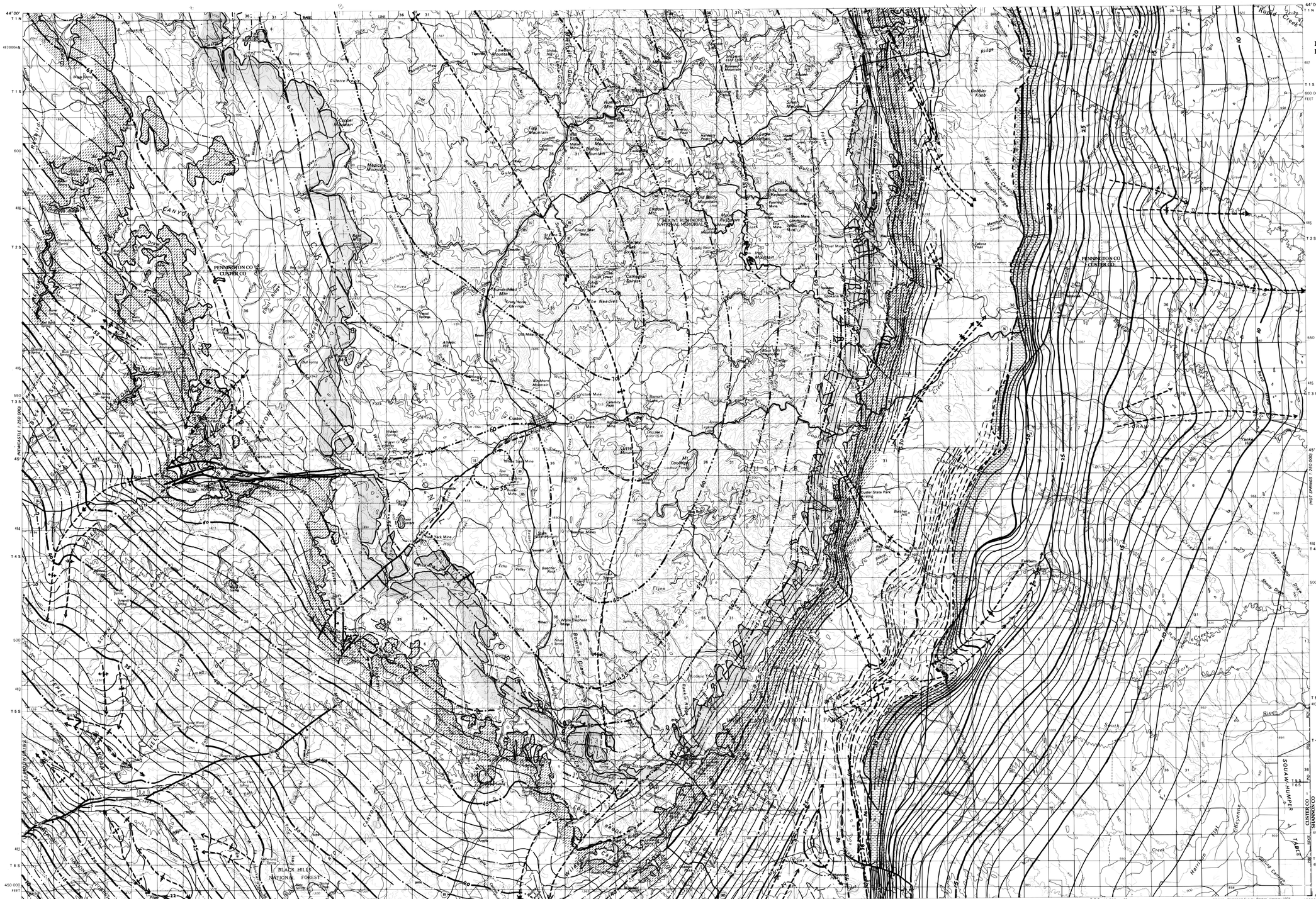
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



EXPLANATION

Explanation same as Rapid City, South Dakota 1:100,000 Quadrangle, Part I

This report is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards or stratigraphic nomenclature.

