

GEOP 415
SPRING 2010
Homework # 4
(21/5/2010)

Given the attached figure of a migrated stacked section:

1. Indicate a divergent internal shaped sequence. What is its depositional environment?
2. Indicate a prograding sigmoid internal shaped sequence. What is its depositional environment?
3. Indicate a chaotic internal shaped sequence.
4. Indicate a parallel internal shaped sequence.
5. Indicate an unconformity, determine its type, and justify your answer.
6. Indicate lowstand system tract and indicate the direction of sea-level change.
7. Indicate an onlap, a toplap, a downlap, and a truncation.
8. Indicate a sequence by indicating its boundaries.
9. Indicate a fault and determine its type.
10. Suggest a good location for drilling and justify your answer.

