

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Analytical data from geologic sampling in the  
eastern San Juan Mountains, Colorado  
1966 to 1968

By

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This report is preliminary and has not been  
edited or reviewed for conformity with U.S.  
Geological Survey standards and nomenclature.

This open-file report consists of analyses of geologic samples collected in nine areas of the eastern San Juan Mountains, Colorado. These areas are conspicuous because of alteration and mineralization; they are generally within centers of volcanism. The areas and samples are shown on 11 maps; approximately 700 analyses are presented in 17 tables and are keyed to the maps. The sample analyses are dominantly of rock but stream sediments, mineral separates and water are included.

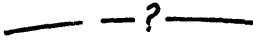
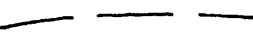
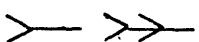


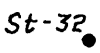

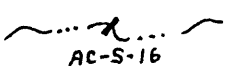
## Tables

Sheets 1-6	1a - Analyses of rock samples, St-series
Sheet 7	1b - Analyses of pyrite and barite, St-series
Sheet 8	1c - Analyses of stream sediments, AC-S-series
Sheet 8	1d - Radio element analyses, St-series
Sheets 9-11	2a - Analyses of rock samples, Em-series
Sheet 12	2b - Analyses of pyrite, Em-series
Sheet 12	2c - Analyses of stream sediments, Em-series
Sheets 13-14	3a - Analyses of rock samples, Ch-series
Sheet 14	3b - Analyses of pyrite, Ch-series
Sheets 15-17	4a - Analyses of rock samples, GC- and PS-series
Sheet 17	4b - Analyses of pyrite, GC-series
Sheet 17	4c - Analyses of stream sediments, GC-series
Sheet 18	5a - Analyses of rock samples, SKC-series
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## Maps

- Sheet 21 1a - Locations of samples, Summitville, Stunner Area,  
Summitville quadrangle
- Sheet 22 1b - Locations of samples, Jasper Area, Jasper quadrangle
- Sheet 23 1c - Locations of samples, Platoro Area, Platoro quadrangle
- Sheet 24 2 - Locations of samples, Embargo and Baughman Creeks Area,  
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- Sheet 25 3 - Locations of samples, Crystal Hill Area, Lime Creek  
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- Sheet 30 7a - Locations of samples, Summer Coon Area, East,  
Twin Mountains SE quadrangle
- Sheet 31 7b - Locations of samples, Summer Coon Area, West, Twin Mountain  
quadrangle

