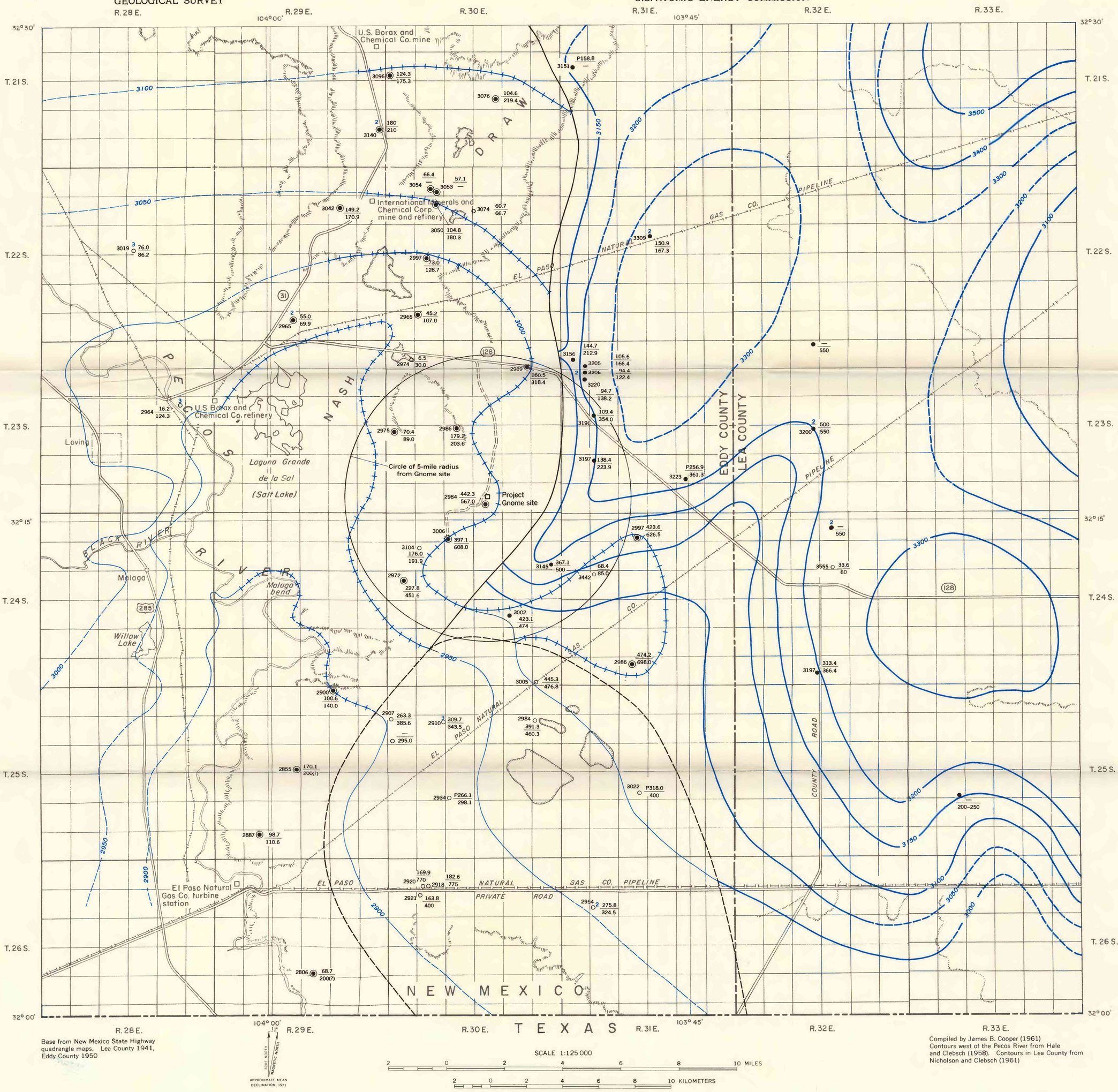
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
U.S. ATOMIC ENERGY COMMISSION

PROFESSIONAL PAPER 712-A
PLATE 1



EXPLANATION

WATER WELLS

○ Well finished in rocks of Quaternary or Tertiary age

● Well finished in rocks of Triassic age

◉ Well finished in rocks of Permian age

3220 2 ○ P266.1/298.1

Well data

Number at left is altitude of potentiometric surface, in feet above mean sea level. Upper right number is depth to water, in feet below land surface. Lower right number is depth of well, in feet below land surface. Blue number indicates number of wells at location. Measured depths are in feet and tenths; reported depths are in feet. P, indicates well being pumped at time of measurement

3400 — Water table or potentiometric contour for formations of Quaternary or Tertiary age
Dashed where inferred or uncertain. Contour interval 50 feet. Datum is mean sea level

3500 — Potentiometric contour for formations of Triassic age
Dashed where inferred or uncertain. Contour interval 50 feet except where data are meager. Datum is mean sea level

3050 + + + + Water table or potentiometric contour for formations of Permian age
Dashed where inferred or uncertain. Contour interval 50 feet. Datum is mean sea level

Approximate position of boundary between rocks of Quaternary and Tertiary ages, and older rocks

Approximate position of boundary between rocks of Triassic age and rocks of Permian age

Majority of water-level measurements made August 1958 to April 1959

Base from New Mexico State Highway quadrangle maps. Lea County 1941, Eddy County 1950

Compiled by James B. Cooper (1961)
Contours west of the Pecos River from Hale and Clebsch (1958). Contours in Lea County from Nicholson and Clebsch (1961)

SCALE 1:125 000

2 0 2 4 6 8 10 MILES

2 0 2 4 6 8 10 KILOMETERS

APPROXIMATE MEAN DECLINATION, 1971
TRUE NORTH
MAGNETIC NORTH
11°

MAP SHOWING LOCATION OF WELLS AND WATER-LEVEL CONTOURS FOR GEOLOGIC FORMATIONS IN THE PROJECT GNOME AREA, EDDY AND LEA COUNTIES, NEW MEXICO

428-472 O - 71 (In pocket)