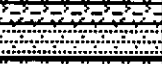
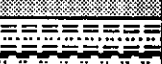
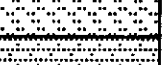
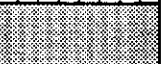
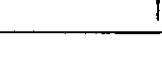
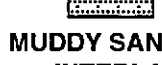


PNEUMATIC HAMMER CORE CORE # G-18

PROJECT: Galveston Island Beach Replenishment

STATE PLANNING COORDINATES 3343868.17 548783.83 LAT/LONG COORDINATES 29°16.563° N 094°47.014° W WATER DEPTH 22'4" DATE 5/16/94 START TIME 0907 END TIME 0909 CORE DIAMETER 3" LENGTH OF BARREL 20' PENETRATION DEPTH 13'6" LENGTH RECOVERED 12'7" SUPPORT VESSEL: R/V Lonestar POSITIONING: Trimble Differential GPS ANALYSIS BY: M. Hamilton Rice University ANALYSIS METHODS: Visual Logging Auto. Settling Tube	DEPTH			LITHOLOGY	DESCRIPTION	GRAIN SIZE (PHI) MEAN	%SAND	%MUD
	CM.	IN.	CONTACT					
	32	12	12		Slightly muddy, very fine sand 5Y6/1	3.02	91.44	8.16
			15		Sandy clay and clayey sand interlams	1.73 3.27	48.28 65.69	51.72 34.31
	64	24	23		Muddy very fine sand 5Y5/1			
			24		Very fine sand 5Y6/1	3.04	94.45	5.19
	96	36	33		Interbedded sandy clay and clayey sand			
			42		Clayey sand 5Y4/1			
	128	48	50		Very fine sand with very thin clayey sand laminae 5Y6/1	2.41	98.38	1.49
	160	60	64		Interbedded sandy clay and clayey sand			
	192	72	76		Very fine sand with laminae of muddy sand 5Y6/1			
		84	81		Very fine sand with laminae of muddy sand 5Y6/1			
	224		84		Muddy sand to very muddy sand 5Y5/1-5Y4/1			
		96	96		Interbedded sandy clay and clayey sand			
	256	108	104		Interbedded sandy clay and clayey sand			
	288		115		Very fine sand 5N5	3.18	97.88	2.12
		120			Interbedded muddy sand and clay; heavy bioturbation			
	320	132	130		Very muddy sand 4N4			
		144	136		Very muddy sand 4N4			
	352		150		Very muddy sand 4N4			
		156			Very muddy sand 4N4			
	416				Very muddy sand 4N4			
		168			Very muddy sand 4N4			
	448	180			Very muddy sand 4N4			
					Very muddy sand 4N4			
	480	192			Very muddy sand 4N4			



SAND



MUDDY SAND



MUDDY SAND/CLAY
INTERLAM.



