Hydrofracking and Ecosystems

1. Read “Fracking Fury” by Janna Palliser. Based on this reading, answer the following questions:
   a. What is hydrofracking?

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   b. Where is the closest shale gas available to you?

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   c. Complete the chart below, based on the reading.

<table>
<thead>
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<th>Benefits of Hydrofracking</th>
<th>Drawbacks of Hydrofracking</th>
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   d. Based on what you have read, do you think hydrofracking should be allowed to continue? Explain your answer, using evidence from the article.

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2. Use the graph below to answer the following questions. This study, conducted by scientists at Duke University, examined methane concentrations in drinking water wells located at various distances from Marcellus gas wells in Pennsylvania.

![Graph showing methane concentration vs distance to nearest gas well]


a. What is the difference in methane concentration between active and non-active extraction areas?

b. What is the range in methane concentration for sampling sites that were in active extraction areas within 1000m from a gas well?

c. What do you think could be the cause of the variability in methane concentration in active extraction areas?