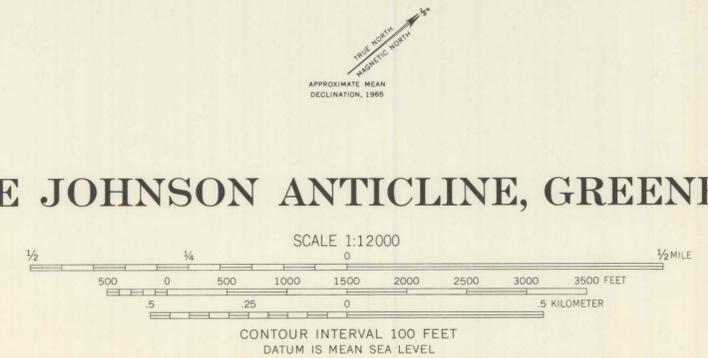


Base from Tennessee Valley Authority and U.S. Geological Survey topographic quadrangles: Greenville, 1940, and Mosheim, 1939

Geology by J. C. Dunlap, 1944

# GEOLOGIC MAP OF THE JOHNSON ANTICLINE, GREENE COUNTY, TENNESSEE



|                   |  |   |
|-------------------|--|---|
| Middle Ordovician |  | Athens Shale and Whitesburg Limestone   |
|                   |  | Lenoir Limestone<br>Includes Mosheim Member at the base   |
| Lower Ordovician  |  | Upper part of Knox Group<br>Includes Mascot Dolomite and may include upper part of Kingsport Limestone along axis of main anticline |

|  |   |
|--|---|
|  | Contact<br>Dashed where approximately located   |
|  | Fault, showing dip<br>Dashed where approximately located; short dashed where inferred. U, upthrown side; D, downthrown side |
|  | Thrust fault<br>Dashed where approximately located; short dashed where inferred. Sawteeth on upper plate                    |
|  | Tear fault<br>Dashed where approximately located. Arrows indicate relative movement   |

## EXPLANATION

|  |   |
|--|---|
|  | Anticline<br>Showing trace of axial plane and bearing and plunge of axis. Dashed where approximately located            |
|  | Overturned anticline<br>Showing trace of axial plane and bearing and plunge of axis. Dashed where approximately located |
|  | Syncline<br>Showing trace of axial plane and bearing and plunge of axis   |
|  | Overturned syncline<br>Showing trace of axial plane and bearing and plunge of axis                                      |
|  | Strike and dip of beds  |
|  | Strike and dip of overturned beds   |
|  | Strike of vertical beds   |
|  | Barite occurrence<br>In residual soil or bedrock  |

- Prospect Mine
1. Tine Britton barite prospect
  2. J. J. King barite prospect
  3. Matt Cox barite prospect
  4. Roberta Johnson zinc prospect
  5. R. P. Johnson barite mine
  6. R. P. Johnson zinc prospect
  7. Maxwell Emmet Harmon barite mine
  8. Nell Harmon barite prospect
  - 8a. W. H. Matthews barite prospect
  9. James Berkey barite prospect
  10. N. C. Hartman barite mine 1
  11. N. C. Hartman barite mine 2