

MEASURED SECTION NO. Clay 1052
 LOCALITY Columbia Gas 20177
 SETTING _____

DATE 12/9/91
 STRATIGRAPHIC UNIT Big Injan
 MEASURED BY RM & AV

NOTE: This well is in Rouzer (22) Field
 It is about 9/10 mile south of
 Granny CK (well 15-288) This is
 an oil & gas well

1083
 3

unconformity
 may be within
 missing
 interval

DEPTH	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	SUP MAT SUB	TEXTURAL MATURETY	DESCRIPTIONS
	GRAV	SAND	SILT CLAY					
1840	64 4	VCCM FVF						
1841								
1845								
1850								
1855								
1860								
1865								
1870								
1875								

Pinkish grey, qtz granule-qtz sand - ooid
 packstone-grainstone: w/ ? Kspar grains
 to 1-2%, rare coarse fossil fragments:
 poorly developed stylolites - horizontal
 scour at base w/ rounded qtz pebbles & ss
 rock fragments.

Pinkish grey, ooid-qtz sand packstone w/ small
 displacement (2cm), reverse microfaults & small
 horizontal stylolites: towards base, low
 angle (10°) planar xbeds: 1947'6"
 intense bioturbation - "planolites" - like
 horizontal burrows in dk grey silt. zone
 Scour at base w/ rounded qtz pebbles

dk pinkish grey, qtz sand packstone-wackestone
 w/ indistinct horizontal burrows & wispy
 green laminae

greenish grey to purplish grey, calcite-cemented
 fine-medium qtz sandstone interbedded
 w/ purplish v.coars. coarse qtz sandstone:
 predominantly horizontal to very low angle
 planar xbeds w/ infrequent ripple xbeds,
 trough xbeds w/ pebbles & granule lags, high
 angle (30-45°) planar xbeds, purple
 siderite nodules → 1cm diameter, single
 pebble layers & isolated qtz pebbles:
 sporadic calcite cementation & white
 calcitic nodules → seen: rare
 evidence of burrowing, small scale (1cm)
 normal micro faults, disseminated
 pyrite

white to light grey, v.coars.-medium qtz
 ss w/ interbeds of dk grey, fine-medium
 qtz ss w/ dark horizontal laminae, low
 angle planar xbeds, & ripple-scale xbeds:
 coars ss is massive w/ scoured bases:

- normal fault
 - erosional scour
 - stylolites
 - pyrite
 - siderite
 - ooid
 - ripple xbed
 - trough xbed
 - horizontal laminae
 - planar xbeds

of 3

	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	TEXTURAL MATURITY	DESCRIPTIONS
	GRAV	SAND	SILT CLAY				
	64 4	VCCM FVF	-				
1875	VC VC						rare, grey-green shale interbeds (3cm 10cm thick) at 1877' 2"-pyrite following shale partings = 1-2 mm
1880							5" on shale - dark grey - waxy at 1882' 4"-1882' 8"-green shale w/ marcasite on bedding
1885	VC VC VC VC VC VC						at top of coarse sand - symmetric ripples at 1883' 9"-we have horizontal coarse sand layers at 1884' 6"-we have pyrite following a parting at 1885' -pyrite forms large nodules at 1886' -1887' 3"-the grey-green ss is speckled w/ Fe (hematite or siderite?) making up 2-8% of the rock at 1886' 8"-horizontal partings
1890	VC VC VC VC VC						at 1887' 3"-1888' 8"-we have limonite concentration of diagenetic cement at 1889' 5"-looks like a boundary between deposition note concentration of pyrite around grains, limonite, and hematite - diagenetic at 1892 - 1892' 6"-We have Qtz floating pebbles 1mm up to 5mm w/ mean \approx 2 1/2 mm. These form horizontal layers
1895	VC VC VC						at 1895' 5"-1895' 8"-We have floating Qtz grains 1mm up to 7mm with a mean \approx 2 1/2 mm - these pebbles form an irregular surface at 1896' 4"-1897' 4" lots of horizontal partings that following bedding at 1898' 6 1/2"-we have 2mm to 5mm thick red ss layer which completely includes a grey-green very fine ss
1900	X						From 1896 - 1899: A grey-green very fine ss Porous with lots of clay coating the grains The fine grain unit is fine to very fine w/ 1% mica light grey-green in color and speckled w/ hematite (2mm diameter) few sedimentary structure and occasional Qtz pebbles floating in matrix
1935							From 1895' 16" to 1939' 5' horizontal fractures that formed along partings at top of sand alternating grey-green shale w/ red siltstone followed by 1 foot of very poorly sorted dark very fine matrix w/ 25% coarse Qtz sand made of Qtz note: fine coating of calcite coating layers
1940							

NOTE: Interfingering of coarse in fine stuff

Missing 1899' 14" to 1935' 5"

- horizontal bedding
- floating Qtz pebbles
- ripple cross-beds
- pyrite
- scour surface
- soft sediment deformation

- ccc - strongly calcite cement
- cc - moderate
- C - weak
- vc - very weak
- crossbedding w/ angle
- symmetric ripples

0x3
33

MEASURED SECTION NO. Chy 652
 LOCALITY Columbia 20277
 SETTING _____

DATE Dec 9, 1951
 STRATIGRAPHIC UNIT Big Injun & Salina
 MEASURED BY RM & AV

	SEDIMENTARY TEXTURES & STRUCTURES			INTERVAL	ROCK TYPE, CONTACTS & ACCESSORIES	SUP MAT SUB MATURETY	DESCRIPTIONS
	GRAV 64 4	SAND VCCM FVF	SILT -CLAY				
1940							<p>long vertical fracture from 1940 1/2 to end of core w/ dark coloration paralleling fracture</p> <p>The sand is a very dark grey fine to very fine sandstone w/ ~1% - 2% white mica (muscovite?) The rock is porous</p>
1945							

- long vertical fracture w/ black color following fracture