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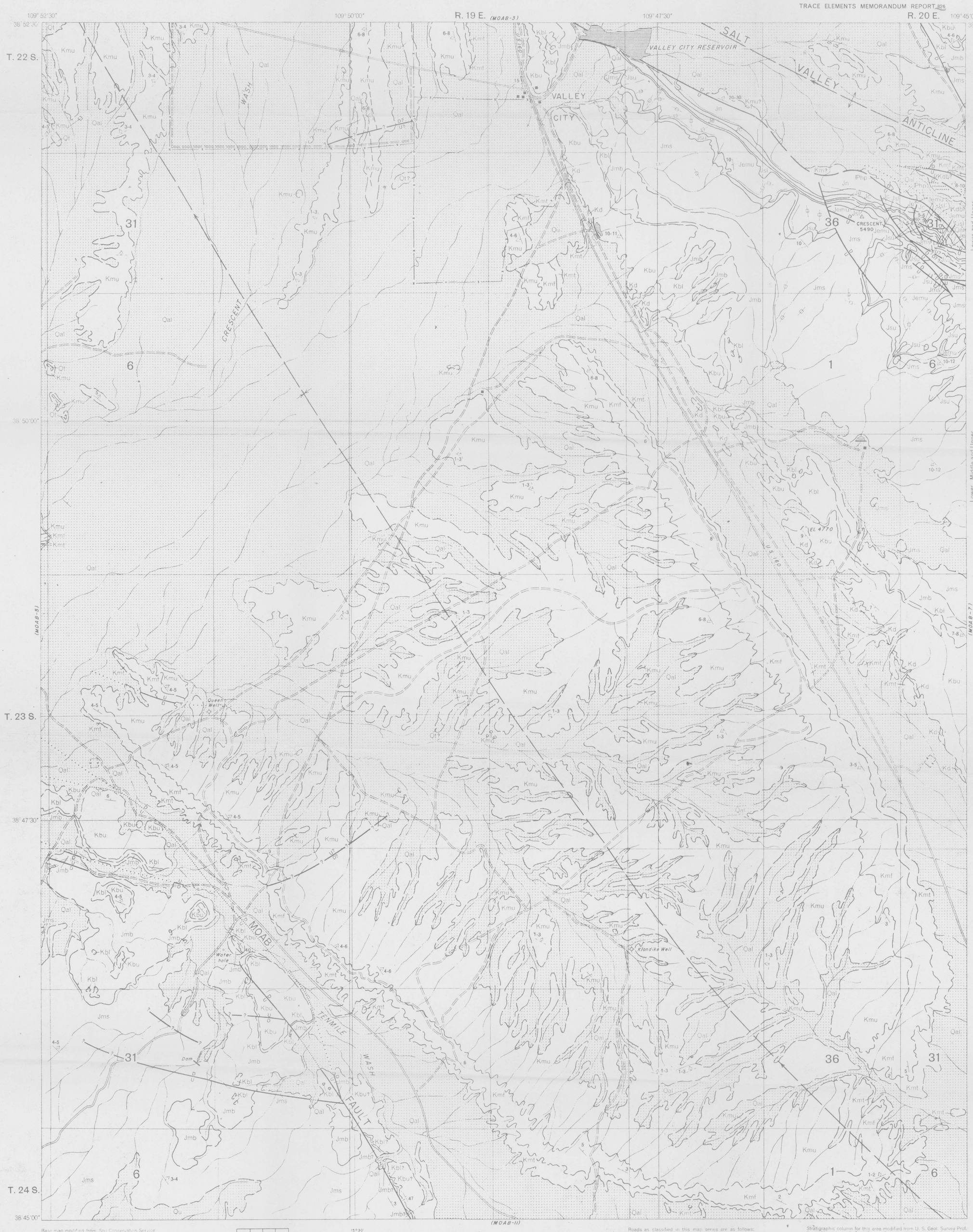
DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

PHOTOGEOLOGIC MAP, MOAB-6

UTAH - GRAND COUNTY

TRACE ELEMENTS MEMORANDUM REPORT 826



Base map modified from Soil Conservation Service map, Utah-229.

The aerial photographs used for photogeologic interpretation were taken in August and October 1952.

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

MOAB QUADRANGLE

15°30'
TRUE NORTH
MAGNETIC NORTH

PHOTOGEOLOGY BY J. S. DETTERMAN
SCALE 1:24,000
0 — 1 MILE
SEPTEMBER 1954

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 for this area modified from U. S. Geol. Survey Prof. Paper 228, 1953; U. S. Geol. Survey Bull. 908, 1940; and U. S. Geol. Survey Bull. 865, 1935; geographic and geologic field data also from Bulls. 908 and 863.

Maps of this series have been compiled mainly from photogeologic 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.

EXPLANATION

QUATERNARY

Qal — Alluvium

Qt — Terrace deposits

Qu — Undifferentiated sand, residual mantle, and slope wash

CRETACEOUS

Upper Cretaceous

Kmu, Kmf, Kmt — Mancos shale
Upper part, undifferentiated, Kmu; Ferron sandstone member, Kmf; Tununk shale member, Kmt

Lower and Upper Cretaceous

Kd — Dakota sandstone

Kdb — Dakota sandstone and the probable equivalent of the Burro Canyon formation, undifferentiated

Lower Cretaceous

Kbu, Kbl — Probable equivalent of the Burro Canyon formation
Upper unit, Kbu; lower unit, Kbl

JURASSIC

Upper Jurassic

Jmb, Jms — Morrison formation
Brushy Basin shale member, Jmb; Salt Wash sandstone member, Jms

Jsu, Jemu, Jsl, Je — Summerville formation
Upper part, Jsu; lower part, Jsl
Entrada sandstone, Je; Upper part of Moab tongue, Jemu

Middle and Upper Jurassic

Jc — Carmel formation

Lower Jurassic

Jn — Navajo sandstone

PENNSYLVANIAN

IPhp — Paradox member of Hermosa formation

Contact
Can be located within 30 feet horizontally.

Contact
Can be located within 30 to 200 feet horizontally.

Contact
Cannot be located accurately, probable error greater than 200 feet horizontally.

Probable contact

Conspicuous bed within a formation
May be traceable only locally.

Fault
Dashed where approximately located
U, upthrown side; D, downthrown side
Questioned where probable.

Concealed fault

Anticline
Showing crest line and direction of plunge
Approximately located.

Syncline
Showing trough line and direction of plunge
Approximately located.

Strike and dip of beds
Based on field measurement.

Approximate strike and dip of beds
Based on photo-interpretation.

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

Strike of approximately vertical joints
Based on photo-interpretation.

Linear feature uninterpretable on photograph
May be geologically significant.

Dry hole

Primary road

Secondary road

Trail

Fence

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).