
**The McCully Gas Field:
production, reserves and challenges**

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The McCully Field was discovered near Sussex, New Brunswick, in 2000. Eight wells have been completed within the McCully structure and all wells show a thick sequence of gas-filled interbedded lacustrine sandstones and organic shales deposited within lacustrine deltas, shorelines and fluvial systems of the Hiram Brook Member.

The wells have been on production to the PCS mill since April 2003 and have averaged nearly two mmcfpd (more than one bcf total) with little depletion, indicating an extensive reservoir.

Pressure buildups and production histories provide a good indication of well reserves. McCully # 1 (A-67) has 3.2 bcf of proven reserves despite producing from only the lower zone and having been severely damaged during completion. McCully #2 (P-66) has 9.6 bcf of proven reserves. The Proven and Probable (i.e. mean estimate) of the portion of the field under the 3D survey is 119 bcf. This is estimated to be ~ 20% of the McCully gas-bearing structure.

Challenges remain in the drilling and completion (fracing) of these wells. We will discuss some possible reasons for the failure of previous frac attempts. With a likelihood of over one tcf of gas in place, efficiencies of drilling and completions will determine the ultimate recovery percentage.
