PNEUMATIC HAMMER CORE **CORE # G-29**

PROJECT: Galveston Island Beach Replenishment

STATE PLANNING COORDINATES
3352063.61
554283.03

LAT./LONG. COORDINATES
29°17.421° N
094°45.435° W

WATER DEPTH
22'8"

DATE
5/17/94

START TIME
0858

END TIME
0917

CORE DIAMETER
3"

LENGTH OF BARREL
20 '

PENETRATION DEPTH
14'7"

LENGTH RECOVERED
13'7"

SUPPORT VESSEL:
R/V Lonestar

POSITIONING:
Trimble Differential GPS

ANALYSIS BY:
M. Hamilton
Rice University

ANALYSIS METHODS:
Visual Logging
Auto. Settling Tube

| DEPTH CM. | DEPTH IN. | CONTACT | LITHOLOGY | DESCRIPTION | GRAIN SIZE (PHI) MEAN | %SAND | %MUD |
|---|---|---|---|---|---|---|---|
| | | | | Heavily bioturbated clay and sand=muddy sand 5YR6/1 | 3.07 | 91.95 | 7.92 |
| 32 | 12 | 13 | | Clay with lams at base 5Y4/1 | | | |
| | | 20 | | | | | |
| 64 | 24 | | | Fine to very fine sand 5Y5/1 | 3.14 | 91.14 | 8.86 |
| | | 28 | | | | | |
| 96 | 36 | | | Interlaminated clay and clayey sand S:C=20:80 | | | |
| | | 40 | | | | | |
| 128 | 48 | | | Muddy sand with discrete interbeds of clayey sand 5Y4/1 | | | |
| | | 56 | | | | | |
| 160 | 60 | | | | 3.18 | 85.25 | 14.75 |
| | | | | Fine sand with mud-filled burrows 5YR7/1 | | | |
| 192 | 72 | | | | | | |
| 224 | 84 | | | | | | |
| | | 93 | | | | | |
| 256 | 96 | | | | | | |
| | | | | Interbedded clay and muddy sand S:C=40:60 | | | |
| 288 | 108 | | | | | | |
| | 120 | | | | | | |
| 320 | | 127 | | Fine to very fine sand with muddy lams at top 5YR6/1 | | | |
| | 132 | 135 | | | 2.63 | 95.75 | 4.04 |
| 352 | | | | | | | |
| | 144 | | | Highly laminated clay and muddy sand 5Y3/1 | | | |
| 384 | | | | | | | |
| | 156 | | | | | | |
| 416 | | 161 | | | | | |
| | 168 | | | | | | |
| 448 | 180 | | | | | | |
| 480 | 192 | | | | | | |

SAND | MUDDY SAND | MUDDY SAND/CLAY INTERLAM. | MUDDY SAND/CLAY INTERBEDS | CLAYEY SAND | SANDY CLAY

SHELLY SAND | SHELL HASH | CLAY | MUD

| File | 8 | t70029.dat | Date | 06-27-1994 |
|---|---|---|---|---|
| Sample name | g-29-6" | | | |
| Data collected on | 06-25-1994 | | | |
| Total settling time (min) | 10.08333 | | | |
| Settling distance (cm) | 140 | | | |
| Water temperature (degrees C) | 21 | | | |

| | CUMULATIVE WEIGHT % | | INDIVIDUAL WEIGHT % | | |
|---|---|---|---|---|---|
| PHI | TIME(SEC) | % VALUE | RANGE | | % VALUE |
| -0.9982994 | 5.160657 | 13.9 | | | |
| -0.8747208 | 5.517602 | 13.9 | -1 | -0.875 | 0 |
| -0.748297 | 5.916911 | 13.9 | -0.875 | -0.75 | 0 |
| -0.624169 | 6.346457 | 13.9 | -0.75 | -0.625 | 0 |
| -0.4998313 | 6.818354 | 13.9 | -0.625 | -0.5 | 0 |
| -0.3737053 | 7.344702 | 13.9 | -0.5 | -0.375 | 0 |
| -0.2499688 | 7.913401 | 13.9 | -0.375 | -0.25 | 0 |
| -0.1246694 | 8.548652 | 13.9 | -0.25 | -0.125 | 0 |
| 5.06E-04 | 9.250454 | 13.9 | -0.125 | 0 | 0 |
| 0.1251883 | 10.02486 | 13.9 | 0 | 0.125 | 0 |
| 0.2498167 | 10.89001 | 13.9 | 0.125 | 0.25 | 0 |
| 0.3752411 | 11.84591 | 14.5 | 0.25 | 0.375 | 0.6000004 |
| 0.5004252 | 12.91676 | 15.3 | 0.375 | 0.5 | 0.8000002 |
| 0.6250972 | 14.1086 | 15.3 | 0.5 | 0.625 | 0 |
| 0.750494 | 15.45171 | 15.3 | 0.625 | 0.75 | 0 |
| 0.8752092 | 16.9521 | 15.3 | 0.75 | 0.875 | 0 |
| 1.000263 | 18.64611 | 15.3 | 0.875 | 1 | 0 |
| 1.125242 | 20.5578 | 15.3 | 1 | 1.125 | 0 |
| 1.250291 | 22.72374 | 15.3 | 1.125 | 1.25 | 0 |
| 1.375171 | 25.18004 | 15.3 | 1.25 | 1.375 | 0 |
| 1.500206 | 27.98123 | 15.3 | 1.375 | 1.5 | 0 |
| 1.625015 | 31.1756 | 15.3 | 1.5 | 1.625 | 0 |
| 1.750015 | 34.84189 | 15.3 | 1.625 | 1.75 | 0 |
| 1.875066 | 39.05887 | 15.3 | 1.75 | 1.875 | 0 |
| 2.000126 | 43.92308 | 15.3 | 1.875 | 2 | 0 |
| 2.125031 | 49.54357 | 15.3 | 2 | 2.125 | 0 |
| 2.250048 | 56.07149 | 15.3 | 2.125 | 2.25 | 0 |
| 2.375074 | 63.67023 | 15.3 | 2.25 | 2.375 | 0 |
| 2.500018 | 72.53357 | 15.3 | 2.375 | 2.5 | 0 |
| 2.625001 | 82.90919 | 15.3 | 2.5 | 2.625 | 0 |
| 2.750043 | 95.0878 | 15.3 | 2.625 | 2.75 | 0 |
| 2.875031 | 109.4019 | 19.4 | 2.75 | 2.875 | 4.099999 |
| 3.000041 | 126.2693 | 44.4 | 2.875 | 3 | 25 |
| 3.12503 | 146.1739 | 63 | 3 | 3.125 | 18.6 |
| 3.250026 | 169.7028 | 77.1 | 3.125 | 3.25 | 14.1 |
| 3.375 | 197.5449 | 92.3 | 3.25 | 3.375 | 15.2 |
| 3.50001 | 230.5413 | 93.1 | 3.375 | 3.5 | 0.7999954 |
| 3.625012 | 269.6671 | 98.2 | 3.5 | 3.625 | 5.099998 |
| 3.750011 | 316.0946 | 98.2 | 3.625 | 3.75 | 0 |
| 3.875009 | 371.2162 | 98.2 | 3.75 | 3.875 | 0 |
| 4.000007 | 436.6895 | 98.2 | 3.875 | 4 | 0 |
| 4.125002 | 514.4802 | 98.2 | 4 | 4.125 | 0 |

