

## MAD (Moisture and Density) Logsheet - Balance and pycnometer measurements

Sept. 12, 2021

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Exp. 396

Site/Hole U1572A

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm <sup>3</sup>	Pycnomet. cell #	Comments
1R2	71	11177451	29317	15.808	8.376	3.03	5	clay with silt 1.516 72% 2.787
1R3	55	11177451	29318	15.675	9.295	3.358	6	1.614 67% 2.786
2R1	91	11177441	29319	11.643	6.147	2.266	1	1.505 72% 2.733
3R1	58	11177811	29320	8.700	6.547	2.370	3	1.927 48% 2.771
3R2	70	11177821	29321	7.381	4.886	1.841	4	1.707 58% 2.664
4R1	89	11177831	29323	9.094	6.365	2.313	5	1.808 55% 2.763
5R1	61	11178141	29324	9.398	6.017	2.456	6	1.614 59% 2.455
9R1	61	11178861	29325	6.046	3.105	1.141	1	1.486 73% 2.743
8R1	27	11178651	29326	8.349	5.164	2.255	2	1.539 59% 2.292
7R1	67	11178641	29327	10.929	6.740	2.833	4	1.560 61% 2.383
10R1	93	11178861	29328	9.480	4.909	1.771	5	1.499 72% 2.796
11R1	46	11179041	29329	9.001	3.885	1.496	6	1.366 79% 2.619

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11R2	$\frac{95}{97}$	cyl 11179051	29330	9.602	4.255	1.586	2	1.390 78% 2.710
11R4	$\frac{43}{45}$	cyl 11179061	29331	7.927	3.689	1.360	1	1.420 77% 2.739
12R1	$\frac{20}{72}$	cyl 11179721	29332	4.555	2.088	0.826	1	1.388 76% 2.544
12R3	$\frac{37}{39}$	wedge 11179731	29333	7.064	2.820	1.124	3	1.321 80% 2.528
13R1	$\frac{34}{36}$	wedge 11179741	29334	8.474	3.077	1.253	2	1.279 82% 2.473
14R2	$\frac{11}{13}$	cyl 11180081	29335	11.49	5.518	2.154	5	1.419 75% 2.578
15R2	$\frac{40}{42}$	cyl 11180091	29336	10.494	4.217	1.661	2	1.327 80% 2.560
16R1	$\frac{7}{9}$	cyl 11180421	29337	9.986	3.904	1.540	3	1.315 81% 2.557
17R1	$\frac{55}{57}$	cyl 11180431	29338	8.743	2.589	1.197	6	1.194 85% 2.158
20R1	$\frac{122}{124}$	cyl 11180591	29340	9.883	4.259 4.240	1.851 <del>0.804</del>	1	1.326 76% 1.338 89% 2.305
20R2	$\frac{86}{88}$	cyl 11180601	29339	9.473	3.103	1.426	4	1.219 83% 2.173
21R1	$\frac{102}{104}$	cyl 11180611	29341	10.645	5.189	2.049	6	1.414 74% 2.521



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31R2	54/56	11190804	0 PMAG	22.113	18.414	6.125	1	
30R1	44/46	11190241	29347	7.945	5.389	1.875	1	1.798 59% 2.889
31R1	103/105	11190261	29348	11.429	7.539	2.353	2	
28R1	39/41	11190211	29349	6.462	4.096	1.435	3	
29R1	26/28	11190231	29350	7.869	7.005	2.290	5	2.498 28% 3.064
28R2	15/17	11190221	29351	7.199	5.632	1.953	6	2.049 45% 2.893
33R4	72/74	11190361	29354	9.963	7.021	2.380	1	1.877 56% 2.965
32R2	85/87	11190271	29355	7.384	5.403	1.767	2	1.975 54% 3.073
30R2	51/53	11190251	29356	9.062	7.674	2.562	3	2.298 36% 3.002
29R1	70/72	11190751	0	22.435	21.559	7.27	1	2.755 11% 2.970 2.813 8% 2.965
27R3	74/76	11190731	0	20.986	20.033	6.70	2	2.722 13% 2.965 2.691 14% 2.963
31R1	132/141	11190791	0	13.247	10.320	3.525	1	large Venetian
31R3	65/67	11190831	0	21.332	20.278	6.725	3	

