INTERVAL AND PURPOSE

The U.S. Bureau of Reclamation (USBR) Marion Field Office has completed a geological mapping project of the 30 x 60 minute quadrangle of Marion County, Ohio. The purpose of the mapping is to provide a detailed geologic overview of the area for potential mining-related activities. The mapping project involved the collection and interpretation of geologic data from various sources, including land surveys, geophysical surveys, and core samples.

This mapping project is intended to provide a comprehensive understanding of the geologic conditions within the quadrangle, which can be useful for potential mining operations, such as coal mining, as well as for other types of resource development. The mapping effort includes the identification and mapping of bedrock geology, coal seams, and other geologic features that may be relevant for mining activities.

OBJECTIVES

The objectives of this project are:

1. To provide a detailed geologic overview of the 30 x 60 minute quadrangle of Marion County, Ohio.
2. To map and delineate the bedrock geology, coal seams, and other geologic features that may be relevant for mining activities.
3. To identify potential areas for coal mining and other types of resource development.

METHODS

The mapping was performed using a variety of methods, including:

1. Interpretation of existing geologic maps and data.
2. Collection of field data, such as land surveys and geophysical surveys.
3. Analysis of core samples.
4. Use of aerial photography and satellite imagery.

RESULTS

The mapping project resulted in a detailed geologic map of the 30 x 60 minute quadrangle of Marion County, Ohio. The map includes a variety of geologic units, such as bedrock formations, coal seams, and other geologic features. The map is provided in three different forms:

1. Large-scale geologic map of the quadrangle.
2. Detailed geologic maps of specific areas within the quadrangle.
3. Summary maps that provide an overview of the geologic conditions within the quadrangle.

CONCLUSION

The completed mapping project provides a comprehensive geologic overview of the 30 x 60 minute quadrangle of Marion County, Ohio. This information can be used by potential mining operators and other stakeholders to make informed decisions about resource development activities. The mapping project also provides a valuable resource for future geologic investigations and resource management efforts.

ACKNOWLEDGEMENTS

The US Bureau of Reclamation (USBR), Marion Field Office, Marcellus Coal and Energy Resources Program, and Marion County, Ohio, are thanked for providing financial support for this project. The USBR thanks employees of the Marion Field Office for their efforts in completing this project. The USBR also thanks Dr. Douglas E. Shanks, Dr. R. D. Walker, and Dr. R. D. Sibley for their contributions to this project.