## SEDIDAT STATISTICS

### GROUPED MOMENT MEASURES (McBride, 1971)

| | .125 CHI | .125 PHI |
|---|---|---|
| Mean | 6.565894 | 3.06858 |
| Standard deviation | 0.6573624 | 0.3964761 |
| Skewness | -4.002003 | -5.016739 |
| Kurtosis | 23.47145 | 35.21523 |

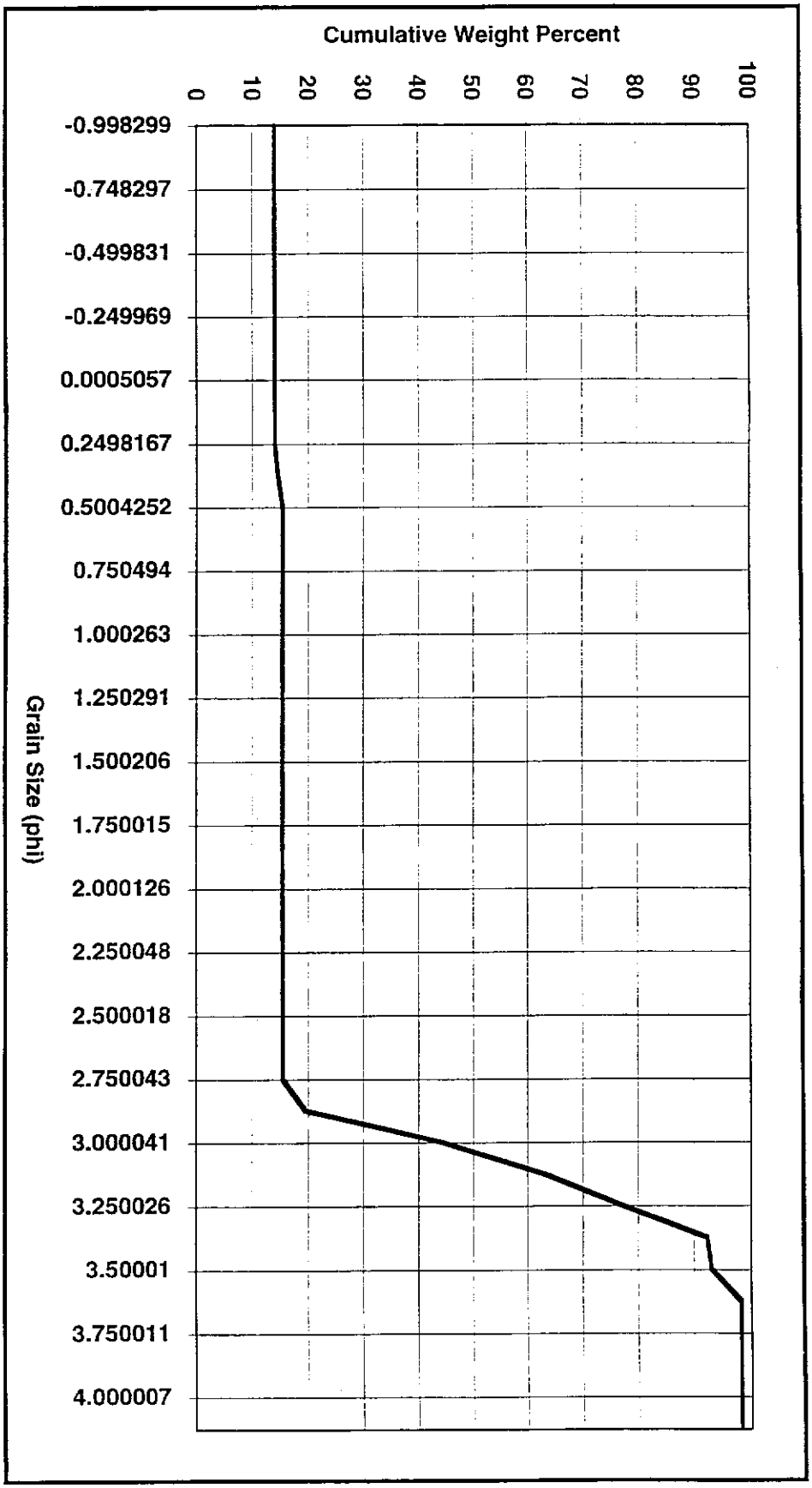
### GRAPHIC MEASURES (Folk and Ward, 1957)

| | .125 CHI | .125 PHI |
|---|---|---|
| Mean | 6.600213 | 3.058856 |
| Standard deviation | 1.707113 | 2.031122 |
| Skewness | -0.4012256 | -0.4814676 |
| Kurtosis | 8.943184 | 19.2863 |

