The investigation of shallow natural gas occurrence to locates existing ground-water wells
and stock wells, and to increase the understanding of ground-water flow and transport in
the region. Existing ground-water wells and stock wells, collected through the
investigation, were analyzed for total gas in water (TGW) and the amount of carbon
compounds in the water. Ground-water wells were selected from the existing
observation well inventory and existing stock well inventory, based on accessibility,
geologic setting, and proximity to land-use units. The results of the investigation will
be used to develop a preliminary quantitative assessment of shallow gas occurrence.

Five wells (153-94-23CCC1, 150-99-15DDD, 149-95-9CDD, 151-103-11AAA, and
150-18-1AA) were visited to determine presence of shallow gas and geologic setting.
Existing wells that were visited included those located in the northern half of
McKenzie County, eastern quarter sections only, and one well located in the
northeastern section of the county. The selected wells were visited in order to
conduct additional analysis and potentially focus future field investigative and
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