GEOLOGICAL SURVEY

ATOMIC ENERGY COMMISSION

COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 530

53-113

110°52'30" 110°50'00" 110°47'30" 110°45'00"

38°52'30" 38°50'00" 38°47'30" 38°45'00"

EAGLE CANYON

ROAD HOLLOW

△San Rafael Knob 7934

FAMILY BUTTE

Airstrip

Dam

EXPLANATION

QUATERNARY

Qal — Alluvium and slope wash

JURASSIC (?)

Jn — Navajo sandstone

Jk — Kayenta formation

Jw — Wingate sandstone

TRIASSIC

Trc — Chinle formation

Trs — Shinarump conglomerate

Upper

Trm3

Trm2

Lower

Trm1

Moenkopi formation
upper unit, Trm3;
middle unit, Trm2;
lower unit, Trm1

PERMIAN

Pk — Kaibab limestone

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 contact

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

Probable or doubtful fault

Anticline
Showing trace of axial plane and direction of plunge
(Approximately located)

Syncline
Showing trace of axial plane and direction of plunge
(Approximately located)

Strike and dip of beds
(Based on photo-interpretation)

Strike of approximately vertical joints
(Based on photo-interpretation)

Primary road

Secondary road

Note: On aerial photographs the Moenkopi formation in the San Rafael Swell region can be divided into three units. Unit 2 is believed to be equivalent to the Sinbad limestone member of the Moenkopi formation. Numbers designating parts of the Moenkopi formation as used on this map apply only to the San Rafael Swell region and do not imply correlation with subdivisions of the Moenkopi formation in other areas.

Locally within the area of this map the Kaibab limestone cannot be distinguished from the Moenkopi formation on aerial photographs. Therefore its distribution as shown must be considered unreliable.

Stratigraphic column modified from U. S. Geol. Survey Bull. 806c, 1929.

BASE MAP COMPILED BY SOIL CONSERVATION SERVICE
U. S. DEPARTMENT OF AGRICULTURE

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

STINKING SPRING CREEK QUADRANGLE

TRUE NORTH 16°

PHOTOGEOLOGIC MAP
STINKING SPRING CREEK-6
EMERY COUNTY, UTAH

PHOTOGEOLOGY BY W. R. HEMPHILL
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH

SCALE 1:24,000

0 1 MILE

NOVEMBER 1952