

DEPARTMENT OF THE INTERIOR  
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE  
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, DESERT LAKE-8  
UTAH-EMERY COUNTY

TRACE ELEMENTS MEMORANDUM REPORT 761



EXPLANATION

- Qal, Qc  
Alluvium, Qal;  
covering deposits, undifferentiated, Qc
- Kbu  
Kbl  
Probable equivalent of the Burro Canyon formation  
Upper unit, Kbu; lower unit, Kbl
- Jmbb  
Jms  
Morrison formation  
Brushy Basin shale member, Jmbb;  
Salt Wash sandstone member, Jms
- Js  
Summerville formation
- Jcu  
Curtis formation
- Je  
Entrada sandstone
- Jc  
Carmel formation
- Jn  
Navajo sandstone

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

Fault  
Dashed where approximately located  
U, upthrown side, D, downthrown side

Probable, or doubtful fault

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

Strike and dip of beds  
Computed by photogrammetric methods

Approximate strike and dip of beds  
Based on photo-interpretation

Inferred strike and dip of beds  
Based on photo-interpretation  
of area where bedding is obscure

Conspicuous resistant bed within  
a formation  
May be traceable only locally

Strike of approximately vertical  
joint system  
Based on photo-interpretation

Uninterpretable linear feature  
on photograph  
May be geologically significant

Secondary road

Trail

Note: The lower unit of the probable equivalent of  
the Burro Canyon formation is believed to be the  
Buckhorn conglomerate of Stokes, and the upper  
unit, the Cedar Mountain shale of Stokes (Geol.  
Soc. America Bull. vol. 55, 1944).

Planimetric base map recompiled by  
U.S. Geol. Survey from Soil Conservation  
Map 182

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

DESERT LAKE  
QUADRANGLE

PHOTOGEOLOGY BY P. P. ORKILD  
SCALE 1:24,000  
MARCH 1954

Roads as classified in this map are as follows:  
Primary roads are marked 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.  
Where 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. 806-C, 1920. Geographic and geologic field  
data also from U.S. Geol. Survey Bull. 806-C, 1920.  
Map of this area has been compiled mainly from photo-  
geologic data but have not been checked in the field; hence  
they have not had the benefit of thorough evaluation with  
respect to maps compiled entirely from field data.

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

Utah (Desert Lake 8 quad.) Geol. 1:24,000. 1954p  
esp. 1.



M(200)  
R290  
no. 54-22-1  
C. 1