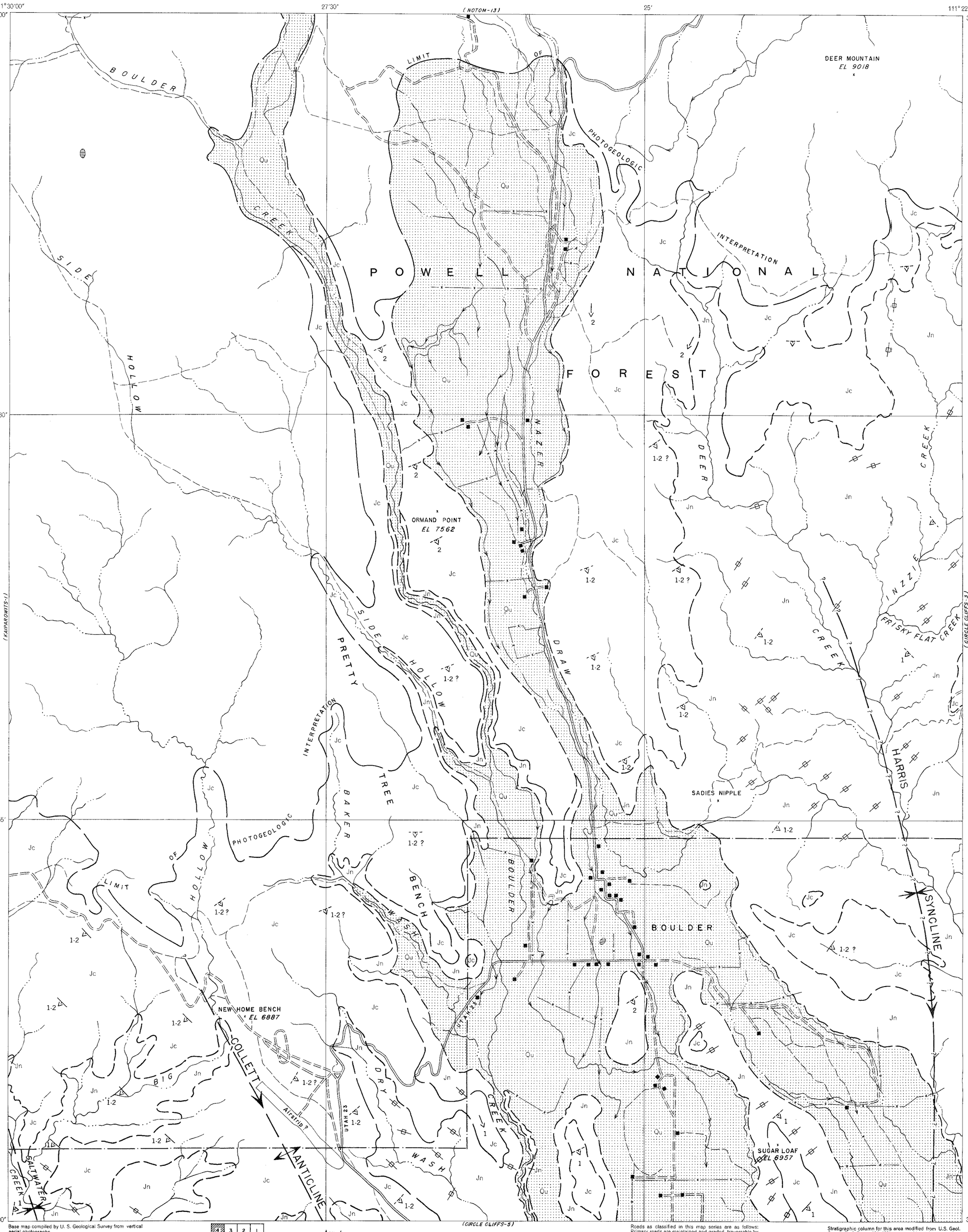

EXPLANATION

	Qu — Undifferentiated sand, residual mantle, and slope wash	QUATERNARY
Middle and Upper Jurassic	Jc — Carmel formation	JURASSIC
Lower Jurassic	Jn — Navajo sandstone	JURASSIC

Contact
Can be located within 30 to 200 feet horizontally.

Contact
Cannot be located accurately; probable error greater than 200 feet horizontally.

Anticline
Showing crest line and direction of plunge
Approximately located; questioned where inferred.

Syncline
Showing trough line and direction of plunge
Approximately located; questioned where inferred.

Approximate strike and dip of beds
Based on photointerpretation.

Inferred strike and dip of beds
Based on photointerpretation of areas where bedding is obscure.

Dip component

Strike of approximately vertical joints
Based on photointerpretation.

Irrigation ditch

National forest boundary
Approximate location.

Primary road — **Secondary road**

Trail — **Fence**

Note: In the northern area of this map the Entrada sandstone may be present locally above the Carmel formation but cannot be distinguished because of the heavy timber growth.

Base map compiled by U. S. Geological Survey from vertical aerial photographs.

The aerial photographs used for photogeologic interpretation were taken in June 1948.

4	3	2	1
5	6	7	8
12	11	10	9
13	14	15	16

CIRCLE CLIFFS QUADRANGLE

TRUE NORTH — MAGNETIC NORTH 15½°

Roads as classified in this map series are as follows: Primary roads are maintained and graded, traversable by two-wheel-drive vehicles; secondary roads are traversable possibly by two-wheel-drive vehicles; trails are not traversable by four-wheel-drive vehicles except locally. When other information is lacking, roads are classified by their appearance on aerial photographs.

Stratigraphic column for this area modified from U.S. Geol. Survey Prof. Paper 164, 1931; geographic and geologic field data also from U. S. Dept. of Agriculture, Forest Service Map, Dixie National Forest, 1950; and U.S. Geol. Survey Prof. Paper 164, 1931.

This map has been compiled mainly from photogeologic data but has not been checked in the field; hence it has not had the benefit of thorough evaluation with respect to maps compiled entirely from field data.

PHOTOGEOLOGIC MAP
OF THE
CIRCLE CLIFFS-4 QUADRANGLE
GARFIELD COUNTY, UTAH

By
J. S. Detterman

Scale 1:24 000

1 ½ 0 1 Mile

1955

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C., M R-6498
For sale by U. S. Geological Survey, price 50 cents