

Derricks to Desks
Summer 2005
Lesson Plan
Rick Woodson

- I. **Subjects to be Covered**
 - A. **Geology**
 - B. **Environment**
 - C. **Oceanography**

- II. **Class discussion/study**
 - A. **Review the geology of oilfield/gas fields**
 - B. **Review onland seeps, like in McKittrick and LaBrea**
 - C. **Research/discuss the oil seeps offshore Santa Barbara**
 - D. **Compare the visual effects of each**
 - E. **Discuss the environmental effects of each**
 - F. **Discuss how sea life seems to survive/thrive in this offshore environment, and how the public has to be reminded that the oil drops they step on at various beaches in the greater Santa Barbara area are not from the platforms, but from the natural seeps**
 - G. **Discuss how 6,000 gallons of oil/gas is distributed by ocean currents**

- III. **Field trip to the oil seeps**
- IV. **All of this followed by a research paper and Power Point presentation by the students on these aspects of the study of natural seeps**

Please keep in mind the students these lesson plans are designed for are students in the Taft Oil-Technology Academy, and have had extensive exposure/research/presentation experience on Geology, Exploration/Drilling, Production, and Environmental issues related to the Petroleum Industry.