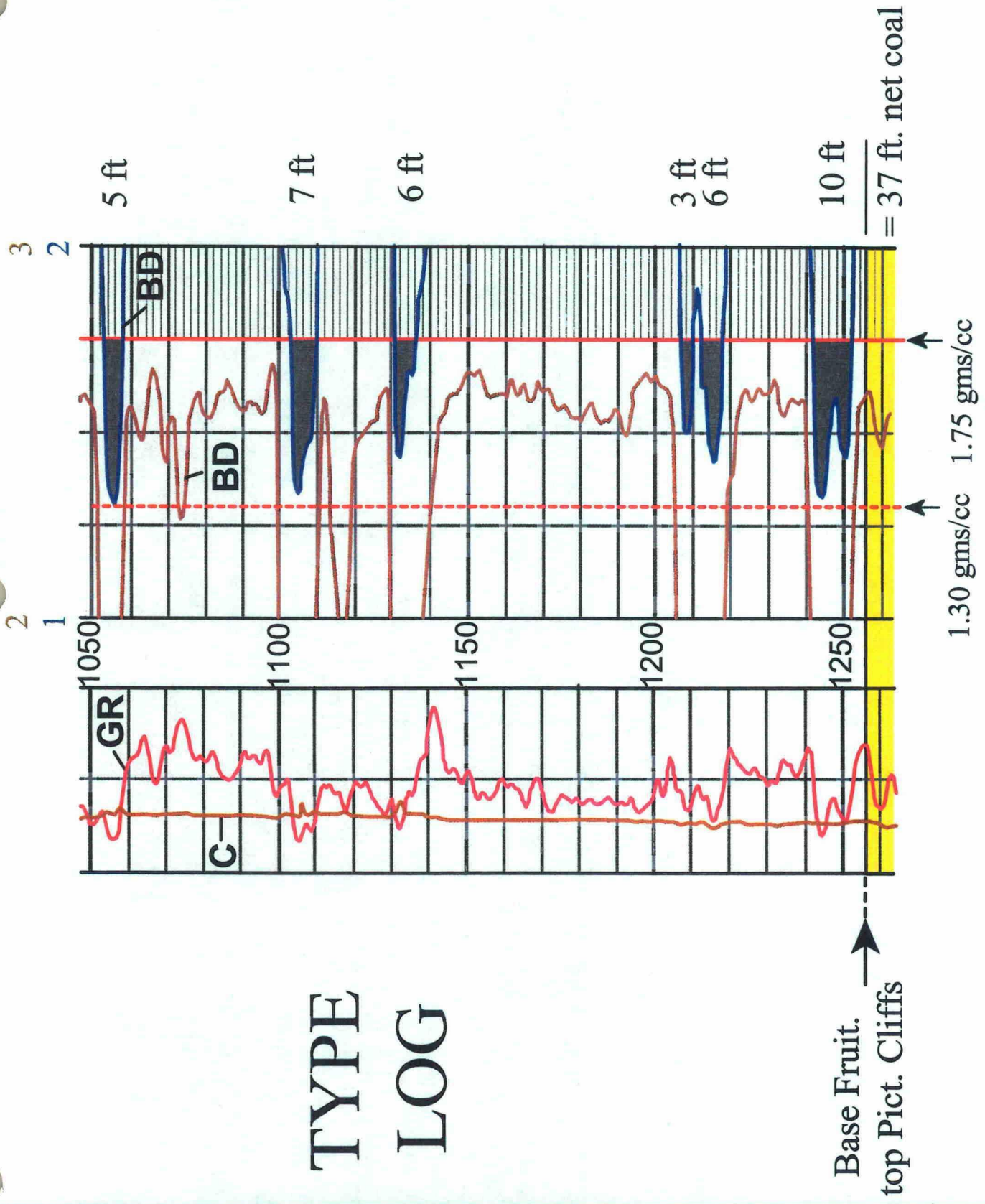


STRUCTURAL PROFILES

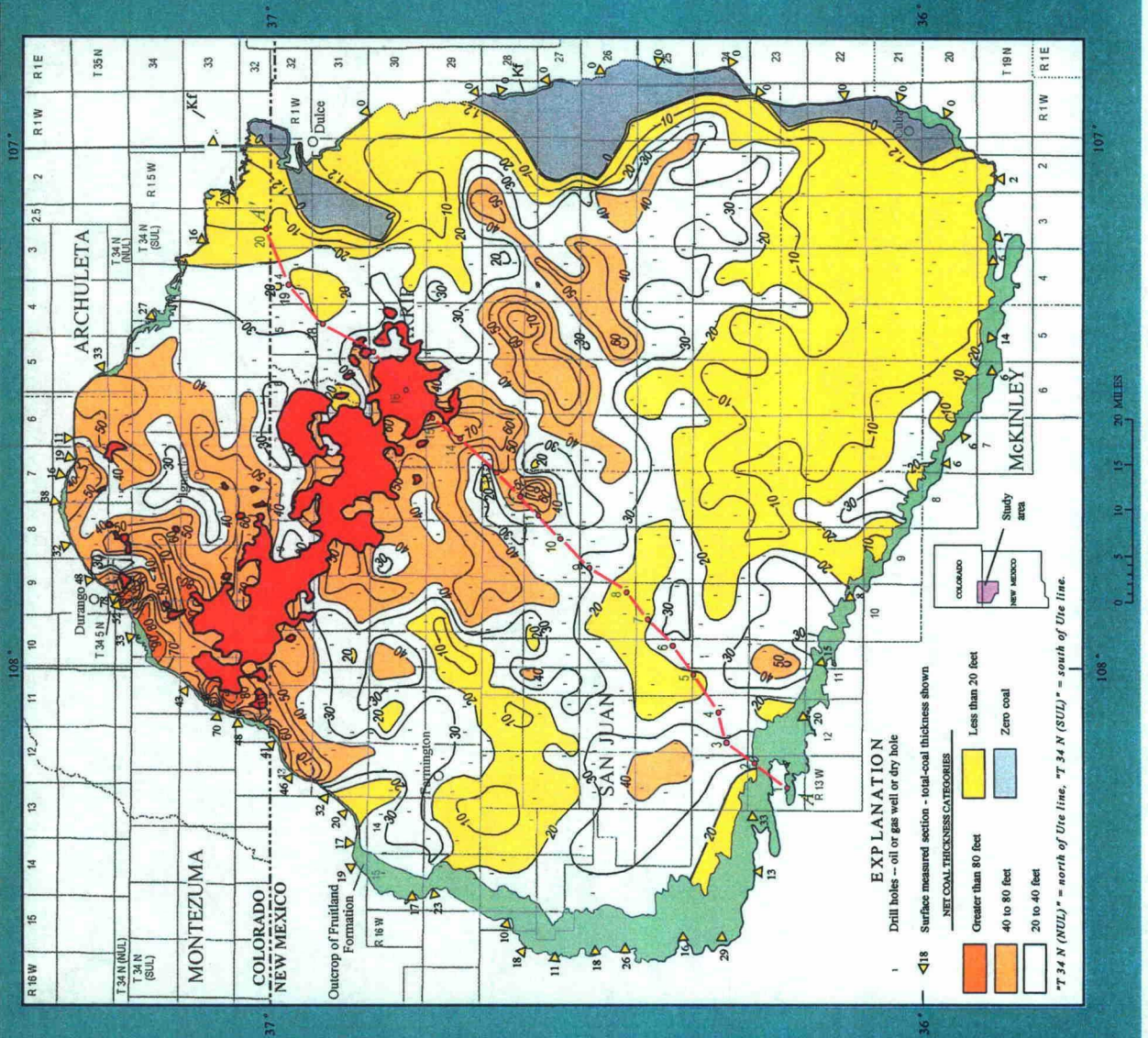


