




Depth	Stratigraphic Units						Rock Color	Lithology Rock Column	Sedimentary Structures	Remarks
	Members	Formations	Subgroup	Group	Stage	Series				
0	Smoky Hill Chalk	Niobrara Chalk								47. Massive chalk 1.0
20										45. Alternating beds of chalk and pinkish chalky shale 13.1
40										44. Bentonite 0.02 42. Soft chalky shale with 40. Massive chalk bed with a 38. Chalky shale with a thin 36. Thin chalk beds and pinkish chalky shale with a thin bentonitic parting at the top 8.42 35. Bentonite 0.02
60										33. Resistant chalk bed. Forms good bench 8.66 32. Soft chalky shale, pinkish-brown color 7.5
80										31. Chalk forming a shoulder 30. Chalk and chalky shale with a thin bentonite at top. A thin bentonite parting occurs three feet and nine inches 29. Massive buff chalk 2.5 28. Chalky shale with thin beds of chalk. A thin bentonite parting is one foot and two inches above the base 12.2
100				Colorado	Upper	Cretaceous	Mesozoic			27. Massive chalk beds separated by thin soft chalky shales with a thin bentonite parting at the top 12.0 C--NE. 14 Sec. 13 T. 14 S. R. 25 W. 26. Chalky shale and soft 25. Chalk 0.58
120										23. Soft chalk 5.0 22. Soft tan chalky shale 11.0 B--Sec. 29 T. 14 S. R. 25 W.
140										21. Massive chalk with thin shale parting at base 3.42 20. Massive chalk with parting 19. Soft chalky shale with a dark-brown bentonitic clay 18. Massive chalk 0.9 15. Chalk 0.5 11. Chalky shale with thin
160										10. Chalky shale lower part tissue upper part chalky. Contains small pyrite concretions 12.2 9. Bentonite 0.08 7. Bentonite 0.2
180										5. Prominent chalk hard at top and bottom 3.2 4. Chalky shale and thin chalk beds 15.0

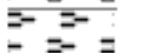
Primary Rock Lithology


 Shale


 Chalk

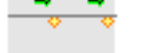
Secondary Rock Lithology


 Clayey, Argillaceous, clay

 Shaly, shale

 Sandy, sand

 Bentonite, Bentonitic


 Pyritic, pyrite

 Chalky


Sedimentary Structure Symbols

Depositional Structures

- Bedding Base

 Abrupt or sharp, planar base of bed

Deformational Structures

 Ferruginous concretions or nodules