MODES

| Number | Velocity | CHI | PHI | Freq. % |
|---|---|---|---|---|
| 1 | 0.9039256 | 6.78958 | 3.17376 | 4.166668 |
| 2 | 1.394006 | 6.164619 | 2.799102 | 3.472222 |
| 3 | 1.139926 | 6.454916 | 2.976066 | 3.472221 |
| 4 | 1.224365 | 6.351822 | 2.913847 | 2.777788 |
| 5 | 0.7346189 | 7.088788 | 3.345642 | 2.777786 |

| PARAMETERS USED | | | | |
|---|---|---|---|---|
| Number of data points | 1000 | | | |
| Gibbs eq. constants | 0.055804 | 0.003114 | 4.5 | 8.71E-03 |
| Dynamic viscosity (poises) | 0.01 | | | |
| Acceleration of gravity (cm/s) | 979.21 | | | |
| Fluid density (g/ml) | 0.998 | | | |
| Particle density (g/cm3) | 2.65 | | | |
| Size conversion using Komar FORAM correction, RD | 0.9859 | | | |


Cumulative Weight Percent
0
10
20
30
40
50
60
70
80
90
100
Grain Size (phi)
-0.998299
-0.748297
-0.499831
-0.249969
0.0005057
0.2498167
0.5004252
0.750494
1.000263
1.250291
1.500206
1.750015
2.000126
2.250048
2.500018
2.750043
3.000041
3.250026
3.50001
3.750011
4.000007

| File | a | t71029.dat | Date | 06-27-1994 |
|---|---|---|---|---|
| Sample name | g-29-2' | | | |
| Data collected on | 06-25-1994 | | | |
| Total settling time (min) | 10.08333 | | | |
| Settling distance (cm) | 140 | | | |
| Water temperature (degrees C) | 21 | | | |

| | CUMULATIVE WEIGHT % | | INDIVIDUAL WEIGHT % | | |
|---|---|---|---|---|---|
| PHI | TIME(SEC) | % VALUE | RANGE | | % VALUE |
| -0.9982994 | 5.160657 | 7.7 | | | |
| -0.8747208 | 5.517602 | 7.7 | -1 | -0.875 | 0 |
| -0.748297 | 5.916911 | 7.7 | -0.875 | -0.75 | 0 |
| -0.624169 | 6.346457 | 7.7 | -0.75 | -0.625 | 0 |
| -0.4998313 | 6.818354 | 7.7 | -0.625 | -0.5 | 0 |
| -0.3737053 | 7.344702 | 7.7 | -0.5 | -0.375 | 0 |
| -0.2499688 | 7.913401 | 7.7 | -0.375 | -0.25 | 0 |
| -0.1246694 | 8.548652 | 7.7 | -0.25 | -0.125 | 0 |
| 5.06E-04 | 9.250454 | 7.7 | -0.125 | 0 | 0 |
| 0.1251883 | 10.02486 | 7.7 | 0 | 0.125 | 0 |
| 0.2498167 | 10.89001 | 7.7 | 0.125 | 0.25 | 0 |
| 0.3752411 | 11.84591 | 7.7 | 0.25 | 0.375 | 0 |
| 0.5004252 | 12.91676 | 7.7 | 0.375 | 0.5 | 0 |
| 0.6250972 | 14.1086 | 7.7 | 0.5 | 0.625 | 0 |
| 0.750494 | 15.45171 | 7.7 | 0.625 | 0.75 | 0 |
| 0.8752092 | 16.9521 | 7.7 | 0.75 | 0.875 | 0 |
| 1.000263 | 18.64611 | 7.7 | 0.875 | 1 | 0 |
| 1.125242 | 20.5578 | 7.7 | 1 | 1.125 | 0 |
| 1.250291 | 22.72374 | 7.7 | 1.125 | 1.25 | 0 |
| 1.375171 | 25.18004 | 7.7 | 1.25 | 1.375 | 0 |
| 1.500206 | 27.98123 | 7.7 | 1.375 | 1.5 | 0 |
| 1.625015 | 31.1756 | 7.7 | 1.5 | 1.625 | 0 |
| 1.750015 | 34.84189 | 7.7 | 1.625 | 1.75 | 0 |
| 1.875066 | 39.05887 | 7.7 | 1.75 | 1.875 | 0 |
| 2.000126 | 43.92308 | 7.7 | 1.875 | 2 | 0 |
| 2.125031 | 49.54357 | 7.7 | 2 | 2.125 | 0 |
| 2.250048 | 56.07149 | 7.7 | 2.125 | 2.25 | 0 |
| 2.375074 | 63.67023 | 7.7 | 2.25 | 2.375 | 0 |
| 2.500018 | 72.53357 | 7.7 | 2.375 | 2.5 | 0 |
| 2.625001 | 82.90919 | 7.7 | 2.5 | 2.625 | 0 |
| 2.750043 | 95.0878 | 7.7 | 2.625 | 2.75 | 0 |
| 2.875031 | 109.4019 | 10.8 | 2.75 | 2.875 | 3.1 |
| 3.000041 | 126.2693 | 28.1 | 2.875 | 3 | 17.3 |
| 3.12503 | 146.1739 | 56 | 3 | 3.125 | 27.9 |
| 3.250026 | 169.7028 | 76.9 | 3.125 | 3.25 | 20.9 |
| 3.375 | 197.5449 | 84.6 | 3.25 | 3.375 | 7.699997 |
| 3.50001 | 230.5413 | 90.8 | 3.375 | 3.5 | 6.200005 |
| 3.625012 | 269.6671 | 93.8 | 3.5 | 3.625 | 3 |
| 3.750011 | 316.0946 | 93.8 | 3.625 | 3.75 | 0 |
| 3.875009 | 371.2162 | 93.8 | 3.75 | 3.875 | 0 |
| 4.000007 | 436.6895 | 95.4 | 3.875 | 4 | 1.599998 |
| 4.125002 | 514.4802 | 95.4 | 4 | 4.125 | 0 |

