



EXPLANATION

SEISMIC NETWORK

- Basic seismometer station
- Supplementary station
- Central recording station and 1 minute

HYPOCENTER LOCATIONS

- 2.1-3.0 1.6-2.0 1.0-1.5
- Magitude (Richter)
- PIE SEGMENT INDICATES RANGE OF FOCAL DEPTH, ABOVE OR BELOW SEA LEVEL, IN THOUSANDS OF FEET
- HYPOCENTER LOCATIONS
- PIE SEGMENT INDICATES FIRST OR SECOND HALF OF MONTH
- SEA LEVEL
- PIE SEGMENT INDICATES FIRST OR SECOND HALF OF MONTH
- PIE SEGMENT INDICATES RANGE OF FOCAL DEPTH, ABOVE OR BELOW SEA LEVEL, IN THOUSANDS OF FEET
- PIE 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 of mine level

NOTE: U, upthrown side; D, downthrown side. Divergence between faults of 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). Haulage ways 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 Heberry, in press), and Geneva mine area (C. R. Danrud and B. K. Barnes, 1963-65).

SCALE 1:24,000

0 2000 4000 6000 8000 10,000 FEET

APPROXIMATE MEAN DECLINATION, 1969

Figure 5.--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 July through September 1967

(200)
R290
no. 1165

U.S. GEOLOGICAL SURVEY
LIBRARY
FEB 14 1969
DENVER

PLEASE REPLACE IN PROPER
IN BACK OF BOOK