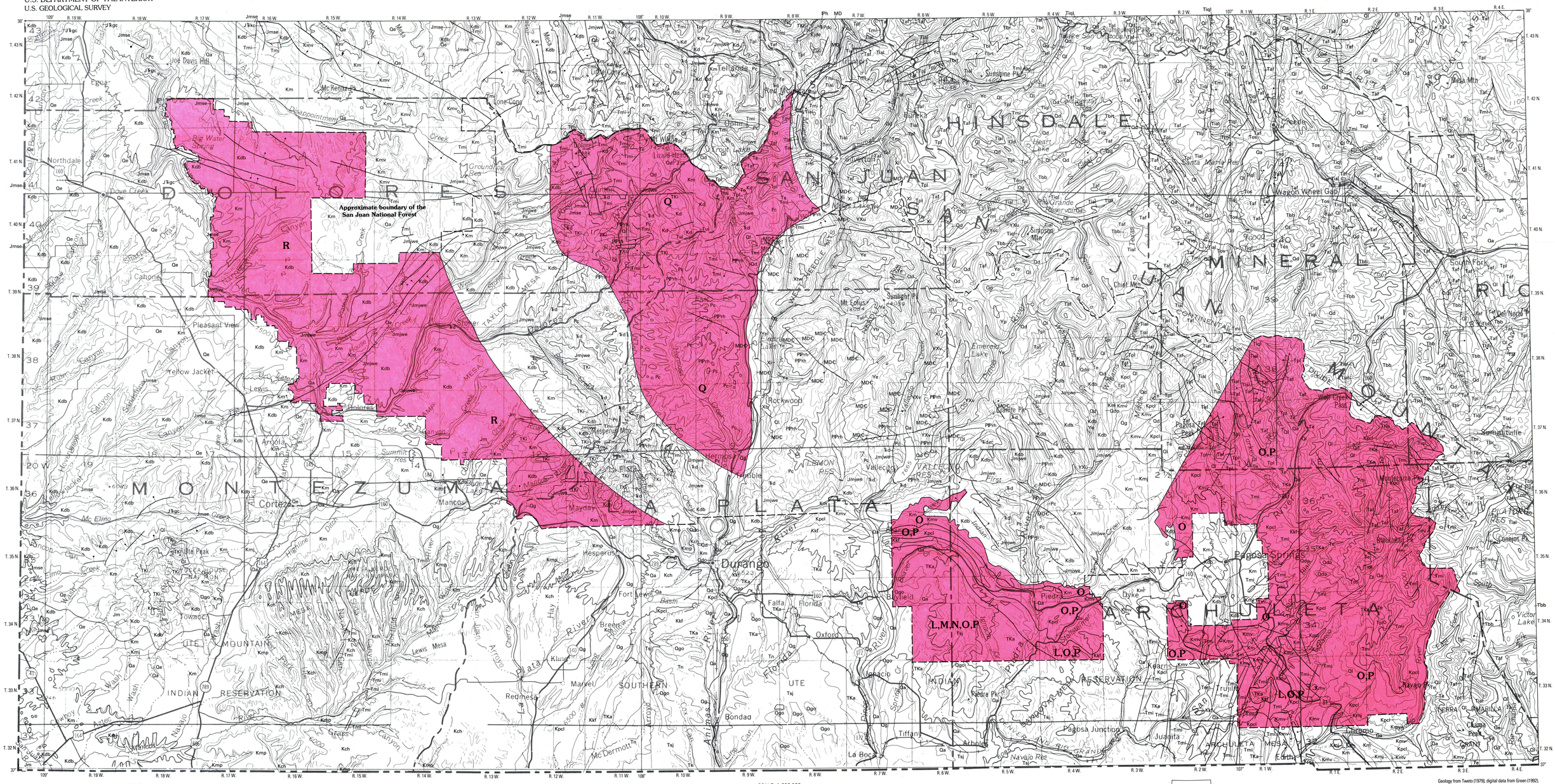


Base from U.S. Geological Survey topographic maps, 1:250,000 scale: Cortez (1956, revised 1959), Durango (1945)

SCALE 1:250 000

CONTOUR INTERVAL 200 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929
1997 MAGNETIC DECLINATION VARIES FROM 12°30' TO 11°30' EAST

MAP LOCATION

Geology from Tweto (1979); digital data from Green (1992). Mineral resource data compiled by A.C. Huffman, Jr., J.W. M'Gonigle, C.M. Molenaar, D.D. Rice, L.N.R. Roberts, C.W. Spencer, and C.J. Wandrey, 1994.

EXPLANATION

[See plate 1 for explanation of geologic symbols]

Areas favorable for leasable mineral resources denoted by letter or multiple letters.

L. Coal: high potential for high- to medium-volatile bituminous coal with high ash content in the Fruitland Formation of Late Cretaceous age. Mostly deeply buried in the San Juan Basin.

M. Coal-bed gas in the Fruitland Formation of Late Cretaceous age.

N. Natural gas in reservoirs of the Dakota Sandstone of Late Cretaceous age underlaying the San Juan Basin. Amounts of gas are relatively small and production costs are high owing to need to fracture reservoirs artificially.

