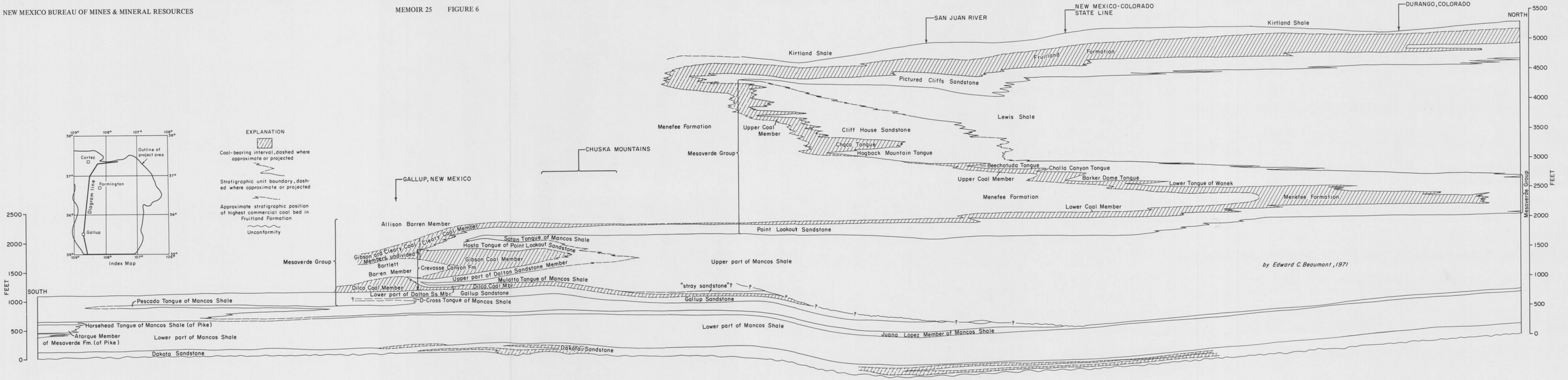


Figure 6

STRATIGRAPHIC DIAGRAM SHOWING RELATIONSHIPS OF COAL-BEARING CRETACEOUS ROCKS ON THE WEST AND NORTH SIDES OF SAN JUAN BASIN

