



**EXPLANATION**

**SEDIMENTARY ROCKS**

Qal, Qc  
Alluvium, Qal; covering deposits undifferentiated, Qc (includes wind-blown sand, residual material, and wash derived from Entrada sandstone, Carmel formation, and diabase)

**JURASSIC**

Upper  
Je  
Entrada sandstone  
Jc  
Carmel formation  
Jn  
Navajo sandstone  
Jk  
Kayenta formation  
Jw  
Wingate sandstone

**JURASSIC (?)**

Lower  
Rc  
Chinle formation  
Rs  
Shinarump conglomerate  
Rm3  
Upper unit, Moenkopi formation

**IGNEOUS ROCKS**

T1  
Diabase dike  
Composite diabase and syenite sills

**CONTACT**

(Can be accurately located within 30 feet horizontally)

(Can be approximately located within 30 to 200 feet horizontally)

(Cannot be located accurately; probable error greater than 200 feet)

Probable or doubtful contact

**FAULT**

(U, upthrown side, D, downthrown side) (Dashed where approximately located)

Probable or doubtful fault

**Probable anticline**

Showing trace of axial plane and direction of plunge

**Syncline**

Showing trace of axial plane and direction of plunge (Dashed where approximately located)

**Strike and dip of beds**

(Based on field measurement)

**Strike and dip of beds**

(Based on photo-interpretation)

**Strike of approximately vertical joints**

(Based on photo-interpretation)

Secondary road

Trail

**Note:** On aerial photographs the Moenkopi formation in the San Rafael Swell region can be divided into three units; no correlation with subdivisions of the Moenkopi formation in other areas is implied. Only unit 3 is present in the area of this map. The contacts of the Kayenta formation with the Wingate and Navajo sandstones do not join those contacts as mapped on Spinking Spring Creek-12, owing to a reinterpretation of the stratigraphic position of the Kayenta formation.

PLANIMETRIC BASE MAP COMPILED FROM VERTICAL AERIAL PHOTOGRAPHS BY U. S. GEOLOGICAL SURVEY BY RADIAL TEMPLATE METHODS.

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

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

EMERY QUADRANGLE

**PHOTOGEOLOGIC MAP**  
**EMERY-9**  
**EMERY COUNTY, UTAH**

PHOTOGEOLOGY BY W. H. CONDON  
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH  
SCALE 1:24,000

APRIL 1953

Roads as classified in this map series are as follows: Primary roads are maintained and graded, travelable by two-wheel-drive vehicles; secondary roads are travelable possibly by two-wheel-drive vehicles; trails are not travelable 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 Bull. 836C, 1929



(200)  
767mm  
no 588  
cp. 2