

MEASURED SECTION NO. Clay 1128
 LOCALITY Columbia #20316
 SETTING _____

DATE 4/25/91
 STRATIGRAPHIC UNIT Big Injun
 MEASURED BY AV & RM

	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	TEXTURAL MATURITY	DESCRIPTIONS
	GRAV 64 4	SAND VCCM FVF	SILT CLAY				
1995							Yellowish Abiotic ls w/ 10-15% floating coarse to very coarse sand grains - vertical & horizontal fractures - unconformity surface at 1995'4" - Fe-staining
possible burrow at 1996							Crossbedding is steeper at top and shallows as it goes deeper
2000							at 1998'8" = crossing bedding - fine grain 1998'10" - 1999'8" MISSING
							at 2000'10" - 20' crossbedding w/ possible burrow
							at 2001'6" angular downcutting @ 30° at 2002'6" chert pebble (maximum diameter = 1cm) at 2003'9" ore ss w/ ore overgrowth & thin (1cm) chert layers
2005							The coarse grain portion consists of fining upward cycles of white ss or very light grey. Dominant grain size = medium. The rock grades from medium to congl. (maximum grain size = 1cm, avg 2mm) w/ the coarse lag = Granular size
							at 2005'1" - note two scow surfaces
							at 2008'6"
2010							at the base = poorly cemented conglomerate 2" thick - green shale layer at 2011'3"
							at 2014 - black staining (?) in pores at 2014'6" - poorly cemented conglomerate Horizontal fractures
2015							at 2015'5" ripple scale x-bedding, climbing ripples (hummocky bidirectional, (tidal?) and bioturbated w/ fine coarse sand grains at bottom of troughs at 2017 - ripple scale x-bedding
							The fine grain light-medium grey sand stone contains 1-2% mica w/ fine (1/2mm) size speckled siderite. Alternating horizontal or very low angle bedding interlayered w/ bioturbated zones (marked by organics and distrib. of bedding, w/ occasional coarse to granular grains (1 layer thick) defining layers. Organics and pyrite scattered throughout
2020							Ripple scale x-bed concentrated in upper portion
							at 2018 - organics
2025							at 2026'2" - several chert pebbles (1) define layer and side rise at 2026'7" a one inch wide ore pebble layer interlayered horizontal layers w/ 1/2 to 1cm wide areas of possible bioturbated layers at 2026'7" - 2027'6" NOTE: organics & siderite very fine < 1/2mm
2030							at 2029'4" - calcite cement w/ pyrite - note: diagenetic for 4 inches front

*organics
 ⊙ - pyrite
 < - bioturbation
 ⊕ - rough x-bedding w/ lag deposits cutting into sample
 ~ - unconformity

Core - 22 feet = 108

MEASURED SECTION NO. Clay 1128
 LOCALITY Columbia 20316
 SETTING elevation 1123.48'

DATE 4/25/91
 STRATIGRAPHIC UNIT Big Injun / SQUAW
 MEASURED BY AV & RM

ELEVATION	SEDIMENTARY TEXTURES & STRUCTURES					INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	TEXTURAL MATURITY		DESCRIPTIONS
	GRAV	SAND			SILT			SUP	SUB	
	6 4 4	V	C	M	F			V	F	
2030										A Very fine grain light grey ss w/ 1-2% mica & abundant clay matrix; clay film when you wet the rock and speckled w/ 1-2% siderite or Fe-oxide
2035										2033 4" - lone pebble
2040										at 2039' - a 1-1/2 cm thick band of siderite (biogenic) cutting across bedding
2045										Missing
2050										2044-2044' 1" - yellowish staining on inside - red on outside (old) - Fe-oxide at 2044' - Horizontal fractures 2046 - Horizontal & vertical fractures at 2046' 6" - some of the best burrows we've seen (Horizontal) note: concentration (siderite) and thin clay lining on some and 3-D surfaces
2065										Missing Core
2070										A Fine & very fine medium grey ss w/ possible Fe staining - NOTE: The dark staining on the edge of the core for 5 mm. ~ 2-3% white mica. The ss is clay rich - when you wet the rock you get a thin film of clay (auth.?)
2075										at 2070' - 3 burrows 2070' 4" - 2 burrows at 2070' 6" - ripple scale x-bedding w/ burrow possibly cutting at 2071' - cross-bedding - it looks like on three dimensions it may be small scale hummocky x-bedding at 2071' 4" - flattened shale rip-up clasts
2080										

S - bioturbation (weak) SS (moderate) SSS (strong)
 ● - shale rip-up clasts ⊗ - pyrite w/ limonite staining on edges
 = - horizontal bedding == - low Δ bedding
 ⊙ - siderite