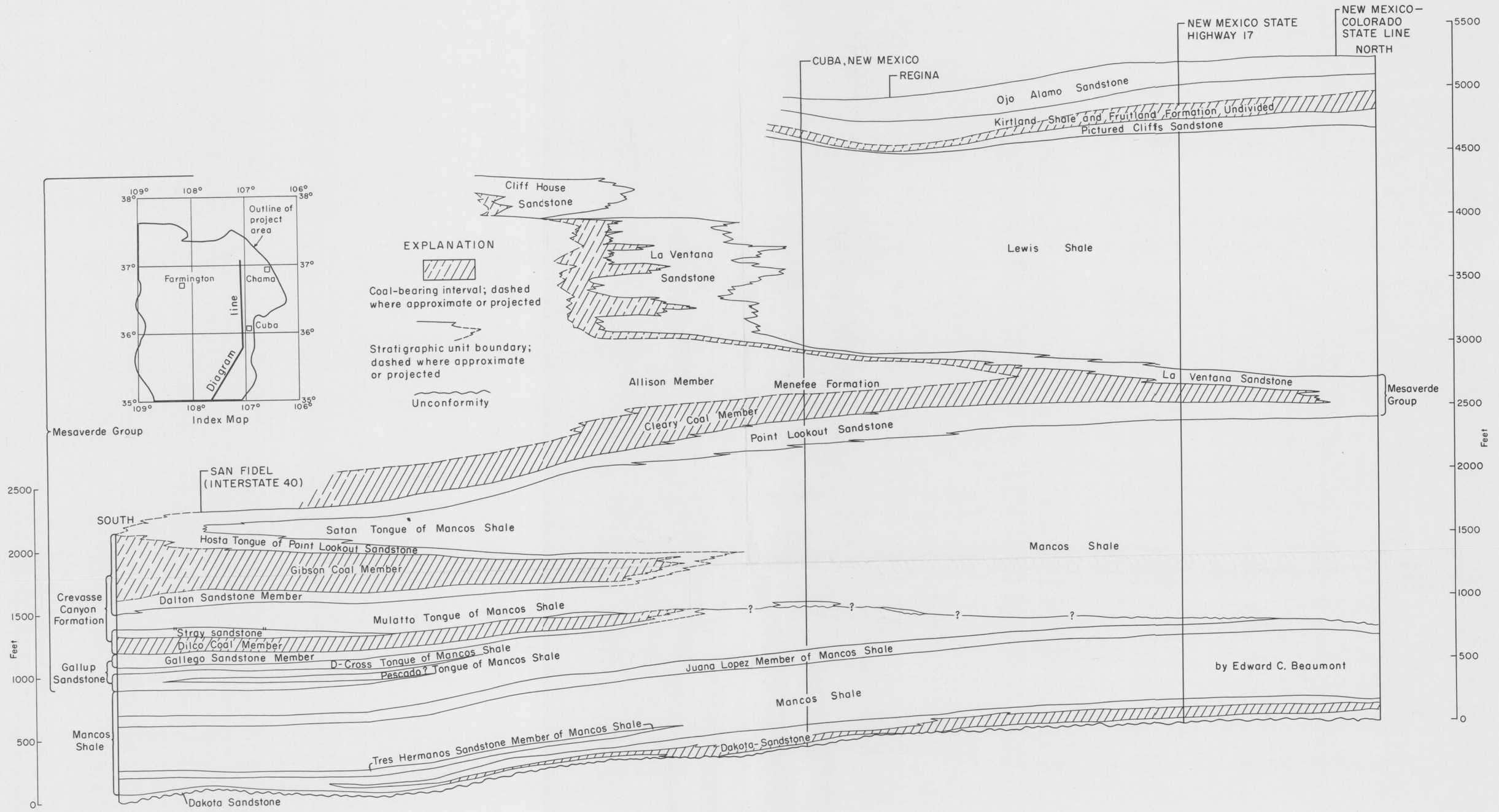


Figure 7

STRATIGRAPHIC DIAGRAM SHOWING RELATIONSHIPS OF COAL-BEARING CRETACEOUS