MUDDY SAND/CLAY
INTERBEDS



CLAYEY
SAND



SANDY
CLAY



SHELLY SAND



SHELL HASH



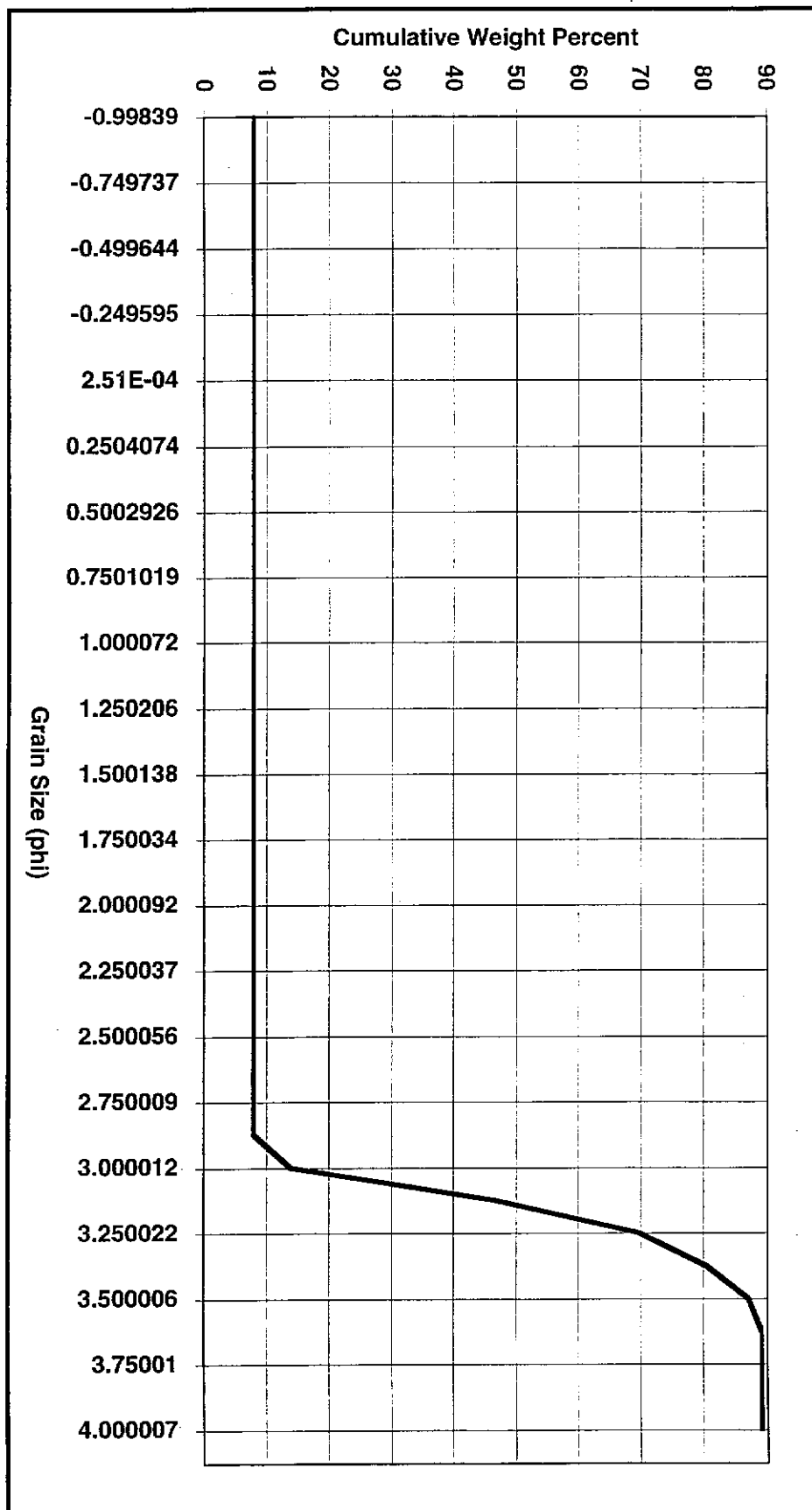
