

Scale:
1 line = 2'

State Geological Survey of Kansas

T. 15 S., R. 10E County Pottawatomie

Foss.

Bed

Mbr.

Fm.

Sec 24

Locality description CMI Project Drilling Site # 31
150 yds E. of Milo Rd., 0.85 miles S. of Godlove Rd.

Measured by G. Worthington, Ron West

Date 12-5-06

Remarks Sunny, 40° GPS: N39.42402° W96.24773°

77.2/78.9 = 97.8% Recovery

Bed No.

Description

UNIT
Th.

JOB#
+ Th

Thickness

Cur
Th.

11 Overburden - soil first 2'-3'. After 3',

10.1' 10.1'

10 light-colored shale (yellow-gray), some
sandy grains

1: 7.5' 7.9' 18.0'

9 At 21' depth, harder medium gray shale,
silty, slightly calcareous, occasional
limestone lenses (5 Point Ls. Mbr.?)
(Falls City Ls.?)

2: 9.1' 10.0' 28.0'

8 At 28' depth, a softer medium gray
to medium dark gray shale

* 3: 9.2' 9.5' 37.5'

7 At about 34.5' - 1 ft of shaley limestone
w/ limy clasts, shaley partings, after that
limy shale, medium dark gray. (Aspinwall Ls Mbr.?)

4: 1.5' 1.5' 39.0'

6 At about 46' depth, starts a pale-reddish
brown (10R 5/4) to grayish red (10R 4/2)
silty shale, alternating with a pale olive
(10Y 6/2) to dusky yellow green (5GY 5/2)
shale (Towle Shale Mbr.?)

5: 8.9' 9.0' 48.0'

6: 9.8' 10.0' 58.0'

7: 9.5' 10.0' 68.0'

8: 8.6' 9.5' 77.5'

9: 6.9' 6.0' 83.5'

5 At about 60' depth, begins a medium light gray
(N6) to medium gray silty shale w/ pyrite lenses
or nodules (dark yellowish orange color (10YR 6/6)
ends about 63' depth.

10: 6.2' 5.5' 89.0'

4 At 63' depth - medium dark gray hard shale

3 At 69.8' depth begins a medium dark gray (N4)
molluscan limestone (wackestone) with shaley
partings - perhaps 2" thick, followed by 3-4"
of limy shale, (Brownsville Ls Mbr.)

2 At 75' depth to end, medium light gray to medium
gray shale, more visibly micaceous w/ possibly
plant debris or shelly fauna.

* Core remained stuck in barrel, was removed later & found to
have an unconsolidated portion in middle. Subtracting top &
bottom portions (8.0'), knowing total drilled was 9.5', and
assuming core recovery of 96.6% (jobs 1, 2, 4, 5, 6) - estimate between 1.2-1.5'
unconsolidated portion of core.