ROCKS ON THE EAST SIDE OF SAN JUAN BASIN

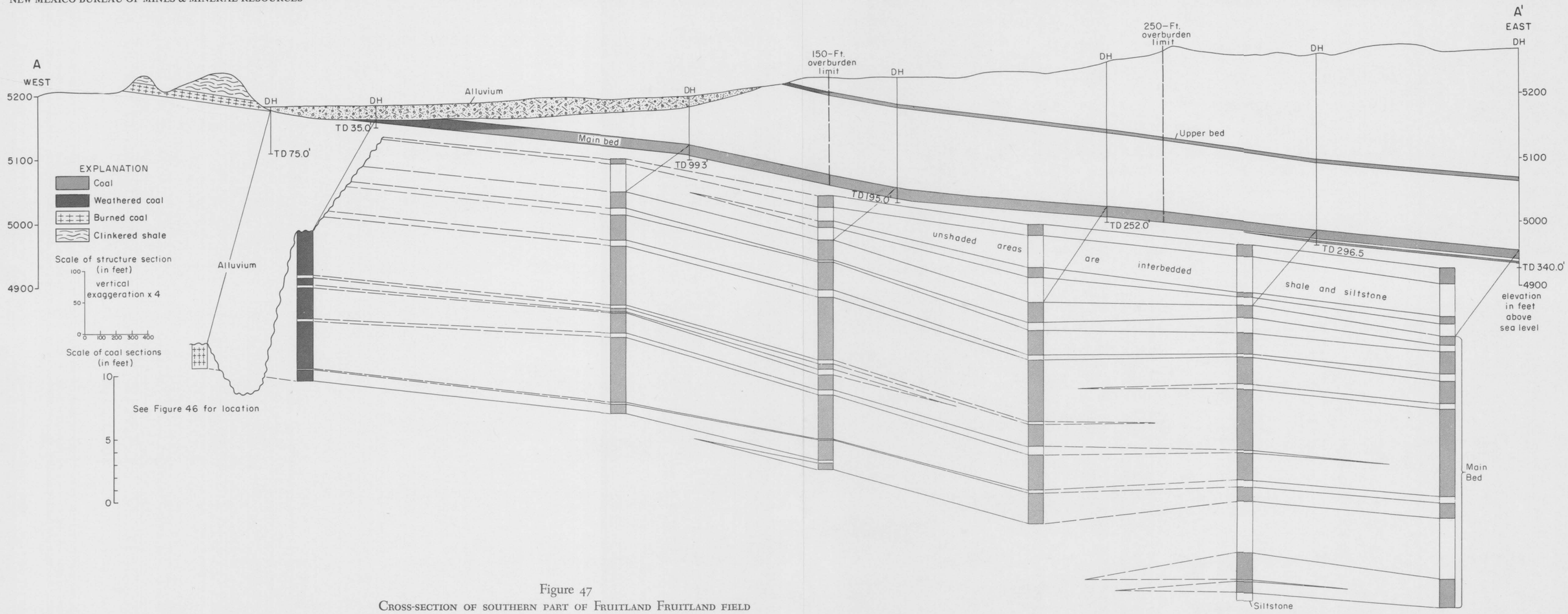


Figure 47
Cross-section of southern