

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

September 26, 21

Exp. 396

Site/Hole U1571 A

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Core/Section,	Offset	Text ID example: SHLF 3215071	container	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
1R1	$\frac{44}{46}$	11151291 cyl	29263	18.212	10.309	3.754	3	1.567 69% 2.765
2R2	$\frac{29}{31}$	11151301 cyl	29262	12.039	7.491	2.720	2	1.661 64% 2.769
3R3	$\frac{61}{63}$	11151991 cyl	29261	14.629	8.297	2.011	1	1.570 69% 2.775
4R1	85	11152831	29258 11135 →		8.335	3.047	4	1.908 49% 2.743
5R1	79	11152831	29259 9.609 →		6.801	2.813	6	1.713 51% 2.421
6R1	30	11152851	29260 15.411 →		10.395	3.740	1	1.758 58% 2.769
7R2	86	11153171	29266	11.556	4.280	3.326	2	1.581 56% 2.188
8R1	46	11153181	29267	12.399	9.370	3.464	3	1.913 47% 2.710
9R1	47	11153191	29268	9.857	4.584	1.840	4	1.39 75% 2.505
10R1	80	11153351	29269	7.957 7.988	3.044	1.255	5	1.295 81% 2.440
10R3	124	11153361	29270	7.900	2.674	1.101	2	1.253 84% 2.446
11R1	49	11154011	29271	10.182	3.417	1.435	3	1.246 84% 2.395
12R2	72	11154031	29272	11.328	4.669	1.664	4	1.366 81% 2.847

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

September 7, 2021

Exp.

Site/Hole 571A

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Core/Section,	Offset	Text ID example: SHLF 3215071	Container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnometer cell #	Comments
12R3	105	11154041	29274	10.992	4.545	1.632	5	1.365 81% 2.824
12R1	68	11154021	29273	11.485	4.344	1.62	6	1.318 82% 2.717
12R4	62	11154051	29275	11.432	5.887	1.979	1	green silt/clay 1.524 75% 3.011
14R1	63	11149011	29276	11.138	8.357	3.373	5	clay wet than set = 9.152g 1.814 46% 2.481 1.524 75% 3.011 pycnom: 5.768 cm ³ 15760
15R1	45	11154271	29276	10.455	5.864	1.980	1	1.60 71% 2.991
16R1	59	11155221	29277	9.485	6.792	2.318	4	1.897 55% 2.944
16R2	17	11155231	29278	4.373	2.680	0.908	5	1.686 66% 2.974
17R1	10	11155241	29279	9.582	5.186	1.68	2	1.582 73% 3.126
18R1	30	11159641	29280	8.286	4.874	1.70	1	brownish-gray silt/clay, not soaked, wet 1.626 68% 2.889
19R2	20	11159651	29281	5.566	3.401	1.443	2	not soaked, wet 1.687 66% 3.000
19R2	128	11159661	29297	9.454	5.566	1.823	3	1.66 69% 3.08
20R1	23	11159671	29289	7.359	4.382	1.55	5	1.665 68% 3.05
19R3	46	11160161	29284	4.782	4.680	1.449	6	1.662 69% 3.05

