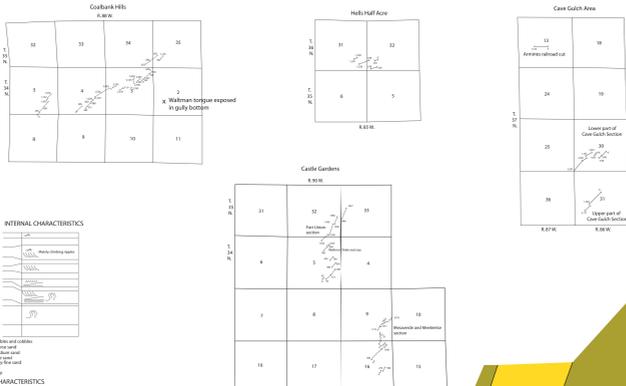
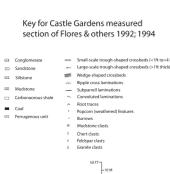
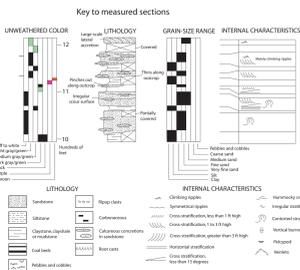


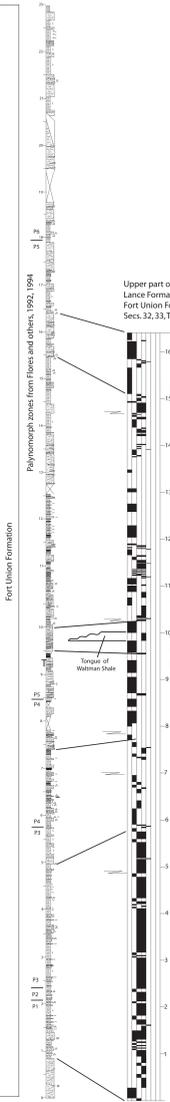
Locations of measured sections



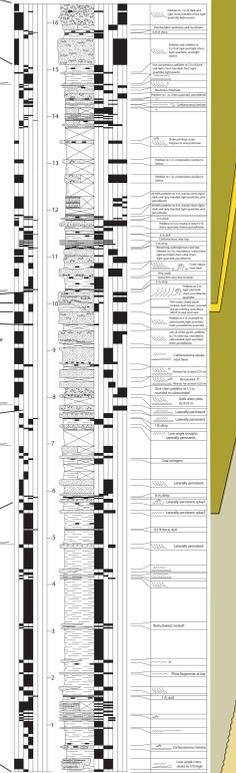
Cave Gulch Area
Upper part of Lance and lower part of Fort Union Formations measured in Secs. 31, T.37 N., R.86 W., lower part of Lance Formation, Meeteetse Formation and Lewis Shale measured in Secs. 30, T.37 N., R.86 W., Mesaverde Formation and upper part of Cody Shale measured in Secs. 13, T.37 N., R.87 W.



Castle Gardens Fort Union measured section from Flores and others 1992-1994

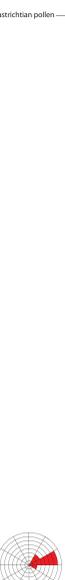


Upper part of Cody Shale, Mesaverde, Meeteetse, and Lance Formations measured in Secs. 9, 16, T.34 N., R.90 W., Secs. 32, 33, T.35 N., R.90 W.

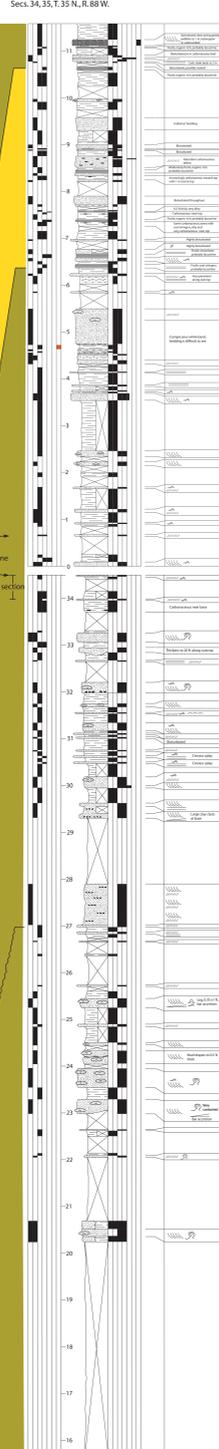


PI Paleocene pollen

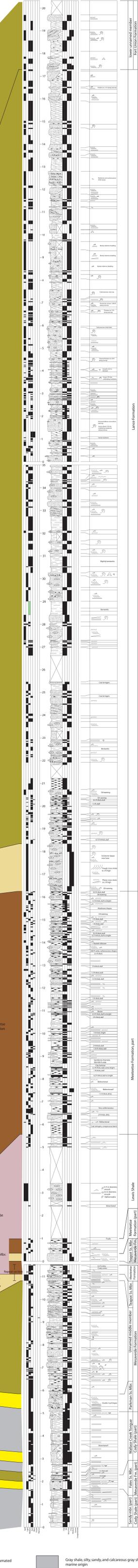
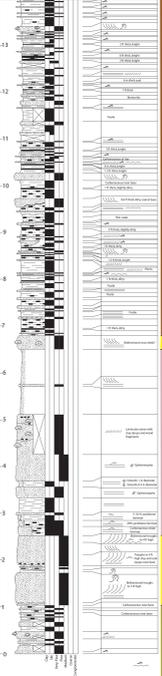
Maastrichtian pollen



Coalbank Hills
Upper part of Cody Shale and Mesaverde Formation measured in Secs. 5, 8, T.34 N., R.88 W., Meeteetse and Lance Formations and lower part of Fort Union Formation measured in Secs. 3, T.34 N., R.88 W., Secs. 34, T.35 N., R.88 W.



Hills Half Ace
Secs. 31, 32, T.36 N., R.85 W.



- Sandy fluvial deposits consisting mostly of thick, amalgamated fluvial sandstones and gray shale.
- Fluvial sandstones and gray shales with carbonaceous shale and sparse coal beds generally less than 3 ft thick.
- Coal-forming environments consisting of medium to dark-gray shale carbonaceous shale, coal, lenticular fluvial channel sandstone, and thin, persistent crevasse splay sandstones.
- Sandstone deposited in shoreface, nearshore marine, and marine shelf environments.
- Gray shale, silty, sandy, and calcareous gray shale of offshore marine origin.
- Gray shale, silty and sandy gray shale, siltstone, and mudstone sandstone, and minor carbonaceous shale and coal deposited in nearshore marine and estuarine setting.
- Marginal lacustrine sandstone, siltstone, and mudstone typically forming sanding-upwards cycles.
- Mostly gray mudstone and siltstone with sparse, generally mud-filled channel sandstones.

Abbreviations used: Ss, sandstone; Ls, limestone; blot, bioturbated; ft, feet; in, inch; lam, laminae; carb, carbonaceous



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