CLAY



MUD

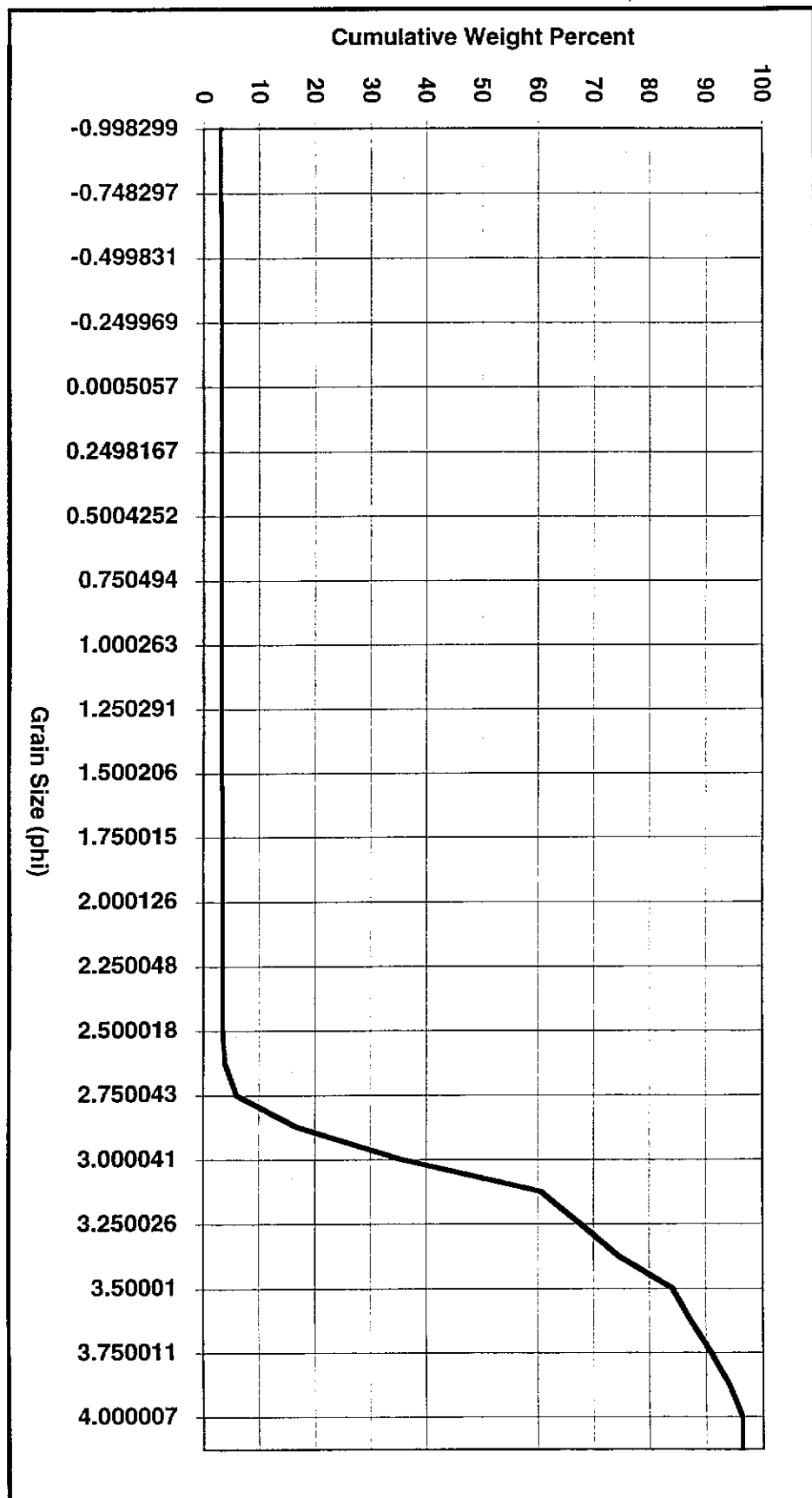
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30018

