GEOLOGIC MAP AND SECTIONS
OF
MONUMENT VALLEY–NAVAJO MOUNTAIN REGION
SAN JUAN COUNTY, UTAH

Scale: $\frac{1}{96000}$

1 0 1 2 3 4 5 miles

1935

Geology by A. A. Baker, assisted by L. M. Clark,
L. A. Kelley, L. G. Snow, and R. M. Larsen

EXPLANATION

SEDIMENTARY FORMATIONS

CRETACEOUS

Upper Cretaceous

- **Ksc** — Straight Cliffs sandstone (Massive beds of yellow, buff, or brown sandstone with some shale; coal-bearing)
- **Kt** — Tropic shale (Dark-drab clay shale with a few thin beds of sandstone)
- **Kd** — Dakota (?) sandstone (Irregularly bedded gray to brown sandstone and conglomerate with interbedded gray sandy shale)

JURASSIC

Upper Jurassic

- **Jm** — Morrison formation (Massive gray to brown sandstone and conglomerate with thin beds of green and red shale)

San Rafael group

- **Je** — Entrada sandstone (Massive orange-brown cross-bedded sandstone)
- **Jc** — Carmel formation (Interbedded red sandstone, shale, and sandstone, with some lenses of gray sandstone)

Glen Canyon group

- **Jn** — Navajo sandstone (Massive buff to gray cross-bedded sandstone with a few lenses of gray limestone)
- **Jk** — Kayenta formation (Buff to red irregularly bedded sandstone with some shale and conglomerate)
- **Jw** — Wingate sandstone (Massive buff cross-bedded cliff-forming sandstone)

JURASSIC (?)

Upper Triassic

- **TRc** — Chinle formation (Variegated shale with some thin beds of red sandstone and gray limestone)

Upper (?) Triassic

- **TRs** — Shinarump conglomerate (Massive gray cross-bedded conglomeratic sandstone with quartz pebbles and silicified wood)

Lower Triassic

- **TRm** — Moenkopi formation (Chocolate-brown shale interbedded with brownish-red ripple-marked platy to massive sandstone)

TRIASSIC

Permian

- **Pcc, Pcu, Pcr, Pcm, Pcg** — Cutler formation (Hoskininni tongue (Pcu), red-brown modular-weathering sandy mudstone containing some pyr; and thin limestone beds; Rico tongue (Pcr), gray to red sandstone and massive cross-bedded buff to gray quartz sandstone; Organ Rock tongue (Pcm), red-brown sandy mudstone with red to gray sandstone beds; Cedar Mesa sandstone member (Pcg), white to gray conglomerate and blue sandy limestone; Cedar Mesa sandstone member (Pcm), massive cross-bedded light-gray to white sandstone; Halgaito tongue (Pch), red to chocolate-brown sandy mudstone and shale and thin-bedded gypsum; Organ Rock tongue (Pcr), red to chocolate-brown fine-grained mudstone and shale with thin beds of gray unfossiliferous limestone)

CARBONIFEROUS

Pennsylvanian

- **Pc** — Rico formation (Gray to white fossiliferous limestone interbedded with gray massive mudstone, thin-bedded red mudstone, and some red shale and mudstone)
- **Ch** — Hermosa formation (Gray cherty limestone interbedded with gray, black, red, and lavender shale and gray sandstone)

TERTIARY

- **Ti** — Plugs and dike of igneous rocks

Fault
D, downthrown side

Structure contours
(Drawn on base of Wingate sandstone in western part and top of Cutler formation in eastern part; contour interval 100 feet except on certain anticlines, where it is 50 feet. Datum is mean sea level)

