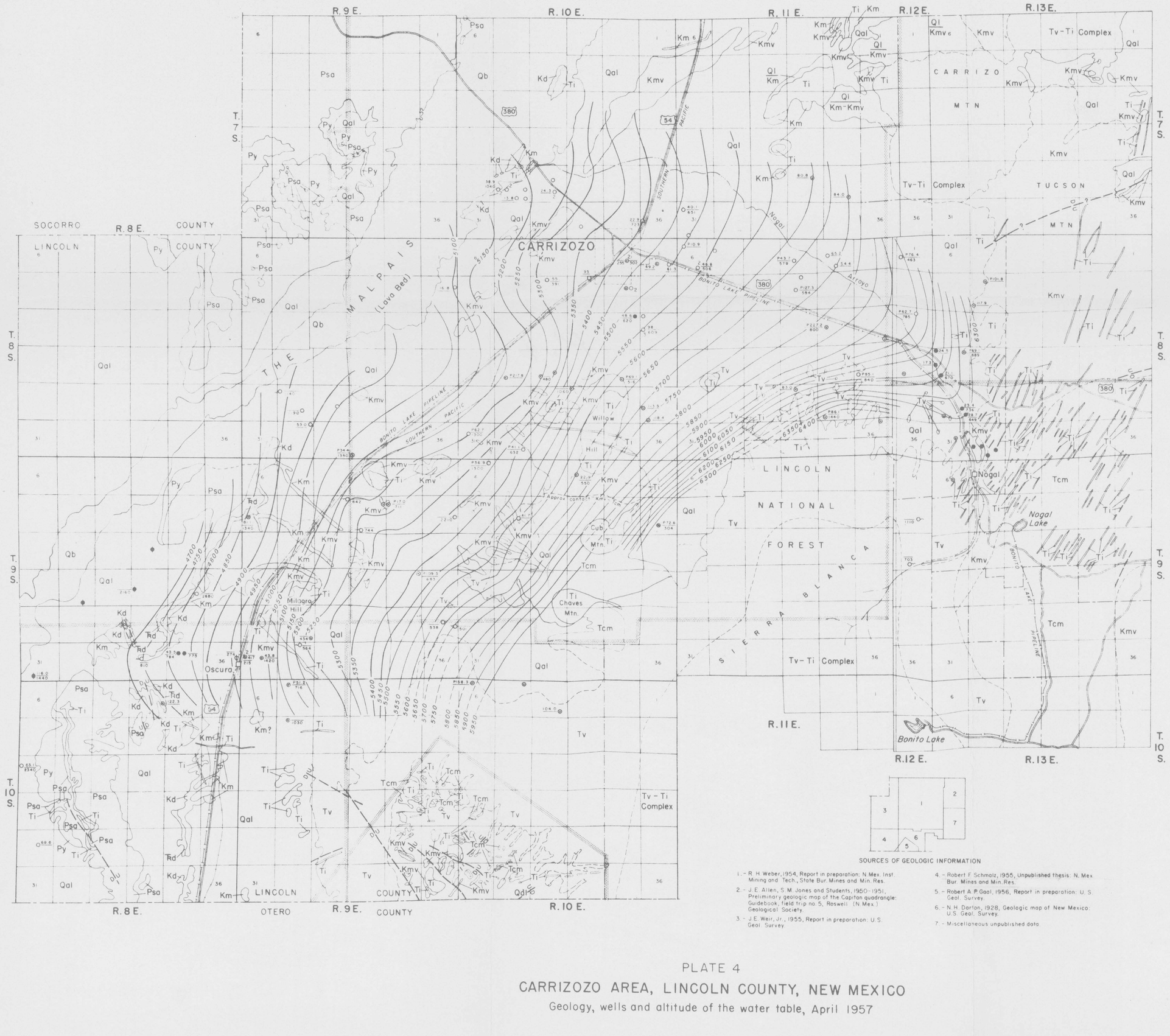
PLATE 4



EXPLANATION

SEDIMENTARY ROCKS

Qal — Alluvium
(May include some gravels of Tertiary age)
Valley fill. Clay, silt, sand, gravel, boulders. Yields large amounts of water to wells at certain locations.

Ql / Kmv — Land-slide detritus
Rock waste. Mostly from Cretaceous rocks. Yields little or no water to wells.

Tcm — Cub Mountain formation
Sandstone, quartzite, conglomerate. May yield water to wells where below water table.

Kmv — Mesa Verde group
Coal-bearing sandstone and shale. Yields small amounts of water to wells.

Km — Mancos shale
Dark fissile shale. Yields no water to wells.

Kd — Dakota sandstone
Buff sandstone. May yield water to wells.

Rd — Rodeo group
Red bed. Siltstone, sandstone, and conglomerate. Yields water to wells at certain locations.

Psa — San Andres formation
Limestone, gypsum, and sandstone. Yields small amounts of water to wells.

Py — Yeso formation
Gypsum, siltstone, limestone, and sandstone. Yields small amounts of water to wells.

IGNEOUS ROCKS

Qb — Basalt (lava flow)
Black-to brown-vesicular basalt. Yields no water to wells.

Tv — Extrusive rocks
Yields little or no water to wells.

Ti — Intrusive rocks
Yields little or no water to wells.

Tv-Ti — Complex of extrusive and intrusive rocks
Yields little or no water to wells.

Ti — Intrusive dike

Fault

Well in alluvium

Well in Cretaceous rocks

Well in alluvium and Cretaceous rocks

Well in Tertiary(?) rocks

Well in Pre-Cretaceous rocks

Spring

58:1 / 650 — Depth to water (feet), P, Pumping; Sulfate content of water (ppm)

4800 — Contour line drawn on surface of water table; dashed where data meager. Contour interval 50 feet. Datum mean sea level.

0 1 2 3 Miles

QUATERNARY — TERTIARY (?) — CRETACEOUS — TRIASSIC — PERMIAN — TERTIARY

SOURCES OF GEOLOGIC INFORMATION

1. - R. H. Weber, 1954, Report in preparation: N. Mex. Inst. Mining and Tech., State Bur. Mines and Min. Res.
2. - J. E. Allen, S. M. Jones and Students, 1950-1951, Preliminary geologic map of the Capitan quadrangle: Guidebook, field trip no. 5, Roswell (N. Mex.) Geological Society.
3. - J. E. Weir, Jr., 1955, Report in preparation: U. S. Geol. Survey.
4. - Robert F. Schmalz, 1955, Unpublished thesis: N. Mex. Bur. Mines and Min. Res.
5. - Robert A. P. Gaal, 1956, Report in preparation: U. S. Geol. Survey.
6. - N. H. Darton, 1928, Geologic map of New Mexico: U. S. Geol. Survey.
7. - Miscellaneous unpublished data.

PLATE 4

CARRIZOZO AREA, LINCOLN COUNTY, NEW MEXICO

Geology, wells and altitude of the water table, April 1957