Sept. 7
since 8:20
Sept. 7, 17:00
backing since
Sept. 8, 16:00

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

September 8, 2021

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Core/Section,	Offset	Text ID example: SHLF 3215071	# container	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnometer cell #	Comments
22R3	15 17	wedge 11159881	29287	9.718	6.501	2.108	2	1.83 61% 3.106 Thank you, Peter! → pointer work of time
23R1	117 119	other 11159691	29286	7.39	5.381	1.797	3	1.946 54% 3.040
23R2	13 15	other 11159701	29285	5.537	3.817	1.308	4	1.833 58% 2.934 volatiles salt-stone w. sand
23R3	85 87	wedge 11159711	29288	4.399	4.515	1.493	1	1.695 67% 3.05
18R2	26 28	cube 11159801	0	15.96	13.384	4.590 sat: 6.51006	1!	Sat: x=19.90 → y=19.83 z=19.80 vol=7.8 2.126 42% 2.915 2.296 33% 2.921
18R3	30 32	11159831	0	17.278	15.566	5.261 sat: 6.62423	2!	Sat: x=20.03mm y=19.83mm z=19.80mm 7.925 2.298 34% 2.958 2.480 25% 2.963
22R1	0 12	11159881	0	16.177	14.304	1.47304 sat: 6.164	1	2.488 29% 3.090
22R3	92 94	other 11160171	0	14.304	12.892	4.638 sat: 5.49123	3	2.475 26% 2.989
22R2	68 70	cube 11159901	0	21.428	20.493	7.911 2.47	2	PMAG 2.726 14% 2.995 2.757 12% 2.632
19R1	81 83	cube 11159841	0	20.17	19.001	6.372	3	PMAG 2.599 20% 2.998 2.697 16% 2.984
23R1	26 28	cube 11159851	0	20.428	19.235	7.90	4	2.608 17% 2.943 2.645 16% 2.946
23R4	51 53	cube 11160181	0	20.141	18.757	6.288	4	2.566 21% 2.983 2.627 18% 2.986

baking since 9/9 soaking Sept 08, 16:00

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

September 9, 2021
September 10 (4)

Exp. 396

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Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
31R4	$\frac{48}{44}$	cube 11165001	0	14.609	8.03			Q: 1.855 57% 2.960 red C: 1.895 55% 2.976 red
27R4	$\frac{64}{68}$	other 11164781	29298	8.668			.	2.135 43% 2.98
28Rce	$\frac{11}{13}$	wedge 11164851	29282	6.710				1.807 61% 3.049
27R1	$\frac{5}{7}$	other 11164741	29283	6.413	4.865			2.020 49% 2.989
32R1	$\frac{84}{86}$	other 11165071	29290	4.297	3.319	1.127	2	2.046 47% 2.955
33R1	$\frac{104}{106}$	wedge 11165461	29295	7.389				1.898 60% 2.956
33R2	$\frac{24}{26}$	other 11165671	29291	7.039	5.171	1.698	3	1.978 53% 3.06
34R2	$\frac{17}{19}$	other 11166081	29293	6.022	5.408	1.870		2.456 24% 2.912
35R3	$\frac{4}{6}$	wedge 11166421	29305	7.588	5.234			2.021 51% 3.043
35R3	$\frac{57}{59}$	other 11166731	29292	7.373	5.115	1.708	4	1.864 58% 3.012 red
36R1	$\frac{36}{38}$	other 11166751	29294	8.90	5.992		1	2.804 60% 2.956

backing since Sept. 10, 17:00 / backing since Sept. 09, 20:24

Sep 7. 9, 2021

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

Exp. 396

cubes

Site/Hole U1571A

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Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
24R1	87	11164541	0	21,180	20,108	6.76185	4	D: 2.675 15% 2.974 C: 2.705 14% 2.976 caliper V=7.86 D: 2.527 24% 2.995 C: 2.559 22% 2.999
24R2	59	11164551	0	17,383	15,010	5.054	4	D: 2.344 32% 2.976 C C: 2.266 20% 2.970 V=7.80
24R2	85	11164571	0	19,779	18,018		3	D: 2.708 15% 3.007 C: 2.70 16% 3.009
25R1	85	11164611	0	21,602	20,373	6.776	5	caliper V=7.82 D: 2.371 31% 2.981 C: 2.439 28% 2.986
25R2	141	11164631	0	18,186	16,133	5.411	6	caliper V=7.84 D: 2.221 39% 3.007 C: 2.225 39% 3.000
25R3	62	11164641	0	16,878	14,344	4.779	1	caliper V=7.84 D: 2.225 39% 2.991 C: 2.441 28% 2.996
25R4	38	11164651	0	16,285	14,443	4.824	1	D: 2.699 15% 3.005 C: 2.7 16% 3.007
26R2	113	11164691	0	20,899	19,713	6.560	4	D: 2.340 33% 2.976 C: 2.48 26% 2.980
26R3	65	11164701	0	17,540	15,796	5.307	3	caliper V=7.18 D: 2.770 11% 2.99 C: 2.776 11% 2.993
26R4	51	11164731	0	21,806	20,952	7.005	2	D: 2.288 35% 2.983 C: 2.393 30% 2.989
27R2	94	11164751	0	17,254	15,095	5.060	6	caliper V=7.18 D: 2.417 31% 3.053 C: 2.510 27% 3.058
28R1	55	11164791	0	16,927	15,131	4.956	5	

