ABANDONED COMMERCIAL GAS POOLS

AREA OF GREATER POTENTIAL

AREA OF LESSER POTENTIAL

Elevation above sea level

LEGEND

CLINTON COUNTY MISSOURI

LEGEND

DOUGLAS GROUP

LANSING GROUP

KANSAS CITY GROUP

PLEASANTON GROUP

MARMATON GROUP

by Jack S. Wells

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Oil and Gas in Clinton County, Missouri

by Bruce Netzler

The first record of drilling was in 1887, in NE 1/4, sec. 20, T. 57 N., R. 72 W., three miles northwest of Hemp. The well, drilled to 791 ft., was unproductive.

An east-west cross section of the county is shown directly below the county map. On the cross section, the major sand zones, which are the potential oil and gas-producing intervals, are marked. Their depth varies with topography, but generally, because the regional dip of the beds is 20 to 50 feet to the northwest, they are deeper in the west than in the eastern parts of the county.

The geologic column on this page shows the rock types that may be encountered when drilling in the county. The beds that may contain oil or gas are marked. Based on subsurface structure there are certain areas that have greater potential than others for oil and gas accumulation, and they are so marked. This does not mean that oil or gas will be found in these areas — only that the potential is higher.

Information About Drilling a Gas Well

1. The operator of the well will be required to file certain forms and follow certain rules in compliance with the Oil and Gas Council Rules and Regulations before drilling, completing, and/or abandoning a well. Monthly well status and production reports may be required by the state geologist upon application in the event that gas production by an owner is for his sole and private use. A copy of the Oil and Gas Council Rules and Regulations is available from the Department of Natural Resources, Division of Geology and Land Survey, P.O. Box 250, Rolla, Missouri 65401, or call 314/364-1752.

2. To protect any potential water horizon, hire a competent driller familiar with casing and cementing requirements.

3. Groundwater must be protected from contamination by proper casing and cementing.

4. Proper maintenance of gas wells is important — gas leaks can be dangerous. Natural gas is odorless, but commercial gas companies usually add an easily detectable odorant supplement to warn of gas leaks.

5. Some gas wells produce water and vapor. In the winter, when gas is most needed, water vapor condenses and collects in low places in the pipes and may freeze, causing ruptures in the line. If a separator is used, the water separated will be soft water, and disposing of it may be avoided.

6. A well approximately 600 feet deep will cost an estimated $4,000 to $6,000. There are drillers who are cheaper, but be careful, because some may not follow Oil and Gas Council Rules, a practice that could result in contamination of your water supply.

7. Remember, there are more nonproducing wells than producing wells.

1 Geologist, Missouri Department of Natural Resources, Division of Geology and Land Survey, P.O. Box 250, Rolla, Missouri 65401

References


Missouri Department of Business and Administration, Division of Geologist Survey and Water Resources, 1969. The stratigraphic succession in Missouri. Rolla, Missouri, v. 40, 2nd Series.

Rules and Regulations of Missouri Oil and Gas Council


*Publication is out of print