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| **Table 2: Interpreting the Sedimentary History from a Stratigraphic Section** |
| Using both the stratigraphic section and the cross section located in the textbook (Chapter 7 Investigation), determine the environment of deposition and list supporting evidence for that environment. Then, answer the questions below this table. |

|  |  |
| --- | --- |
| Rock Unit | Environment of Deposition and Observations to Support Your Chosen Environment |
| Upper sandstone and mudstone unit |  |
| Dark gray shale |  |
| Yellowish-tan sandstone |  |
| Lower basal conglomerate |  |

Question 1: What is the oldest environment represented by this rock sequence? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question 2: Does the change of environment from the base of the section up to the thick gray shale indicate an advance (transgression) or retreat (regression) of the sea? Explain the reasons for your answer. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Question 3: Does the change from the thick gray shale to the overlying sandstone indicate a transgression or a regression? Explain your answer. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Question 4: Which of the following phrases summarizes the history of the entire sequence: (a) a transgression, (b) a regression, (c) a transgression following by a regression, or (d) a regression followed by a transgression? (circle your answer)

Question 5: Compare this sedimentary sequence to the one exposed west of Denver (in the previous two-page spread). What names from the Denver area would you apply to the lowest unit and to the overlying yellowish-tan sandstone in this plateau?

Lowest unit: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Yellowish-tan sandstone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_