



EXPLANATION

SEISMIC NETWORK

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

HYPOCENTER LOCATIONS

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

SEA LEVEL

- 0-2 FIRST MONTH
- 2-4 SECOND MONTH
- 4-6 THIRD MONTH
- 6-8 FOURTH 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

- Haulageways 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 of surface due to relief and moderate dip of fault plane.

Base from U.S. Geological Survey Sunnyside (1915 reprinted 1948), Woodside (1948), Range Creek (1954), and Flat Canyon (1954) quadrangles, 1:62,500. United States Steel Corp. reference grid (in thousands of feet). Haulageways and bleeders of the mine workings shown compiled from Kaiser Steel Corp., United States Steel Corp., and Book Cliffs Coal Co. mine maps.

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

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Figure 4.--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 April through June 1967

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