# MAP EXPLANATION

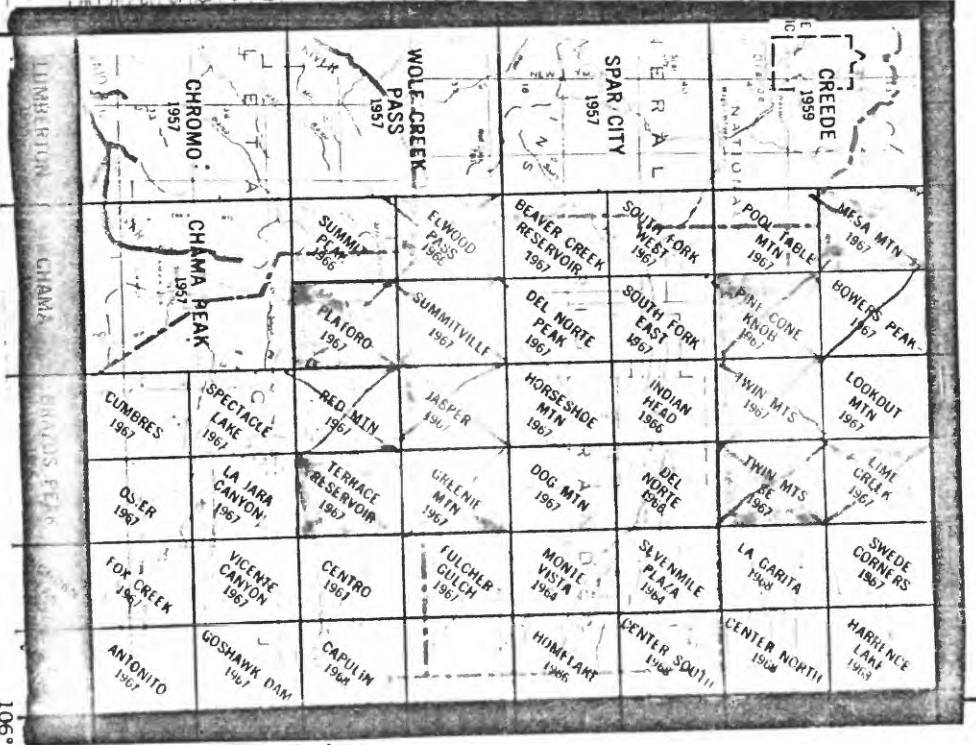
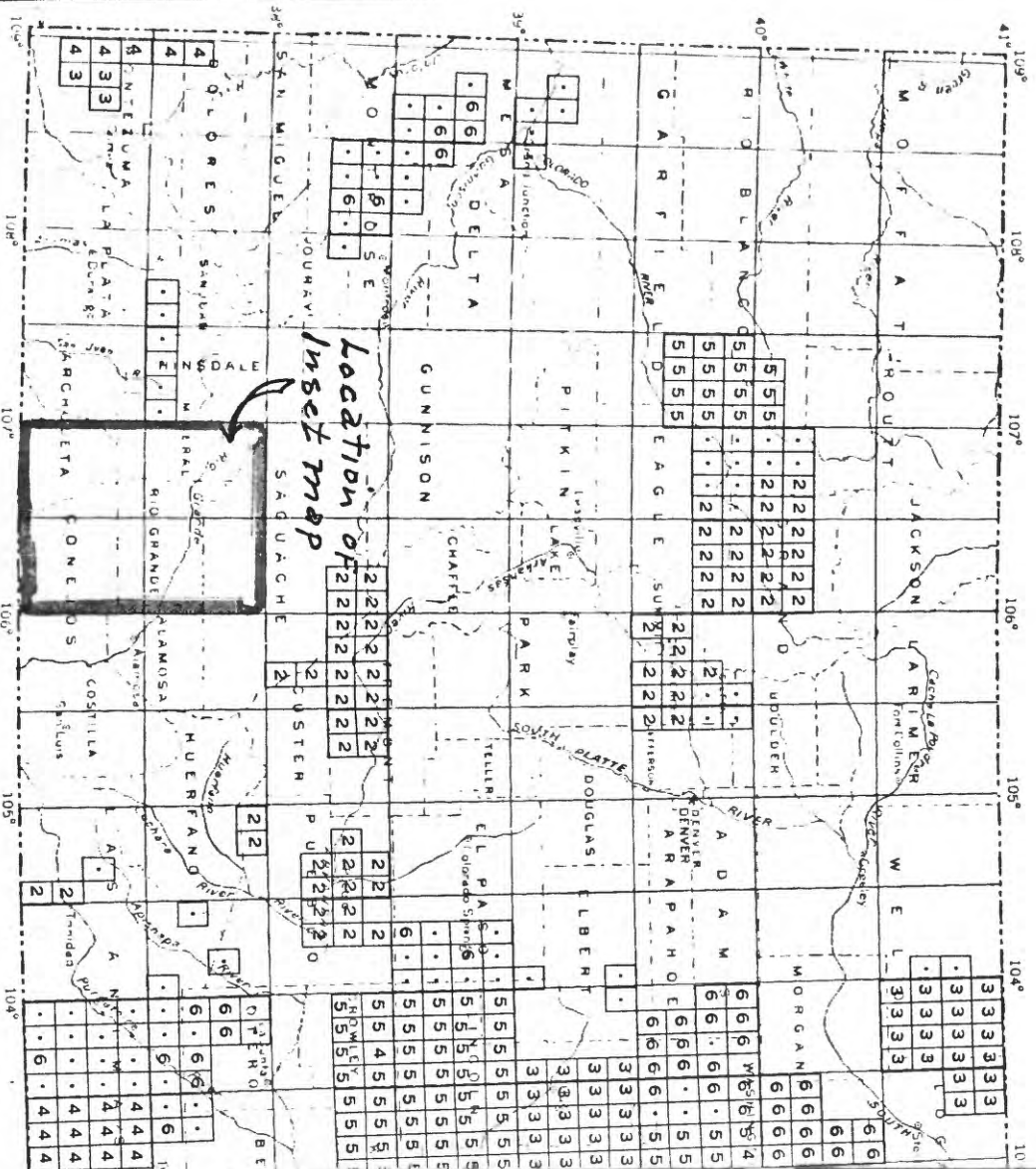
-  FAULT--Queried where uncertain or projected
-  CONTACT--Placed during reconnaissance mapping
-  MINE ADIT(S)
-  MINE SHAFT
-  PROMINENT PROSPECT
-   SAMPLE LOCALITY SHOWING NUMBER
-  STREAM SEDIMENT SAMPLE LOCATION SHOWING NUMBER

## References

- Lipman, P. W., 1968, Geology of the Summercoon volcanic center: Colorado School Mines Quart., v. 63, no. 3, p. 211-236.
- \_\_\_\_\_, 1974, Geologic map of the Platoro Caldera area, southeastern San Juan Mountains, southwestern Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map I-828.
- Sharp, W. N., and Cualtieri, J. L., 1968, Lead, copper, molybdenum and zinc geochemical anomalies south of the Summitville District, Rio Grande County, Colorado: U.S. Geol. Survey Circ. 557, 7 p.
- Steven, T. A., and Ratté, J. C., 1960, Geology and ore deposits of the Summitville District, San Juan Mountains, Colorado: U.S. Geol. Survey Prof. Paper 343, 70 p.

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Index map showing locations  
of sample areas (maps)