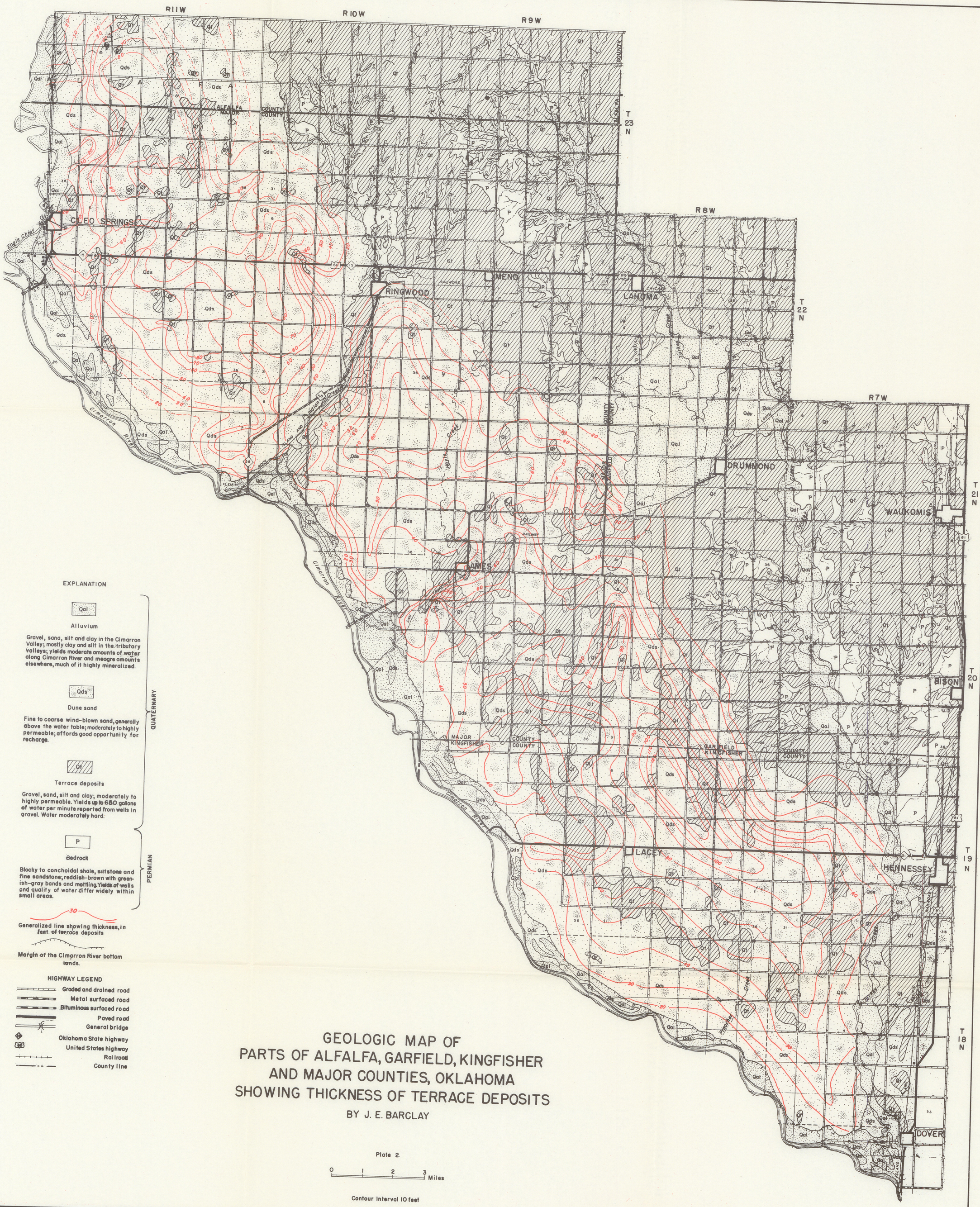
GEOLOGIC MAP OF PARTS OF ALFALFA, GARFIELD, KINGFISHER AND MAJOR COUNTIES, OKLAHOMA SHOWING THICKNESS OF TERRACE DEPOSITS

BY J. E. BARCLAY

Plate 2



EXPLANATION

Qal — Alluvium

Gravel, sand, silt and clay in the Cimarron Valley; mostly clay and silt in the tributary valleys; yields moderate amounts of water along Cimarron River and meagre amounts elsewhere, much of it highly mineralized.

Qds — Dune sand

Fine to coarse wind-blown sand, generally above the water table; moderately to highly permeable; affords good opportunity for recharge.

Qt — Terrace deposits

Gravel, sand, silt and clay; moderately to highly permeable. Yields up to 650 gallons of water per minute reported from wells in gravel. Water moderately hard.

QUATERNARY

P — Bedrock

Blocky to conchoidal shale, siltstone and fine sandstone; reddish-brown with greenish-gray bands and mottling. Yields of wells and quality of water differ widely within small areas.

PERMIAN

30 — Generalized line showing thickness, in feet of terrace deposits

Margin of the Cimarron River bottom lands.

HIGHWAY LEGEND

- Graded and drained road
- Metal surfaced road
- Bituminous surfaced road
- Paved road
- General bridge
- Oklahoma State highway
- United States highway
- Railroad
- County line

0 1 2 3 Miles

Contour interval 10 feet

Drainage from aerial photographs of the U.S. Department of Agriculture.
Base modified from maps of Oklahoma State Highway Commission.

Maps: Conservation, Bl, #15 [O-7 item 215]