

**Geology 320, Sedimentology and Stratigraphy
FINAL EXAM**

- **You may use your book and notes.**
- **You may NOT use the web. Any use of the web will be considered grounds for violation of the UST academic integrity policy.**
- **The ONLY use of the computer should be if you choose to write your responses in Word.**

Attached you will find three figures:

Figure 1A: A measured section with detailed descriptions through the Lytle and Plainview Formations (also showing contacts with the underlying Morrison and overlying Skull Creek Formations). Each formation has been subdivided into units (labeled A, B, C. etc.).

Figure 1B: A legend to help you interpret some of the features on figure 1A.

Figure 2: The same column as in figure 1A, with all notations removed and a space for your interpretations. There are extra copies of this figure available if you need them.

It is your job to answer the following questions in as **detailed** and comprehensive a manner as possible as the 2-hour time limit allows. You may use Word to write up your responses, or you can write your responses out in longhand.

1. What is the methodology that we have used to interpret sequences of sedimentary strata in this course? Your response to this question should be no more than a paragraph in length.
2. How were the Lytle and Plainview Formations deposited? In what environment(s) were they formed? Support your interpretations thoroughly, clearly and concisely. **You should also label figure 2 with your interpretations**; this should be a brief summary of your interpretation, with your support/justification laid out in more detail in your written response. Feel free, also, to label figure 2 with any other information that you think might be relevant or useful, but keep it neat.
2. Are there any sequence boundaries present on the measured section? If so, label them on the diagram and justify your interpretation in your write up.

Stop 1 Lytle – Plainview Formations.
 BELLEVUE SWSE 13–2N–70W

This location was named the Dakota Group type section for Northern Colorado by Lee (1923). The section is exposed on the north banks of the Poudre Valley and Reservoir irrigation ditch two miles north of Bellvue, Colorado.