part of Fruitland Fruitland field

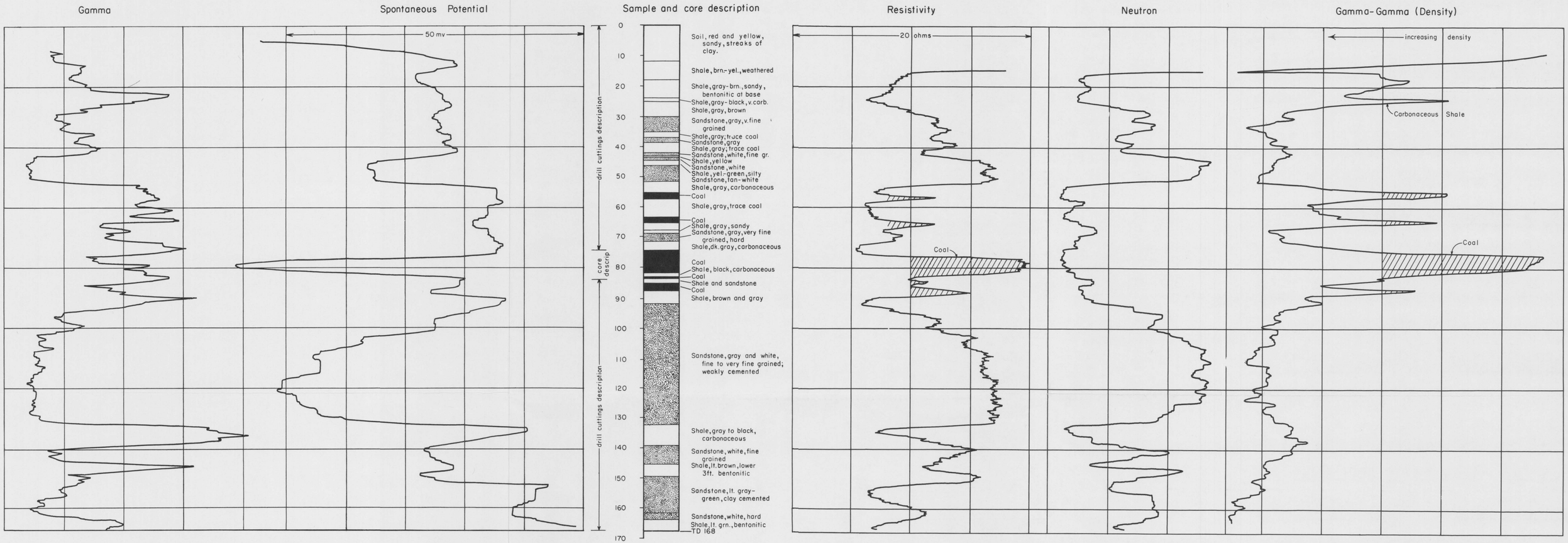
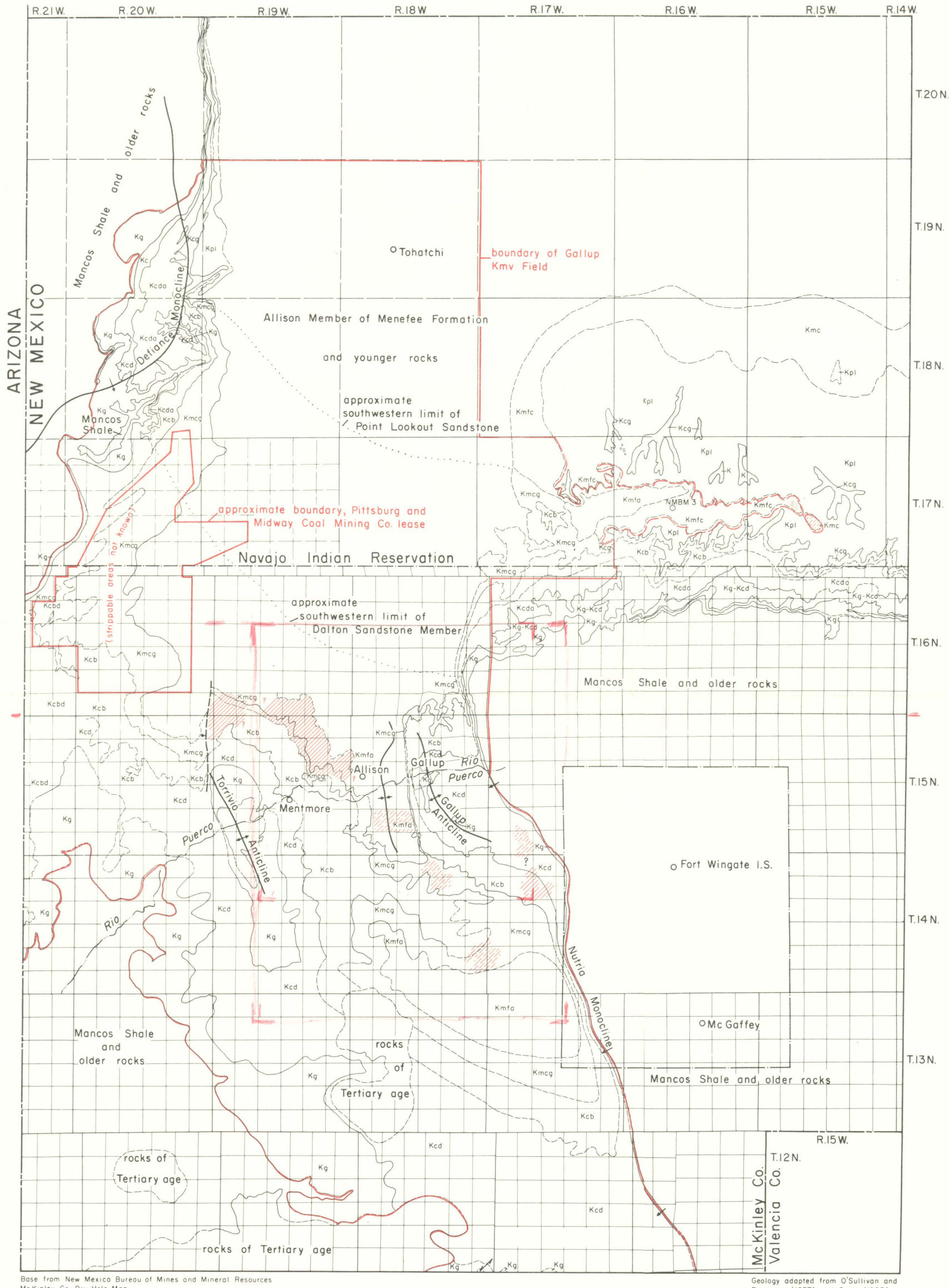


