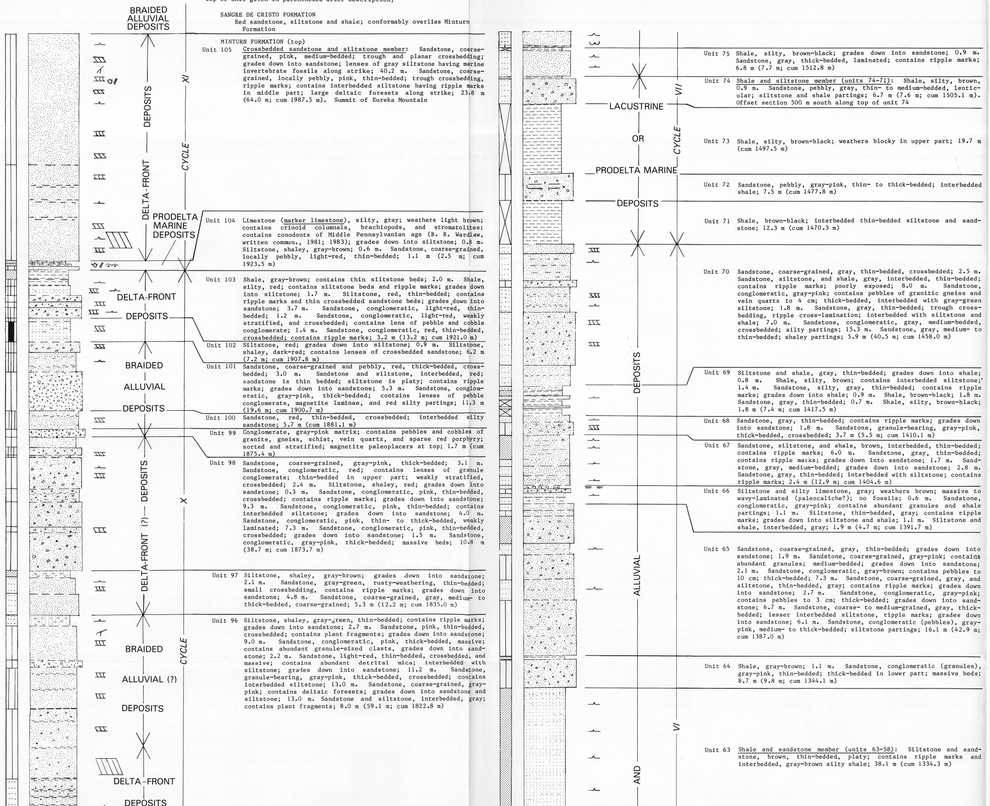
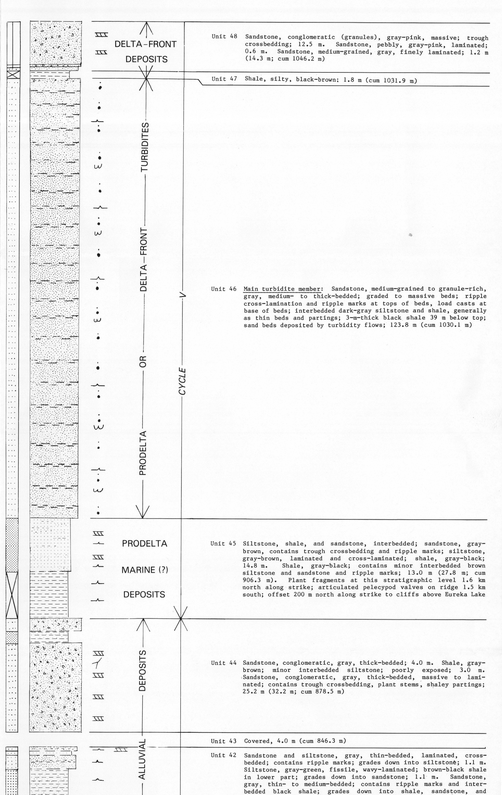
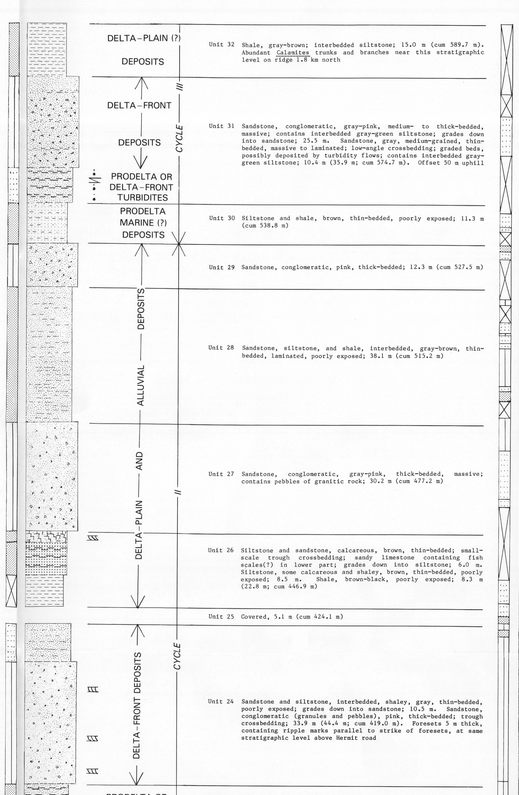
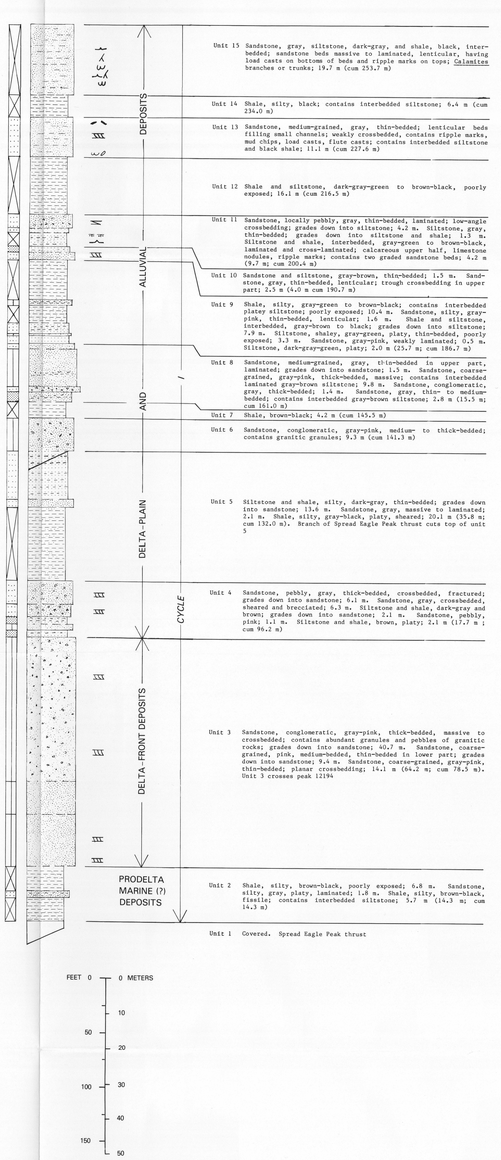
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-1622-C
SHEET 1 OF 2








COLOR
LITHOLOGY
SEDIMENTARY STRUCTURES
DEPOSITIONAL ENVIRONMENT
CYCLE
DESCRIPTION OF UNITS
Unit 15 Sandstone, gray, siltstone, dark-gray, and shale, black, interbedded; sandstone beds massive to laminated, lenticular, having load casts on bottom of beds and ripple marks on tops; Calamites branches or trunks; 19.7 m (cum 253.7 m)
Unit 14 Shale, silty, black; contains interbedded siltstone; 6.4 m (cum 234.0 m)
Unit 13 Sandstone, medium-grained, gray, thin-bedded; lenticular beds filling small channels; weakly crossbedded, contains ripple marks, mud chips, load casts, flute casts; contains interbedded siltstone and black shale; 11.1 m (cum 227.6 m)
Unit 12 Shale and siltstone, dark-gray-green to brown-black, poorly exposed; 16.1 m (cum 216.5 m)
Unit 11 Sandstone, locally pebbly, gray, thin-bedded, laminated; low-angle crossbedding; grades down into siltstone; 4.2 m. Siltstone, gray, thin-bedded; grades down into siltstone and shale; 1.3 m. Siltstone and shale, interbedded, gray-green to brown-black, laminated and cross-laminated; calcareous upper half, limestone nodules, ripple marks; contains two graded sandstone beds; 4.2 m (9.7 m; cum 200.4 m)
