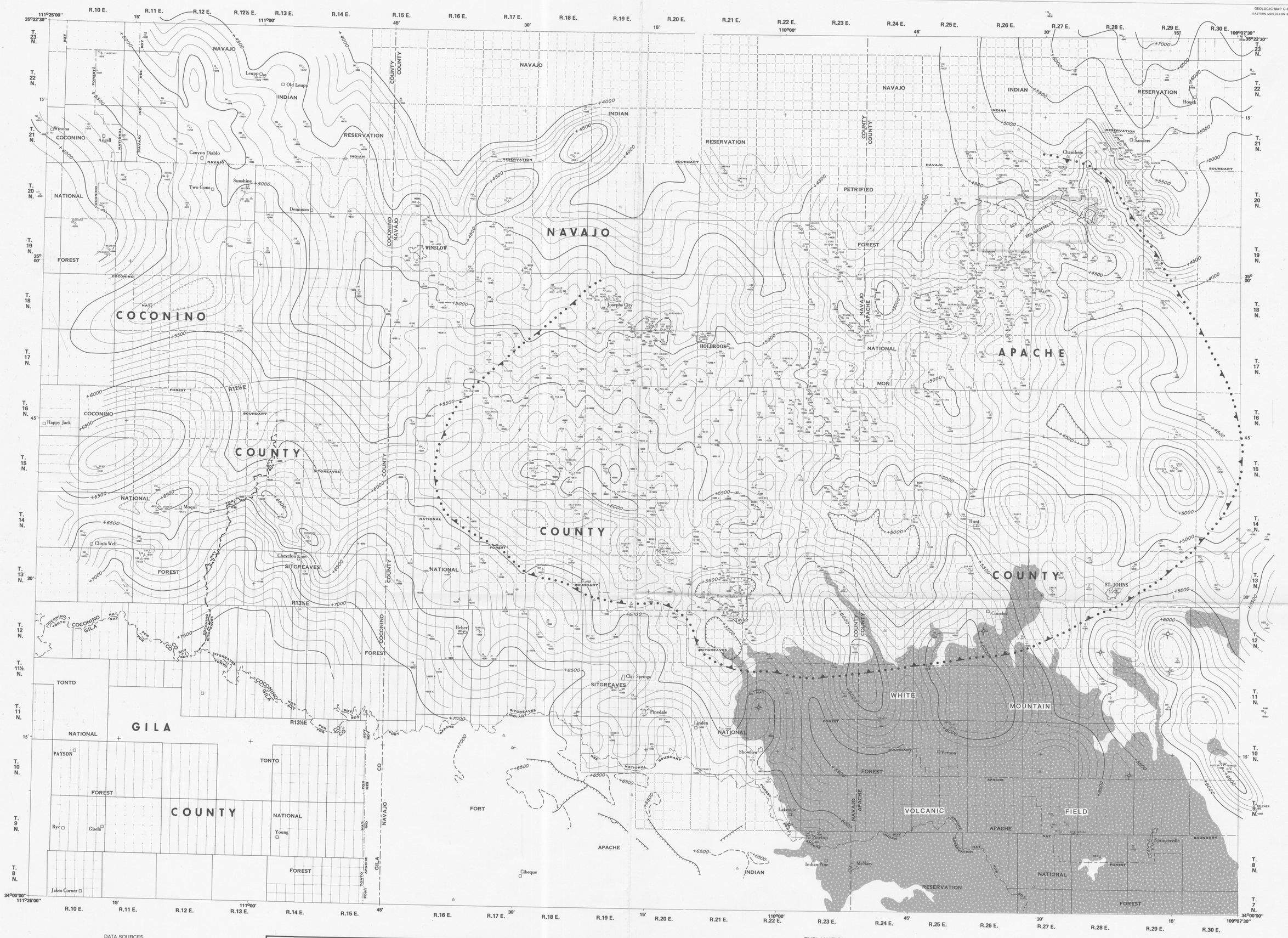
ARIZONA OIL AND GAS CONSERVATION COMMISSION
JOHN BANNISTER, EXECUTIVE SECRETARY

GEOLOGIC MAP G-6A
EASTERN MOGOLLON SLOPE REGION



DATA SOURCES

The principal sources of data were the well records and supplementary geologic material in the files of the Oil and Gas Conservation Commission. Other sources include:

Akers, J. P., 1964, Geology and ground water in the central part of Apache County, Arizona: U.S. Geol. Survey Water-Supply Paper 1771.

Cooley, M.E., and others, 1969, Regional hydrology of the Navajo and Hopi Indian Reservations, Arizona, New Mexico, and Utah: U.S. Geol. Survey Prof. Paper 521-A.

Finnell, T. L., 1966, Geologic map of the Chediski Peak quadrangle, Navajo County, Arizona: U.S. Geol. Survey Geol. Quad. Map GQ-544.

Finnell, T. L., 1966, Geologic map of the Cibecue quadrangle, Navajo County, Arizona: U.S. Geol. Survey Geol. Quad. Map GQ-545.