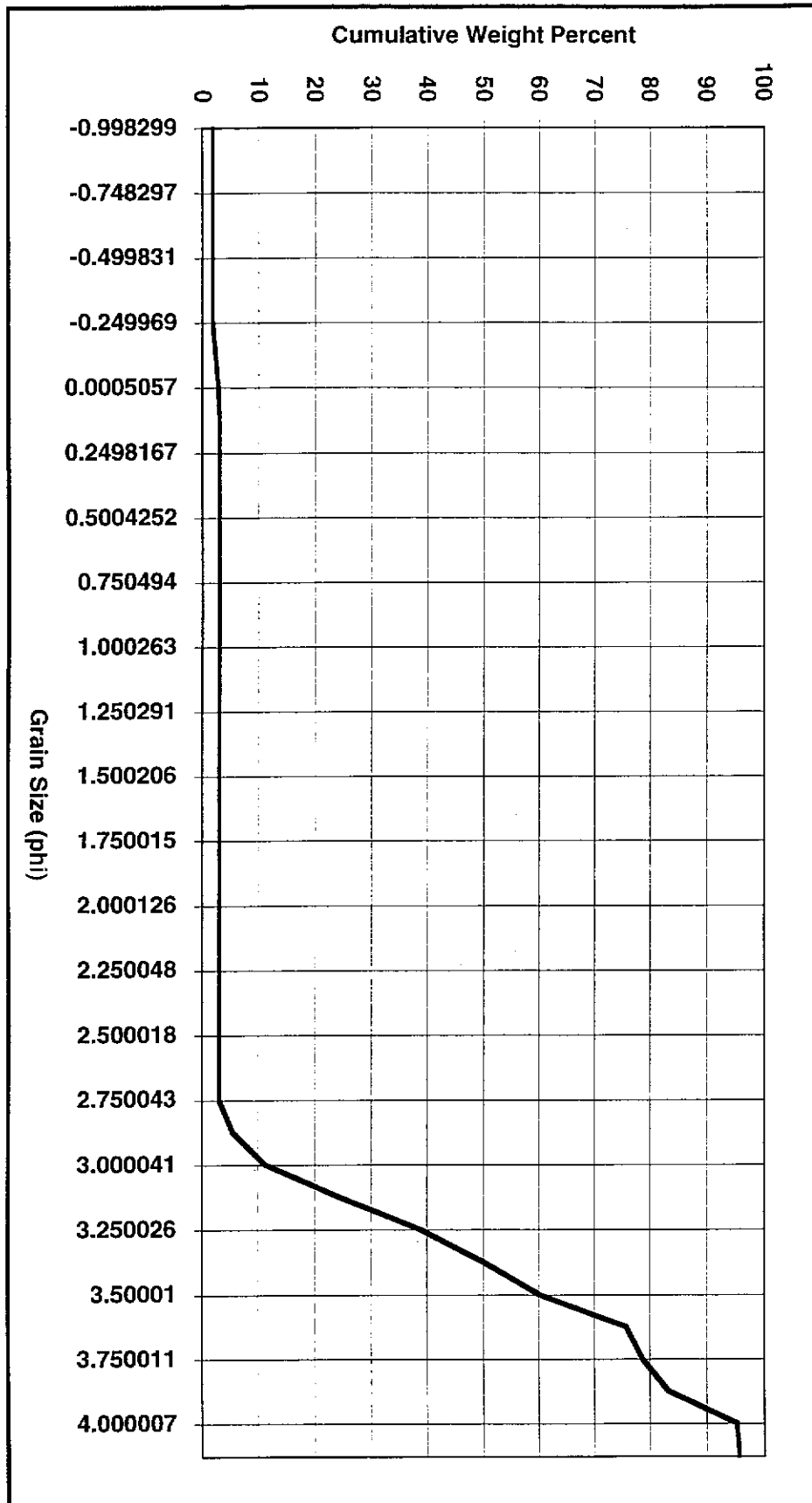


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31018

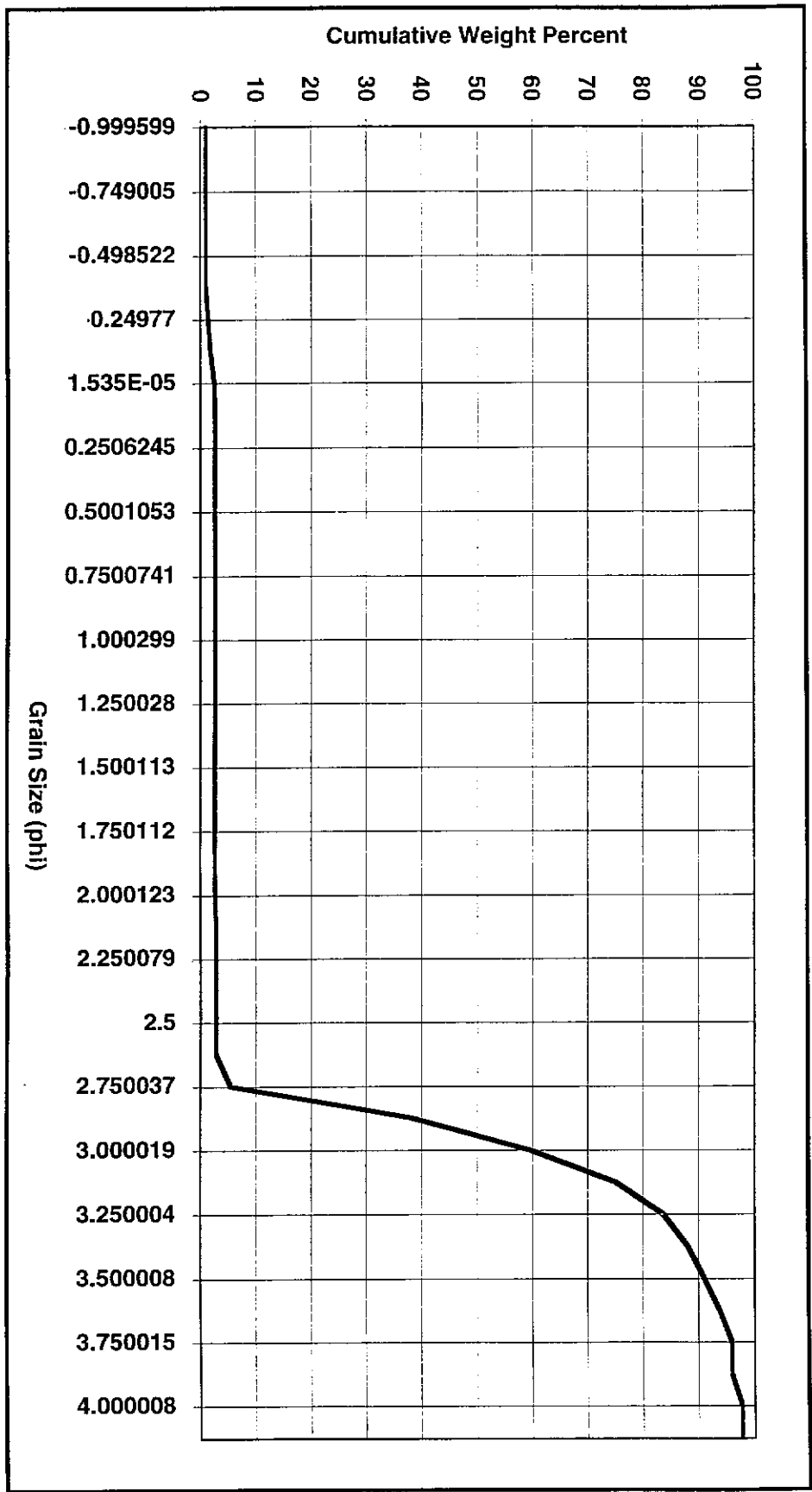


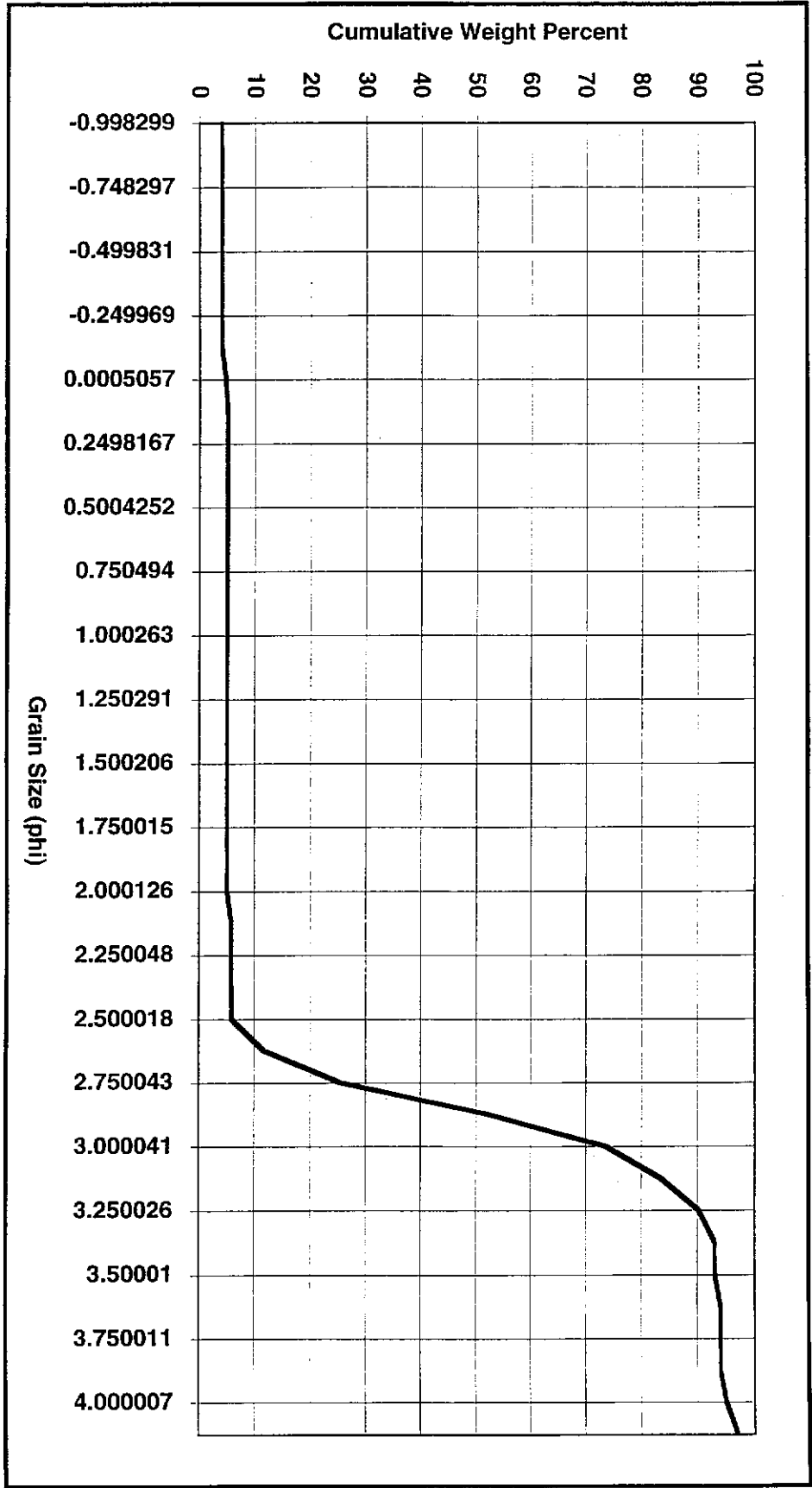
File	a	t32018.dat	Date	06-27-1994
Sample name	g-18-1'3"			
Data collected on	06-24-1994			
Total settling time (min)	10.08333			
Settling distance (cm)	140			
Water temperature (degrees C)	21			
CUMULATIVE WEIGHT %			INDIVIDUAL WEIGHT %	
PHI	TIME(SEC)	% VALUE	RANGE	% VALUE
-0.9982994	5.160657	1.7		
-0.8747208	5.517602	1.7	-1	-0.875
-0.748297	5.916911	1.7	-0.875	-0.75
-0.624169	6.346457	1.7	-0.75	-0.625
-0.4998313	6.818354	1.7	-0.625	-0.5
-0.3737053	7.344702	1.7	-0.5	-0.375
-0.2499688	7.913401	1.7	-0.375	-0.25
-0.1246694	8.548652	2.2	-0.25	-0.125
5.06E-04	9.250454	2.7	-0.125	0
0.1251883	10.02486	2.9	0	0.125
0.2498167	10.89001	2.9	0.125	0.25