1 to 1 profile - no vertical exaggeration

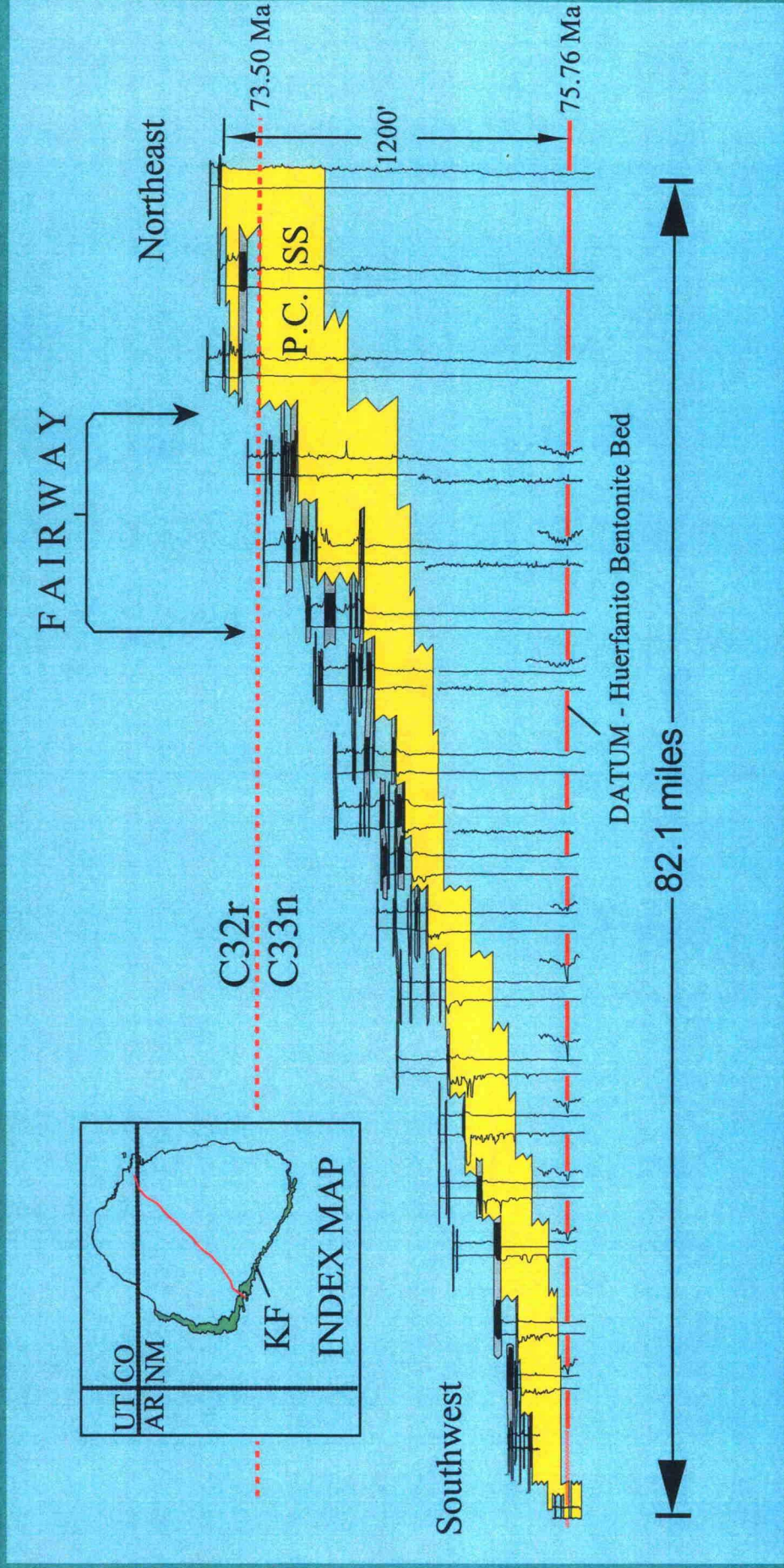
TYPE LOG



