

King Saud University

Petroleum and Natural Gas Engineering

PGE 362: **Properties of Reservoir Fluids**

**Due: Thursday, December 29**

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### **Special Homework**

Based on the attached paper:

Heavy Components Control Reservoir Fluid behavior”, William D. McCain Jr., SPE, S.A.  
Holditch & Assocs. Inc.

You are required to summarize the paper and answer the following questions;

What are the distinctive features of {black oils, volatile oils, condensate gases, wet gases, dry gases} in terms of:

- Initial GOR & GOR vs time
- Initial API & API vs time
- Compositions
- Color