0.3752411	11.84591	2.9	0.25	0.375
0.5004252	12.91676	2.9	0.375	0.5
0.6250972	14.1086	2.9	0.5	0.625
0.750494	15.45171	2.9	0.625	0.75
0.8752092	16.9521	2.9	0.75	0.875
1.000263	18.64611	2.9	0.875	1
1.125242	20.5578	2.9	1	1.125
1.250291	22.72374	2.9	1.125	1.25
1.375171	25.18004	2.9	1.25	1.375
1.500206	27.98123	2.9	1.375	1.5
1.625015	31.1756	2.9	1.5	1.625
1.750015	34.84189	2.9	1.625	1.75
1.875066	39.05887	2.9	1.75	1.875
2.000126	43.92308	2.9	1.875	2
2.125031	49.54357	2.9	2	2.125
2.250048	56.07149	2.9	2.125	2.25
2.375074	63.67023	2.9	2.25	2.375
2.500018	72.53357	2.9	2.375	2.5
2.625001	82.90919	2.9	2.5	2.625
2.750043	95.0878	2.9	2.625	2.75
2.875031	109.4019	5.3	2.75	2.875
3.000041	126.2693	11.2	2.875	3
3.12503	146.1739	24.3	3	3.125
3.250026	169.7028	38.7	3.125	3.25
3.375	197.5449	50	3.25	3.375
3.50001	230.5413	60.1	3.375	3.5
3.625012	269.6671	75.7	3.5	3.625
3.750011	316.0946	78.6	3.625	3.75
3.875009	371.2162	83.2	3.75	3.875
4.000007	436.6895	95.3	3.875	4
4.125002	514.4802	95.7	4	4.125
SEDIMENT STATISTICS				
GROUPED MOMENT MEASURES (McBride, 1971)				
	.125 CHI	.125 PHI		
Mean	7.147013	3.353324		
Standard deviation	0.7701551	0.5041504		
Skewness	-2.26788	-3.917569		
Kurtosis	15.55091	28.3882		
GRAPHIC MEASURES (Folk and Ward, 1957)				
	.125 CHI	.125 PHI		
Mean	7.254714	3.432565		
Standard deviation	0.6609951	0.3718072		
Skewness	0.1808262	0.1492584		
Kurtosis	0.9366583	0.9335495		
MODES				
Number	Velocity	CHI	PHI	Freq. %
1	0.7513148	7.056367	3.327216	2.023123
2	0.5307453	7.557765	3.607515	2.023117
3	0.3296367	8.244907	3.978688	1.7341
4	1.014934	6.62247	3.075824	1.445086
5	0.6649567	7.232524	3.426798	1.156075
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			



