EXPLANATION

Tertiary lava

Paleozoic undivided

Cambrian Tintic Quartzite

Contact

Steep faults and shear zones

Thrust fault
Sawteeth on upper plate

○GS 37
U.S. Geological Survey drill hole less than 60 feet deep

●BC 5
Drill hole more than 100 feet deep

BC, *Bear Creek*
CC, *Chief Consolidated*
EP, *Eureka Prospect*
GS, *U.S. Geological Survey*
GS 7 t, *U.S. Geological Survey Trixie*
N, *Newmont*
NL, *North Lily*
TS, *Tintic Standard*

4595 5104 1100 LEVEL
Mine workings
Showing approximate elevation, in feet. Location of measured temperature shown by dot; dots not on illustrated workings are points in raises or other workings not shown

Flat or inclined drill hole

Inclined winze

54.4; gr 4.6
q 4.0; W 104
4771; 93.6
Thermal data

54.4, *mean annual surface temperature, in degrees Fahrenheit. Parentheses indicate figure is only approximate and is from surface isothermal map*
gr 4.6, *geothermal gradient, in degrees Fahrenheit per 100 feet*
q 4.0, *heat loss in microcalories per square centimeter per second, at the surface*
w 104, *calculated temperature, in degrees Fahrenheit, at ground-water level (elevation about 4,550 feet)*
4771, *elevation, in feet, where temperature was measured closest to ground-water level*
93.6, *temperature, in degrees Fahrenheit, measured closest to ground-water level*
Note: Not all data may be shown in all boxes

3
Isograms showing heat loss, in microcalories per square centimeter per sec (q/sec)
Isogram interval 1 q/sec

Base from U.S. Geological Survey topographic quadrangle: Eureka, 1:24,000, 1954

APPROXIMATE MEAN DECLINATION, 1965

SCALE 1:9600

0 ½ 1 MILE

0 .5 1 KILOMETER

CONTOUR INTERVAL 25 FEET
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1965—G65028

Geology generalized from T. S. Lovering and others (1960)

QUADRANGLE LOCATION

EAST TINTIC THERMAL AREA LOCATION

MAP OF EAST TINTIC THERMAL AREA, UTAH, SHOWING HEAT LOSS AT THE SURFACE, IN MICROCALORIES PER SQUARE CENTIMETER PER SECOND, MAJOR GEOLOGIC FEATURES AT THE WATER TABLE (ELEVATION APPROXIMATELY 4,550 FEET), AND SURFACE AND SUBSURFACE THERMAL DATA