FIGURE 1A. STRAT COLUMN WITH DETAILED DESCRIPTIONS

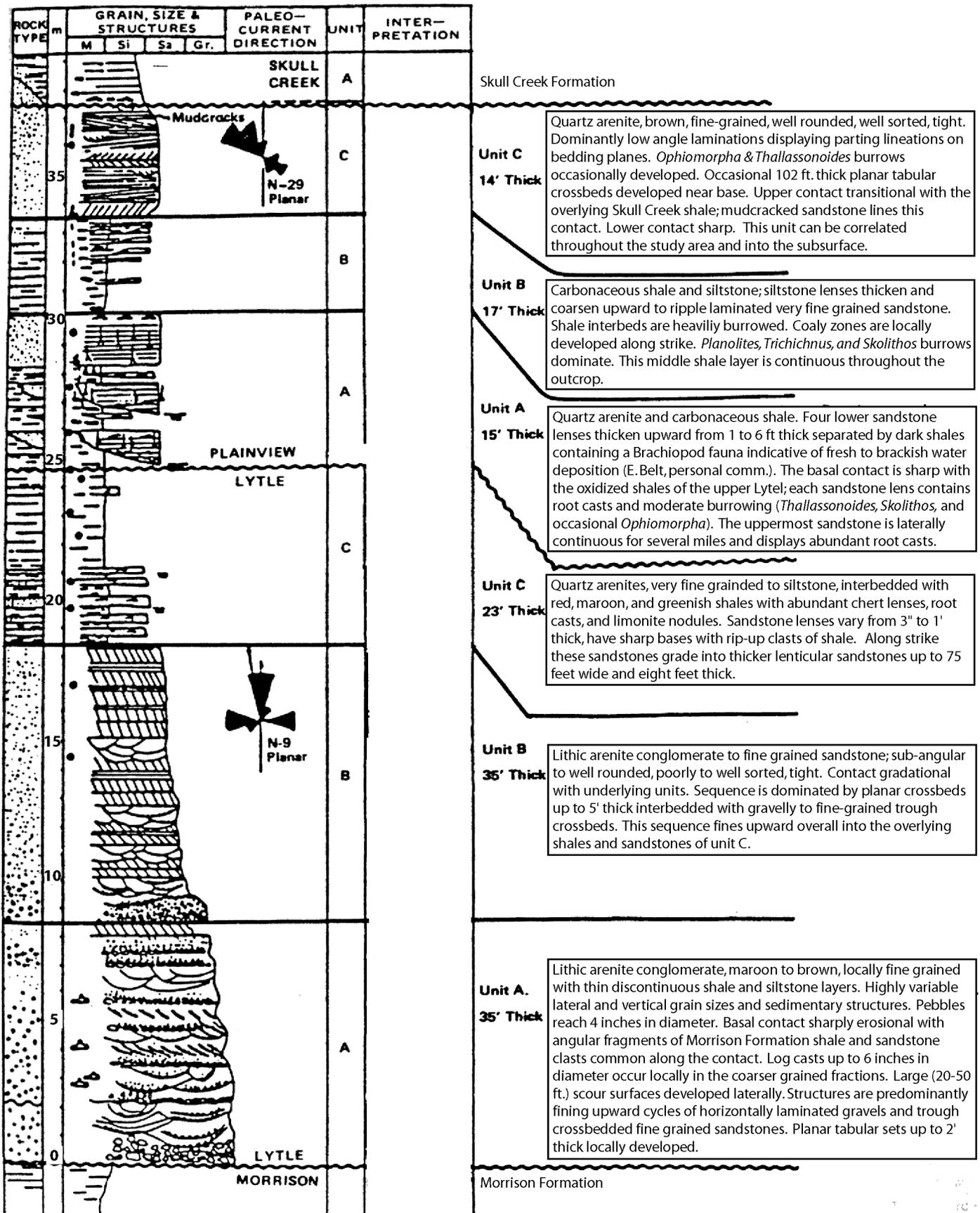
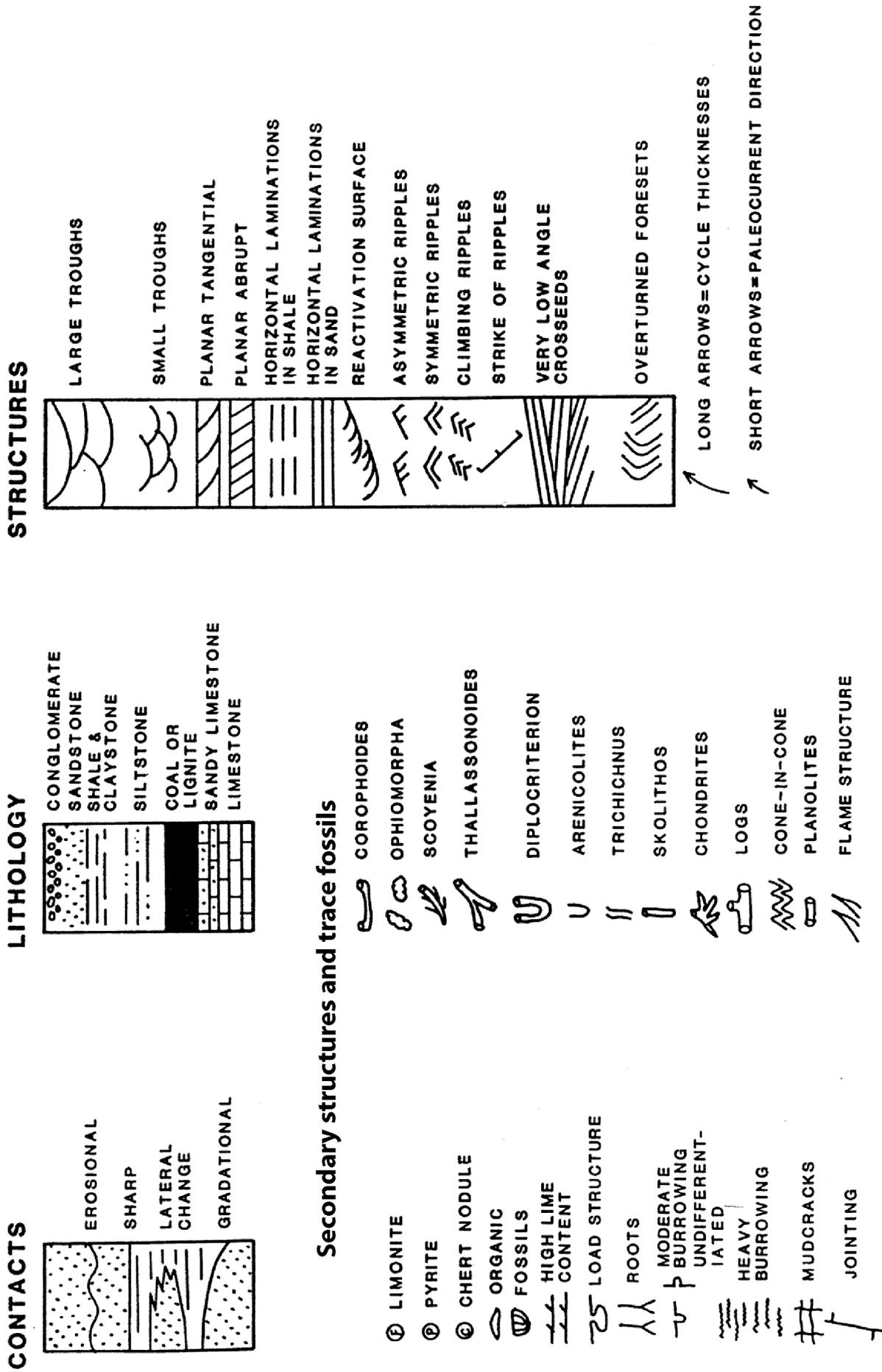


Figure 1B. LEGEND FOR SECTIONS



Stop 1 Lytle – Plainview Formations.
 BELLEVUE SWSE 13–2N–70W

This location was named the Dakota Group type section for Northern Colorado by Lee (1923). The section is exposed on the north banks of the Poudre Valley and Reservoir irrigation ditch two miles north of Bellvue, Colorado.

FIGURE 2. BLANK COLUMN FOR YOUR INTERPRETATIONS

