CLAY COUNTY
MISSOURI

LEGEND

ABANDONED COMMERCIAL GAS POOLS

AREA OF GREATER POTENTIAL

AREA OF LESSER POTENTIAL

Elevation above sea level

KANSAS CITY 200' GROUP

PLEASANTON 300' GROUP

MARMATON GROUP

SQUIRREL 350' GROUP

CHEROKEE GROUP

WARNER SS. 600'

To T.D. of 1080'

To T.D. of 1300'

LEGEND

AREA OF GREATER POTENTIAL

AREA OF LESSER POTENTIAL

by Jack S. Wells ♠ and Bruce Netzer ♠

January 1981
Gas
MISSISSIPAN

Oil and Gas in Clay County, Missouri
by Bruce Netzler

The first record of drilling in Clay County was in 1888. The well, owned by Randolph Coal Company, was drilled near Randolph Station. It was drilled to 848 ft., and a trace of oil was reported at 148 ft.

An east-west cross section of the country 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 degrees to the west-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 varied by the state geologist upon application in the event that gas production by an owner is for the 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 260, Rolla, Missouri 65401, or call 314/364-1972.

2. To insure protection of any potable 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 flammable, but commercial gas companies usually add an easily detectable odor supplement to warn of gas leaks.

5. Some gas wells produce gas and water 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 salt water, and disposing of it may be a problem.

6. A well approximately 600 feet deep will cost an estimated $4,000 to $6,000. There are drills 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.

T Geologist, Missouri Department of Natural Resources, Division of Geology and Land Survey, P.O. Box 260, Rolla, Missouri 65401

References

"Diary, J., 1943, Oil and gas resources of Cass and Jackson Counties, Missouri Geological Survey and Water Resources, v. 27, 2nd Series.


"Department of Business and Administration, Division of Geological 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


Published by Oil and Gas Council.