



EXPLANATION

SEISMIC NETWORK

- Basic seismometer station
- Supplementary station
- Central recording station and timer

HYPOCENTER LOCATIONS

- 2.1-3.0 Magnitude (Richter)
- 1.6-2.0 Magnitude (Richter)
- 1.0-1.5 Magnitude (Richter)

FIRST MONTH

SEA LEVEL

SECOND MONTH

THIRD MONTH

Pie segment indicates range of focal depth, above or below sea level, in thousands of feet
Ring segment indicates first or second half of month

MINES

- Haulage ways and bleeders
- Mine portal
- (1) Mined-out area or coal
- (2) Coal mined this quarter

GEOLOGY

- Fault of surface
- Fault at mine level

NOTE: U, upthrown side; D, downthrown side.
Divergence between faults at mine level and faults at surface due to relief and moderate dip of fault plane.

Flat Station

Scale: 0 2000 4000 6000 8000 10,000 FEET
SCALE 1:24,000

APPROXIMATE MEAN DECLINATION, 1969

Geology compiled from maps of the Sunnyside district (Osterwald, 1961), Columbia mine area (Osterwald, Durrell and Maberry, in press), and Geneva mine area (C. R. Durrell and H. K. Barnes, 1963-65).

Figure 3.--Map of the Sunnyside Mining District, Utah, showing topography, faults, coal outcrops, major mine workings, and tremor hypocenters (map position and focal depths) for the period January through March 1967

(200)
R29a
md.1165

PLEASE REPLACE IN BOOKET
IN BACK OF BOUND VOLUME

U.S. GEOLOGICAL SURVEY
LIBRARY
FEB 14 1969
DENVER