

Table 2.6-2 Representative Stratigraphic Section – Marsland Expansion Area

Elevation (ft amsl)	Average Depth (ft bgs)	Group	Formation & Member (Schultz and Stout 1955)		Formation and Member (Revised)		References (Revised)	
Varying 4150 -4,380	15 - 135	Arikaree Group	Monroe Creek Formation		Upper Harrison Beds		Swinehart et al. (1985)	
					Monroe Creek-Harrison Formation			
			Gering Formation		Gering Formation			
Varying 4,140 - 4,020	135 - 285	White River Group	Brule Formation	Whitney Member		Brule Formation	"Brown Siltstones"	LaGarry (1998)
				Orella Member	Orella D		Whitney Member	
					Orella C			
					Orella B			
Orella A								
4,020 – 3,890	285 – 650		Chadron Formation	Upper Chadron	Chadron C	Chadron Formation	Big Cottonwood Creek Member	Terry (1998) Terry and LaGarry (1998)
	Upper/Middle Chadron				Chadron B			
3,890 – 3,380	650 -925				Middle Chadron			
3,380 - 3,180	925 – 1,025		Upper Interior Paleosol	Chamberlain Pass Formation	Upper Interior Paleosol	Terry (199)		
			basal sandstone of the Chadron Formation		Channel Sandstone	Terry (1998) Terry and LaGarry (1998)		
		Montana Group	Pierre Shale	Interior Paleosol		Pierre Shale	Yellow Mounds Paleosol	Retallack (1983) Terry (1998)
3,180 – 3,130	1,025 - ? (Bottom not seen in logs)			Pierre Shale			Pierre Shale	Terry (1998) Terry and LaGarry (1998)

Notes:

- 1) The Shultz and Stout conventions for Formation & Member are utilized throughout this document, with the exception of the Red Clay Horizon, which is referred to as the Upper Interior Paleosol.
- 2) Topsoil, colluvial and alluvial deposits are not shown, but are Quaternary in age and range in thickness from 0 to 30 ft-bgs.
- 3) ft amsl = feet above mean sea level; ft bgs = feet below ground surface
- 4) Elevations are representative averages for MEA only, and based on Log M-1252.