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Note: Core Chips + Penn 201 Core

MEASURED SECTION NO. ROANE 1051 DATE 5/3/91 (6/11/92)  
 LOCALITY C.C. Hively, 29W STRATIGRAPHIC UNIT Big Injun  
 SETTING WALTON FIELD MEASURED BY KM & AV

|      | SEDIMENTARY TEXTURES & STRUCTURES |          |           | INTERVAL | ROCK TYPE, CONTACTS & ACCESSORIES | TEXTURAL MATURITY | DESCRIPTIONS  |
|------|-----------------------------------|----------|-----------|----------|-----------------------------------|-------------------|---|
|      | GRAV                              | SAND     | SILT CLAY |          |                                   |                   |   |
| 1965 | 64 4                              | VCCM FVF | ○         |          |                                   |                   | lt. grey, re-crystallized, ooid-fossil fragment packstone-wackestone: crinoid columnal top 1'   |
| 1970 |                                   |          | ○         |          |                                   |                   | lt. grey, sacrosic dolomite, w/ v.f. qtz sand: horizontal stylolites - top 2': original texture has been destroyed by dolomitization  |
| 1975 |                                   |          | ○         |          |                                   |                   | grey, sacrosic, micr. b w/ v.f. qtz sand: horizontal & vertical stylolites: ? re-crystallization has destroyed original texture   |
| 1980 |                                   |          | ○         |          |                                   |                   | 1980' - black, silty shale layer, 2cm thick amount of qtz ss increases down hole - same for grain size:<br>1982.9 - medium to coarse qtz ss: rock is a qtz wackestone-packstone |
| 1985 |                                   | (S)      | (C)       |          |                                   |                   | white, coarse-v. coarse, poorly sorted qtz ss interbedded w/ green, v.f. qtz ss - calcite cement:   |
| 3 ↓  |                                   | (S)      | (C)       |          |                                   |                   | grey green, fine-vf. qtz ss: varying amounts of calcite cement: <u>Note: 2cm thick green-grey, micaceous shale at 1986'</u>   |
| 1989 |                                   | (S)      | (C)       |          |                                   |                   | rare, isolated, qtz granules:<br>1995-1996 - single layer of qtz granules,<br>- micaceous & marked by ? limonite "speckles" throughout  |
| 1990 |                                   | (S)      | (C)       |          |                                   |                   | 1991-1997' - faint horizontal laminae<br>calcite cement very weak - seems to decrease down hole   |
| 2    |                                   | (S)      | (C)       |          |                                   |                   |   |
| 1995 |                                   | (S)      | (C)       |          |                                   |                   |   |
| 2000 |                                   |          | (C)       |          |                                   |                   |   |

- - ooid
- ⊙ - crinoid
- ⊙ - calcite
- (S) - s. detrit
- ~ - unconformity
- py - stylolite
- - horizontal laminae
- ~ - ripple beds
- - shale clasts
- /// - planar x beds

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Note: Core chips + Pennzoil Core

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 LOCALITY C.C. Hively, 29W  
 SETTING Walton Field

DATE 5/3/91 (6/11/92)  
 STRATIGRAPHIC UNIT Big Injun  
 MEASURED BY RME AV

|      | SEDIMENTARY TEXTURES & STRUCTURES |          |              | INTERVAL | ROCK TYPE, CONTACTS & ACCESSORIES | SUP<br>MAT<br>SUB<br>IM | TEXTURAL MATURITY | DESCRIPTIONS   |
|------|-----------------------------------|----------|--------------|----------|-----------------------------------|-------------------------|-------------------|--|
|      | GRAV                              | SAND     | SILT<br>CLAY |          |                                   |                         |                   |  |
|      | 64 4                              | VCCM FVF | —            |          |                                   |                         |                   |  |
| 2000 |                                   |          |              |          |                                   |                         |                   |  |
| 2004 |                                   |          |              |          |                                   |                         |                   | at 2003-2004 horizontal lamination w/ a granular size layer at bottom of lamination - 1 layer thick  |
| 2005 |                                   |          | 5            |          |                                   |                         |                   | at 2004-2005 a piece of wood fragment (1cm X 7cm)  |
| 2010 |                                   |          |              |          |                                   |                         |                   | at 2007-2008 - clay drapes - not continuous on horizontal surface<br>This sandstone is fine in grain size light green-grey in color<br>Porous - soaks up water<br>very weak calcite cement<br>clay coating (auth)<br>speckled w/ limonite-color mineral (oxidized pyrite?)<br>< 1% white mica - some large (2-3mm) in size - however these occur locally<br>The sandstone is predominantly Qtz, however white feldspar (19%) |
| 2015 |                                   |          |              |          |                                   |                         |                   |  |
| 2020 |                                   | 5        |              |          |                                   |                         |                   |  |
| 2025 |                                   |          |              |          |                                   |                         |                   | A dark grey shale - w/ white mica (< 1%) 2-4mm diameter  |
| 2025 |                                   | 5        |              |          |                                   |                         |                   | A light green, fine, sandstone<br>rock is porous - < 1% white mica (< 1mm)<br>you can rub your fingers over the rock and not rub off the sand grains<br>speckled w/ < 1% mineral that is iron-oxide in color (oxidized pyrite?)<br>1% white feldspar + steel thin section  |
| 2030 |                                   |          |              |          |                                   |                         |                   | End of chips at 2027   |

~ - ripple scale x-bedding  
 = - horizontal lamination  
 // - x-bedding