## SEDIDAT STATISTICS

### GROUPED MOMENT MEASURES (McBride, 1971)

| | .125 CHI | .125 PHI |
|---|---|---|
| Mean | 6.734864 | 3.140322 |
| Standard deviation | 0.3574665 | 0.2022561 |
| Skewness | 1.20203 | 1.342141 |
| Kurtosis | 5.603841 | 5.872843 |

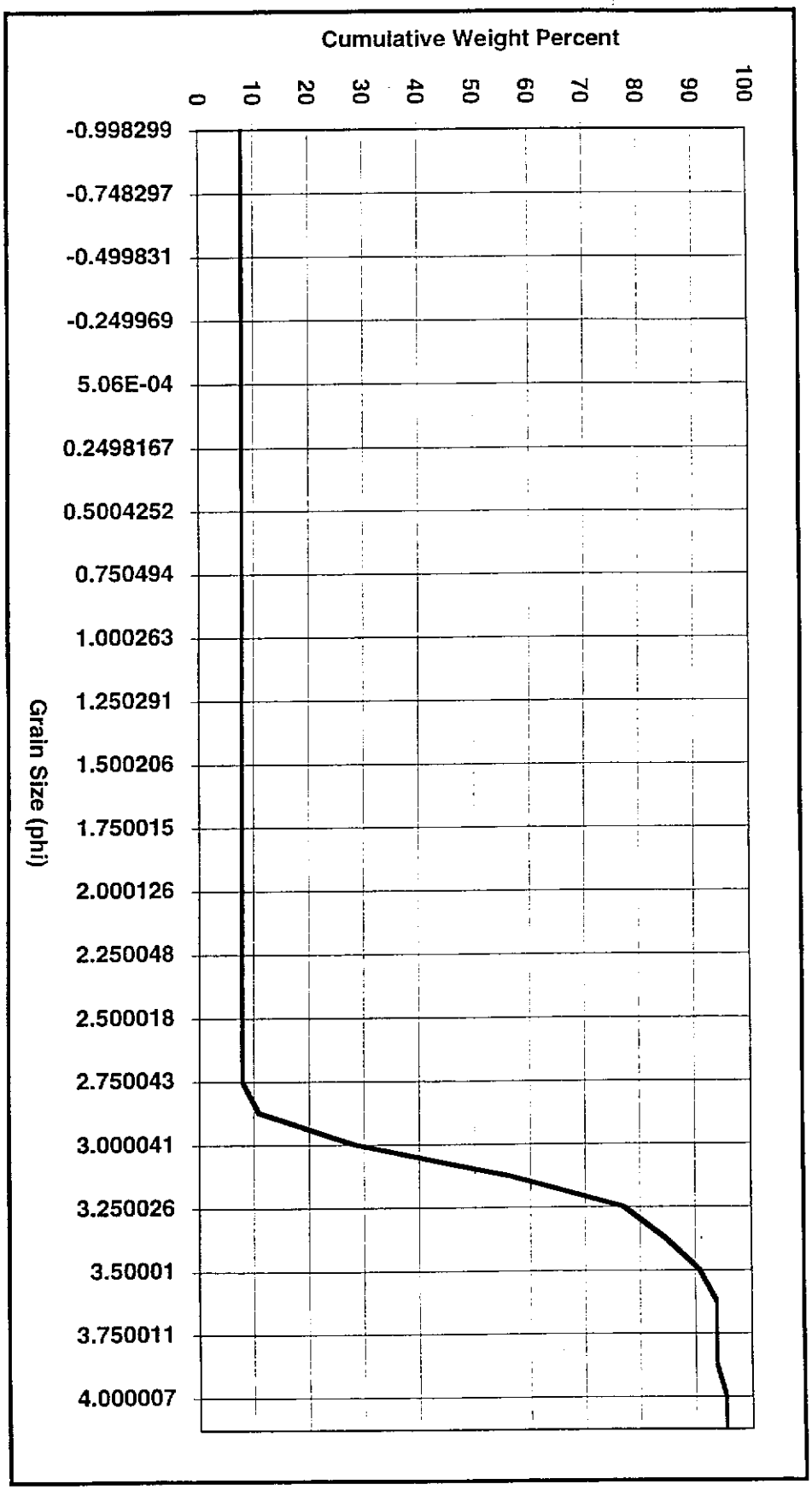
### GRAPHIC MEASURES (Folk and Ward, 1957)

| | .125 CHI | .125 PHI |
|---|---|---|
| Mean | 6.665603 | 3.099377 |
| Standard deviation | 1.542702 | 1.752133 |
| Skewness | -3.769492 | -8.326267 |
| Kurtosis | 8.964773 | 18.27814 |

MODES

| Number | Velocity | CHI | PHI | Freq. % |
|---|---|---|---|---|
| 1 | 1.23746 | 6.336475 | 2.904527 | 2.307702 |
| 2 | 0.8969184 | 6.800807 | 3.160287 | 2.307686 |
| 3 | 0.2531783 | 8.62563 | 4.179687 | 2.307686 |
| 4 | 0.2659827 | 8.554452 | 4.142311 | 2.307686 |
| 5 | 0.3576584 | 8.127202 | 3.915956 | 2.307686 |

| PARAMETERS USED | | | | |
|---|---|---|---|---|
| Number of data points | 1000 | | | |
| Gibbs eq. constants | 0.055804 | 0.003114 | 4.5 | 8.71E-03 |
| Dynamic viscosity (poises) | 0.01 | | | |
| Acceleration of gravity (cm/s) | 979.21 | | | |
| Fluid density (g/ml) | 0.998 | | | |
| Particle density (g/cm3) | 2.65 | | | |
| Size conversion using Komar FORAM correction, RD | 0.9259 | | | |