Unit 10 Sandstone and siltstone, gray-brown, thin-bedded; 1.5 m. Sandstone, gray, thin-bedded, lenticular; trough crossbedding in upper part; 2.5 m (4.0 m cum 190.7 m)
Unit 9 Shale, silty, gray-green to brown-black; contains interbedded platy siltstone; poorly exposed; 10.4 m. Sandstone, silty, gray-pink, thin-bedded, lenticular; 1.6 m. Shale and siltstone, interbedded, gray-brown to black; grades down into siltstone; 7.9 m. Siltstone, shaley, gray-green, platy, thin-bedded, poorly exposed; 3.3 m. Sandstone, gray-pink, weakly laminated; 0.3 m. Siltstone, dark-gray-green, platy; 2.0 m (25.7 m; cum 186.7 m)
Unit 8 Sandstone, medium-grained, gray, thin-bedded in upper part, laminated; grades down into sandstone; 1.5 m. Sandstone, coarse-grained, gray-pink, thick-bedded, massive; contains interbedded laminated gray-brown siltstone; 9.8 m. Sandstone, conglomeratic, gray, thick-bedded; 1.4 m. Sandstone, gray, thin- to medium-bedded; contains interbedded gray-brown siltstone; 2.8 m (13.5 m; cum 161.0 m)
Unit 7 Shale, brown-black; 4.2 m (cum 145.5 m)
