GEOLOGIC MAP AND COAL RESOURCES OF THE
EMERY WEST QUADRANGLE, EMERY AND SEVIER COUNTIES
UTAH

By Philip T. Hayes and Joseph D. Sanchez
### GEOLeGIC MAP SYMBOLS
**COMMONLY USED ON MAPS OF THE UNITED STATES GEOLOGICAL SURVEY**
(Special symbols are shown in explanation)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>———— Contact Dashed where approximately located; short dashed where inferred; dotted where concealed</td>
<td></td>
</tr>
<tr>
<td>———— Contact Showing dip; well exposed at triangle</td>
<td></td>
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<tr>
<td>———— Fault Dashed where approximately located; short dashed where inferred; dotted where concealed</td>
<td></td>
</tr>
<tr>
<td>———— Fault, showing dip Ball and bar on downthrown side</td>
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<tr>
<td>———— Normal fault Hachured on downthrown side</td>
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<tr>
<td>———— Fault Showing relative horizontal movement</td>
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<tr>
<td>———— Thrust fault Sawteeth on upper plate</td>
<td></td>
</tr>
<tr>
<td>———— Anticline Showing direction of plunge; dashed where approximately located; dotted where concealed</td>
<td></td>
</tr>
<tr>
<td>———— Asymmetric anticline Short arrow indicates steeper limb</td>
<td></td>
</tr>
<tr>
<td>———— Overturued anticline Showing direction of dip of limbs</td>
<td></td>
</tr>
<tr>
<td>———— Syncline Showing direction of plunge; dashed where approximately located; dotted where concealed</td>
<td></td>
</tr>
<tr>
<td>———— Asymmetric syncline Short arrow indicates steeper limb</td>
<td></td>
</tr>
<tr>
<td>———— Overturued syncline Showing direction of dip of limbs</td>
<td></td>
</tr>
<tr>
<td>———— Monocline Showing direction of plunge of axis</td>
<td></td>
</tr>
<tr>
<td>———— Minor anticline Showing plunge of axis</td>
<td></td>
</tr>
<tr>
<td>———— Minor syncline Showing plunge of axis</td>
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</tbody>
</table>

**Strike and dip of beds**
Ball indicates top of beds known from sedimentary structures

- **Horizontal**
- **Inclined**
- **Overturued**

**Strike and dip of foliation**

- **Inclined**
- **Vertical**
- **Horizontal**

**Strike and dip of cleavage**

- **Inclined**
- **Vertical**
- **Horizontal**

**Bearing and plunge of lineation**

- **Inclined**
- **Vertical**
- **Horizontal**

**Strike and dip of joints**

- **Inclined**
- **Vertical**
- **Horizontal**

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**Note:** Planar symbols (strike and dip of beds, foliation or schistosity, and cleavage) may be combined with linear symbols to record data observed at same locality by superimposed symbols at point of observation. Coexisting planar symbols are shown intersecting at point of observation.

**Shas**

- **Vertical**
- **Inclined**

**Adit, tunnel, or slope**

- **Accessible**
- **Inaccessible**

**Prospect**

**Quarry**

- **Active**
- **Abandoned**

**Gravel pit**

- **Active**
- **Abandoned**

**Oil wells**

- **Drilling**
- **Shut-in**
- **Dry hole**

- **Gas**
- **Show of gas abandoned**

- **Oil**
- **Show of oil**