26 R3 70/72 cube 11185541 0 19.605 18.150 6.111 [3] PMAG

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23R1	$\frac{81}{83}$	11185491 cube	0	19.408	18.224	7.90	6	page
32R3	$\frac{22}{24}$	11190841 cube	0	18.007	16.267	5.333	5	2.549 25% 3.055 2.395 32% 3.051
33R2	$\frac{75}{77}$	—	0		see	page 3	3	PMAG
33R3	$\frac{131}{133}$	cube 11190931	0	19.123	17.573	5.865	4	
33R3	$\frac{83}{85}$	cube 11190921	0	12.735	10.021	3.454	4	cube broke during vp. the largest piece is imbedded; the remainder is still in the container (ignore). Colifer is wrong.
33R4	$\frac{8}{10}$	cube 11190941	0	19.818	18.296	6.04	3	
34R1	$\frac{89}{91}$	cube 11190971	0	19.433	17.601	5.908	1	
34R3	$\frac{7}{9}$	cube 11190981	0	17.002	15.110	4.967	4	
34R3	$\frac{86}{88}$	cube 11190991	0	21.412	20.429 <del>17.877</del>	6.781 <del>2.00429</del>	5	
35R3	$\frac{12}{14}$	cube 11191061	0	17.208	14.964	5.033	3	
35R3	$\frac{93}{95}$	cube 11191031	0	19.310	17.877	6.023	2	
33R3	$\frac{46}{48}$	oth 11190911	29357	7.001	5.408	1.867	5	vesic. basal, not cubable :- moved to vial. 2.027 47% 2.906
22R1	$\frac{85}{87}$	cube 11185261	0	13.195	10.354	3.635	6	PMAG cube that lost corners during soaking. 2.091 44% 2.857 cube broke apart during soaking. 2.091 44% 2.857
25R2	$\frac{43}{45}$	cube 11185671	0	22.073	21.137	7.017	2	PMAG 2.751 13% 3.012 2.855 29% 3.012 #4 piece was carefully measured :-



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36R3	$\frac{118}{120}$	04hr 11195471	29364	6.383	4.847	1.653	5	
36Rcc	$\frac{24}{26}$	04hr 11195481	29365	6.436	4.151	1.426	6	2.327 33% 2.959
37R1	$\frac{31}{33}$	wedge 11195121	29367	9.254	5.260	1.785	4	1.606 70% 2.974
37R2	$\frac{84}{86}$	wedge 11195101	29361	7.952	4.553	1.6	1	1.595 69% 2.868
38R2	$\frac{5}{7}$	wedge 11195041	29360	8.829	5.714	1.877	2	1.773 63% 3.067
38R2	$\frac{111}{113}$	wedge 11195081	29358	7.870	4.658	1.640	6	1.627 67% 2.861
43R1	$\frac{13}{15}$	wedge 11195111	29359	8.013	7.437	2.468	5	2.635 19% 3.016
44R2	$\frac{141}{143}$	wedge 11195091	29362	7.821	7.139	2.427	3	2.518 22% 2.945
46R4	$\frac{60}{62}$	wedge 11199201	29363	7.495	6.718	2.239	4	2.488 26% 3.005
46Cc	$\frac{8}{10}$	wedge 11199211	29366	14.291	12.308	4.167	1	2.327 33% 2.959
32R4	$\frac{78}{70}$	cube 11190871	0	22.435	21.776	7.237	2	PMAc
27R2	$\frac{16}{17}$	cube 11190711	0	21.255	20.150	6.778	3	PMAc 2.712 14% 2.977 2.707 14% 2.979

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36R1	$\frac{28}{30}$	cube 11195131	0	19.144	17.546	5.878	3	2.573 21% 2.994 2.486 26% 2.99 no caliper.
38R1	$\frac{65}{67}$	cube 11195891	0	21.541	20.553	6.822	4	2.760 13% 3.015 no caliper
38R3	$\frac{132}{134}$	cube 11195911	0	21.128	20.055	6.637	5	2.742 14% 3.024 2.462 25% 2.935
39R4	$\frac{111}{113}$	cube 11196561	0	18.60	16.751	5.714	1	2.410 27% 2.931 no caliper
39R2	$\frac{32}{34}$	cube 11195961	0	21.859	20.993	6.976	1	no caliper
40R3	$\frac{30}{32}$	cube 11196601	0	21.171	20.213	6.796	6	no caliper
40R1	$\frac{11}{13}$	cube 11196571	0	17.342	15.235	5.110	2	no caliper 2.644 30% 2.987 2.406 19% 2.989
41R1	$\frac{72}{75}$	cube 11196921	0	20.257	18.837	6.308	2	2.623 19% 2.986 2.603 20% no caliper
41R1	$\frac{122}{124}$	cube 11196931	0	20.233	18.842	6.256	3	2.648 18% 3.015 no caliper
41R2	$\frac{99}{101}$	cube 11197341	0	20.614	19.505	6.573	4	2.685 15% 2.970 no caliper
42R1	$\frac{94}{96}$	cube 11197641	0	17.565	15.907	5.235	5	no caliper
42R2	$\frac{67}{69}$	cube 11197651	0	21.470	20.53	6.785	1	2.781 12% 3.028 2.762 13% 3.026



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