North Dakota Geological Survey
Geologic Investigations No. 128

Locations of FID Shallow Gas Occurrences in North Dakota

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PLATE 10

2010

LZ-1
LZ-2
LZ-3
LZ-4
LZ-5
LZ-6
LZ-7
LZ-8

PLATE 10: MAP SHOWING COMPILATION OF POSITIVE FID RESPONSES AND LINEAMENT ZONES

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FOR
ND OIL & GAS RESEARCH COUNCIL
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Explanation

The investigation of shallow natural gas occurrences within existing ground-water observation and stock wells was conducted in a reconnaissance fashion during the 2006 - 2010 field seasons in 52 selected counties in North Dakota. A total of 9,390 monitoring well sites were considered for field investiagtion and testing. Of these, 4,325 were found to exist in the field and were tested for the presence of methane using a portable flame-ionizion detector (FID). A total of 905 wells (21%) returned positive FID instrument readings consistent with a methane shallow gas occurrence and are presented on this map at a scale of 1:500,000. 3,420 wells showed no response (0.0 ppm as methane in air). The intent of this map is as an exploration tool, to help identify potential candidate areas for future oil and gas exploration and focused field investigation.

- FID Shallow Gas Occurrence
- Other Wells Tested, No FID Response
- County Boundaries
- Township Boundaries
- Highways
- Cities

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1:1,000,000

Scale 1:500,000

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