HGS North American Explorationists Dinner Meeting, October 23, 1995

Spectrum of Lodgepole Formation Carbonate Buildups in the Williston Basin and Central Montana

By Randolph B. Burke and Paul E. Diehl, North Dakota Geological Survey

Production of over 2.4 million barrels of oil (MMBO) and 750 million cubic feet of gas in the past two years from recently discovered Waulsortian-like buildups in North Dakota has prompted a regional re-evaluation of the geology and hydrocarbon potential of the Lodgerole Formation. In Daly.

Recent studies of outcrops, cores, wireline logs, and the literature indicate that buildups are more common than previously recognized. (The term "buildup" is used because "Waulsortian mound" may not be
appropriate for all structures.) These buildups crop, out, at seven locations in three

and architecture span the spectrum from mud-dominated mounds to grainstone buildups in the Little Belt Mountains, highly fossiliferous wackestone to boundstone textures in the Big Snow Mountain buildups, and textures in between these and members in Saskatchewan and