

MEASURED SECTION NO. Clay III C
 LOCALITY Columbia Pass #20315
 SETTING Top 18248

DATE 4/15/91
 STRATIGRAPHIC UNIT Bear River/Sagehen
 MEASURED BY AD & RZ

	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	SUP MAT	TEXTURAL MATURE	DESCRIPTIONS
	GRAV 64 4	SAND VCCM FVF	SILT CLAY					
1880								
1885		SS						14. Tan, coar. granstone, w/ bioclast & qtz sand concs. stylolites w/ pyrite: ss r ls 25% .5-2cm diam. increase towards base. qtz sand in base. coarse granitic base. qtz sand in base. coarse granitic base.
1890		SS						v. coarse-medium qtz ss w/ pebbles & layers. planar xbeds; white qtz pebbles - calcite cementation spots throughout. clay drapes (2cm) on xbeds; later (2cm) horizontal burrows at top. small (1.5cm) burrows at bottom.
1895								qtz, medium fine qtz ss: horizontal planar xbed w/ clay drapes predominant w/ minor ripple & scale (1.5cm through depth) rare. qtz granule & v. coarse ss layers on shallow scours: granule layers poorly cemented.
								MISSING
1900								grey, coarse-fine qtz ss, horizontal laminae w/ clay drapes & ripple xbeds: granules pebble logs - 1.5cm thick: qtz & Ksp; pebbles & granules - 1898.5 - grey shale interbedded w/ qtz ss: 4cm thick!
1905								dk grey, fine-very fine qtz ss w/ horizontal laminar, ripple xbeds, rare indications of bioturbation & white pink qtz pebble layers & isolated grains.
								grey-green, silty, micaceous shale: 2cm thick!
1910								dk grey, fine-very fine qtz ss: granule layers 1 grain thick marks base of low angle planar xbeds, ripple xbeds & ripple scale trough xbeds near top give way to faint horizontal laminar.
1915								rare. ? chert pebbles -> .5cm

Core = log + 2'

MEASURED SECTION NO. Core 111C
 LOCALITY Columbia Gas #26315
 SETTING _____

DATE 4/15/91
 STRATIGRAPHIC UNIT _____
 MEASURED BY Hv & R.C.

	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	SUP MAT SUB IM	TEXTURAL MATURITY	DESCRIPTIONS
	GRAV	SAND	SILT CLAY					
1915	64 4	VCCM FVF						<p>Fine-crained 0.2 sandstone, well sorted except a 2-5 0.2 pebbles ($1/2$ cm x 1 cm) defining layers where strong currents occurred these 0.2 layers occur at 1922' 4", 1928' 2", 1927' 4", 1927' 2", 1926' 10", 1925' 1", 1925' 2", 1917' 5", 1924' 7"</p>
1920								<p>Speckled w/ Fe-staining (goethite-hematite?) approx. 2%</p> <p>at 1917' 6" for 1" calcite cement w/ trough x-bed cutting down through calcite cement - note several episodes of layers here</p> <p>at 1921' 6" 1 cm size vertical burrows - that may be original organics - that has been pyritized - hard</p>
1925								<p>The outer 2 edges of the individual pieces of core appears to be stained w/ oil - occurred after core was pulled</p> <p>at 1920' 13" - a 2 1/2 bioturbated Pierre w/ calcite cement and 100% Fe-stain speckles</p>
1930								<p>Horizontal fractures and parting possibly occurring on original one layer thin clay drapes occurring in lower 3 1/2 feet of this portion of core</p> <p>moderately bioturbated (in work) w/ 25% Fe-staining / Dagon blotchy the surface - w/ weak (very) reaction to HCl / fract.</p> <p>chloritic (fossil) breccia sand easily shale and so piece of red shale (oxidized) - True shale - Clay</p>
1935								<p>MISSING core - shale?</p>
1940								
1945								
1950								

SS - moderately bioturbated
 // trough x-bed

== horizontal layering
 @ = Fe-staining
 * = organics
 ~ = mica

MEASURED SECTION NO. Clay 1110
 LOCALITY Columbia Gas - 20315
 SETTING _____

DATE 4/15/91
 STRATIGRAPHIC UNIT SQUAD
 MEASURED BY AV & KAH

	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	SUP MAT SUB MATURE IM	DESCRIPTIONS
	GRAV 64 4	SAND VCCM FVF	SILT CLAY				
1950							Missing core Shale (?)
1955							
1960							
1965							
1970							
1975				Fine grain to very fine-grained @ 75 w/ ~ 2% white nick - uniform grain size not many sedimentary structures - note: on the last 9 feet of core - the individual pieces of core is rimmed 1/2 cm of oil (?) stain at 1973' 9" 1973' 1973' 4" - Horizontal color change w/ increase in porosity on these spots			

} - weak
 } - moderate } bioturbated
 } - strong

2 - nice