NET-COAL ISOPACH MAP FRUITLAND FORMATION COAL BEDS



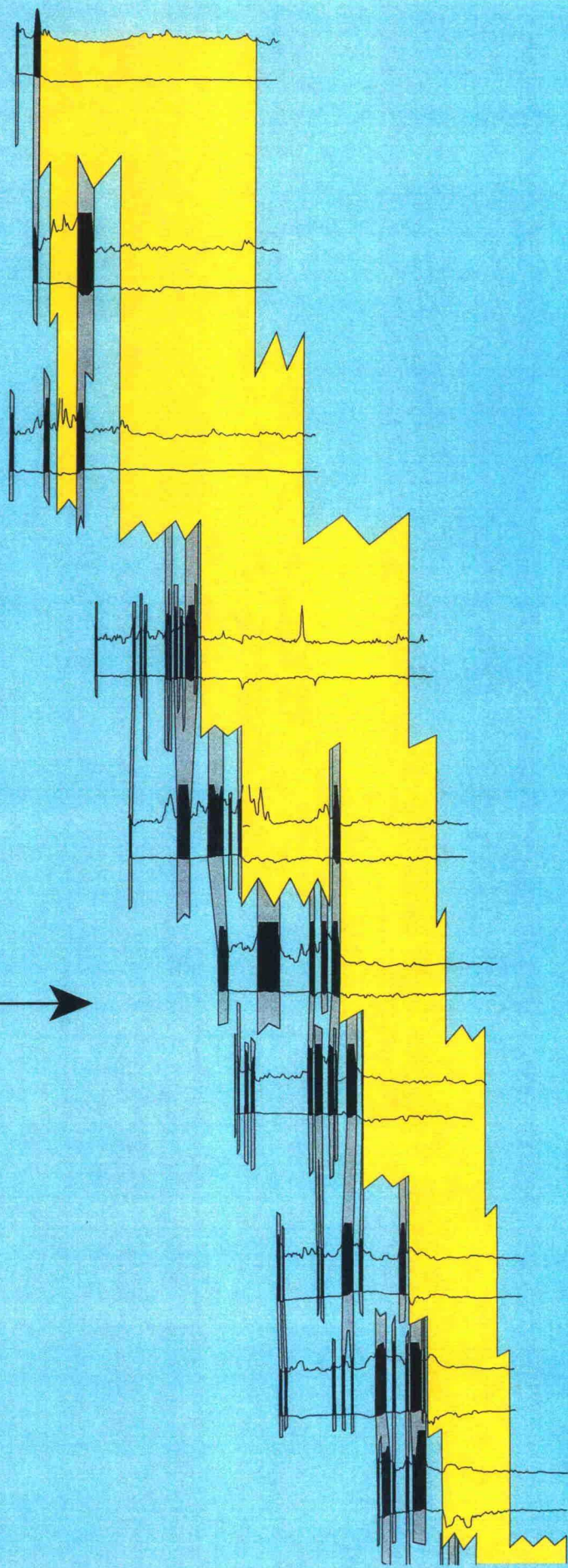
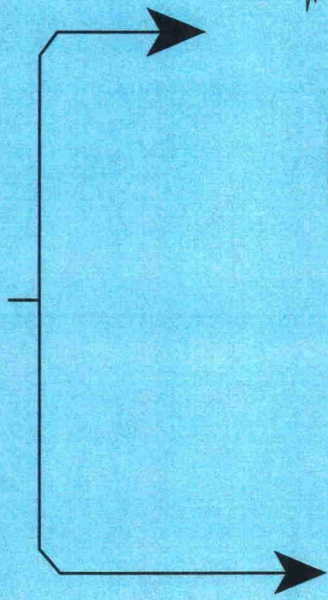
STRATIGRAPHIC CROSS SECTION SHOWING GEOMETRY AND DISTRIBUTION OF FRUITLAND FORMATION COAL BEDS