Figure 59

DIAGRAM ILLUSTRATING TYPICAL ELECTRICAL-LOG CURVES AND COMPARISON WITH SAMPLE AND CORE DESCRIPTION, TEST HOLE No. 8
RESPONSE TO COAL OF RESISTIVITY AND GAMMA-GAMMA (DENSITY) CURVES INDICATED BY CROSSHATCHING



EXPLANATION

Kmfa / Kmfc — Menefee Formation
Tan and brown sandstone, gray and brown claystone and shale, and coal. Divided into barren Allison Member (Kmfa) and coal-bearing Cleary Member (Kmfc).

Kpl — Point Lookout Sandstone
Tan and brown sandstone, minor gray shale

Kmcg / Kcg / Kcb / Kcbd / Kcdg / Kcd — Crevasse Canyon Formation
Lenticular tan and brown sandstone, drab shale and claystone, and coal. Divided into coal-bearing Gibson Member (Kcg), barren Bartlett Member (Kcb), Dalton Sandstone Member (Kcda), and coal-bearing Dilco Member (Kcd). Combined Gibson Member and Cleary Member of Menefee Formation (Kmcg) shown where intervening Point Lookout Sandstone is absent. Bartlett and Dilco Members mapped together (Kcbd) in western part of area.

Kg — Gallup Sandstone
Tan, brown, and pinkish sandstone with minor shale

Geologic Contact
Dashed where uncertain

Fault
Dashed where inferred. Symbol indicates downthrown side

Anticlinal axis

Monoclinal axis

Synclinal axis

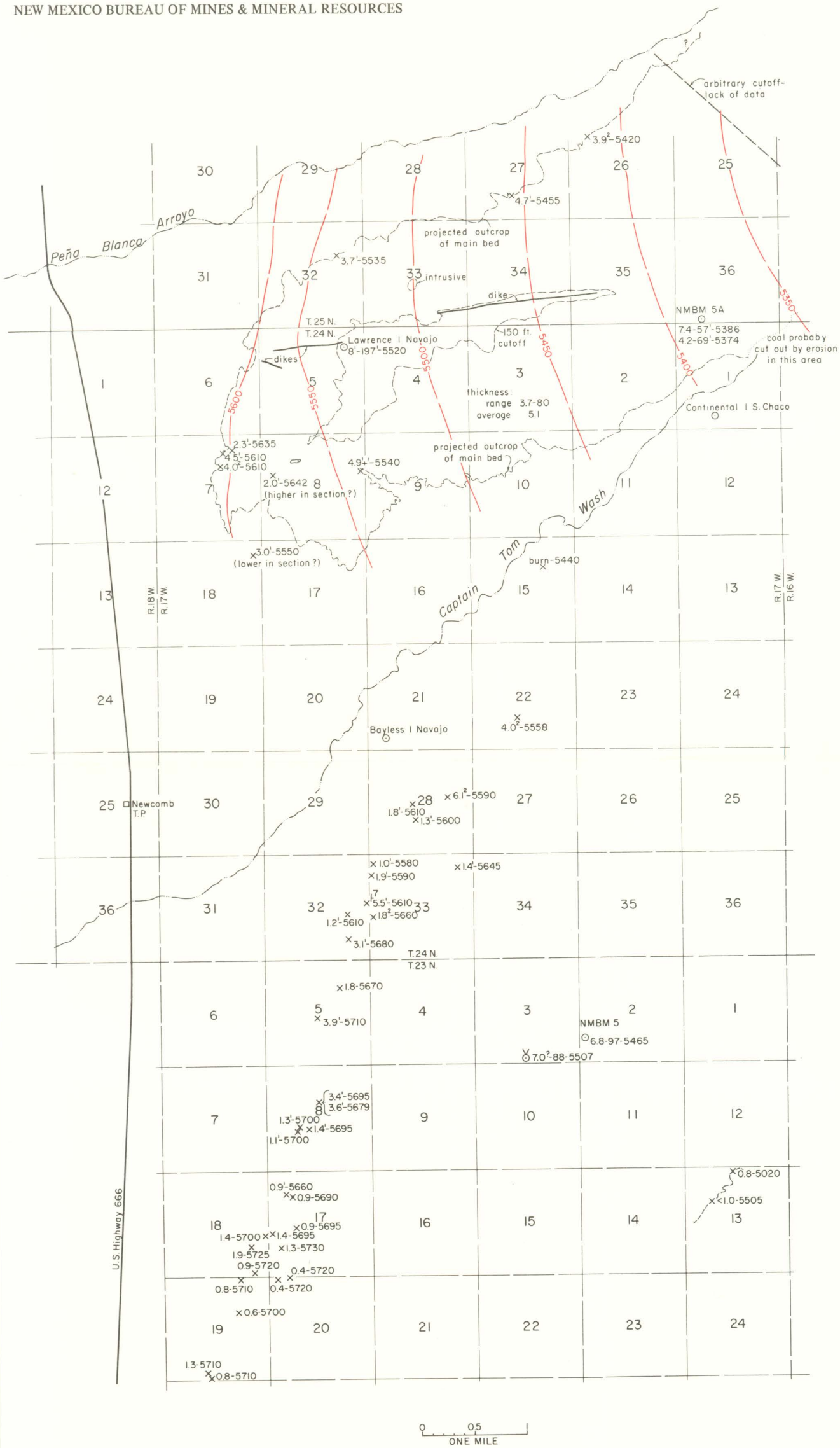
Areas of strippable coal outside Pittsburg and Midway Coal Mining Co. lease. Broken ruling indicates conjectural areas.

Base from New Mexico Bureau of Mines and Mineral Resources
McKinley Co. Dry-Hole Map

0 1 2 3 4 5
MILES

Geology adapted from O'Sullivan and Beaumont (1957) and Sears (1925)

Plate 1
Map showing simplified geology and areas of strippable coal for Gallup Mesaverde field



EXPLANATION

$\times 4.0^{2}$-5610

Outcrop measurement, showing aggregate thickness of coal beds, number of beds measured (indicated by superscript) and elevation of top of uppermost bed.