Unit 6 Sandstone, conglomeratic, gray-pink, medium- to thick-bedded; contains granitic granules; 9.3 m (cum 141.3 m)
Unit 5 Siltstone and shale, silty, dark-gray, thin-bedded; grades down into sandstone; 3.4 m. Sandstone, gray, massive to laminated; 2.1 m. Shale, silty, gray-black, platy, sheared; 20.1 m (35.6 m; cum 132.0 m). Branch of Spread Eagle Peak thrust cuts top of unit 5
Unit 4 Sandstone, pebbly, gray, thick-bedded, crossbedded, fractured; grades down into sandstone; 6.1 m. Sandstone, gray, crossbedded, sheared and brecciated; 6.3 m. Siltstone and shale, dark-gray and brown; grades down into sandstone; 2.1 m. Sandstone, pebbly, pink; 1.1 m. Siltstone and shale, brown, platy; 2.1 m (17.7 m ; cum 96.2 m)
Unit 3 Sandstone, conglomeratic, gray-pink, thick-bedded, massive to crossbedded; contains abundant granules and pebbles of granitic rocks; grades down into sandstone; 40.7 m. Sandstone, coarse-grained, pink, medium-bedded, thin-bedded in lower part; grades down into sandstone; 9.4 m. Sandstone, coarse-grained, gray-pink, thin-bedded; planar crossbedding; 14.1 m (64.2 m; cum 78.5 m). Unit 3 crosses peak 12194
Unit 2 Shale, silty, brown-black, poorly exposed; 6.8 m. Sandstone, silty, gray, platy, laminated;