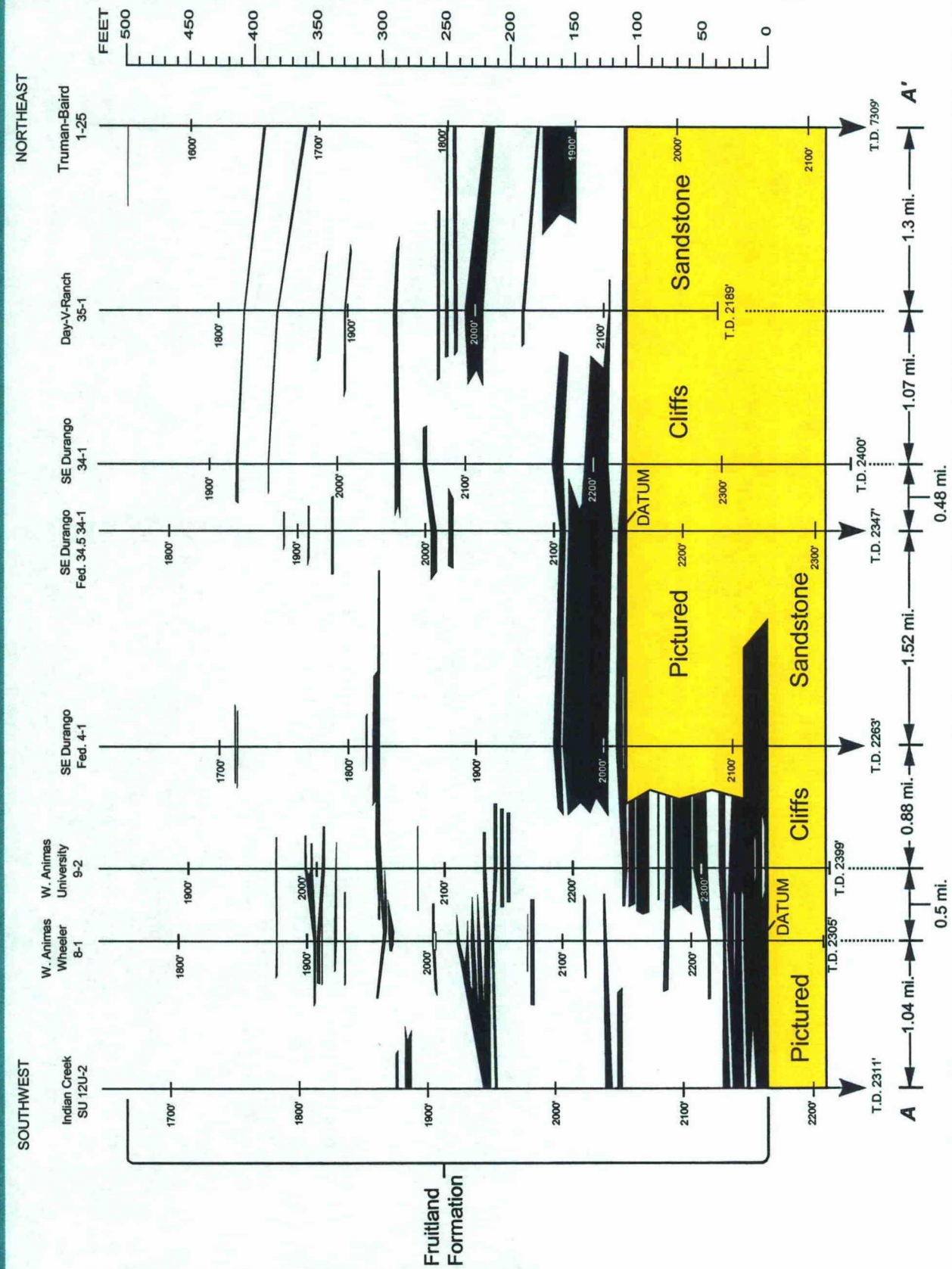
Modified from Fassett (2000), Chapter Q, USGS Professional Paper 1625-B

FRUITLAND COALS -- NE SJ BASIN

FAIRWAY



COAL-BED CORRELATIONS -- S. OF DURANGO



CONCLUSION

Fruitland coal beds are:

DIS-CON-TIN-

U-OUS!