

# BORING LOG FIELD DATA

Project HOUSTON SHIP CHANNEL Location STATION 40+000 400 LEVEE Date 2 JUNE 1972  
 Drill Rig ARCO 550 Inspector MINOR Operator SMITH Surface elev TIDE + 1.5  
 Levee District GALVESTON Job No. \_\_\_\_\_ Boring No. 72-102

| SAMPLE<br>NUMBER | DATE<br>TAKEN<br>1972 | STRATUM |     | DRIVE |      | SAMPLE |      | TYPE OF<br>SAMPLER | CONTAIN-<br>ER | PEN-<br>ETER | CLASSIFICATION AND REMARKS                                               |
|------------------|-----------------------|---------|-----|-------|------|--------|------|--------------------|----------------|--------------|--------------------------------------------------------------------------|
|                  |                       | FROM    | TO  | FROM  | TO   | FROM   | TO   |                    |                |              |                                                                          |
|                  |                       | 0.0     | 5.0 |       |      |        |      |                    |                |              | WATER                                                                    |
| 1                | 2 JUNE                |         |     | 5.0   | 7.5  | 6.3    | 7.5  | 3" SHELLY TUBE     | CONF           | 0.50         | GRAY, SILTY, VERY SANDY CLAY. SOFT<br>WASHED                             |
| 2                |                       | 8.5     |     | 7.5   | 10.0 |        |      |                    |                |              |                                                                          |
|                  |                       | 8.5     |     | 10.0  | 12.5 | 11.3   | 12.5 | 3" SHELLY TUBE     | CONF           | 0.25         | GRAY SILTY, CLAYEY SAND. VERY SOFT<br>WASHED                             |
| 3                | 2 JUNE                | 14.0    |     | 15.0  | 17.5 | 16.3   | 17.5 | 3" SHELLY TUBE     | CONF           | 0.00         | GRAY SILTY CLAY. VERY SOFT                                               |
|                  |                       |         |     | 19.0  | 17.5 | 20.0   |      |                    |                |              |                                                                          |
| 4                | 2 JUNE                | 19.0    |     | 20.0  | 22.5 |        |      | 3" SHELLY TUBE     | JAR            |              | GRAY, SILTY CLAY WITH SAND LAYERS<br>VERY SOFT                           |
|                  |                       |         |     | 23.5  | 22.5 | 25.0   |      |                    |                |              | WASHED                                                                   |
|                  |                       | 23.5    |     | 25.0  | 27.5 |        |      | SPLIT SPOON        | —              | —            | GRAY SILTY SAND WITH CLAY<br>LAYERS. VERY SOFT. WITH<br>SHELL. NO SAMPLE |
|                  |                       |         |     | 27.5  | 30.0 |        |      |                    |                |              | WASHED AFTER MIXING. SAMPLE                                              |
| 5                | 2 JUNE                |         |     | 30.0  | 32.5 | 30.0   | 32.5 | 3" SHELLY TUBE     | JAR            |              |                                                                          |
|                  |                       |         |     | 32.5  | 35.0 |        |      |                    |                |              | WASHED                                                                   |
| 6                | 2 JUNE                |         |     | 35.0  | 37.5 | 36.3   | 37.5 | 3" SHELLY TUBE     | CONF           | 0.00         |                                                                          |

# **BORING LOG** **FIELD DATA**

Project HOUSTON SHIP CHANNEL Location STA 40+000, 400' LEFT C Date 2 JUNE 1972  
 Drill Rig ARCO 550 HD Inspector MINOR Operator SMITH Surface elev TIDE +1.5  
 Levee District GALVESTON Job No. 45100-1114-501.04 Boring No. 72-102

| SAMPLE<br>NUMBER | DATE<br>TAKEN<br>1972 | STRATUM |      | DRIVE |      | SAMPLE |      | TYPE OF<br>SAMPLER | CONTAIN. | POCKET<br>PENETROMETER<br>VALUE | CLASSIFICATION AND REMARKS                                                                                         |
|------------------|-----------------------|---------|------|-------|------|--------|------|--------------------|----------|---------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                  |                       | FROM    | TO   | FROM  | TO   | FROM   | TO   |                    |          |                                 |                                                                                                                    |
|                  |                       |         |      | 37.5  | 40.0 |        |      |                    |          |                                 | WASHED                                                                                                             |
| 7                | 2 JUNE                |         |      | 40.0  | 42.5 | 41.3   | 42.5 | 3" SHELBY TUBE     | CONT     | 0.00                            |                                                                                                                    |
|                  |                       |         | 44.0 | 42.5  | 45.0 |        |      |                    |          |                                 | WASHED                                                                                                             |
| 8                | 2 JUNE                | 44.0    |      | 45.0  | 47.0 | 45.8   | 47.0 | 3" SHELBY TUBE     | CONT     | 3.75                            | GREEN SLIGHTLY SANDY CLAY<br>WITH LAYERS OF WELL INDURATED<br>SILTSTONE AND HAZY CALCAREOUS<br>NODULES. VERY STIFF |
| 9                | 2 JUNE                |         |      | 47.0  | 50.0 |        |      |                    |          |                                 | WASHED                                                                                                             |
|                  |                       |         |      | 50.0  | 52.0 | 50.8   | 52.0 | 3" SHELBY TUBE     | CONT     | 3.50                            |                                                                                                                    |
|                  |                       |         | 54.0 | 52.0  | 55.0 |        |      |                    |          |                                 | WASHED                                                                                                             |
| 10               | 2 JUNE                | 54.0    |      | 55.0  | 57.5 | 56.4   | 57.5 | 3" SHELBY TUBE     | CONT     | 3.75                            | GRAY GREEN SILTY, SLIGHTLY CLAYEY<br>SAND, WITH SILTSTONE. VERY STIFF                                              |
|                  |                       |         | 59.0 | 57.5  | 59.0 |        |      |                    |          |                                 | WASHED                                                                                                             |
| 11               | 2 JUNE                | 59.0    |      | 59.0  | 61.0 | 59.8   | 61.0 | 3" SHELBY TUBE     | CONT     | 1.25                            | BROWN SILTY SAND, WITH THIN<br>CLAY LAMINAE                                                                        |
|                  |                       |         |      |       |      |        |      | BOTTOMED           | AT       | 61.0                            |                                                                                                                    |
|                  |                       |         |      |       |      |        |      | COMPLETED          | AT       | 1000                            |                                                                                                                    |