Harrell, M.A., and Eckel, E. B., 1939, Ground-water resources of the Holbrook region, Arizona: U.S. Geol. Survey Water-Supply Paper 836-B.

McGavock, E. H., 1968, Basic ground-water data for southern Coconino County, Arizona: Ariz. State Land Dept. Water-Resources Rept. 33.

McKay, E. J., 1972, Geologic map of the Show Low quadrangle, Navajo County, Arizona: U.S. Geol. Survey Geol. Quad. Map GQ-973.

Moore, R. T., and others, 1960, Geologic map of Coconino County, Arizona: Ariz. Bur. Mines, Tucson, Ariz.

Peirce, H. W., Keith, S. B., and Wilt, J. C., 1970, Coal, oil, natural gas, helium, and uranium in Arizona: Ariz. Bur. Mines Bull. 182.

Peirce H. W., and Scurlock, J. R., 1972, Arizona well information: Ariz. Bur. Mines Bull. 185.

Sauck, W. A., and Sumner, J. S., 1970, Residual aeromagnetic map of Arizona: Dept. of Geosciences, Univ. of Ariz., Tucson, Ariz.

United States Geological Survey, unpublished water-well data from records maintained by Water Resources Division, Flagstaff, Ariz.

West, R. E., and Sumner, J. S., 1973, Bouguer gravity anomaly map of Arizona: Dept. of Geosciences, Univ. of Ariz., Tucson, Ariz.

Wilson, E.D., and others, 1960, Geologic map of Navajo and Apache Counties, Arizona: Ariz. Bur. Mines, Tucson, Ariz.

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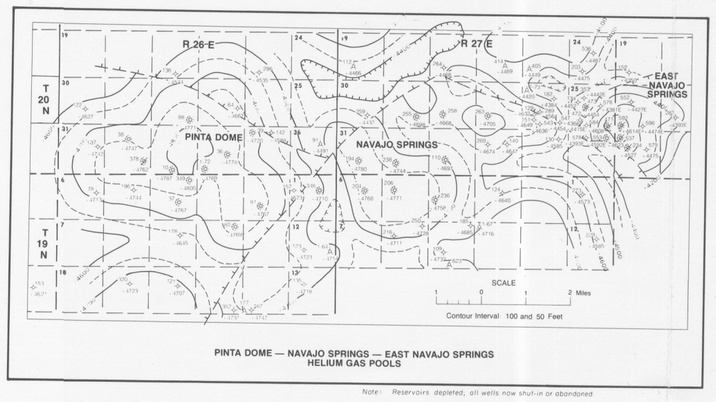
TRANSVERSE MERCATOR PROJECTION, ARIZONA EAST ZONE
1927 NORTH AMERICAN DATUM
CONTROL BY U.S. NATIONAL GEODETIC SURVEY, U.S. GELOGICAL SURVEY
U.S. FOREST SERVICE, U.S. GENERAL LAND OFFICE
AND
ARIZONA DEPARTMENT OF TRANSPORTATION



PINTA DOME — NAVAJO SPRINGS — EAST NAVAJO SPRINGS
HELIUM GAS POOLS

Note: Reservoirs depleted, all wells now shut-in or abandoned.

EXPLANATION

Well symbols

- Location or active operation
- Helium, producing or shut-in
- Helium, plugged and abandoned
- Oil, producing or shut-in
- Oil, plugged and abandoned
- Natural gas, producing or shut-in
- Natural gas, plugged and abandoned
- Dry Hole
- Stratigraphic (includes holes drilled for potash, halite, structural, and hydrological information)
- Storage (liquefied petroleum products in salt cavern)
- Water
- Temporarily abandoned
- Identification number, Oil and Gas Conservation Commission

Structure contours

+ 5500

Drawn on top of Permian Coconino Sandstone, Coconino-Glorieta, or Coconino-De Chelly Sandstones undifferentiated in easternmost portion of mapped area. Dashed contours are from published United States Geological Survey geologic quadrangle maps. Contour intervals, 100 and 500 feet.

Structure control

Wells: + 4500
Outcrops: × + 5500

Plus figures, in feet, indicate sea level datums of top of Coconino Sandstone. Some of the datums, particularly those of wells and outcrops in south-central Apache County, are subject to correction when better vertical control becomes available. Much of the current control is limited to 1:250,000-scale topographic maps with contour intervals of 200 feet.

Fault

Hachures on downthrown side. Not mapped - numerous faults in salt-collapse areas.

Approximate limit of halite deposits in the upper Supai evaporite basin

NOTICE TO PURCHASERS
Open-file blue line prints of this map at a scale of 1:250,000 and well-data booklet available.
Order number G-6

KEY MAP

SCALE 1:500,000

10 0 10 MILES

STRUCTURE MAP
EASTERN MOGOLLON SLOPE REGION
PORTIONS OF APACHE, COCONINO, GILA, AND NAVAJO COUNTIES
ARIZONA

BY
J. N. Conley and J. R. Scurlock

1976

COCONINO STRUCTURE

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