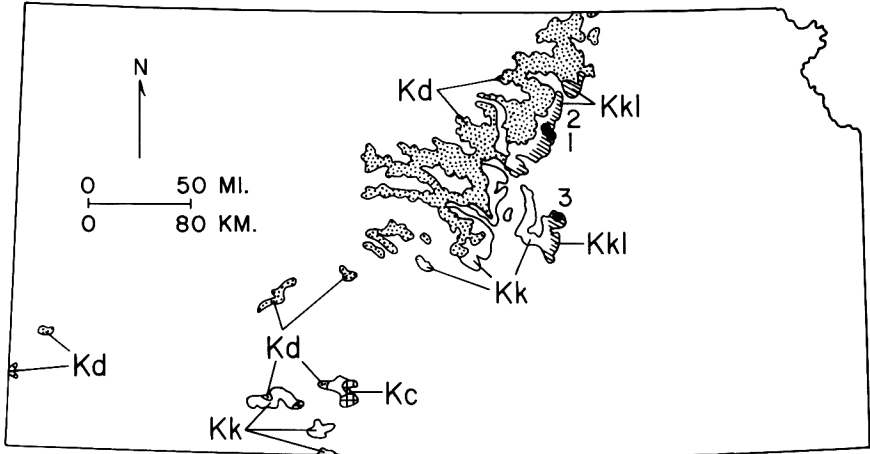


STRATIGRAPHIC SECTIONS OF LONGFORD MEMBER, KIOWA FORMATION, NORTH-CENTRAL KANSAS

(AND X-RAY DIFFRACTION TRACES OF SELECTED, AIR-DRIED, CLAY SAMPLES)

