U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
COLORADO OIL AND GAS CONSERVATION COMMISSION, LA PLATA COUNTY, AND THE SOUTHERN UTE TRIBAL COUNCIL

WATER-RESOURCES INVESTIGATIONS REPORT 94-4006
Sampling Sites for Molecular Composition and Methane-Carbon Isotopes—PLATE 3
Chafin, D.T., 1994, Sources and migration pathways of natural gas in near-surface ground water beneath the Animas River Valley, Colorado and New Mexico

Base from U.S. Geological Survey 1:24,000
Durango West, CO 1963, Durango East, CO 1963,
Basin Mountain, CO 1968, Loma Linda, CO 1968,
Long Mountain, CO 1968, Bondad Hill, CO 1968,
Cedar Hill, NM-CO 1985, Mount Nebo, NM-CO 1985,
Aztec, NM 1985

EXPLANATION

GAS-SAMPLING SITE—Number by symbol refers to site number in table 4. Zones indicate control areas (refer to table 4)

- 32 ● Water Well
- 27 □ River Seep
- 29 ⊕ Soil Seep
- 6 D ☼ GAS WELL—Letter refers to producing formation
  - **D** Dakota Sandstone
  - **M** Mesaverde Group
  - **L** Lewis Shale
  - **P** Pictured Cliffs Sandstone
  - **F** Coals in the Fruitland Formation
- 31 D ✸ PAIRED GAS WELL AND SOIL GAS ADJACENT TO CASING—Letter refers to producing formation as above
- 54 △ Pipeline Cathodic-Protection Well

MAP SHOWING LOCATIONS OF SITES IN ZONES OF THE ANIMAS RIVER VALLEY BETWEEN DURANGO, COLORADO, AND AZTEC, NEW MEXICO, WHERE GAS SAMPLES WERE COLLECTED FOR ANALYSES OF MOLECULAR AND METHANE-CARBON-ISOTOPE COMPOSITIONS
By
Daniel T. Chafin
1994