Cumulative Weight Percent
0
10
20
30
40
50
60
70
80
90
100
Grain Size (phi)
-0.998299
-0.748297
-0.499831
-0.249969
5.06E-04
0.2498167
0.5004252
0.750494
1.000263
1.250291
1.500206
1.750015
2.000126
2.250048
2.500018
2.750043
3.000041
3.250026
3.50001
3.750011
4.000007

| File | a | t72029.dat | Date | 06-27-1994 |
|---|---|---|---|---|
| Sample name | g-29-5' | | | |
| Data collected on | 06-25-1994 | | | |
| Total settling time (min) | 10.08333 | | | |
| Settling distance (cm) | 140 | | | |
| Water temperature (degrees C) | 21 | | | |

| | CUMULATIVE WEIGHT % | | INDIVIDUAL WEIGHT % | | |
|---|---|---|---|---|---|
| PHI | TIME(SEC) | % VALUE | RANGE | | % VALUE |
| -0.9982994 | 5.160657 | 21.4 | | | |
| -0.8747208 | 5.517602 | 21.4 | -1 | -0.875 | 0 |
| -0.748297 | 5.916911 | 21.4 | -0.875 | -0.75 | 0 |
| -0.624169 | 6.346457 | 23.2 | -0.75 | -0.625 | 1.800001 |
| -0.4998313 | 6.818354 | 23.2 | -0.625 | -0.5 | 0 |
| -0.3737053 | 7.344702 | 23.2 | -0.5 | -0.375 | 0 |
| -0.2499688 | 7.913401 | 23.2 | -0.375 | -0.25 | 0 |
| -0.1246694 | 8.548652 | 23.2 | -0.25 | -0.125 | 0 |
| 5.06E-04 | 9.250454 | 23.2 | -0.125 | 0 | 0 |
| 0.1251883 | 10.02486 | 23.2 | 0 | 0.125 | 0 |
| 0.2498167 | 10.89001 | 23.2 | 0.125 | 0.25 | 0 |
| 0.3752411 | 11.84591 | 23.2 | 0.25 | 0.375 | 0 |
| 0.5004252 | 12.91676 | 23.2 | 0.375 | 0.5 | 0 |
| 0.6250972 | 14.1086 | 23.2 | 0.5 | 0.625 | 0 |
| 0.750494 | 15.45171 | 23.2 | 0.625 | 0.75 | 0 |
| 0.8752092 | 16.9521 | 23.2 | 0.75 | 0.875 | 0 |
| 1.000263 | 18.64611 | 23.2 | 0.875 | 1 | 0 |
| 1.125242 | 20.5578 | 23.2 | 1 | 1.125 | 0 |
| 1.250291 | 22.72374 | 23.2 | 1.125 | 1.25 | 0 |
| 1.375171 | 25.18004 | 23.2 | 1.25 | 1.375 | 0 |
| 1.500206 | 27.98123 | 23.2 | 1.375 | 1.5 | 0 |
| 1.625015 | 31.1756 | 23.2 | 1.5 | 1.625 | 0 |
| 1.750015 | 34.84189 | 23.2 | 1.625 | 1.75 | 0 |
| 1.875066 | 39.05887 | 23.2 | 1.75 | 1.875 | 0 |
| 2.000126 | 43.92308 | 23.2 | 1.875 | 2 | 0 |
| 2.125031 | 49.54357 | 23.2 | 2 | 2.125 | 0 |
| 2.250048 | 56.07149 | 23.2 | 2.125 | 2.25 | 0 |
| 2.375074 | 63.67023 | 23.2 | 2.25 | 2.375 | 0 |
| 2.500018 | 72.53357 | 23.2 | 2.375 | 2.5 | 0 |
| 2.625001 | 82.90919 | 23.2 | 2.5 | 2.625 | 0 |
| 2.750043 | 95.0878 | 23.2 | 2.625 | 2.75 | 0 |
| 2.875031 | 109.4019 | 23.2 | 2.75 | 2.875 | 0 |
| 3.000041 | 126.2693 | 23.2 | 2.875 | 3 | 0 |
| 3.12503 | 146.1739 | 46.4 | 3 | 3.125 | 23.2 |
| 3.250026 | 169.7028 | 50 | 3.125 | 3.25 | 3.599998 |
| 3.375 | 197.5449 | 64.3 | 3.25 | 3.375 | 14.3 |
| 3.50001 | 230.5413 | 78.6 | 3.375 | 3.5 | 14.3 |
| 3.625012 | 269.6671 | 78.6 | 3.5 | 3.625 | 0 |
| 3.750011 | 316.0946 | 78.6 | 3.625 | 3.75 | 0 |
| 3.875009 | 371.2162 | 78.6 | 3.75 | 3.875 | 0 |
| 4.000007 | 436.6895 | 78.6 | 3.875 | 4 | 0 |
| 4.125002 | 514.4802 | 83.5 | 4 | 4.125 | 4.900002 |

