AP PHYSICS
Name: _____
Period: _____ Date: _____

DEVIL PHYSICS

BADDEST CLASS ON CAMPUS

PROFESSIONAL JOURNAL ARTICLE EXERCISE:
Complex Fluids at Work

You are about to read an article relating to fluid dynamics that is well beyond your level of understanding. Why are we doing this? There are two reasons: 1) It is in fulfillment of one of the key objectives of the Student Harassment Program and, 2) It is an exercise to show you just how much you can learn from a highly complex article by using the background knowledge you already have, and using clues given by the context of the material. The primary goal is to help develop your skills in deriving knowledge from very complex material. The secondary goal is to earn an easy 10 points and get out of listening to me lecture for one period.

Procedure:

1. Save this document in at least two places using the filename,

   "**FirstinitialLastnamePerXJourExComplexFluidsatWork**".

   The filename for my document would look like "KSmithPerA34JourExComplexFluidsatWork". Anytime you do work on a computer at school, the first thing you should do is save the file to your school folder. That way when the power goes out, the batteries run out, the internet goes down, we have a fire drill, yada yada yada, your work will be auto-saved and you will be able to retrieve it.

2. Type your name, period and date in the box at the top of this page.

3. ***Complete the exercise below by typing your answers in the boxes provided. Answer in complete sentences (subject, verb, predicate, capitalization, punctuation, the occasional clause, etc.).*** When you are finished, you can print a hardcopy and turn it in next class period.

4. This exercise is due May 12th (both classes). This exercise is worth 10 points.

Exercise:

1. Read the article entitled, "Complex Fluids at Work" which is a PDF file on the class webpage under today's assignments. The article is a commentary on a study done by someone else. The technical aspects are beyond your level of knowledge, so don't get bogged down in those aspects. Instead, try to use what you have learned about fluid dynamics to figure out what the author is saying.

2. What was the author's intent in writing this article: *advocacy/influence, informational, or directive*?

3. In one sentence, give the author's thesis.

4. In one or more paragraphs, summarize what the article tries to convey.

5. Why did the original 'topkill' operation fail?

6. What does the author say needs to be done in order for a ‘topkill’ operation to be successful?

7. List 10 or more words/concepts you are familiar with and rate your level of knowledge for that term/concept as *superficial, general, or in-depth*.

   a.

8. If you wanted a better understanding of this article, what terms or concepts would you need to learn more about? List 10 or more.

   a.

9. Pick one term or concept from your list of things you would have to learn, research it on the internet, and cut and paste the explanation below. Be sure to cite your source, no points off for format.