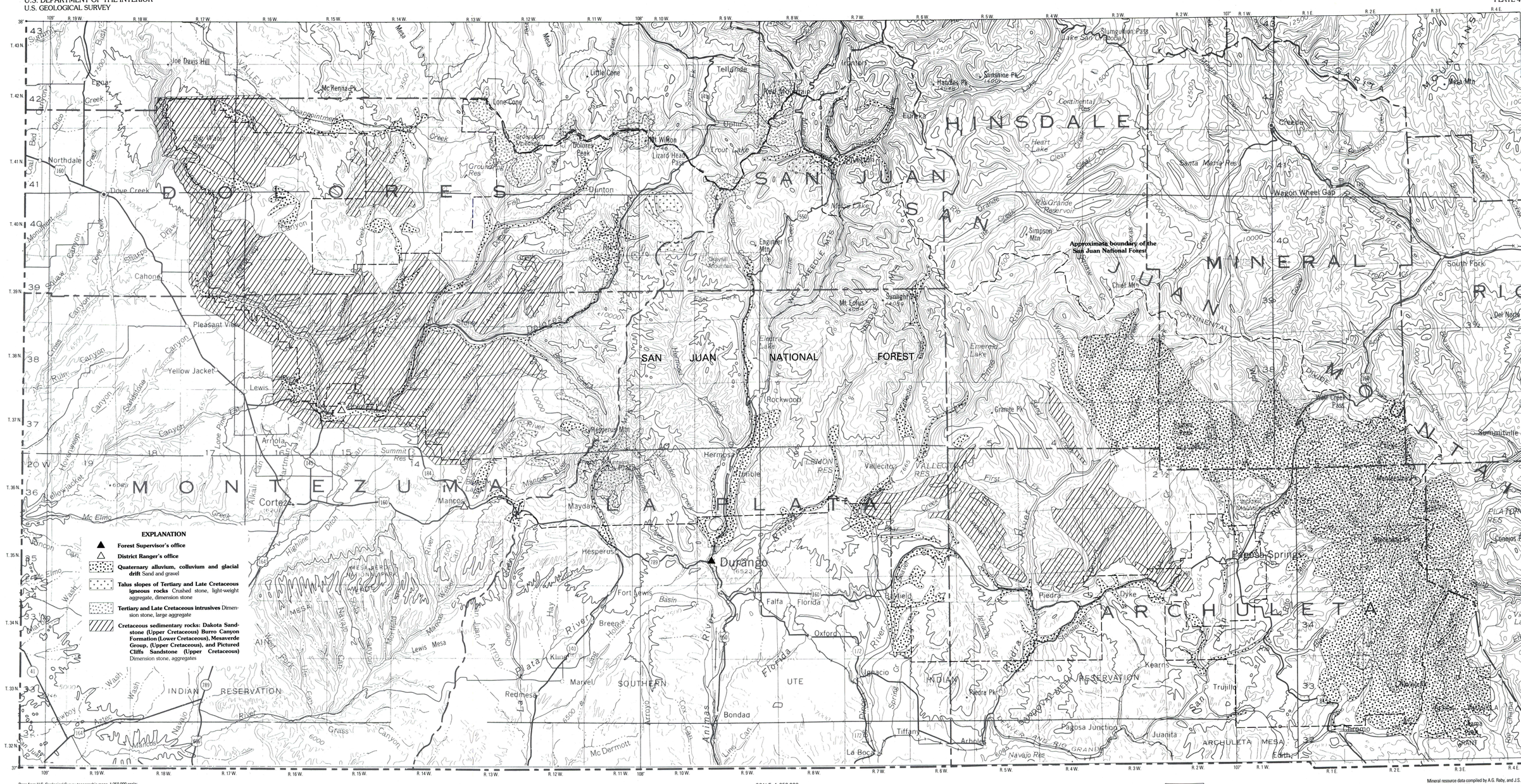
O. Oil and gas accumulations of the Dakota Oil and Gas Play. Accumulations are conventional, from permeable sandstone reservoirs of the Dakota Sandstone.

P. Oil and gas accumulations of the Fractured Mancos Shale Play. Conventional oil and gas in permeable reservoirs formed by natural fracturing of brittle dolomitic or calcareous siltstones or very fine grained sandstones in the Mancos Shale of Late Cretaceous age.

Q. Oil and gas accumulations of the Silverton Delta Play. Conventional accumulations in permeable deltaic sandstones of equivalents of the Hermosa Group along the flank of the Paradox Basin.

R. Oil and gas accumulations of the Carbonate Buildup Play. Conventional oil and gas accumulations in porous carbonate mounds in equivalents of the Hermosa Group in the east marginal area of the Paradox Basin.

MAP SHOWING GEOLOGY AND AREAS FAVORABLE FOR LEASABLE MINERALS IN THE SAN JUAN NATIONAL FOREST, COLORADO



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SCALE 1:250 000

CONTOUR INTERVAL 200 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929
1997 MAGNETIC DECLINATION VARIES FROM 12°30' TO 11°30' EAST

MAP LOCATION

Mineral resource data compiled by A.G. Raby, and J.S. Diersch, U.S. Forest Service, 1993

☆ U.S. GOVERNMENT PRINTING OFFICE 1997—573-066

MAP SHOWING AREAS FAVORABLE FOR SALABLE MINERALS IN THE SAN JUAN NATIONAL FOREST, COLORADO

MINERAL RESOURCE POTENTIAL AND GEOLOGY OF THE SAN JUAN NATIONAL FOREST, COLORADO

Edited by
Richard E. Van Loenen *and* Anthony B. Gibbons

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