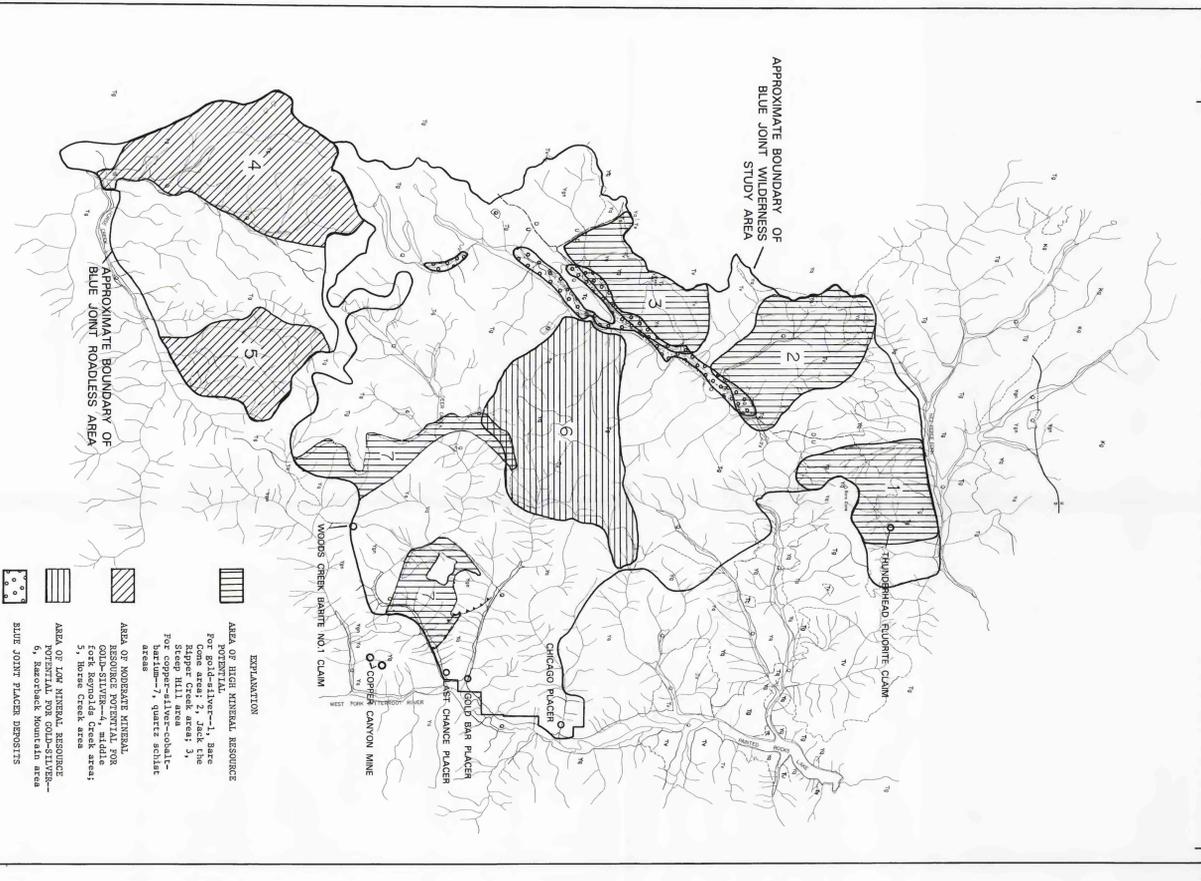


14°35'

144°50'

144°35'

45°30'



MAP A-AREAS OF HIGH MODERATE, AND LOW RESOURCE POTENTIAL FOR GOLD-SILVER AND COPPER-COALTSILVERBARITE

Base from U.S. Geological Survey, 1:250,000:  
Blue Joint, 1961; Horse Creek Barite, 1961;  
Thunderhead Fluorite, 1961;  
prints for Sheep Mt., Thunder Mt., Mt. Thunder  
Mt., Mt. Thunder Mt., St. and Thunder Mt., St.

