

| Drilling disturb. | Color | Grain-size | | Sed. / struct. / contact | Bioturb. | Samples | Comments | Logged by: ST | Date: 2011/12/31 |
|-------------------|-------------------------|------------|-----------------|--------------------------|----------|---------|---------------------------------------|------------------|---------------------|
| | | Avg. | Max. | | | | | | |
| -- 0 -- | 10Y 4/1 (dark greenish) | clay | m. sand (foram) | massive | BT 3 | | mud - foram present - 6, py burrow | | |
| -- 10 -- | | | | | | | | | |
| -- 20 -- | | | | | | | | | |
| 27 | | | | | | | | | |
| -- 30 -- | | | | | | | | | |
| -- 40 -- | | | | | | | | | |
| -- 50 -- | | | | | | | | | |
| -- 60 -- | | | | | | | | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | | | | | | | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | | | |
| -- 110 -- | | | | | | | | | |
| -- 120 -- | | | | | | | | | |
| -- 130 -- | | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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|-------------------|-----------------|------------|-----------------|------------------------------|----------|---------|--|------------------|------------------------|
| | | Avg. | Max. | | | | | | |
| --0-- | 10Y 4/1 (light) | clay | m. sand (foram) | not clear contact massive | BZ 3 | | mud (not change color chart but more lighter) foram present | | |
| --10-- | | | | | | | 10 ~ 15, heavy bioturbation (some burrows) | | |
| --20-- | | | | | | | | | |
| --30-- | | | | | | | 33. shell fragment | | |
| --40-- | | | | | | | | | |
| --50-- | | | | | | | | | |
| --60-- | | | | | | | | | |
| --70-- | | | | | | | 74, shell fragment | | |
| --80-- | | | | | | | 83. shell fragment | | |
| --90-- | | | | | | | 90, burrow filled silt | | |
| --100-- | | | | | | | | | |
| --110-- | | | | | | | 111, shell fragment | | |
| --120-- | | | | gradational contact | | | | | |
| 123 | 10Y 4/1 (light) | silt | m. sand (foram) | massive | BZ 3 | | Silty mud - foram present | | |
| --130-- | | | | | | | 136, shell fragment | | |
| --140-- | | | | | | | | | |
| --150-- | | | | | | | | | |

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|-------------------|-----------------|------------|------------------|------------------------|----------|---------|---|------------------|------------------------|
| | | Avg. | Max. | | | | | | |
| 0 | | | | | | | Same as above | | |
| 10 | | | | | | | 12 16) shell fragments | | |
| 20 | | | | | | | | | |
| 30 | | | | | | | | | |
| 40 | | | | | | | 40, shell fragments | | |
| 50 | | | | | | | 50, shell fragments | | |
| 60 | | | | | | | | | |
| 70 | | | | | | | | | |
| 80 | | | | | | | 79, shell fragment 89, shell fragments | | |
| 90 | | | | | | | | | |
| 100 | | | | | | | 98, shell fragments | | |
| 110 | | | | | | | | | |
| 120 | | | | | | | | | |
| 129 | | | | | | | | | |
| 130 | 10Y 4/1 (light) | clay | in. sand (foram) | massive | BI 3 | | mud-foram present | | |
| 140 | | | | | | | | | |
| 150 | | | | | | | | | |

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



fractures

gradational contact


coarsening upward

| Drilling disturb. | Color | Grain-size | | Sed. struct. / contact | Bioturb. | Samples | Comments | Logged by: SF | Date: 2011 12/31 |
|-------------------|-------------------------|------------|------|------------------------|----------|----------|---|------------------|------------------------|
| | | Avg. | Max. | | | | | | |
| 0 | | | | | | | Same as above | | |
| 10 | | | | | | | 13. shell fragment | | |
| 20 | | | | | | | 29. shell fragment | | |
| 30 | | | | | | | | | |
| 40 | | | | | | | | | |
| 50 | | | | | | | 51. shell fragment | | |
| 60 | | | | | | | | | |
| 63 | | | | | | | 63. py burrows, burrow filled darker mud | | |
| 75 | 10x 4/1 (light) | | | | | | mud | | |
| 80 | 10x 4/1 (dark greenish) | | | | | | only color change (same color chart.) | | |
| 90 | | | | | | | | | |
| 100 | | | | | | | | | |
| 110 | | | | | | | 106. shell fragment | | |
| 110 | | | | | | 110 S.S. | Mud with Bio Carb. | | |
| 120 | | | | | | | | | |
| 130 | | | | | | | | | |
| 135 | | | | | | | | | |
| 140 | | | | | | | | | |
| 150 | | | | | | | | | |

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

I
W

| Drilling disturb. | Color | Grain-size | | Sed. struct. / contact | Bioturb. | Samples | Comments | Logged by: SF | Date: 2011/12/31 |
|-------------------|-------------------------|------------|------|------------------------|----------|---------|--|------------------|---------------------|
| | | Avg. | Max. | | | | | | |
| -- 0 -- | | | | | | | Same as above | | |
| 17 | 10Y 4/1 (dark greenish) | | | | | | mud | | |
| -- 10 -- | 10Y 4/1 (light) | | | | | | only color change. (same color chart) | | |
| -- 20 -- | | | | | | | | | |
| -- 30 -- | | | | | | | 24~28 burrows?  | | |
| -- 40 -- | | | | | | | | | |
| -- 50 -- | | | | | | 50 S-S | Mud with bio carb. 59. shell fragments 58. shell fragment | | |
| -- 60 -- | | | | | | | | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | | | | | | | | |
| -- 90 -- | | | | | | | Calcareous Mud. | | |
| -- 100 -- | | | | | | | | | |
| -- 110 -- | | | | | | | | | |
| -- 120 -- | | | | | | | 114. shell fragment 117. shell fragment 124~126. shell fragment | | |
| -- 130 -- | | | | | | | | | |
| -- 140 -- | | | | | | | 138. shell fragment 145. shell fragment | | |
| -- 150 -- | | | | | | | | | |