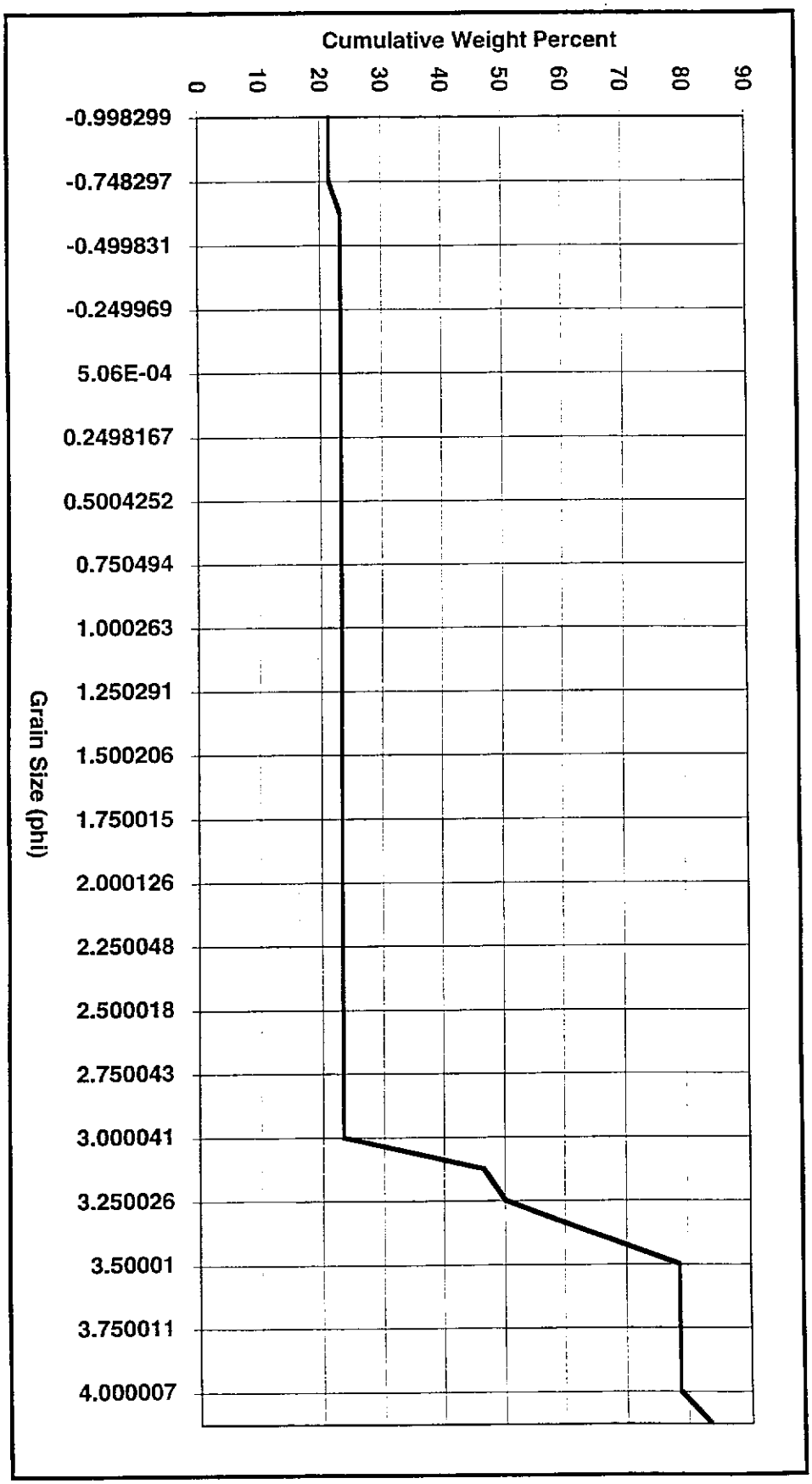
## SEDIDAT STATISTICS

| GROUPED MOMENT MEASURES (McBride, 1971) | | |
|---|---|---|
| | .125 CHI | .125 PHI |
| Mean | 5.572272 | 3.183877 |
| Standard deviation | 2.615687 | 0.7207361 |
| Skewness | -0.9622017 | -4.339575 |
| Kurtosis | 2.109929 | 24.30729 |

| GRAPHIC MEASURES (Folk and Ward, 1957) | | |
|---|---|---|
| | .125 CHI | .125 PHI |
| Mean | 5.377596 | 1.862257 |
| Standard deviation | 2.598791 | 2.142968 |
| Skewness | -0.6368126 | -0.7771773 |
| Kurtosis | 0.5926878 | 0.6177387 |

| MODES | | | | |
|---|---|---|---|---|
| Number | Velocity | CHI | PHI | Freq. % |
| 1 | 0.2568313 | 8.604963 | 4.168844 | 7.142849 |
| 2 | 33.05785 | 1.596935 | -1.378881 | 7.142847 |
| 3 | 0.2430724 | 9.684398 | 4.210482 | 5.357162 |
| 4 | 1.230877 | 6.344169 | 2.909201 | 5.357162 |
| 5 | 0.9763922 | 6.678323 | 3.108724 | 5.357161 |

| PARAMETERS USED | | | | |
|---|---|---|---|---|
| Number of data points | 1000 | | | |
| Gibbs eq. constants | 0.055804 | 0.003114 | 4.5 | 8.71E-03 |
| Dynamic viscosity (poises) | 0.01 | | | |
| Acceleration of gravity (cm/s) | 979.21 | | | |
| Fluid density (g/ml) | 0.998 | | | |
| Particle density (g/cm3) | 2.65 | | | |
| Size conversion using Komar FORAM correction, RD | 0.9859 | | | |


Cumulative Weight Percent
0
10
20
30
40
50
60
70
80
90
Grain Size (phi)
-0.998299
-0.748297
-0.499831
-0.249969
5.06E-04
0.2498167
0.5004252
0.750494
1.000263
1.250291
1.500206
1.750015
2.000126
2.250048
2.500018
2.750043
3.000041
3.250026
3.50001
3.750011
4.000007

72029

| File | a | t73029.dat | Date | 06-27-1994 |
|---|---|---|---|---|
| Sample name | g-29-11'3" | | | |
| Data collected on | 06-25-1994 | | | |
| Total settling time (min) | 10.1 | | | |
| Settling distance (cm) | 140 | | | |
| Water temperature (degrees C) | 21 | | | |

