

98 of

MEASURED SECTION NO. Clay 1132
 LOCALITY Columbia 20312
 SETTING _____

DATE 6/3/91
 STRATIGRAPHIC UNIT Big Injun
 MEASURED BY Rm & AV

	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	TEXTURAL MATURITY	DESCRIPTIONS
	GRAV	SAND	SILT CLAY				
1965	64 4	VCCM FVF	—				
1970			10°				dk brownish grey, medium to very coarse qtz ss, poorly sorted w/ infrequent calcitic cement & moderately well rounded qtz pebbles and granules interbedded w/ brownish grey fine to very fine qtz sandstone: horizontal & low angle, planar xbeds common w/ minor trough & ripple scale xbeds in finer ss: coarse → fine units marked by sharp basal contacts & gradational tops: basal contact occasionally has shallow scour & pebb lag: 1967'3" - grey green silty shale ~ .8cm thick w/ gradational base & sharp top: 1975'3" -
1975			10°				dk green siltstone, 1cm thick - gradational upper & lower contacts
1980			10°				
1985							dk grey, very fine - fine qtz ss w/ thin (1-2cm) layers of v. coarse qtz sand, granules, & pebbles - also single, granule & pebble layers, one grain thick & isolated qtz pebbles → 1cm diameter: faint horizontal laminae & infrequent, low angle planar xbeds disappear ~ 1992 along w/ coarse material - nodule pyrite & dk grey organic debris begins to increase at the same point: 1889'6" - 1991'6" - heavily cemented w/ calcite - gives a white mottled appearance to the rock: pyrite nodules → 1cm surrounded by oxidation rind: organic debris is flattened, <.5cm in length, "non-descript"
1990			<10°				
1995			*				
2000			* P				

⊙ - calcite cement
 ● - shale clay
 ⊕ - pyrite
 * - organic debris

— - scour surface
 — — — - horizontal laminae
 // - planar xbeds
 W - trough xbeds
 ~ ~ - ripple scale xbeds

(10g + 1' = core)

MEASURED SECTION NO. Clay 1132
 LOCALITY Columbia 203120
 SETTING _____

DATE 6/3/91
 STRATIGRAPHIC UNIT Big Injan
 MEASURED BY RM & AV

DEPTH	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	TEXTURAL MATURITY		DESCRIPTIONS
	GRAV	SAND	SILT CLAY			SUP MAT	SUB MAT	
	64 4	VCCM FVF					IM	
2000			⊗					A fine to very-fine green-grey sandstone w/ lots of clay (auth.) - chlorite? and white mica (< 1mm) making up < 1%, porous, clay rich. Weak to moderate calcite cement. Zones of siderite occur where marked w/ local areas of pyrite (dark grey). The pyrite may represent pyritization of organics
2005			⊗					
2010			⊗					at 2010' 4"-50 slope w/ organic bits that have been pyritized?
2015			⊗					The last 1/2 inches consists of intraclasts or rip-up clasts of very fine sandstone in a matrix of fine to very-fine sandstone. Note the diagenetic layer (limonite) - note flow features clasts = largest = 0.4 cm x 6mm
2040			⊗					Top 1/2" is shale, moderate bioturbation, with fine rip-up clasts. The next 2 1/2" sandstone is a bi-modal sandstone with sandstone rip-up clasts (3/4 cm x 1 cm x ?). The fine sand grains are predominantly coarse to very coarse with one large (5 mm x 5 mm). The sandstone is fine to very fine, grey with lots of clay (auth.), white mica (< 1mm) and limonite color speck (< 1mm). The clay initially repels the water causing bedding - but then the sandstone is very porous. Around the 2042' mark we have irregular horizontal fractures - that may be following one-grain thick clay partings. NOTE the dark staining at edge of core
2045			⊗					
2050			⊗					
2055								End of core

- ⊗ - ripup clasts
- ⚡ - bioturb. ⚡ - low ⚡⚡ - moderate ⚡⚡⚡ - strong
- == - horizontal bedding
- ⊗ - siderite nodules
- ⊗ - pyrite
- * - organics (pyritized?)

very weak red to H.C.
 limonite color speck (< 1mm)