

Ground-Water Resources of MORROW COUNTY

by
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Index Map

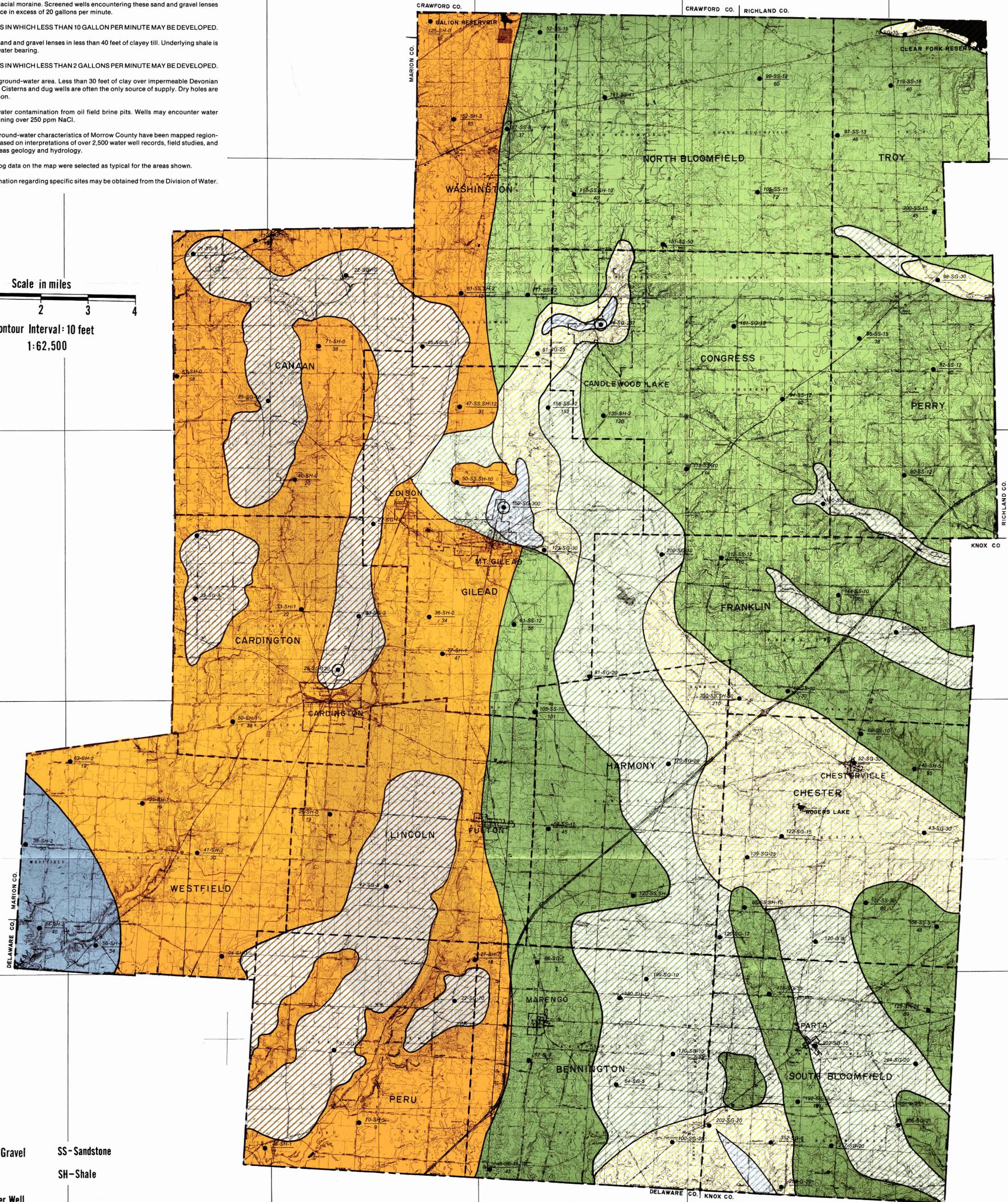
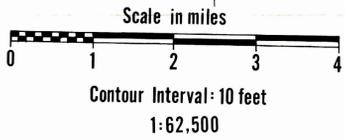


- AREAS IN WHICH 100 TO 300 GALLONS PER MINUTE MAY BE DEVELOPED.**
- Specially designed wells drilled over 200 feet into limestone through impervious shale will produce over 300 gallons per minute. Wells usually contain hydrogen sulfide.
 - Coarse sand and gravel deposits buried in ancestral drainage channels may produce over 100 gallons per minute, suitable for municipal and industrial use. Test drilling is recommended to locate the more permeable material.
- AREAS IN WHICH 25 TO 100 GALLONS PER MINUTE MAY BE DEVELOPED.**
- Sand and gravel deposits in deep buried valleys yield over 25 gallons per minute. Over 100 feet of glacial material may cover the water bearing deposits.
- AREAS IN WHICH 10 TO 25 GALLONS PER MINUTE MAY BE DEVELOPED.**
- Ground water obtained from Mississippian sandstone and shale. Principal water producing units are the Berea sandstone and the members of the Cuyahoga group. Bedrock is covered with 10 to over 100 feet of glacial drift. Hydrogen sulfide is often found in the Berea sandstone.
 - Interlensing sand and gravel deposits between thick clay layers in buried valleys and glacial moraine. Screened wells encountering these sand and gravel lenses produce in excess of 20 gallons per minute.
- AREAS IN WHICH LESS THAN 10 GALLON PER MINUTE MAY BE DEVELOPED.**
- Thin sand and gravel lenses in less than 40 feet of clayey till. Underlying shale is non-water bearing.
- AREAS IN WHICH LESS THAN 2 GALLONS PER MINUTE MAY BE DEVELOPED.**
- Poor ground-water area. Less than 30 feet of clay over impermeable Devonian shale. Cisterns and dug wells are often the only source of supply. Dry holes are common.
 - Salt water contamination from oil field brine pits. Wells may encounter water containing over 250 ppm NaCl.

The ground-water characteristics of Morrow County have been mapped regionally, based on interpretations of over 2,500 water well records, field studies, and the areas geology and hydrology.

Well log data on the map were selected as typical for the areas shown.

Information regarding specific sites may be obtained from the Division of Water.



- SG - Sand & Gravel
- G - Gravel
- Water Well
- ⊙ Industrial - Municipal Well

Depth (ft.) - Water bearing Formation - Yield (gpm)
Depth to Bedrock (ft.)

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cartography: vk