

MEASURED SECTION NO. Clay 1108
 LOCALITY _____
 SETTING _____

DATE 4/23/91
 STRATIGRAPHIC UNIT Big Lime / Big Injun
 MEASURED BY A.V. & R.M.

Interval	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	TEXTURAL MATURITY		DESCRIPTIONS
	GRAV	SAND	SILT CLAY			SUP	SUB	
2030	64 4	VCCM F VF						
2035								Hi. grey, ooid grainstone w/ stylolites & minor retexturization massive at top: thin-bedded at bottom w/ interbedded lenses of micrite: all horizontally bedded
2060								Missing
2065								H. tan, micrite with crenulated algal laminar & fenestrate filled w/ coarse calcite spar & fine-coarse quartz sand throughout → 10% of rock: rare, 2cm thick layers w/ > 30% qtz sand: lower contact sharp, but not scoured
2070								DK purple-grey, coarse-very coarse qtz ss; poorly sorted, ? dolomite cement at top w/ scattered, white qtz granules & planar xbeds
2075								F-fine, greenish qtz sandstone grading downward into dk. purplish grey, medium qtz ss: low angle planar xbeds & thin qtz pebble/granule layers & laminae parallel to xbeds: minor pyrite at top
2076								Pinkish grey, coarse-very coarse qtz ss: low-high (20°) angle planar & trough xbeds: qtz pebble & granule laminae parallel to xbeds: black, shale layer, 3cm thick at 2070.8
2080								grey, poorly sorted, fine-medium qtz ss, generally massive to faint horizontal laminae w/ rare vertical burrows & layers of very coarse-granule qtz sandstone: coarse layers show planar xbeds: thin clay drapes on horizontal laminae
2085								interbedded grey, poorly sorted, fine-very fine qtz ss & pinkish grey, v. coarse-granule qtz ss & conglomerate: coarse units have scoured bases, minor calcite cement & trough xbeds: fine units have horizontal laminae & ripple xbeds cut by vertical burrows
2090								grey, fine-very fine qtz ss. w/ horizontal laminae & ripple xbeds: rare, isolated qtz pebbles & coarse qtz sand layers to 2cm thick: thin, clay drapes in laminae & xbeds: ? burrows disrupting ripple xbeds & possible ripple scale herringbone xbed

2600

these burrows look like escape structures

~~~~~ - algal laminae  
 @ - shale rf

~~~~~ - herringbone xbeds  
 ~~~~~ - ripple scale xbeds

core - 7f = log

NOTE: This is not as coarse as 015-1130, 1126, 1110

MEASURED SECTION NO. Clay 1108  
 LOCALITY \_\_\_\_\_  
 SETTING \_\_\_\_\_

DATE 4/23/91  
 STRATIGRAPHIC UNIT Big Lime / TBS Injun  
 MEASURED BY A.V. & R.M.

|      | SEDIMENTARY TEXTURES & STRUCTURES |      |        | INTERVAL | ROCK TYPE, CONTACTS & ACCESSORIES | SUP MAT SUB IM | TEXTURAL MATURITY | DESCRIPTIONS                                                                                                                                                                                                                                                                                                                                                                                            |      |      |
|------|-----------------------------------|------|--------|----------|-----------------------------------|----------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
|      | GRAV                              | SAND |        |          |                                   |                |                   |                                                                                                                                                                                                                                                                                                                                                                                                         | SILT | CLAY |
|      | 64 4                              | VCC  | M F VF |          |                                   |                |                   |                                                                                                                                                                                                                                                                                                                                                                                                         | —    | —    |
| 2085 |                                   |      |        |          |                                   |                |                   | at 2085' - a coarse sand layer, one layer thick<br>2086' - w/ limonite staining - fine < 1mm<br>at 2086' - a vertical tube? w/ clay lining<br>2086' - a horizontal burrows - with clay lining                                                                                                                                                                                                           |      |      |
| 2090 |                                   |      |        |          |                                   |                |                   | Dark staining on edge of core (?)<br>at 2090' 5" - horizontal microfracture<br>at 2091' 10" - one <sup>very</sup> coarse sand grain                                                                                                                                                                                                                                                                     |      |      |
| 2095 |                                   |      |        |          |                                   |                |                   | at 2095' - a tubular siderite nodule (old relict horizontal burrow)<br>(12-15%)<br>Siderite nodules, from 2095' 4" to 2096' - also calcite cemented<br>≈ 2-3% siderite<br>very weak calcite cement - NOTE: where siderite increases<br>calcite cement increases<br>< 1% siderite<br>Microfaults offsetting layers by 1/2 mm                                                                             |      |      |
| 2100 |                                   |      |        |          |                                   |                |                   | NOTE: what is lacking in the lower portion of<br>this core which was observed in #15-1130, 1126, 1110<br>is the 2-3 pebbles marking layers<br>The sandstone is medium grey in color<br>fine-grained w/ 1-2% white<br>mica of 1 mm size, generally the sandstone is<br>finely speckled (< 1mm) with 2% Fe-staining and<br>the Fe-staining may increase as pyrite or siderite<br>in the cores noted above |      |      |

- - microfaults offsetting layers
- ⊙ - siderite nodules
- \* - organics
- ⊕ - pyrite (?)
- ∩ - weak boturbation
- SS - moderate "
- SSS - strong "
- ==== - horizontal laminations
- ≡≡ - cross bedding
- ≡≡ - low-angle cross bedding