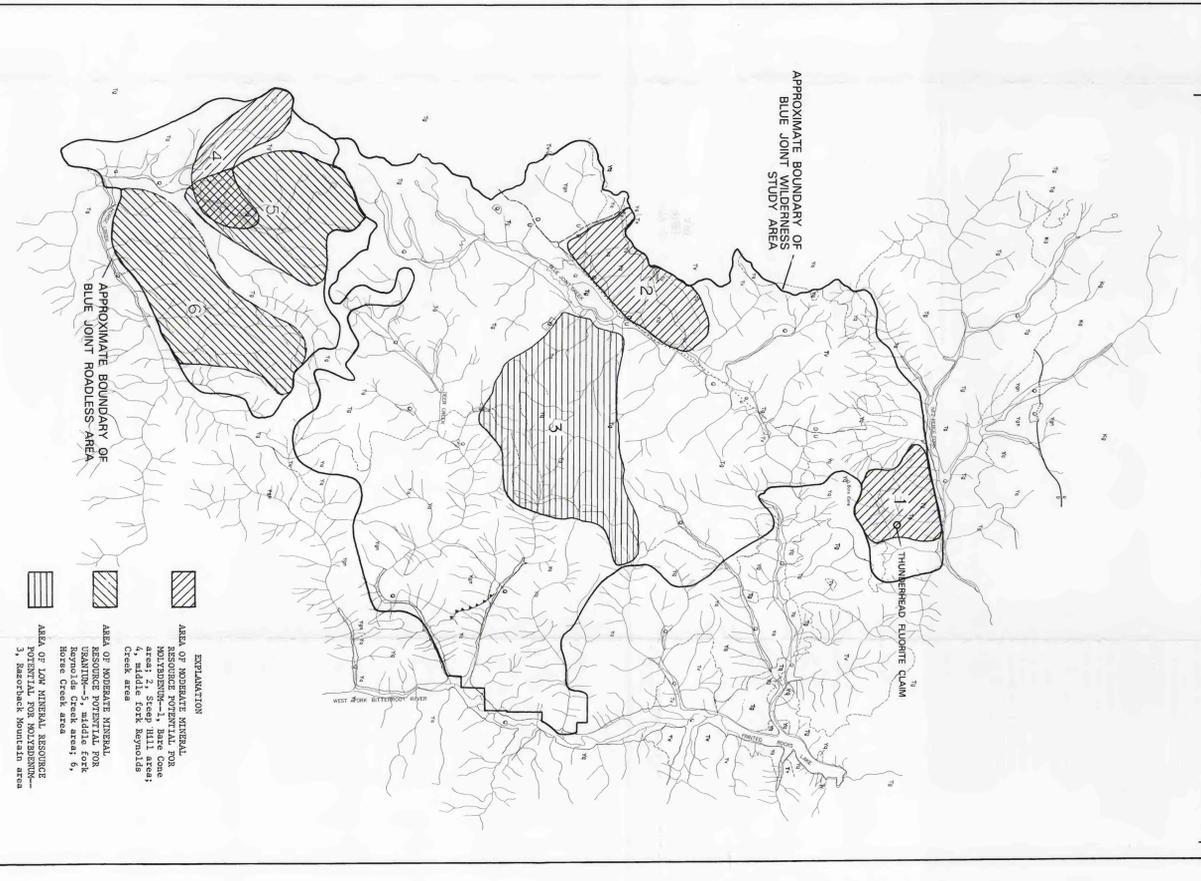
MINERAL RESOURCE POTENTIAL MAPS OF THE BLUE JOINT WILDERNESS STUDY AREA, RAVALLI COUNTY, MONTANA, AND THE BLUE JOINT ROADLESS AREA, LEMHI COUNTY, IDAHO

Karen Lund and Warren M. Rein, U.S. Geological Survey  
and  
John R. Benham, U.S. Bureau of Mines  
1983

144°35'

144°50'

45°30'



MAP B-AREAS OF MODERATE RESOURCE POTENTIAL FOR MOLYBDENUM AND URANIUM

Base from U.S. Geological Survey, 1:250,000:  
Blue Joint, 1961; Horse Creek Barite, 1961;  
Thunderhead Fluorite, 1961;  
prints for Sheep Mt., Thunder Mt., Mt. Thunder  
Mt., Mt. Thunder Mt., St. and Thunder Mt., St.

MINERAL RESOURCE POTENTIAL MAPS OF THE BLUE JOINT WILDERNESS STUDY AREA, RAVALLI COUNTY, MONTANA, AND THE BLUE JOINT ROADLESS AREA, LEMHI COUNTY, IDAHO

Karen Lund and Warren M. Rein, U.S. Geological Survey  
and  
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1983

EXPLANATION FOR GEOLOGIC BASE

Q	QUATERNARY
T <sub>3</sub>	TERTIARY
KG	CRETACEOUS
Y <sub>90</sub>	PROTEROZOIC Y
Y <sub>91</sub>	
Y <sub>92</sub>	
Y <sub>93</sub>	

LIST OF MAP UNITS

Q	Relative	QUATERNARY
T <sub>3</sub>	Relative	TERTIARY
KG	SPe (MONT)	CRETACEOUS
Y <sub>90</sub>	SPe (MONT)	PROTEROZOIC Y
Y <sub>91</sub>	SPe (MONT)	
Y <sub>92</sub>	SPe (MONT)	
Y <sub>93</sub>	SPe (MONT)	

The following correlation and list of units are for the geologic base map shown in gray.

