



EXPLANATION

SEDIMENTARY ROCKS

Qal Alluvium and wind-blown sand

Jsr San Rafael group, undifferentiated

Jn Navajo sandstone

Jk Kayenta formation

Jw Wingate sandstone

Ts Chinle formation

(Present in this area but covered by alluvium and wind-blown sand)

Tm Shinarump conglomerate

Pcd Moenkopi formation

Pcor

Pcc

Pcha

Cutler formation

DeChelly sandstone member, Pcd, Organ Rock tongue, Pcor, Cedar Mesa sandstone member, Pcc, Hualapai tongue, Pcha,

IGNEOUS ROCKS

Ti Dikes

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)

Probable or doubtful contact

Strike and dip of beds

(Based on photo-interpretation)

Horizontal beds

Strike of approximately vertical joint system

(Based on photo-interpretation)

Mine or quarry

Secondary road

Trail

Uninterpretable linear feature on photograph

(May be geologically significant)

Note: In this area the Wingate sandstone formation is composed of an upper collan facies and a lower thin-bedded sandstone-siltstone facies. Although these two units can be differentiated on aerial photographs, they are mapped here as a single formation.

The Mesquero tongue of the Cutler formation, generally thin in this area, is here included in the Muenkpl formation.

PHOTOGEOLOGIC MAP  
SETSILTZO SPRINGS-4  
NAVAJO INDIAN RESERVATION  
APACHE COUNTY, ARIZONA  
SAN JUAN COUNTY, UTAH

PHOTOGEOLOGY BY R. G. RAY  
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH  
SCALE 1:24,000

Stratigraphic column for this area modified from U. S. Geol. Survey B-11, 865 and U. S. Geol. Survey unpublished maps.

52-118

Planimetric base map compiled by U. S. Geological Survey from photo-mosaics prepared by Fairchild Aerial Surveys and from other aerial photographs.

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3	2	1
5	6	7
12	11	10
13	14	15

SETSILTZO SPRINGS  
QUADRANGLE