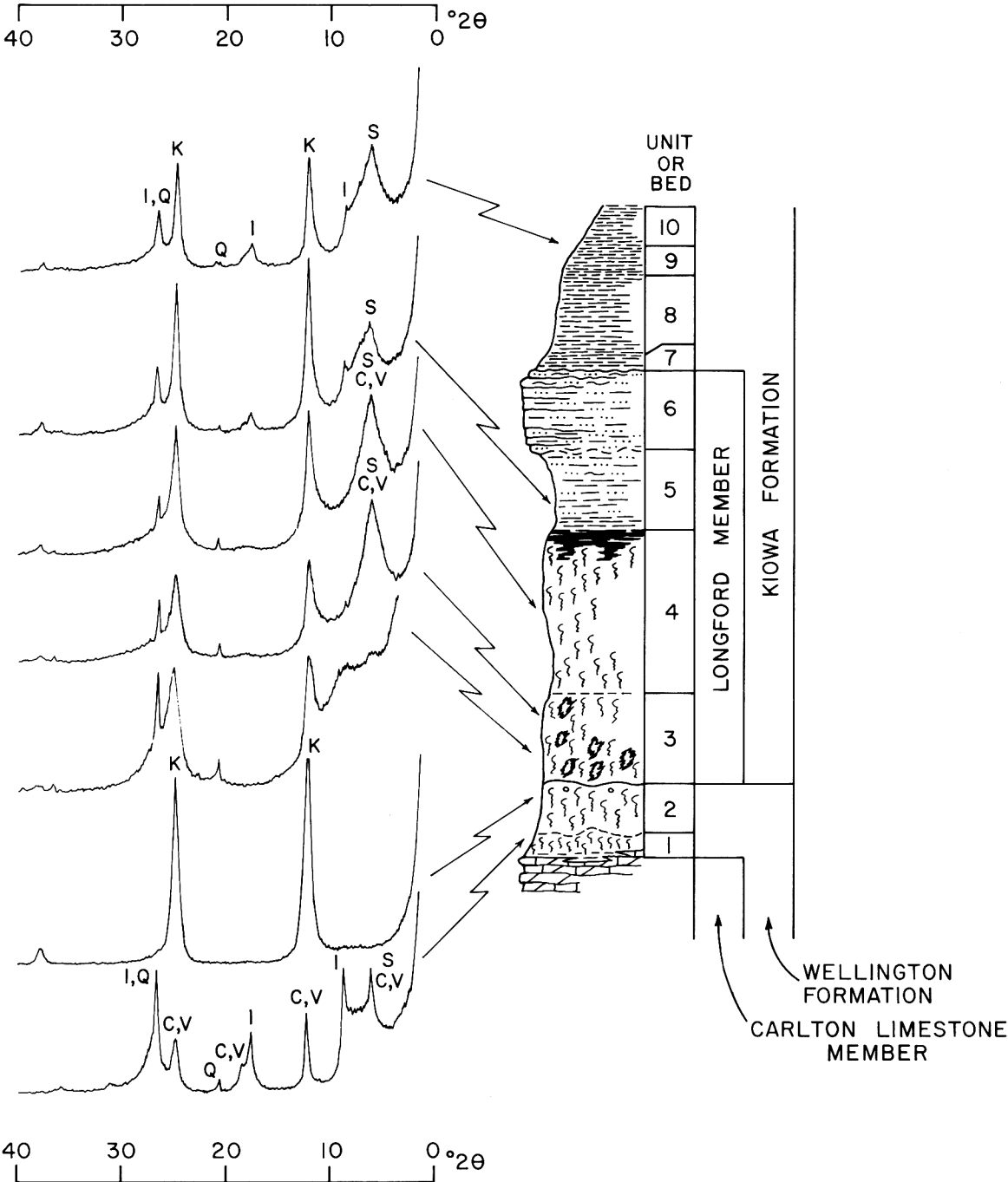
LOCATIONS OF MEASURED SECTIONS



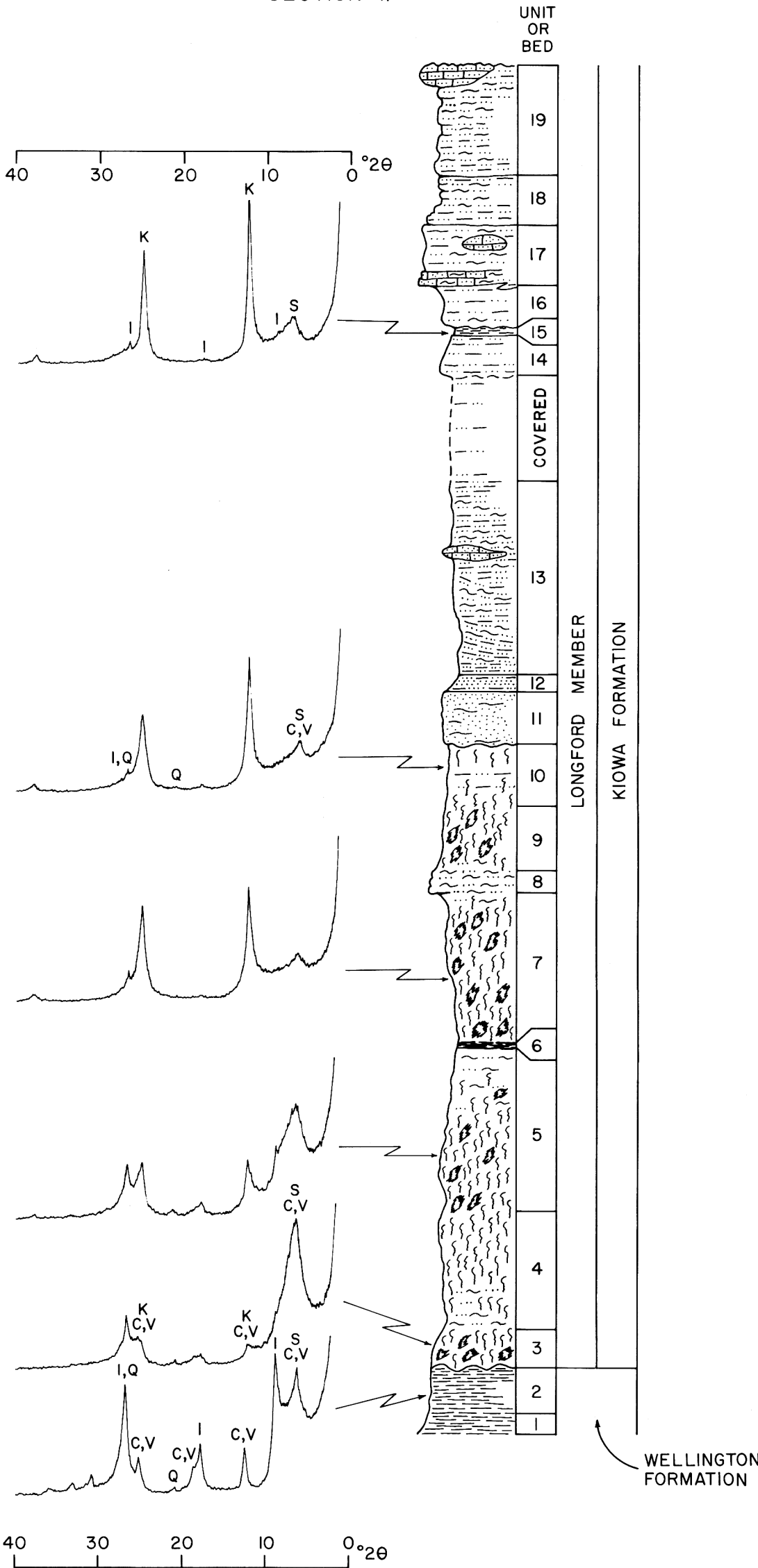
Kd—DAKOTA FORMATION
Kk—KIOWA FORMATION
Kkl—LONGFORD MEMBER, KIOWA FORMATION
Kc—CHEYENNE SANDSTONE

SECTION 1.— W LINE SW 1/4 SEC. 9, T.10S., R.1E., CLAY COUNTY
2.— CEN. W 1/2 SEC. 32, T.9S., R.1E., CLAY COUNTY
3.— CEN. SE 1/4 SEC. 23, T.16S., R.1E., DICKINSON COUNTY