STUDIES RELATED TO WILDERNESS

The Wilderness Act (Public Law 94-209, September 3, 1964) and related acts require the U.S. Geological Survey to study and report on the geologic resources of Federal land to determine their mineral resource potential. Reports must be made available to Congress. This report presents the results of a study of the Blue Joint Wilderness Study Area in Montana, and the Blue Joint Roadless Area in Idaho.

SUMMARY

The Blue Joint area is in the northern Bitterroot Mountains 90 mi south of Missoula, Mont., and consists of the Blue Joint Wilderness Study Area, the Blue Joint Roadless Area, and the Blue Joint Roadless Area. The Blue Joint area is in the northern Bitterroot Mountains 90 mi south of Missoula, Mont., and consists of the Blue Joint Wilderness Study Area, the Blue Joint Roadless Area, and the Blue Joint Roadless Area.

INTRODUCTION

The Blue Joint area is in the northern Bitterroot Mountains 90 mi south of Missoula, Mont., and consists of the Blue Joint Wilderness Study Area, the Blue Joint Roadless Area, and the Blue Joint Roadless Area. The Blue Joint area is in the northern Bitterroot Mountains 90 mi south of Missoula, Mont., and consists of the Blue Joint Wilderness Study Area, the Blue Joint Roadless Area, and the Blue Joint Roadless Area.

GEOLOGY

The Blue Joint area is underlain by the Painted Rock, and its metamorphic and magmatic rocks (Cretaceous) and its sedimentary and metasedimentary rocks (Tertiary). The Blue Joint area is underlain by the Painted Rock, and its metamorphic and magmatic rocks (Cretaceous) and its sedimentary and metasedimentary rocks (Tertiary).

DISTRIBUTION OF MINERAL RESOURCE POTENTIAL

A low mineral resource potential designation is given to areas having amounts of certain elements in 1 parts per million or less, or no mineral resource potential. A high mineral resource potential designation is given to areas having amounts of certain elements in 100 parts per million or more, or no mineral resource potential.

MINERAL RESOURCE POTENTIAL

High potential for gold and silver values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho. High potential for molybdenum and uranium values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho.

ASSESSMENT OF MINERAL RESOURCE POTENTIAL

High potential for gold and silver values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho. High potential for molybdenum and uranium values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho.

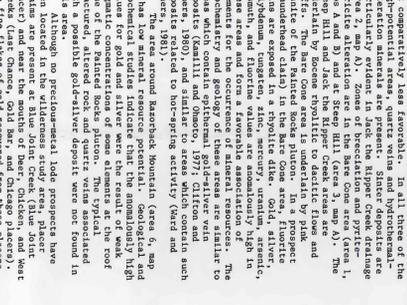
CONCLUSIONS

The Blue Joint area is in the northern Bitterroot Mountains 90 mi south of Missoula, Mont., and consists of the Blue Joint Wilderness Study Area, the Blue Joint Roadless Area, and the Blue Joint Roadless Area. The Blue Joint area is in the northern Bitterroot Mountains 90 mi south of Missoula, Mont., and consists of the Blue Joint Wilderness Study Area, the Blue Joint Roadless Area, and the Blue Joint Roadless Area.

REFERENCES CITED

- Benham, J. R., 1981, Uranium and thorium in the Blue Joint Wilderness Study Area, Ravalli County, Montana, U.S. Geological Survey Bulletin 1474-B, 16 p.
- Benham, J. R., 1982, Uranium and thorium in the Blue Joint Roadless Area, Lemhi County, Idaho, U.S. Geological Survey Bulletin 1474-C, 16 p.
- Benham, J. R., 1983, Uranium and thorium in the Blue Joint Roadless Area, Lemhi County, Idaho, U.S. Geological Survey Bulletin 1474-D, 16 p.

INDEX MAP SHOWING THE LOCATION OF THE BLUE JOINT WILDERNESS STUDY AREA (OJ341) AND ROADLESS AREA (OJ342)



APPENDIX A

High potential for gold and silver values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho. High potential for molybdenum and uranium values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho.

APPENDIX B

High potential for gold and silver values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho. High potential for molybdenum and uranium values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho.

MISCELLANEOUS FIELD STUDIES

High potential for gold and silver values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho. High potential for molybdenum and uranium values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho.

APPENDIX C

High potential for gold and silver values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho. High potential for molybdenum and uranium values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho.

APPENDIX D

High potential for gold and silver values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho. High potential for molybdenum and uranium values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho.

APPENDIX E

High potential for gold and silver values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho. High potential for molybdenum and uranium values were found in the Blue Joint Wilderness Study Area, Ravalli County, Montana, and the Blue Joint Roadless Area, Lemhi County, Idaho.