| | CUMULATIVE WEIGHT % | | INDIVIDUAL WEIGHT % | | |
|---|---|---|---|---|---|
| PHI | TIME(SEC) | % VALUE | RANGE | | % VALUE |
| -0.9995988 | 5.157067 | 20 | | | |
| -0.873707 | 5.520661 | 20 | -1 | -0.875 | 0 |
| -0.7490051 | 5.914571 | 20 | -0.875 | -0.75 | 0 |
| -0.6246192 | 6.344827 | 20 | -0.75 | -0.625 | 0 |
| -0.4985216 | 6.823564 | 23.7 | -0.625 | -0.5 | 3.700001 |
| -0.3737008 | 7.344722 | 25 | -0.5 | -0.375 | 1.299999 |
| -0.2497699 | 7.914361 | 25 | -0.375 | -0.25 | 0 |
| -0.1242921 | 8.550662 | 29.4 | -0.25 | -0.125 | 4.4 |
| 1.53E-05 | 9.247563 | 29.4 | -0.125 | 0 | 0 |
| 0.1258686 | 10.02931 | 29.4 | 0 | 0.125 | 0 |
| 0.2506245 | 10.88983 | 29.4 | 0.125 | 0.25 | 0 |
| 0.375414 | 11.84731 | 29.4 | 0.25 | 0.375 | 0 |
| 0.5001053 | 12.91386 | 30 | 0.375 | 0.5 | 0.6000004 |
| 0.625006 | 14.10768 | 30 | 0.5 | 0.625 | 0 |
| 0.7500741 | 15.44695 | 30 | 0.625 | 0.75 | 0 |
| 0.8750312 | 16.94983 | 30 | 0.75 | 0.875 | 0 |
| 1.000299 | 18.64663 | 30 | 0.875 | 1 | 0 |
| 1.125096 | 20.55543 | 30 | 1 | 1.125 | 0 |
| 1.250028 | 22.71889 | 30 | 1.125 | 1.25 | 0 |
| 1.375133 | 25.17924 | 32.7 | 1.25 | 1.375 | 2.700001 |
| 1.500113 | 27.979 | 32.7 | 1.375 | 1.5 | 0 |
| 1.625126 | 31.17865 | 32.7 | 1.5 | 1.625 | 0 |
| 1.750112 | 34.84495 | 32.7 | 1.625 | 1.75 | 0 |
| 1.875008 | 39.05676 | 32.7 | 1.75 | 1.875 | 0 |
| 2.000123 | 43.92294 | 32.7 | 1.875 | 2 | 0 |
| 2.125095 | 49.54666 | 32.7 | 2 | 2.125 | 0 |
| 2.250079 | 56.07325 | 32.7 | 2.125 | 2.25 | 0 |
| 2.375015 | 63.66637 | 32.7 | 2.25 | 2.375 | 0 |
| 2.5 | 72.53223 | 32.7 | 2.375 | 2.5 | 0 |
| 2.625039 | 82.91265 | 32.7 | 2.5 | 2.625 | 0 |
| 2.750037 | 95.08716 | 32.7 | 2.625 | 2.75 | 0 |
| 2.875024 | 109.401 | 32.7 | 2.75 | 2.875 | 0 |
| 3.000019 | 126.266 | 32.7 | 2.875 | 3 | 0 |
| 3.125026 | 146.1732 | 44 | 3 | 3.125 | 11.3 |
| 3.250004 | 169.6982 | 50 | 3.125 | 3.25 | 6 |
| 3.375024 | 197.5505 | 80 | 3.25 | 3.375 | 30 |
| 3.500008 | 230.5408 | 85 | 3.375 | 3.5 | 5 |
| 3.625005 | 269.6645 | 85 | 3.5 | 3.625 | 0 |
| 3.750015 | 316.096 | 85 | 3.625 | 3.75 | 0 |
| 3.875012 | 371.2178 | 85 | 3.75 | 3.875 | 0 |
| 4.000008 | 436.69 | 85 | 3.875 | 4 | 0 |
| 4.125006 | 514.4825 | 85 | 4 | 4.125 | 0 |

