

# LOG OF BORING and TEST RESULTS

BORING 87-143  
U.S. MARITIME ADMINISTRATION  
RESERVE FLEET HARBOR  
BEAUMONT, TEXAS

| DEPTH, FT. | SYMBOL | CORES | SURFACE EL. -20.3                                                                                                                                                                             | BLOWS PER FT. | UNDRAINED SHEAR STRENGTH<br>TONS PER SQ. FT. |     |     | UNIT DRY<br>WT. PCF | WATER<br>CONTENT % |    |     |     | PI<br>(-200) |
|------------|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------|-----|-----|---------------------|--------------------|----|-----|-----|--------------|
|            |        |       |                                                                                                                                                                                               |               | 0.5                                          | 1.0 | 1.5 |                     | PL                 | +  | -   | LL  |              |
|            |        |       |                                                                                                                                                                                               |               |                                              |     |     |                     | 40                 | 80 | 120 | 160 |              |
|            |        |       | VERY SOFT BLACK CLAY (CL) WITH ORGANIC MATERIAL, AND GRAY STREAKS AT 2-4' (5')                                                                                                                | 50/3          |                                              |     |     |                     |                    |    |     |     | 16           |
| 10         |        |       | MEDIUM DENSE TO DENSE GRAY SLIGHTLY SILTY FINE SAND (SP-SM) -WITH ORGANIC MATERIAL AT 6.5-7.5'                                                                                                | 50/5          |                                              |     |     |                     |                    |    |     |     | (6)          |
| 20         |        |       | -WITH GRAVEL AND CLAY POCKETS AT 21.5' (27')                                                                                                                                                  | 18            |                                              |     |     |                     |                    |    |     |     |              |
| 30         |        |       | FIRM TO STIFF GRAY CLAY (CH) WITH ORGANIC MATERIAL TO 36' -WITH SHELL FRAGMENTS AT 32-34', AND WOOD FRAGMENTS AT 34-36' -BECOMES REDDISH-BROWN AT 38', AND WITH ORGANIC MATERIAL AT 42' (50') | 18            |                                              |     |     |                     | 58                 |    |     |     | 94           |
| 40         |        |       |                                                                                                                                                                                               |               |                                              |     |     |                     | 63                 |    |     |     | 78           |
| 50         |        |       |                                                                                                                                                                                               |               |                                              |     |     |                     | 98                 |    |     |     | 38           |
| 60         |        |       | VERY DENSE GRAY SLIGHTLY SILTY FINE SAND (SP-SM) OCCASIONAL CLAY POCKETS AT 60.5' (65')                                                                                                       | 50/4          |                                              |     |     |                     | 90                 |    |     |     | 39           |
| 70         |        |       | STIFF TO VERY STIFF GRAY CLAY (CH), SHELL FRAGMENTS TO 77', SAND POCKETS TO 67' -WITH ORGANIC MATERIAL AT 69-71', BECOMES DARK GRAY AT 71-79' -WITH WOOD FRAGMENTS AT 75-79' (79')            |               |                                              |     |     |                     | 93                 |    |     |     | 15           |
| 80         |        |       |                                                                                                                                                                                               |               |                                              |     |     |                     | 66                 |    |     |     | 66           |
| 90         |        |       |                                                                                                                                                                                               |               |                                              |     |     |                     |                    |    |     |     | 53           |

Date Started: 08/09/87 Date Completed: 08/10/87  
Weather: CLOUDY, WINDY, RAIN  
Water Depth: 21' AT 1345 HRS ON 08/09/87  
Completion Depth: 79' BELOW MUDLINE  
Driller: WILLIAMS Technician: HALLIGAN  
Drill Rig: FAILING 750 TRUCK-MOUNTED  
Sampling: 3" THIN-WALLED TUBE AND 2" SPLIT-BARREL SAMPLER  
Casing Required: 55' FROM BARGE DECK

## LEGEND AND NOTES

- ⊗ POCKET PENETROMETER ▲ TORVANE
- UNCONFINED COMPRESSION
- ◆ MINIATURE VANE (◇ RESIDUAL VALUE)
- UNCONSOLIDATED-UNDRAINED TRIAXIAL
- Open Symbols Designate Remolded Tests
- LL = LIQUID LIMIT PL = PLASTIC LIMIT
- PI = PLASTICITY INDEX
- 200 = % PASSING #200 SIEVE