NMBM 5A
7.4-57'-5386
4.2-69'-5374

N.M. Bureau of Mines coal test hole; showing thickness, depth to top, and elevation of top for each major coal bed.

Lawrence I Navajo
8-197'-5520

Oil or gas test hole, showing thickness, depth to top, and elevation of top for each major coal bed.

7.0-88-5507

Water well, showing thickness, depth to top and elevation of top for each major coal bed.

5550

Structure contours on top of main coal bed, contour interval 50 feet, dashed where uncertain.

Plate 2

Map showing coal data near Captain Tom Wash, Newcomb Upper Menefee area

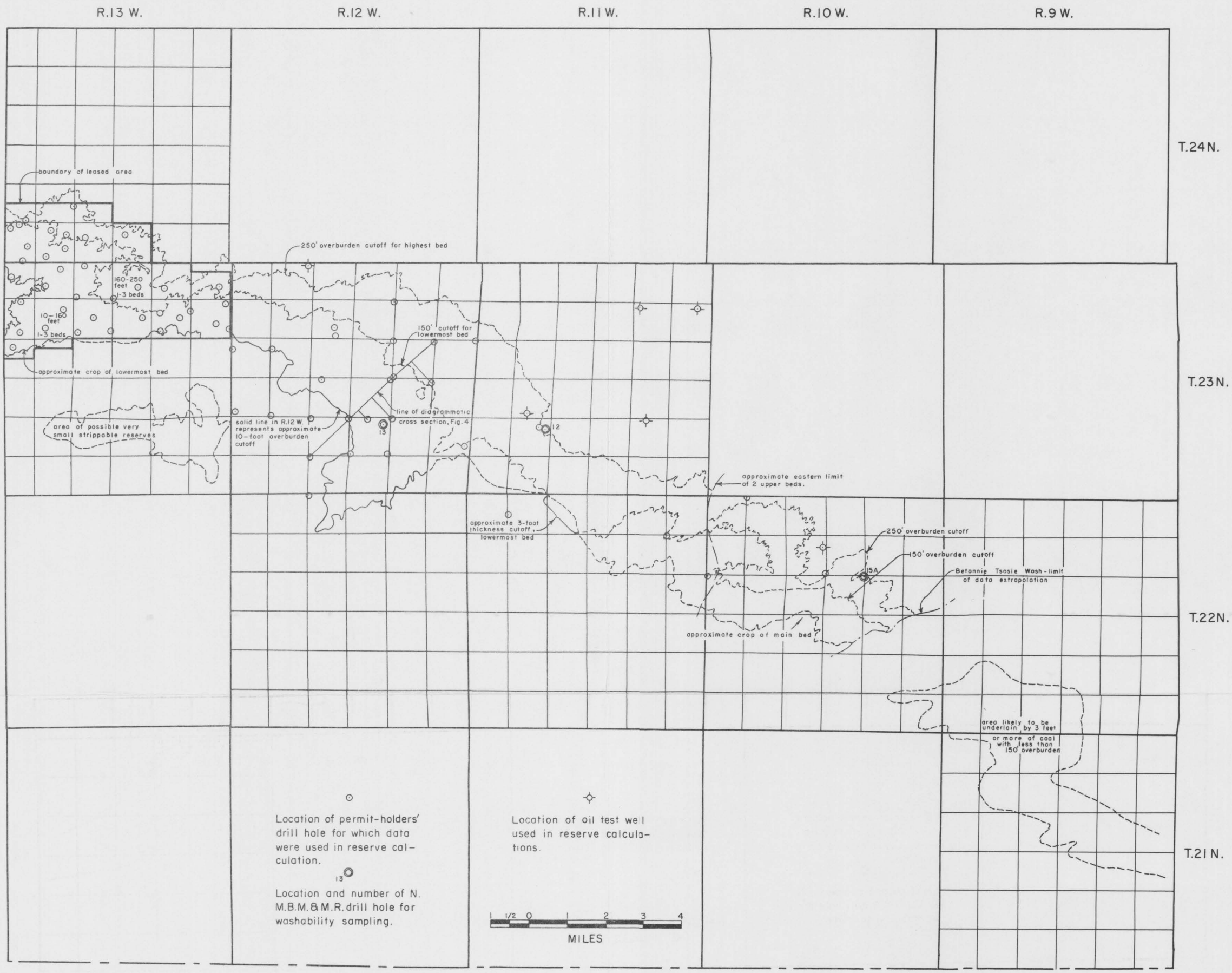


Plate 3

Map showing areas underlain by strippable reserves, Bisti Fruitland area