1981

Geological Map and Coal Sections of the Mahogany Point Quadrangle, Emery County, Utah

United States Geological Survey

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GEOLOGIC MAP AND COAL SECTIONS OF THE MAHOGANY POINT QUADRANGLE, EMERY COUNTY, UTAH

By

Eugene G. Ellis and Joseph R. Frank

1981
**Map and Coal Sections of the Mahogany Point Quadrangle, Emery County, Utah**

By Eugene G. Ellis and Joseph R. Frank

1961

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**Table: Stratigraphic Sequence of Exposed Rocks**

<table>
<thead>
<tr>
<th>System</th>
<th>Series</th>
<th>Formation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quaternary</strong></td>
<td></td>
<td></td>
<td>Various deposits, including gravel, sand, and clay, with some coal and coal-bearing strata.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Surficial deposits</td>
<td>Includes recent alluvium, lake deposits, and other recent sediments.</td>
</tr>
<tr>
<td><strong>Tertiary</strong></td>
<td>Unconformity</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eocene</td>
<td>Various deposits, including sandstone, siltstone, and conglomerate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cretaceous</td>
<td>Includes sandstone, shale, and conglomerate.</td>
</tr>
<tr>
<td><strong>Sedimentary</strong></td>
<td></td>
<td></td>
<td>Various deposits, including sandstone, shale, and conglomerate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Castlegate Formation</td>
<td>Includes sandstone and shale.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Uinta Formation</td>
<td>Includes sandstone and shale.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green River Formation</td>
<td>Includes sandstone and shale.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Price River Formation</td>
<td>Includes sandstone and shale.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Includes sandstone and shale.</td>
</tr>
</tbody>
</table>

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**Map Legend**

- Coal seams are shown as black lines.
- Other geological features are indicated with various symbols and colors.

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**Coal Seam Data**

- North Mary Seam: Thin, located near the bottom of the coal bed.
- Price River Seam: Thicker, located near the center of the coal bed.
- Middle of Mary Seam: Located near the top of the coal bed.

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**Note:** The map and coal sections were compiled by Eugene G. Ellis and Joseph R. Frank in 1961.
MEASURED COAL SECTIONS

EXPLANATION

- Coal, thickness in feet
- Shale, thickness in feet
- Clay, thickness in feet
- Limestone, thickness in feet
- Sandstone, thickness in feet
- Shale, thickness in feet
- Coal, thickness in feet
- Shale, thickness in feet
- Clay, thickness in feet
- Limestone, thickness in feet
- Burnt rock
- Sandstone
- Shale
- Coal
- Shale

Note: symbols combined where circled.

- Concluded interval
- Drilled interval, thickness in feet
- Coal section noted on map
- CMP-10
- CMP-11
- CMP-12
- CMP-13
- CMP-14
- CMP-15

UPSL-15 Coal section published by permission of Utah Power and Light Co.

No horizontal scale
MEASURED COAL SECTIONS

EXPLANATION

- C Coal, thickness in meters
- D Dry coal, thickness in meters
- R Dry rock, thickness in meters
- B Bands, thickness in meters
- A Ash, thickness in meters
- E112 Banded rock
- C Coal, constant color white
- S Shale
- G. Gypsum
- Sf Siltstone

Note: symbols combined where intersected

- Concealed shale
- X Coalified shale, thickness in meters
- C Coal section located on map
- CMX-14 Coal sections this report
- CMX-15 Coal section modified after Speck (1931)

CML 13 Coal section published by permission of Utah Power and Light Co.

METERS WEST

No horizontal scale
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MEASURED COAL SECTIONS

EXPLANATION

- Coal, thickness in meters
- Shale, thickness in meters
- Sand, thickness in meters
- Silt, thickness in meters
- Alluvial fill
- Barren rock
- Corrosion zone
- Shale
- Sandstone
- Siltstone

Note: symbols combined when interrupted

- Concretion interval
- Depleted interval, thickness in meters
- Coal section located on map
- CMP (X)
- CDP (Y)
- Coal sections this report
- CMP (Z)

S.15 Coal section modified after Spitzer (1933)
UPRL. 19 Coal section published by permission of shaft Power and Light Co.
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