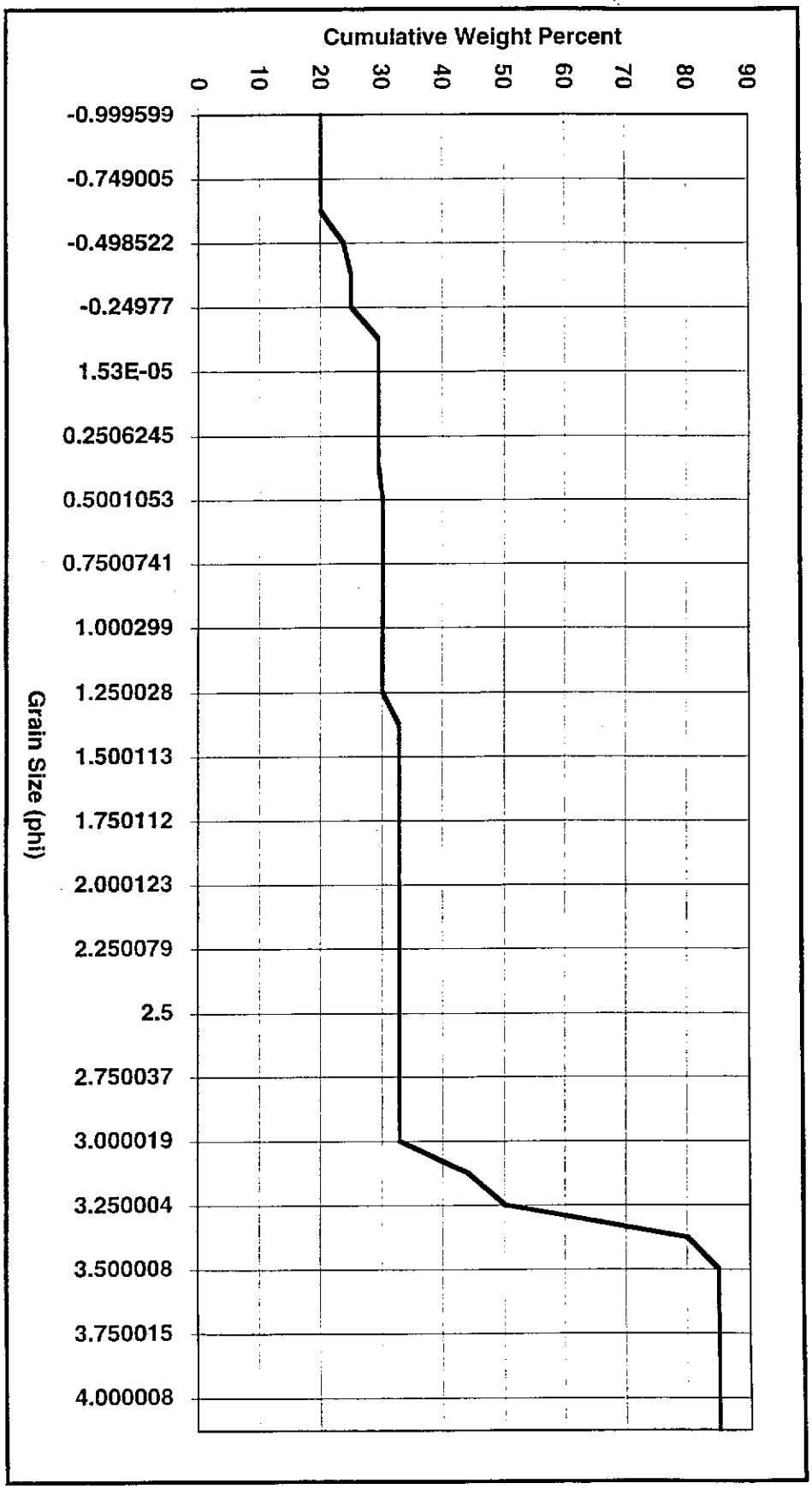
## SEDIDAT STATISTICS

| GROUPED MOMENT MEASURES (McBride, 1971) | .125 CHI | .125 PHI |
|---|---|---|
| Mean | 5.8195 | 2.625 |
| Standard deviation | 2.152777 | 1.322317 |
| Skewness | -1.33136 | -1.683419 |
| Kurtosis | 3.186928 | 4.042031 |

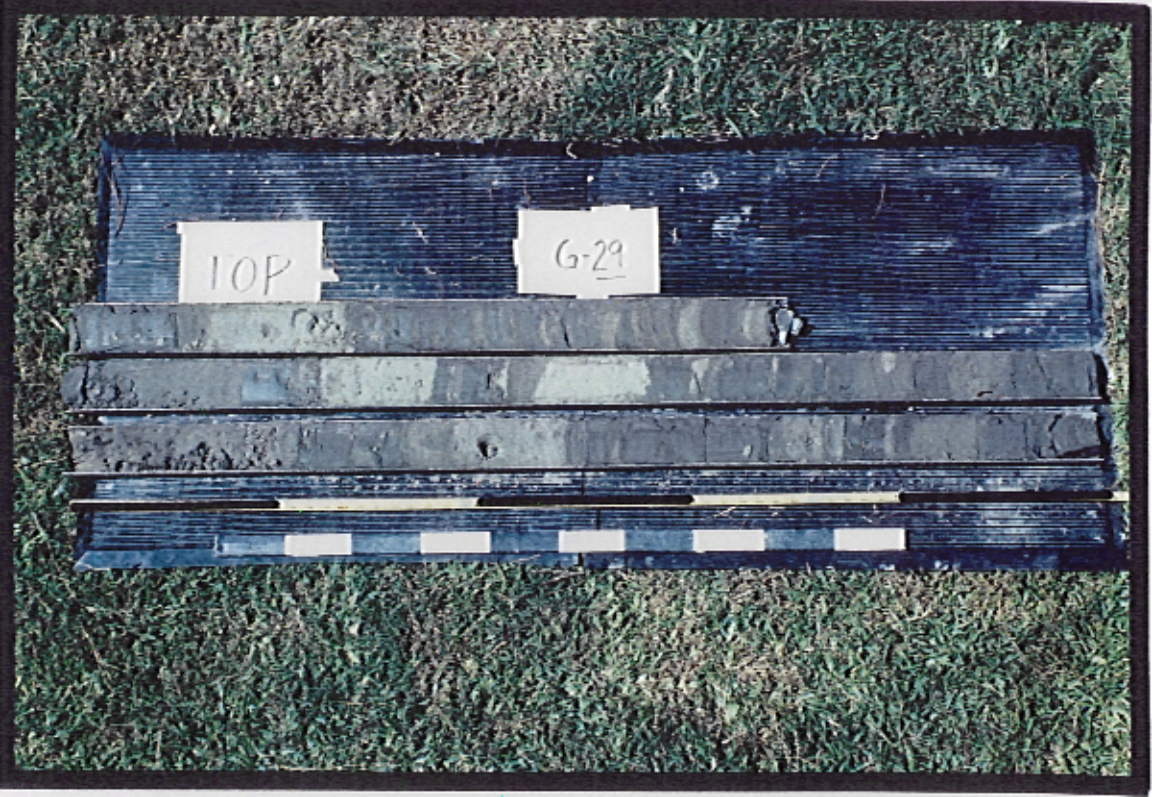
| GRAPHIC MEASURES (Folk and Ward, 1957) | .125 CHI | .125 PHI |
|---|---|---|
| Mean | 4.960603 | 1.476324 |
| Standard deviation | 3.068913 | 3.315908 |
| Skewness | -0.8663987 | -0.9882285 |
| Kurtosis | 0.9662255 | 1.547605 |

| MODES Number | Velocity | CH | PHI | Freq. % |
|---|---|---|---|---|
| 1 | 0.5761175 | 7.439421 | 3.542196 | 7.500031 |
| 2 | 1.017723 | 6.618511 | 3.073486 | 7.500029 |
| 3 | 0.2756839 | 8.502769 | 4.115118 | 7.499981 |
| 4 | 0.5435838 | 7.523282 | 3.588531 | 7.499981 |
| 5 | 0.7476476 | 7.063426 | 3.331231 | 7.499981 |

| PARAMETERS USED | | | | |
|---|---|---|---|---|
| Number of data points | 1000 | | | |
| Gibbs eq. constants | 0.055804 | 0.003114 | 4.5 | 8.71E-03 |
| Dynamic viscosity (poises) | 0.01 | | | |
| Acceleration of gravity (cm/s) | 979.21 | | | |
| Fluid density (g/ml) | 0.998 | | | |
| Particle density (g/cm3) | 2.65 | | | |
| Size conversion using Komar FORAM correction, RD | 0.9859 | | | |


Cumulative Weight Percent
0
10
20
30
40
50
60
70
80
90
Grain Size (phi)
-0.999599
-0.749005
-0.498522
-0.24977
1.53E-05
0.2506245
0.5001053
0.7500741
1.000299
1.250028
1.500113
1.750112
2.000123
2.250079
2.5
2.750037
3.000019
3.250004
3.500008
3.750015
4.000008

73029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