EXPLANATION

Recent — QUATERNARY
- Qal — Alluvium

Oligocene — TERTIARY
- Twr — White River formation
  (Imperfectly consolidated sand of greenish-gray to light color, reddish to greenish-gray shale, and greenish-gray coarse-grained conglomeratic sandstone)

UNCONFORMITY

Eocene(?) — TERTIARY(?)
- Tlf — Lance formation
  (Sandstones, sandy and carbonaceous shale, and a few thin beds of coal)

Upper Cretaceous — CRETACEOUS
- Kfh — Fox Hills sandstone
  (Sandstones with some sandy shales)
- Kps — Pierre shale
  (Dark-gray shale including beds and lenticular masses of fossiliferous calcareous rock, also thin beds of sandstone, one of the most conspicuous of which is the Shannon(?) sandstone member)

Outcrops of conspicuous sandstones

500 — Structure contours on the upper bed of the Newcastle sandstone member of Graneros shale
(The broken-line contours are based entirely on well data. The full-line contours are based mainly on known stratigraphic intervals and recorded dips)
Contour interval 100 feet
Datum is mean sea level

Anticline

Syncline

25° — Strike and dip

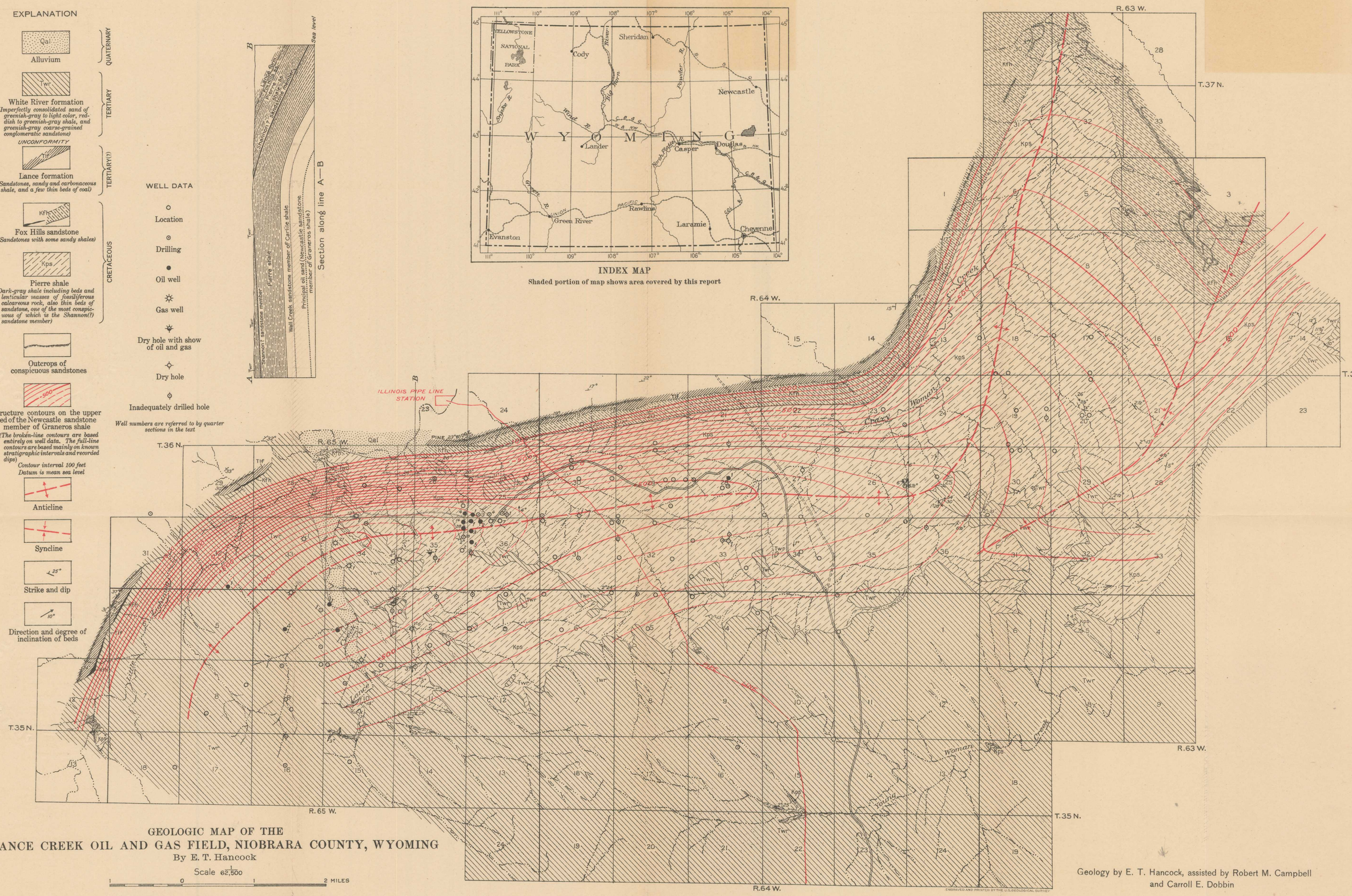
10° — Direction and degree of inclination of beds

WELL DATA
- Location
- Drilling
- Oil well
- Gas well
- Dry hole with show of oil and gas
- Dry hole
- Inadequately drilled hole

Well numbers are referred to by quarter sections in the text

INDEX MAP

Shaded portion of map shows area covered by this report



GEOLOGIC MAP OF THE LANCE CREEK OIL AND GAS FIELD, NIOBRARA COUNTY, WYOMING

By E. T. Hancock

Scale 1/62,500

1 0 1 2 MILES

Base compiled from author's field sheets and U. S. Land Office plats

1920

Geology by E. T. Hancock, assisted by Robert M. Campbell and Carroll E. Dobbin

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