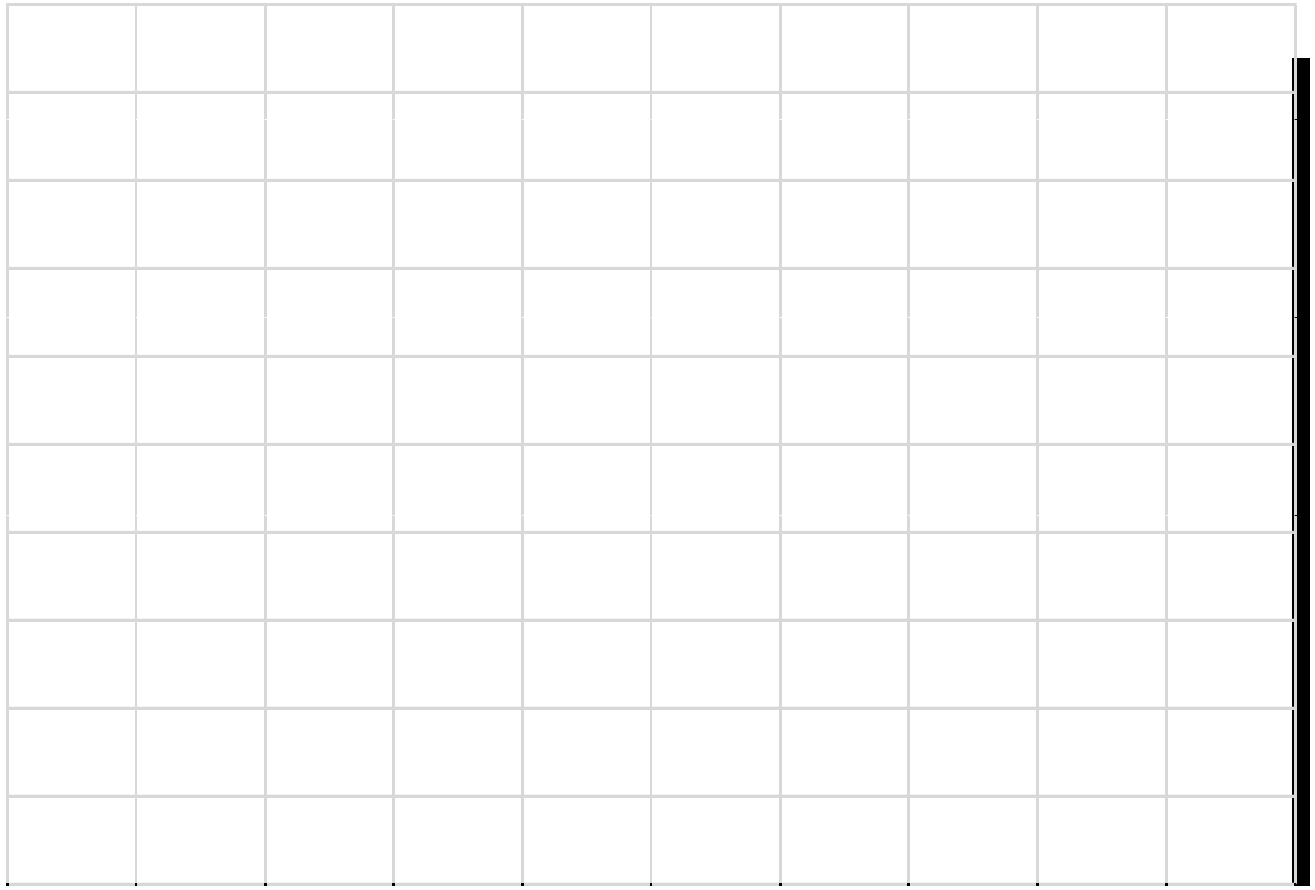
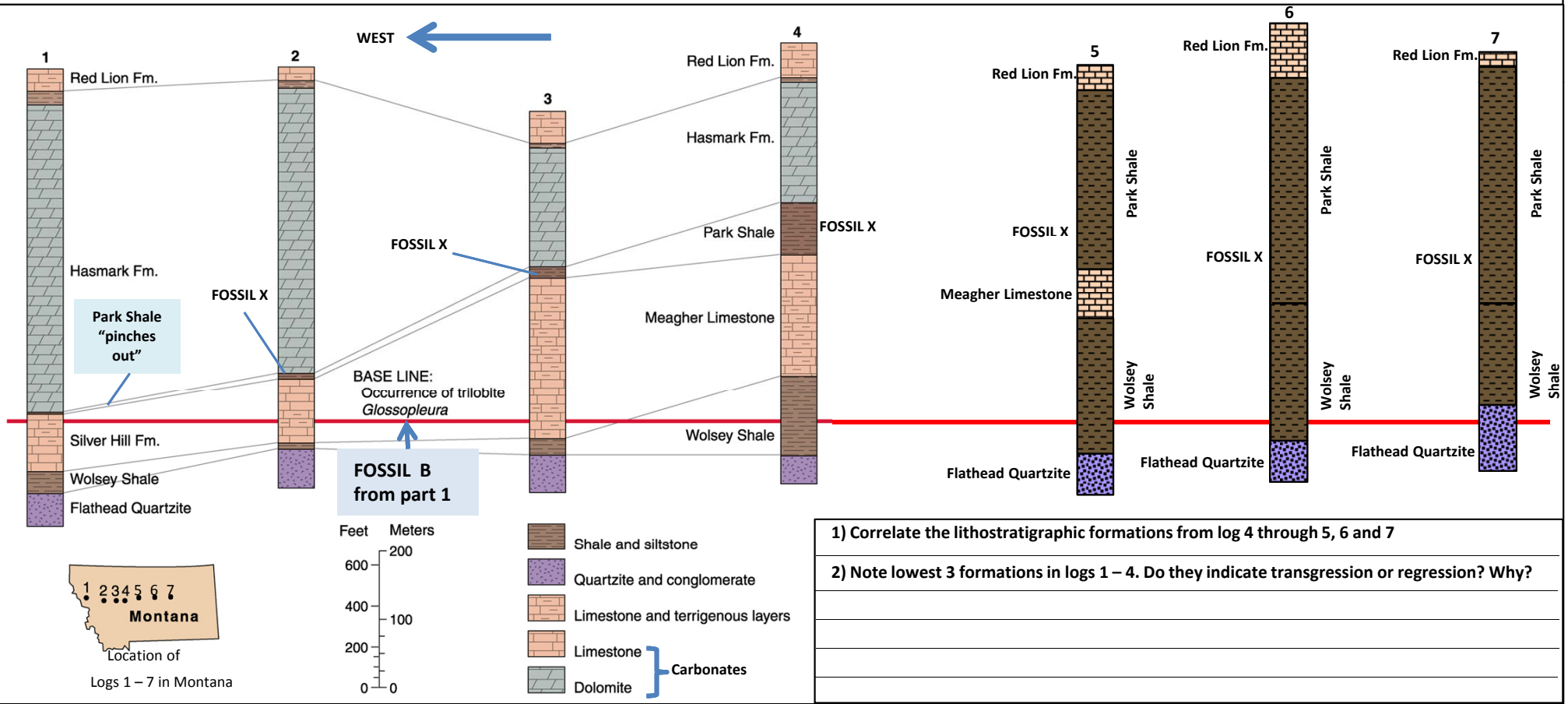
Exercise 3, part 1 **Stu. IDs: 1_____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____**

