**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 ( )