

Title of Paper in Upper and Lower Case Letters

Submitted by

Name of Student

El Centro College

GEOL 1401, Section 5_____, Fall 2016

Title of Paper in Upper and Lower Case Letters

Start typing your paper here (start with the words “**Paragraph 1:**” as indicated below and follow the directions for paragraph 1). Make sure to indent each paragraph and use double spacing for the text of the paper. The correct margins and fonts (all fonts are in Times New Roman) are already set up for you, you just need to type in the name of your paper in ALL CAPS (and leave the words “Running Head” as shown on page 1 only. All titles of your paper need to be exactly the same in the header sections and the top of page 2). As you type, the References page will always make itself your last page. You don’t have to do anything for this to happen! Please, though, double-check that you do not have any blank pages at the end, and that your reference page is it’s very own last page. Follow the guide below, you shall write 5 paragraphs. I have outlined for you what information should go into each paragraph. You should leave the bold words ‘**Paragraph 1..2..3..4..5**’. Other-wise you should type over my instructions for ALL sections. In paragraph 4, leave in the given Figures with your discussion. Cite your sources throughout your paper (Paragraphs 1, 2, and 3) by using in-text citations as needed (APA format is the author’s last name, year). Here is an example of a sentence with an in-text citation (Fields, 2015). Save your paper in a type OTHER THAN RTF (Rich Text Format), as these are very large file types, so your paper will not submit properly into Blackboard. The preferred versions are as a Word doc or PDF.

Paragraph 1:

Explain the process of hydraulic fracturing (cite your sources).

Paragraph 2:

Using information from the class Wiki write about the viewpoints that hydraulic fracturing **is not** causing earthquakes in North Texas (need at least 2 sources).

Paragraph 3:

Using information from the class Wiki write about the viewpoints that hydraulic fracturing **is** causing earthquakes in North Texas (need at least 2 sources).

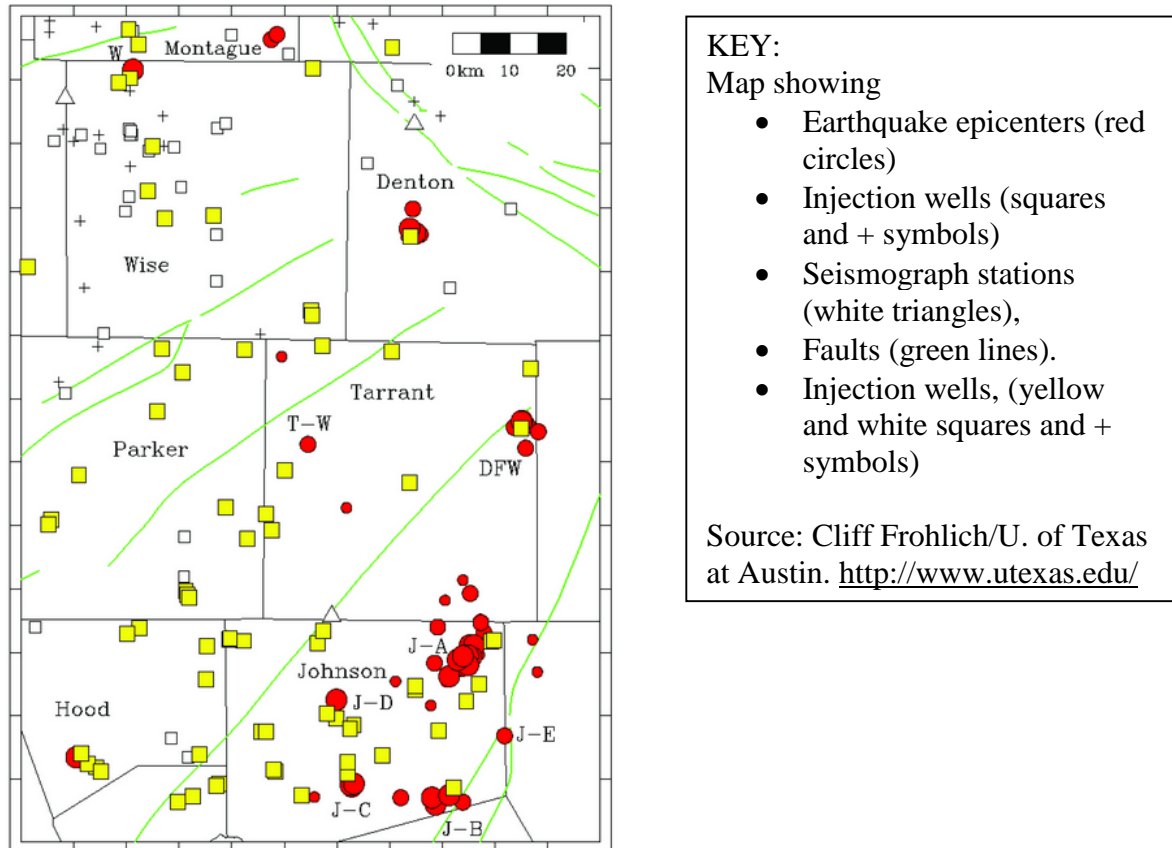
Paragraph 4:

In paragraph 4 you shall write about your interpretation of two Figures that contain information regarding HF activity and earthquake activity. This paragraph should contain your interpretations of the 2 Figures. Really there is no right or wrong answer as long as you write a careful explanation with reasons for your conclusions.