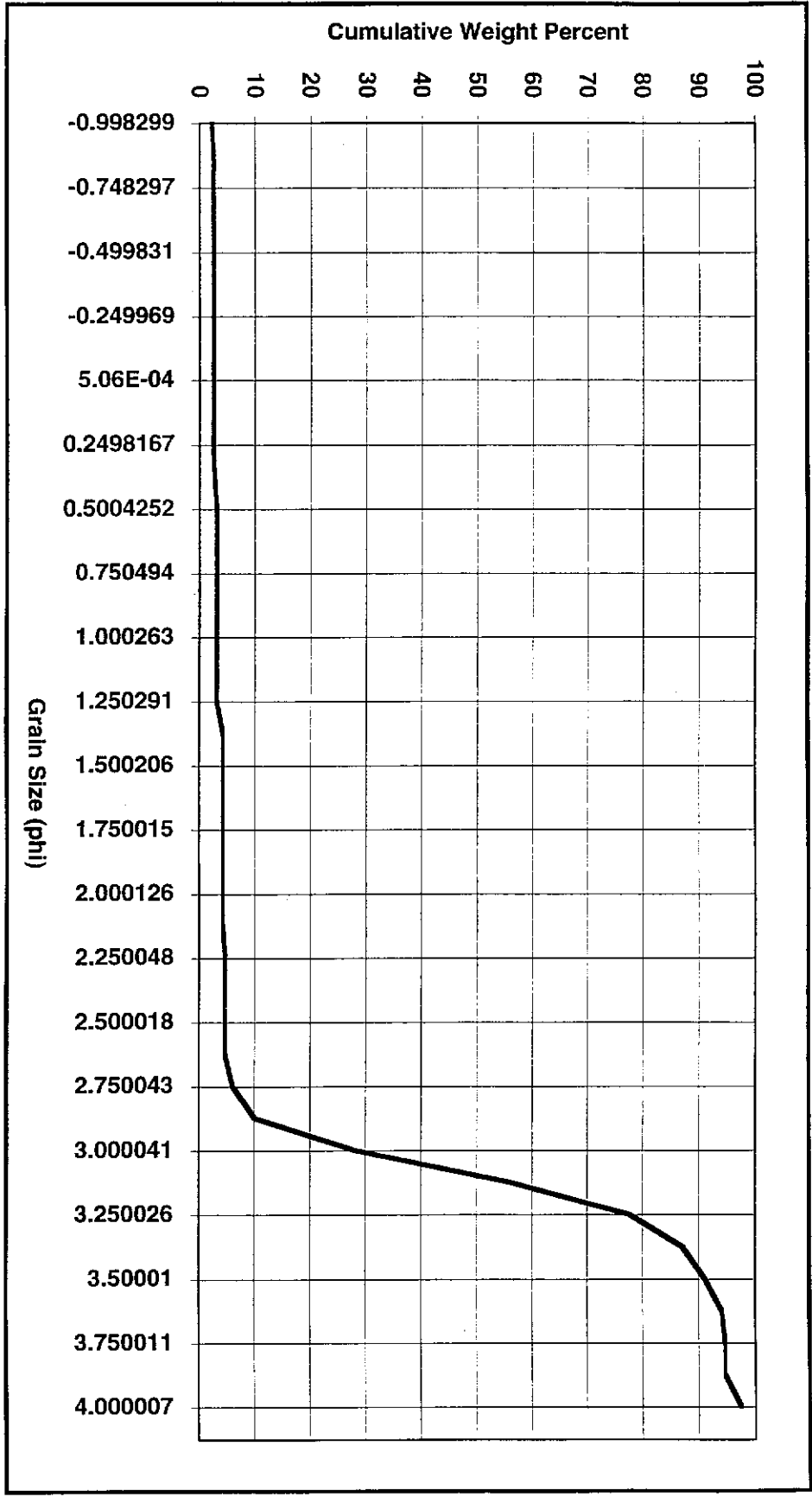
File	a	t33018.dat	Date	06-27-1994
Sample name	g-18-2'4"			
Data collected on	6/15/94			
Total settling time (min)	10.1			
Settling distance (cm)	140			
Water temperature (degrees C)	21			
		CUMULATIVE WEIGHT %	INDIVIDUAL WEIGHT %	
PHI	TIME(SEC)	% VALUE	RANGE	% VALUE
-0.9995988	5.157067	0.9		
-0.873707	5.520661	0.9	-1	-0.875
-0.7490051	5.914571	0.9	-0.875	-0.75
-0.6246192	6.344827	0.9	-0.75	-0.625
-0.4985216	6.823564	0.9	-0.625	-0.5
-0.3737008	7.344722	0.9	-0.5	-0.375
-0.2497699	7.914361	1.3	-0.375	-0.25
-0.1242921	8.550662	1.7	-0.25	-0.125
1.53E-05	9.247563	2.4	-0.125	0
0.1258886	10.02931	2.5	0	0.125
0.2506245	10.88983	2.5	0.125	0.25
0.375414	11.84731	2.5	0.25	0.375
0.5001053	12.91386	2.5	0.375	0.5
0.625006	14.10768	2.5	0.5	0.625
0.7500741	15.44695	2.5	0.625	0.75
0.8750312	16.94983	2.5	0.75	0.875
1.000299	18.64663	2.5	0.875	1
1.125096	20.55543	2.5	1	1.125
1.250028	22.71889	2.5	1.125	1.25
1.375133	25.17924	2.5	1.25	1.375
1.500113	27.979	2.5	1.375	1.5
1.625126	31.17865	2.5	1.5	1.625
1.750112	34.84495	2.5	1.625	1.75
1.875008	39.05676	2.5	1.75	1.875
2.000123	43.92294	2.5	1.875	2
2.125095	49.54666	2.7	2	2.125
2.250079	56.07325	2.7	2.125	2.25
2.375015	63.66637	2.7	2.25	2.375