Anticlinal axis

Synclinal axis

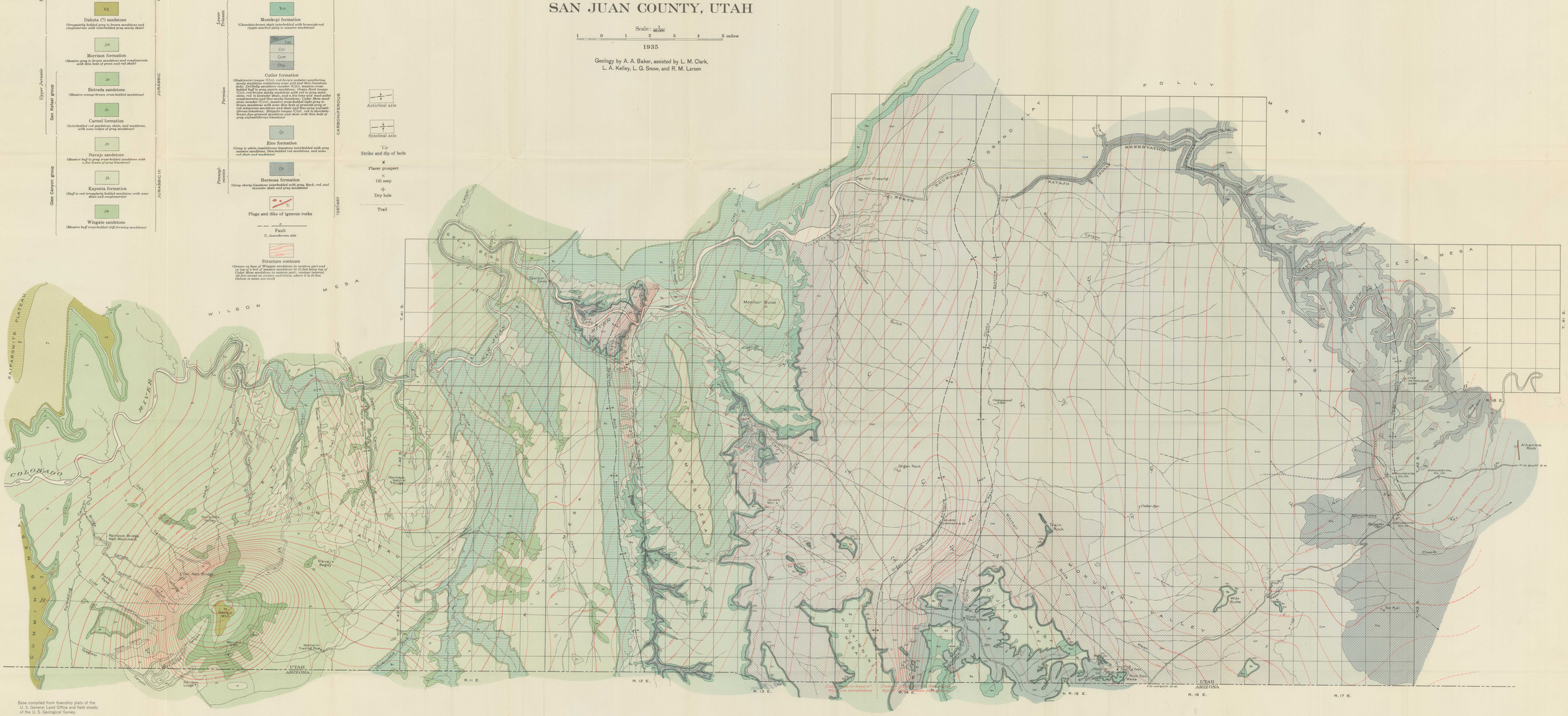
Strike and dip of beds

Placer prospect

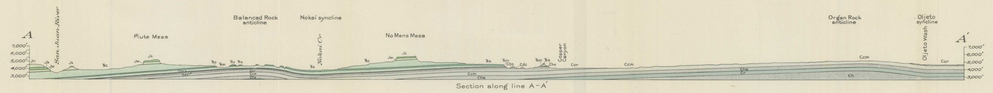
Oil seep

Dry hole

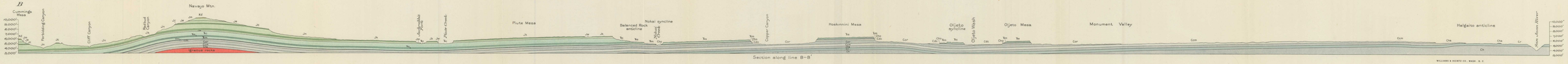
Trail



Base compiled from township plats of the U. S. General Land Office and field sheets of the U. S. Geological Survey.



Section along line A–A'



Section along line B–B'

WILLIAMS & HEINTZ CO., WASH., D. C.