**Supplementary Document 1: Questionnaire and Survey (before watching video)**

What do you know about the Permian Basin? Some questions have more than one correct answer; circle or check **all** that apply. Choose your confidence level about your answer. High confidence = very sure about the answer; low confidence = have some ideas but not very sure; Unsure = Not have a clue at all.

1. The Permian Basin covers which of the following states? **KEY: B and D**  
   A. Oklahoma  
   B. Texas  
   C. Louisiana  
   D. New Mexico
2. About how wide is the Permian Basin in general (W t o E)? **KEY: C**  
   A. 50 km  
   B 100 km  
   C 400 Km  
   D 1000 Km
3. Sediments filling the Permian Basin are mostly of what age? **KEY: B**  
   A. Precambrian  
   B. Paleozoic  
   C. Mesozoic  
   D. Cenozoic
4. What is the name of the basin that existed in the Permian Basin area before Mississippian time? **KEY: A**  
   A. Tobosa Basin  
   B. Delaware Basin  
   C. Midland Basin  
   D. Val Verde Basin
5. The greatest tectonic event affecting the Permian Basin occurred when? **KEY: C**  
   A. Devonian  
   B. Ordovician  
   C. Pennsylvanian  
   D. Paleogene
6. What is the maximum thickness of Permian Basin sediments? **KEY: B**  
   A. 15,000 m  
   B. 8,000 m  
   C. 2,000 m  
   D. 1,000 m
7. What are the major subbasins of the Permian Basin? (circle all that apply) **KEY: A and C**  
   A. Delaware Basin  
   B. Williston Basin  
   C. Midland Basin  
   D. Anadarko Basin
8. When was oil found in the Permian Basin? **KEY: C**  
   A. 1971  
   B. 1901  
   C. 1921  
   D. 1946
9. What kind(s) of rocks dominant the Permian Basin fill? **KEY: A and C**  
   A. Carbonates  
   B. Pyroclastics  
   C. Shale  
   D. Basalt flow
10. Evaporite sediments become abundant in the Permian basin at what time? **KEY: B**
11. Mississippian
12. Permian
13. Jurassic
14. Paleogene

Background Survey

1. Have your ever done any work or research in Permian Basin area? Yes ( ) No( )
2. Are you planning to work in oil & gas industry in the future? Yes ( ) No( )
3. Have you worked or research experience in oil & gas related projects? Yes ( ) No( )
4. Are you confident about geologic timescale knowledge? Yes ( ) No( )
5. Are you curious about Permian Basin geology?   
   Highly ( ) Neutral ( ) No ( )
6. Are you interested in sedimentology?   
   Highly ( ) Neutral ( ) No ( )