Instructions for Figure 1:

Study the map Figure 1 below and determine **if** you can see a relationship between where hydraulic fracturing/ post HF activity is occurring and the location of the earthquakes. I will not grade you on whether or not you find a relationship; I shall be grading you on your explanation for your conclusion.

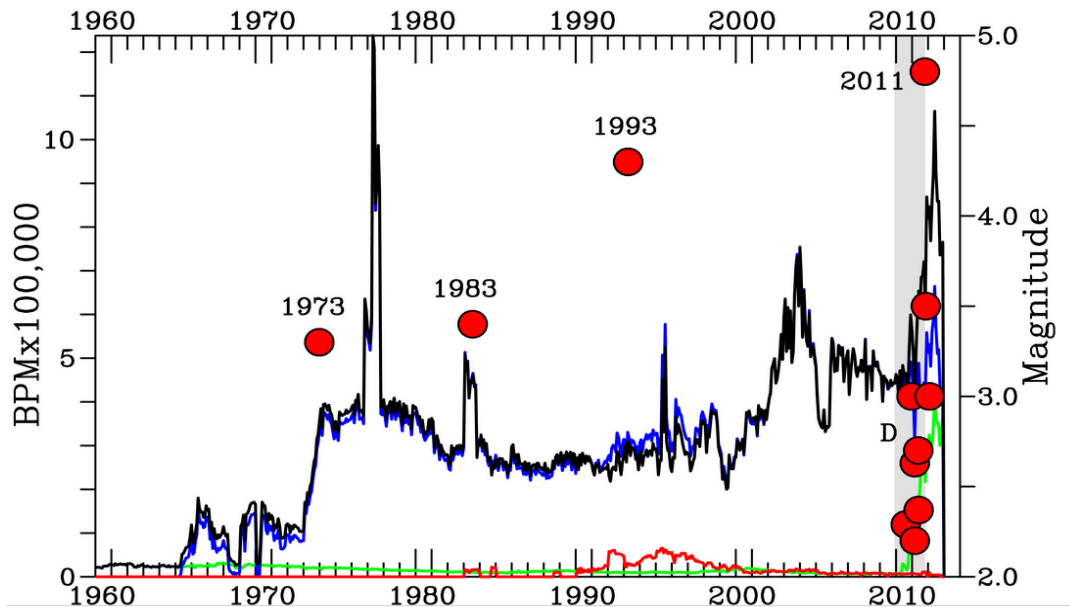
Figure 1



Instructions for Figure 2

Study the graph Figure 2 carefully; from the information can you discern a clear relationship between periods of high fluid removal and earthquake activity? Why or why not? Explain your answer in detail.

Figure 2



Graph denotes the relationship between earthquakes occurring around the town of Fashing, South Texas and the amount of fluid extracted from hydraulic fracturing sites around the Fashing area.

KEY for graph

- Left Y axis: BPM= barrels per month x 100 000
- Right Y axis: Magnitude of earthquake (the amount of energy released during an earthquake)
- Total fluid removed= black line
- Oil extracted= green line
- Water extracted= blue line
- Water injected= red line
- The gray shaded area indicates time interval when USArray station data was available. (A special type of large-scale seismic observation)

Graph produced by UT at Austin

Paragraph 5:

The last 5-7 lines will be your critical thinking paragraph. Answer the following questions inside of this paragraph (but do not include the numbers 1, 2, and 3):

1. Did you have preconceived ideas about this area of study before reading these articles? How have your ideas changed after reading the article and course material?

2. Why do you believe that this concept, research finding, theory or idea is important?
(Explain the relevance and complexity of the research findings.)
3. What question(s) has this research paper raised for you? What are you still wondering about? (NOTE: nothing is not an acceptable answer.)

Final Section or References on last page (Be sure to delete this section (the directions section), but leave in the word “References” at the top of the last page as seen on the next page and include your citations):

Cite your sources. At the end of your paper you must include a list of all the sources you used information from. The sources must be properly cited using APA style format. Use www.citefast.com for help completing this step.

References

Replace this with your references (2010). Washington, DC: American Psychological Association.