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|-------------------|----------------|------------|-------------------|------------------------|----------|---------|---|------------------|------------------------|
| | | Avg. | Max. | | | | | | |
| -- 0 -- | | | | | | | Same as above | | |
| -- 10 -- | | | | gradational contact | | | | | fining upward |
| 16 | | | | | | | | | |
| -- 20 -- | 10Y 4/ (light) | silt | fin. sand (foram) | massive | 31 3 | | silty mud | | |
| -- 30 -- | | | | | | | 30, shell fragments | | |
| -- 40 -- | | | | | | | | | |
| -- 50 -- | | | | | | | 49) shell fragments Sandy mud with biocarb. | | |
| -- 60 -- | | | | | | | 55, shell fragment. 61, shell fragment 65, shell fragment | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | | | | | | | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | | | |
| -- 110 -- | | | | | | | | | |
| -- 120 -- | | | | | | | | | |
| -- 130 -- | | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

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|-------------------|-------|------------|------|------------------------|----------|---------|--|------------------|------------------------|
| | | Avg. | Max. | | | | | | |
| -- 0 -- | | | | | | | Same as above | | |
| -- 10 -- | | | | | | | -15, shell fragment | | |
| -- 20 -- | | | | | | | -20, shell fragment -25, shell fragment | | |
| -- 30 -- | | | | | | | -35, shell fragment | | |
| -- 40 -- | | | | | | | | | |
| -- 50 -- | | | | | | | | | |
| -- 60 -- | | | | | | | | | |
| 62 | | | | | | | | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | | | | | | | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | | | |
| -- 110 -- | | | | | | | | | |
| -- 120 -- | | | | | | | | | |
| -- 130 -- | | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |



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|-------------------|-------|------------|------|------------------------|----------|---------|------------------------------|------------------|------------------------|
| | | Avg. | Max. | | | | | | |
| --0-- | | | | | | | Same as above | | |
| --10-- | | | | | | | 6) shell fragments 14 | | |
| --20-- | | | | | | | 19 ↓ fractured 25 | | |
| --30-- | | | | | | | 32 ↑ fractured | | |
| --40-- | | | | | | | | | |
| --50-- | | | | | | | 47, shell fragment | | |
| 51 | | | | | | | | | |
| --60-- | | | | | | | | | |
| --70-- | | | | | | | | | |
| --80-- | | | | | | | | | |
| --90-- | | | | | | | | | |
| --100-- | | | | | | | | | |
| --110-- | | | | | | | | | |
| --120-- | | | | | | | | | |
| --130-- | | | | | | | | | |
| --140-- | | | | | | | | | |
| --150-- | | | | | | | | | |

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|-------------------|-----------------------|------------|-----------------|------------------------|----------|---------|---------------------------|---------------|--------------------------------------|
| | | Avg. | Max. | | | | | | |
| --0-- | | | | | | | | | |
| 7. | | VOID | | (?) hot clear | | | | | |
| --10-- | 10Y 4/1 (light) | clay | m. sand (foram) | massive | BI 2 | | mud - foram present | | |
| 19. | | | | (?) hot clear | | | | | |
| --20-- | 10Y 4/1 (light) | silt. | m. sand (foram) | massive | BI 3 | | silty mud - foram present | | |
| fractured | | | | | | | -26, shell fragment | | |
| --30-- | | | | | | | -34, shell fragment | | |
| --40-- | | | | | | | -42, shell fragment | | |
| --50-- | | | | gradational contact | | | | | |
| 53 | | | | | | | | | |
| --60-- | 10Y 4/1 (light) | clay | m. sand (foram) | massive | BI 3 | | mud - foram present | | |
| 59 | | | | | | | -63, shell fragment | | |
| --70-- | | | | | | | | | |
| --80-- | | | | | | | | | |
| --90-- | | | | | | | -92, py burrow | | |
| fractured | | | | | | | | | |
| --100-- | | | | | | | | | |
| --110-- | | | | | | | | | |
| 116 | | | | | | | mud (dark greenish) | | only color change (same color chart) |
| --120-- | 10Y 4/1 dark greenish | | | | | | | | |
| 123 | | | | | | | | | only color change (same color chart) |
| --130-- | 10Y 4/1 (light) | | | | | | | | |
| --140-- | | | | | | | -141~143, shell fragments | | |
| --150-- | | | | | | | | | |

↑ coarsening upward

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|-------------------|-------|------------|------|------------------------|----------|---------|---------------------|------------------|------------------------|
| | | Avg. | Max. | | | | | | |
| -- 0 -- | | | | | | | Same as above | | |
| -- 10 -- | | | | | | | 6, shell fragments | | |
| 15 | | | | | | | 11, shell fragment! | | |
| | | | PAL | | | | | | |
| 20 | | | | | | | | | |
| -- 20 -- | | | | | | | | | |
| -- 30 -- | | | | | | | | | |
| -- 40 -- | | | | | | | | | |
| -- 50 -- | | | | | | | | | |
| -- 60 -- | | | | | | | | | |
| -- 70 -- | | | | | | | | | |
| -- 80 -- | | | | | | | | | |
| -- 90 -- | | | | | | | | | |
| -- 100 -- | | | | | | | | | |
| -- 110 -- | | | | | | | | | |
| -- 120 -- | | | | | | | | | |
| -- 130 -- | | | | | | | | | |
| -- 140 -- | | | | | | | | | |
| -- 150 -- | | | | | | | | | |

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