Fossil B and F are known to be useful fossils for correlation over a wide area. On the work sheet provided construct AND describe a biozone for B using base of range techniques – make sure you apply seriation first.



Biozone Description:

Exercise 3, part 2



1) Correlate the lithostratigraphic formations from log 4 through 5, 6 and 7

2) Note lowest 3 formations in logs 1 – 4. Do they indicate transgression or regression? Why?

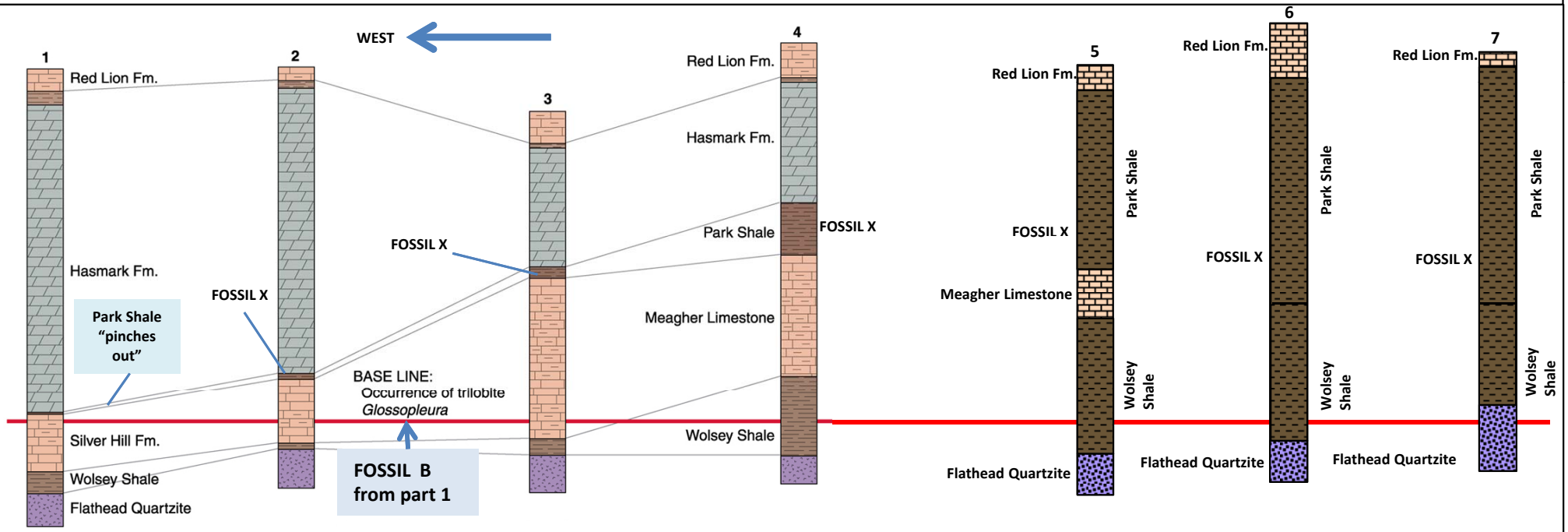
3) During the time of deposition of these sediments, is which direction do you think in landward? East or West? Explain why.

4) Why do you think the Hasmark Formation thins eastward?

5) Compared to Fossil B (from the previous part of the exercise) would fossil X be useful in chronostratigraphic correlation? Explain why.

6) On the next sheet: Draw a cross section of the sedimentary environment that might have existed at the time indicated by the base line fossil B (*Glossopleura*). If you can, indicate the position of the logs, facies and stratigraphic formations.

Exercise 3, part 3



Limestone

Shale

Sandstone (quartzite)