

EXPLANATION

Kmv		CRETACEOUS	
Mesaverde formation			
Kmm	Upper		
Kme			
Kmb			
Kmf			
Kmt			
Mancos shale		JURASSIC	
Masuk member, Kmm;			
Emery sandstone member, Kme;			
Blue Gate shale member, Kmb;			
Farron sandstone member, Kmf;			
Tununk shale member, Kmt			
Kd			Lower and Upper
Dakota sandstone			
Jmu	Upper		JURASSIC
Jmi			
Morrison formation			
Upper unit, Jmu;			
lower unit, Jmi			
Js	Middle and Upper	JURASSIC (?)	
Je			
Summerville formation			
Jc	Upper	TRIASSIC	
Jn			
Entrada sandstone			
Jk	Upper	TRIASSIC (?)	
Jl			
Carmel formation			
Jm	Upper	TRIASSIC (?)	
Jn			
Navajo sandstone			
Jk	Upper	TRIASSIC (?)	
Jl			
Kayenta formation			
Jw	Upper	TRIASSIC	
Jx			
Wingate sandstone			
Rcu	Upper	TRIASSIC	
Rcl			
Chinle formation			
Upper unit, Rcu;			
lower unit, Rcl			
Rm	Lower	PERMIAN	
Rs			
Shinarump conglomerate			
Rm	Lower	PERMIAN	
Pkc			
Moenkopi formation			
Kaibab limestone and Coconino sandstone, undifferentiated			

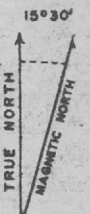
- Contact  
(Can be accurately located within 30 feet horizontally)
- Contact  
(Can be approximately located within 30 to 200 feet horizontally)
- Contact  
(Cannot be located accurately; probable error greater than 200 feet)
- Syncline  
Showing trace of axial plane and direction of plunge  
(Approximately located)
- Strike and dip of beds  
(Based on photo-interpretation)
- Dip component
- Conspicuous resistant bed within a formation  
(May be traceable only locally)
- Strike of approximately vertical joints  
(Based on photo-interpretation)
- Secondary road
- Trail

Note: On this map the Chinle formation is divided into two units; the upper, an even-toned "shaly" unit, is divided from the lower "mottled" unit by a break in slope and tone. Although the roads shown on this map are visible only in part on the aerial photographs, their appearance and the nature of the terrain suggests that they may be traversable by four-wheel-drive vehicles.

Base map compiled by Special Maps Branch of the U. S. Geological Survey

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

CIRCLE CLIFFS QUADRANGLE



PHOTOGEOLOGIC MAP  
CIRCLE CLIFFS-1  
GARFIELD COUNTY, UTAH

PHOTOGEOLOGY BY J. M. SCOTT  
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH  
SCALE 1:24,000  
JANUARY 1953

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 modified from U. S. Geol. Survey Oil and Gas Inv., Map OM 131, 1952; U. S. Geol. Survey Prof. Paper 164, 1931; and Am. Assoc. Petroleum Geologists Bull., vol. 6, no. 3, May-June, 1922.

CIRCLE CLIFFS-1

