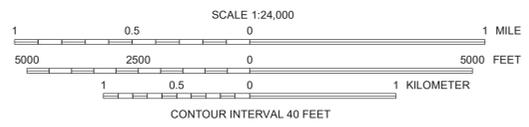


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Base from USGS Moab 7.5' quadrangle (1985), slopeshade derived from the USGS 10-meter National Elevation Dataset (NED) (2009), and aerial photography from the National Agriculture Imagery Program (NAIP, 2011). Projection: UTM Zone 12 Datum: NAD 1983

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## SHALLOW BEDROCK POTENTIAL MAP OF THE MOAB QUADRANGLE, GRAND COUNTY, UTAH

by  
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|   |   |   |                          |
|---|---|---|--------------------------|
| 1 | 2 | 3 | 1. Merrimac Butte        |
| 2 | 4 | 5 | 2. The Windows Section   |
| 3 | 6 | 7 | 3. Big Bend              |
| 4 | 7 | 8 | 4. Gold Bar Canyon       |
| 5 |   |   | 5. Rill Creek            |
| 6 |   |   | 6. Shaler Basin          |
| 7 |   |   | 7. Trough Springs Canyon |
| 8 |   |   | 8. Kane Springs          |

ADJOINING 7.5' QUADRANGLE NAMES



### EXPLANATION

- Not Mapped – Area not mapped due to significant and ongoing human disturbance.
- Shallow Bedrock Categories**
- H** **Hard** – Area where generally hard and resistant (when unweathered) bedrock is exposed at the ground surface. Bedrock units in this category typically require blasting to excavate; includes bedrock units older than Tertiary age.
- S** **Soft** – Area where less resistant bedrock is exposed at the ground surface. Generally, soft bedrock can be excavated without blasting, although local blasting may be required.
- B** **Buried** – Area where bedrock is likely less than 10 feet (3 m) beneath the surface.
- D** **Deep** – Area where bedrock is likely greater than 10 feet (3 m) beneath the surface.

### USING THIS MAP

This map shows locations where bedrock is exposed at the ground surface or is present in the shallow subsurface. The map is intended for general planning purposes to indicate where shallow bedrock conditions may exist and special investigations may be required. This map is not intended for use at scales other than 1:24,000, and is designed for use in general planning. The UGS recommends site-specific geotechnical/geologic hazard investigations be conducted; shallow bedrock should be indicated when identified in these investigations. Site-specific geotechnical/geologic-hazard investigations can resolve uncertainties inherent in generalized mapping and help ensure safety by identifying the need for special foundation designs, mitigation, and/or construction techniques. The presence and severity of bedrock conditions, along with other geologic hazards, should be addressed in these investigations. If shallow bedrock is present at a site, appropriate design and construction recommendations should be provided.

For additional information about shallow bedrock in the Moab quadrangle, refer to the accompanying report.