



GRAVITY EXPLANATION

Grav. contour (contour where inferred contour interval is 5 mgals; simple Bouguer gravity anomaly values)

Bottom gravity station

Land gravity station

Grav. base station

SYMBOLS

Spring

Oil well

Well with oil shows

Dry hole

Proposed well

on profile

Projected location of well

GEOLGY EXPLANATION

QUATERNARY

Qal Alluvium and lake deposits, undifferentiated

TERTIARY

Trv Volcanics

Trs Sedimentary rocks, undifferentiated

P Paleozoics, undifferentiated

Pre Cambrian, undifferentiated

TERTIARY

Tr Intusive rocks

FAULTS

Fault based on geology

Dashed where inferred

Dotted where inferred

on downthrown side

Thrust fault

Saw teeth on side of upper plate

Fault concealed

Inferred from gravity data, fill

on downthrown side

Plate 2
Bull. 116
Simple Bouguer Gravity Anomaly and Generalized Geologic Map of the Great Salt Lake

STATE OF UTAH
Department of Mineral Resources
Utah Geological and Mineral Survey

GRAVITY REDUCTION
For Bouguer correction, the following densities were assumed: at 1.22 gm/cc for lake water, and 0.267 gm/cc for land from surface to mean sea level.

SOURCES OF GRAVITY DATA
Lake area - bottom gravity meters
Denver Mapping Agency, Hydrographic-Geographic Center (formerly U.S. Army Map Service), Washington, D.C. July-August, 1958
Bull. 116 - land gravity meters
K. L. Cook, J. W. Berg, Jr., W. W. Johnson, and R. T. Noveck, 1966

APPROXIMATE UTM
DECLINATION, 1963

TRUE NORTH
MAGNETIC NORTH

SCALE 1:250,000

CENTIMETERS
MILES

CONTOUR INTERVAL 5 MILLIGALS
DATUM IS MEAN SEA LEVEL

1179-2
1173 30'

1173 15'
41 00'
41 00'
41 00'

111 45'

Simple Bouguer Gravity Anomaly and Generalized Geologic Map of the Great Salt Lake, Utah
by Kenneth L. Cook, Edward F. Gray, Robert M. Iverson,
and Martin T. Strohmeter
1979