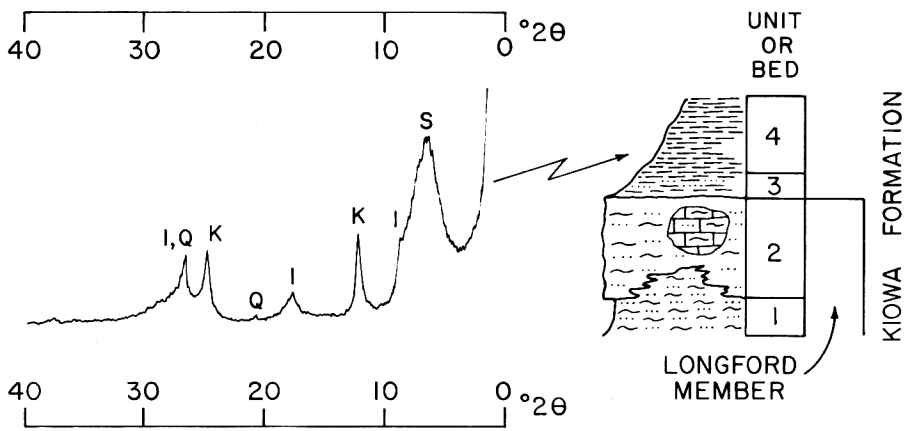
SECTION 3.



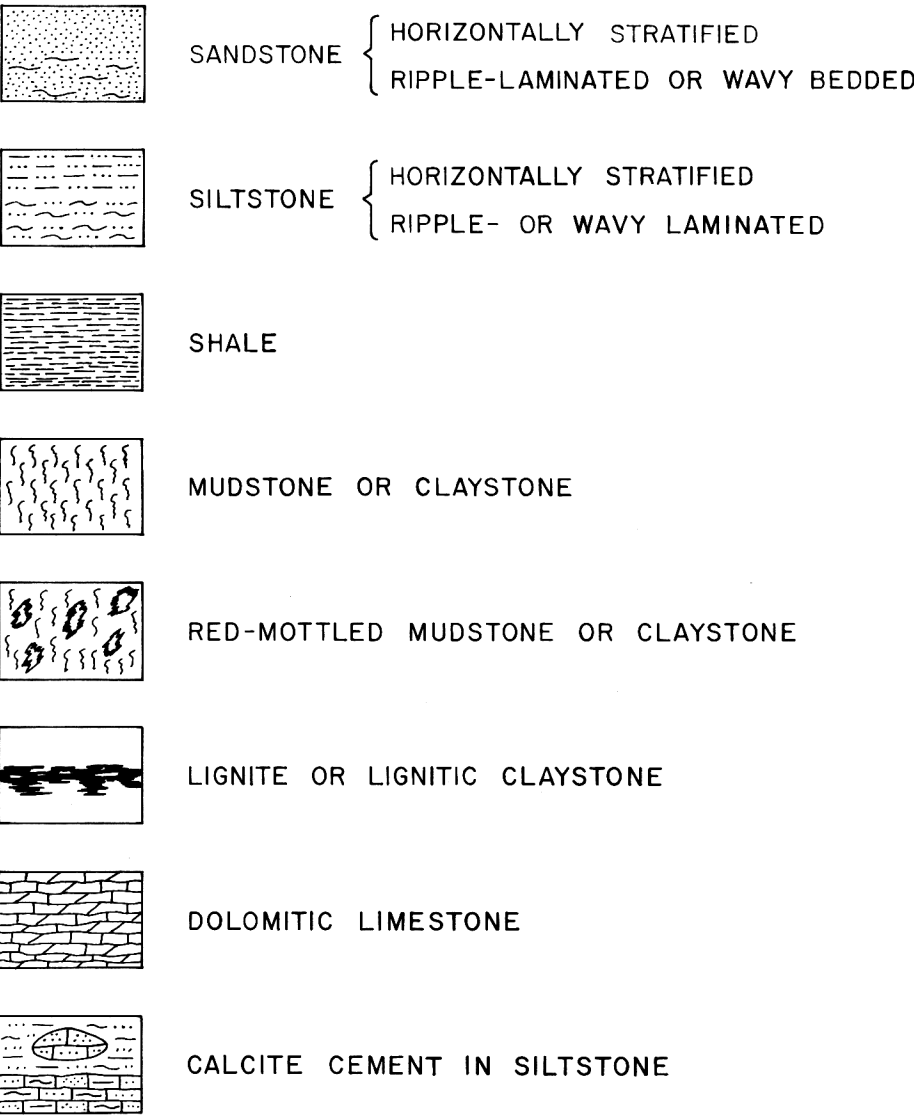
SECTION 1.



SECTION 2.



EXPLANATION



X-RAY MINERALOGY (Cu K α RADIATION, <2 μ FRACTION)

C—CHLORITE
I—ILLITE
K—KAOLINITE
Q—QUARTZ
S—SMECTITE
V—VERMICULITE