SUMMARY OF TEST RESULTS  
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| BORING<br>NUMBER | SAMPLE<br>NUMBER | SAMPLE<br>INTERVAL<br>(FEET) | VISUAL CLASSIFICATION                                                                    | MC<br>(%) | UDW<br>(PCF) | LL  | PL | PI | GRADATION, PERCENT<br>PASSING SIEVE NO. |     |    |     |     | SU<br>(KSF) |
|------------------|------------------|------------------------------|------------------------------------------------------------------------------------------|-----------|--------------|-----|----|----|-----------------------------------------|-----|----|-----|-----|-------------|
|                  |                  |                              |                                                                                          |           |              |     |    |    | 4                                       | 10  | 40 | 100 | 200 |             |
| 87-143           | 1J               | 0-2                          | VERY SOFT DARK GRAY ORGANIC CLAY                                                         |           |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 2J               | 2-4                          | VERY SOFT DARK GRAY AND GRAY CLAY (CL)<br>WITH ORGANIC MATERIAL                          | 61        |              | 38  | 22 | 15 |                                         |     |    |     |     |             |
| 87-143           | 3J               | 4-6                          | LIGHT GRAY FINE SAND                                                                     |           |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 4J               | 6.5-8                        | LIGHT GRAY FINE SAND (SP-SM)                                                             |           |              |     |    |    | 100                                     | 100 | 95 | 14  | 6   |             |
| 87-143           | 5J               | 11.5-13                      | LIGHT GRAY FINE SAND                                                                     |           |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 6J               | 16.5-18                      | LIGHT GRAY FINE SAND                                                                     |           |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 7J               | 21.5-23                      | GRAY COARSE TO FINE SAND (SP-SC) WITH<br>OCCASIONAL CLAY POCKETS                         |           |              |     |    |    | 88                                      | 80  | 55 | 10  | 8   |             |
| 87-143           | 8J               | 26-28                        | STIFF GRAY CLAY WITH SAND POCKETS AND<br>OCCASIONAL SEAMS                                |           |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 9Q               | 28-30                        | STIFF GRAY CLAY (CH) WITH BLACK STREAKS                                                  | 73        | 58           | 132 | 38 | 94 |                                         |     |    |     |     | 0.87        |
| 87-143           | 11Q              | 30-32                        | STIFF OLIVE GRAY CLAY WITH DARK GRAY<br>STREAKS                                          | 74        |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 14Q              | 32-34                        | STIFF GRAY CLAY WITH DARK GRAY STREAKS                                                   | 58        |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 15Q              | 34-36                        | STIFF GRAY CLAY (CH) WITH ABUNDANT<br>ORGANIC MATERIAL                                   | 58        | 63           | 111 | 33 | 78 |                                         |     |    |     |     | 1.09        |
| 87-143           | 17Q              | 36-38                        | STIFF GRAY CLAY WITH OCCASIONAL REDDISH<br>BROWN STREAKS                                 | 42        |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 19Q              | 38-40                        | STIFF GRAY CLAY WITH OCCASIONAL REDDISH<br>BROWN STREAKS                                 | 35        |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 21Q              | 40-42                        | STIFF LIGHT GREENISH GRAY CLAY (CH) WITH<br>NUMEROUS SILTY SAND POCKETS                  | 28        | 98           | 59  | 21 | 38 |                                         |     |    |     |     | 1.60        |
| 87-143           | 23Q              | 42-44                        | STIFF GRAY CLAY WITH OCCASIONAL REDDISH<br>BROWN STREAKS                                 | 46        |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 25Q              | 44-46                        | STIFF GRAY CLAY WITH REDDISH BROWN<br>STREAKS                                            | 36        |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 27Q              | 46-48                        | STIFF GRAY CLAY (CH) WITH SILTY SAND<br>POCKETS AND ORGANIC MATERIAL                     | 33        | 90           | 58  | 19 | 39 |                                         |     |    |     |     | 1.50        |
| 87-143           | 29J              | 50.5-52                      | LIGHT GRAY FINE SAND                                                                     |           |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 30J              | 55.5-57                      | LIGHT GRAY FINE SAND (SP-SM), SLIGHTLY<br>SILTY                                          |           |              |     |    |    | 100                                     | 100 | 71 | 14  | 11  |             |
| 87-143           | 31J              | 60.5-62                      | LIGHT GRAY FINE SAND                                                                     |           |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 32Q              | 65-67                        | FIRM GRAY SANDY CLAY (CL) WITH NUMEROUS<br>SAND POCKETS AND SEAMS AND SHELL<br>FRAGMENTS | 29        | 93           | 33  | 18 | 15 |                                         |     |    |     |     | 0.51        |
| 87-143           | 34Q              | 69-71                        | STIFF GRAY CLAY                                                                          | 50        |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 36Q              | 71-73                        | STIFF GRAY CLAY                                                                          | 50        |              |     |    |    |                                         |     |    |     |     |             |
| 87-143           | 38Q              | 73-75                        | STIFF GRAY CLAY (CH) WITH OCCASIONAL<br>SILT POCKETS AND BLACK STREAKS                   | 56        | 66           | 98  | 32 | 66 |                                         |     |    |     |     | 1.41        |

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|------------------|------------------|------------------------------|---------------------------------------------------------------------|-----------|--------------|----|----|----|-----------------------------------------|-------------|
|                  |                  |                              |                                                                     |           |              |    |    |    | 4 10 40 100 200                         |             |
| 87-143           | 41Q              | 75-77                        | VERY STIFF GRAY CLAY                                                | 54        |              |    |    |    |                                         |             |
| 87-143           | 42Q              | 77-79                        | VERY STIFF OLIVE GRAY CLAY (CH) WITH<br>OCCASIONAL ORGANIC MATERIAL | 49        |              | 80 | 27 | 53 |                                         |             |