2.5	72.53223	2.7	2.375	2.5
2.625039	82.91265	2.7	2.5	2.625
2.750037	95.08716	5.3	2.625	2.75
2.875024	109.401	38.1	2.75	2.875
3.000019	126.266	59.4	2.875	3
3.125026	146.1732	75	3	3.125
3.250004	169.6982	83.5	3.125	3.25
3.375024	197.5505	86	3.25	3.375
3.500008	230.5408	91.1	3.375	3.5
3.625005	269.6645	93.8	3.5	3.625
3.750015	318.096	96	3.625	3.75
3.875012	371.2178	96	3.75	3.875
4.000008	436.69	97.8	3.875	4
4.125006	514.4825	97.8	4	4.125
SEDIDAT STATISTICS				
GROUPED MOMENT MEASURES (McBride, 1971)				
	.125 CHI	.125 PHI		
Mean	6.464997	2.964203		
Standard deviation	0.8394777	0.4796345		
Skewness	-3.273541	-4.21493		
Kurtosis	22.60904	30.10609		
GRAPHIC MEASURES (Folk and Ward, 1957)				
	.125 CHI	.125 PHI		
Mean	6.52256	3.01408		
Standard deviation	0.4123479	0.2413711		
Skewness	0.6584715	0.6431998		
Kurtosis	1.48472	1.4391		
MODES				
Number	Velocity	CHI	PHI	Freq. %
1	1.305215	6.259568	2.857594	6.666667
2	1.16092	6.428587	2.960239	1.333336
3	1.079547	6.53343	3.023015	1.111115
4	1.490472	6.068087	2.738986	6.666692
5	15.40154	2.698853	701095E-02	6.666692
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			

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G-18

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