12 July 71

GDLR NO 1401

PROJECT: HOUSTON SHIP CHANNEL

BORING NO. 72-102

LOCATION:

## TEST DATA SUMMARY

DATE COMPLETED 2 June 1972

| FIELD NO. | Sample Depth, Feet |      | CLASSIFICATION                     | SYMBOL | CONSISTENCY | POCKET (1)<br>PENETROMETER | STAN. PENET.<br>BLOWS/FT (2) | MOISTURE<br>CONTENT % | DRY DENSITY<br>p. c. f. | L.L. | P.L. | Lab<br>Sample No. | BAR<br>L.S. | SIEVE ANALYSIS |      |       |           |                                 |        |        |         |
|-----------|--------------------|------|------------------------------------|--------|-------------|----------------------------|------------------------------|-----------------------|-------------------------|------|------|-------------------|-------------|----------------|------|-------|-----------|---------------------------------|--------|--------|---------|
|           | From               | To   |                                    |        |             |                            |                              |                       |                         |      |      |                   |             | PERCENT        |      |       | INIT. WT. | ACC. WT. RTND.<br>SIEVE NO. (3) |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             | GRVL           | SAND | FINES |           | NO. 4                           | NO. 10 | NO. 40 | NO. 200 |
| 1C        | 6.3                | 7.5  | Gray Clay                          | CL     | M           | 0.75                       |                              | 31                    | 93                      | 49   |      | 1677              |             | 0              | 8    | 92    | 50        | 0                               | 0      | 0      | 4       |
| 2C        | 11.3               | 12.5 | Gray Clayey Sandy Silt             | CL-ML  | S           | 0.25                       |                              | 33                    | 90                      | 21   |      | 1678              | 3           | 0              | 44   | 56    | 50        | 0                               | 0      | 0      | 22      |
| 3C        | 16.3               | 17.5 | Gray Sandy Clay                    | CH     | S           | 0.25                       |                              | 34                    | 84                      | 52   |      | 1679              |             | 0              | 38   | 62    | 50        | 0                               | 0      | 1      | 19      |
| 4J        | 20.0               | 22.5 | Gray Sandy Clay                    |        |             |                            |                              | 54                    |                         |      |      | 1680              |             |                |      |       |           |                                 |        |        |         |
| 5J        | 30.0               | 32.5 | Gray Silty Sand                    | SP-SM  |             |                            |                              | 25                    |                         |      |      | 1681              | 0           | 0              | 94   | 6     | 50        | 0                               | 0      | 6      | 47      |
| 6C        | 36.3               | 37.5 | Gray Clayey Silty Sand w/Shell     | SM-SC  | S           | 0.25                       |                              | 20                    | 106                     |      |      | 1682              | 4           | 0              | 76   | 24    | 50        | 0                               | 0      | 8      | 38      |
| 7C        | 41.3               | 42.5 | Gray Silty Sand                    | SM     | VS          | 0.0                        |                              | 21                    | 106                     |      |      | 1683              | 1           | 0              | 76   | 24    | 50        | 0                               | 0      | 3      | 78      |
| 8C        | 45.8               | 47.0 | Gray Sandy Clay w/abundant nodules | CL     | VST         | 3.75                       |                              | 17                    | 116                     | 35   |      | 1684              |             | 0              | 72   | 28    | 50        | 0                               | 0      | 0      | 11      |
| 9C        | 50.8               | 52.0 |                                    |        | VST         | 3.75                       |                              | 15                    | 120                     | 24   |      | 1685              | 5           | 2              | 18   | 80    | 50        | 1                               | 1      | 6      | 9       |
| 10C       | 56.4               | 57.5 | Gray Silty Sand                    | SM     | VST         | 3.00                       |                              | 14                    | 120                     |      |      | 1686              | 1           | 0              | 62   | 38    | 50        | 0                               | 0      | 0      | 31      |
| 11C       | 59.8               | 61.0 | Brown Silty Sand                   | M      | 0.50        |                            |                              | 18                    | 112                     |      |      | 1687              | 1           | 0              | 66   | 34    | 50        | 0                               | 0      | 0      | 33      |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |
|           |                    |      |                                    |        |             |                            |                              |                       |                         |      |      |                   |             |                |      |       |           |                                 |        |        |         |

KEY: CONSISTENCY — COHESIVE SOILS      CONSISTENCY — COHESIONLESS SOILS

VS S M ST VST H VL L H D VD

Very Soft Soft Medium Stiff Very Stiff Hard Very Loose Loose Medium Dense Very Dense

Bottomed at 61.0'      Water at +5.0

(1) Tons/Sq.Ft. Unconfined Compressive Strength

(2) Split Barrel Sampler

(3) Acc. Wt. Rtd ÷ Init. Wt. x 100 = % Rtd.

Tide Reading +1.5

BORING NO. 72-102

Sheet 1 of sheets 1