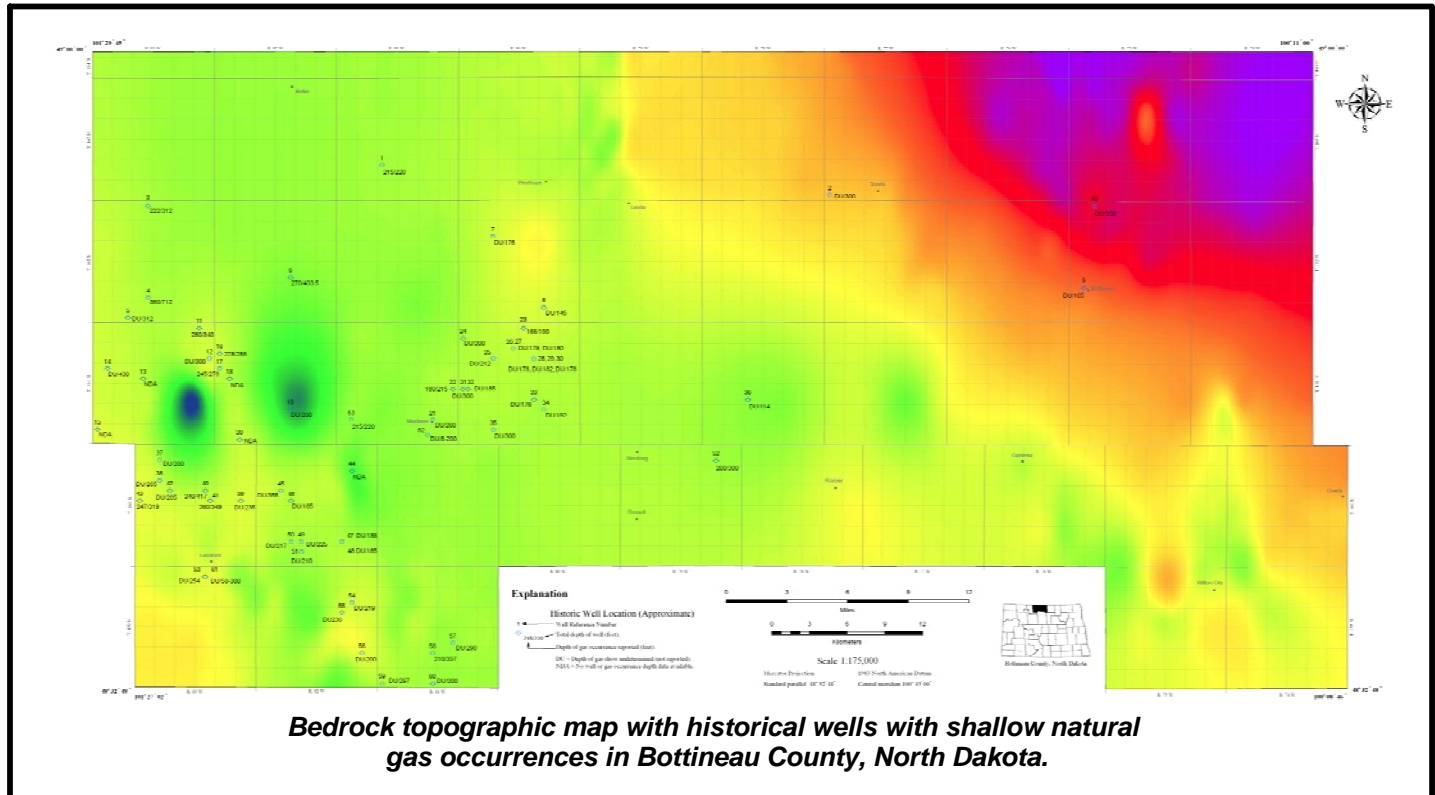


HISTORICAL SHALLOW NATURAL GAS OCCURRENCES IN WELLS IN BOTTINEAU COUNTY, NORTH DAKOTA



Bedrock topographic map with historical wells with shallow natural gas occurrences in Bottineau County, North Dakota.

NDGS GEOLOGICAL INVESTIGATIONS NO. 28 (GI-28)

Abstract

Several wells in the Bottineau County area have had occurrences of natural gas reported from them during the time of their initial drilling. This investigation describes the locations of historic wells that were reported to have contained a gas “show” or occurrence during drilling in the early part of the 20th Century in north-central North Dakota (Simpson, 1929). Depths of reported gas occurrence ranged from 165-350 feet below land surface. Reported gas occurrences are dominantly from within basal sands and gravels located beneath the Pleistocene glacial sedimentary cover that overlies shallow Cretaceous bedrock and from within the uppermost units of shallow Cretaceous bedrock of the Fox Hills and Hell Creek Formations present in the subsurface throughout the county. Some of the wells with reported occurrences reported the presence of coal occurring at selected intervals within the well.