Mapped, edited, and published by the Geological Survey

Compiled in 1977 from USGS 1:24 000-scale topographic maps dated 1951-1971. See index for dates of individual maps

Planimetry revised from aerial photographs taken 1976 and other source data. Revised information not field checked

Projection and 10 000-meter grid, zone 13: Universal Transverse Mercator

50 000-foot grid ticks based on South Dakota coordinate system, south zone

1927 North American datum

Structural contours prepared from a geologic map compilation of the Central Black Hills now in preparation by Jack A. Redden, Central Mineral Resources Branch Geologic Division, U.S. Geological Survey. This map is open filed for use prior to final completion and publication of the Central Black Hills map; contours may deviate in some areas from the final map. Well data were obtained largely from files of Dr. J.P. Gries, South Dakota School of Mines and Technology, Rapid City. Dann Halverson, Xiaodan Tan, and Greg Goeser assisted in digitization and contour preparation. Financial support for this work was in part by the South Dakota Geological Survey, Department of Environment and Natural Resources.

INDEX TO 1:24 000-SCALE MAPS

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1 Preacher Spring—1956
2 Ditch Creek—1956
3 Medicine Mtn—1956
4 Hill City—1954
5 Mt Rushmore—1954 (71 PR)
6 Rockerville—1954 (71 PR)
7 Hermosa NW—1953 (71 PR)
8 Hermosa NE—1953
9 Dead Horse Flats—1955
10 Signal Hill—1955
11 Berne—1954
12 Custer—1954
13 Iron Mtn—1954 (71 PR)
14 Hayward—1954 (71 PR)
15 Hermosa—1953 (71 PR)
16 Hermosa SE—1953
17 Jewel Cave NW—1955
18 Jewel Cave—1955
19 Fourmile—1954
20 Coyote Peak—1955
21 Mt Coolidge—1955
22 Butcher Hill—1957
23 Fairburn—1957
24 Fairburn NE—1957
25 Jewel Cave SW—1954
26 Jewel Cave SE—1954
27 Argyle—1955
28 Pringle—1956
29 Wind Cave—1957
30 Boland Ridge—1957
31 Fairburn SW—1957
32 Fairburn SE—1957

PR MAP PHOTOREVISED (REVISION NOT FIELD CHECKED)

GN
1°02'
19 MILS
13°
231 MILS

UTM GRID AND 1977 MAGNETIC NORTH DECLINATION AT CENTER OF MAP

SCALE 1:100 000

KILOMETERS: 1 0 1 2 3 4 5 6 7 8 9 10

MILES: 1 0 1 2 3 4 5

FEET: 5000 0 5000 10000 15000 20000 25000

CONTOUR INTERVAL 50 METERS
To convert meters to feet multiply by 3.28
NATIONAL GEODETIC VERTICAL DATUM OF 1929

SOUTH DAKOTA

QUADRANGLE LOCATION

LEGEND

Village or locality
Landmark building
Perennial stream, lake
Intermittent stream, lake
Public park or recreation area
National, State forest or gameland area
Other public area or military or Indian Reservation

ROAD CLASSIFICATION

Primary highway, hard surface
Secondary highway, hard surface
Light duty road, hard or improved surface
Street or other road
Trail
Interstate route
U.S. route
State route

MOUNT RUSHMORE, S. DAK.
NW/4 HOT SPRINGS (NK 13-3) 1:250 000-SCALE MAP
N4330-W10300/30x60
1977

STRUCTURAL CONTOURS AND PHANEROZOIC STRUCTURES IN THE MOUNT RUSHMORE, SOUTH DAKOTA 1:100,000 SCALE QUADRANGLE: PART I. STRUCTURAL CONTOURS ON TOP OF THE FALL RIVER FORMATION, PAHASAPA LIMESTONE, AND PRECAMBRIAN ROCKS

By Jack A. Redden 1994