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

Sept. 9, 2021

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Exp. 396

cubes

Site/Hole

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Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnometer cell #	Comments
28R2	103	11164801	21,480		20.529	6.725	(3)	D: 2.777 14% 3.053 C: 2.800 13% 3.055 caliper V = 7.79 D: 2.506 27% 3.053
29R1	69	11164861	19,151		17.447	5.715	1	caliper 7.90 D: 2.644 17% 2.982 C: 2.674 16% 2.985
29R2	58	11164871	20,752		19.535	6.550	5	caliper 7.79 D: 2.679 18% 3.033 C: 2.747 14% 3.035
29R3	59	11164881	20,573		19.513	6.433	(2)	caliper 7.96 16% 3.007 C D: 2.696 17% 3.009 C: 2.669 17% 3.009
30R1	73	11164921	21,125		19.913	6.628	(1)	D: 2.822 9% 3.000 C: 2.817 9% 3.001
31R1	57	11164971	22,324	22,324	21.597		(1)	D: 2.554 22% 2.979 C: 2.563 21% 2.982
31R3	136	11164991	19,809	18,176		6.10217	5	caliper D: 2.854 5% 2.952
24R3	104	11164591	0	22.208	21.677	7.343	4	PMAC caliper D: 2.766 12% 3.008 C: 2.767 12% 3.010
26R1	114	11164661	0	21.218	20.294	6.747	2	PMAG caliper V = 7.83 D: 2.813 8% 2.968 C: 2.798 9% 2.969
27R3	94	11164771	0	27.730	21.056	7.094	1	caliper D: 2.79 12% 3.031
28R3	53	11164831	0	21.819	20.946	6.910	5	caliper
30R3	58	11164941	0	22.009	21.240	7.104	3	caliper

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

Sept. 10, 2021

Exp. 396

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Core/Section,	Offset	Text ID example: SHLF 3215071	container	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	method A method C Comments
32R2	$\frac{29}{31}$	cube 11165081	0	19.230	17.832	5.459	3	$V=7.32$ caliper volume (wet) 2.649 22% 3.097 2.689 20% 3.100
32R3	$\frac{133}{135}$	cube 11165121	0	22.506	21.629	7.049	3	2.825 12% 3.068 2.841 11% 3.070
33R2	$\frac{79}{81}$	cube 11165681	0	16.275	13.950	4.65186	1	no wet mass in system! 2.250 38% 3.000
33R3	$\frac{52}{54}$	cube 11165711	0	21.454	20.406	6.718	4	7.71 2.775 13% 3.038 2.763 14% 3.040
34R1	$\frac{52}{54}$	cube 11166051	0	20.433	19.101	6.256	6	7.80 2.647 20% 3.053 2.695 18% 3.056
35R1	$\frac{101}{103}$	cube 11166511	0	20.480	19.211	6.483	5	7.88 2.615 18% 2.963 2.644 17% 2.966
35R2	$\frac{35}{37}$	cube 11166711	0	18.436	16.458	5.556	5	$V=7.79$ 2.399 29% 2.962 2.450 27% 2.967
35R3	$\frac{4}{6}$	cube 11166741	0					PMAG
36R3	$\frac{40}{42}$	cube 11166771	0	18.800	17.212	5.70892	2	
36R2	$\frac{79}{81}$	cube 11166761	0	18.541	16.678	5.712	2	2.401 27% 2.92 2.45 25% 2.924
37R1	$\frac{74}{76}$	cube 11167411	0	21.701	20.803	6.858	1	$V=7.80$ 2.788 12% 3.033 2.799 12% 3.035
37R3	$\frac{20}{22}$	cube 11167451	0	19.17	17.750	5.76938	4	

MAD (Moisture and Density) Logsheets - Balance and pycnometer measurements

Sep 1. 10, 2021

Exp. 396

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Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnometer cell #	method D method C Comments
38R1	$\frac{105}{107}$	cube 11167891	0	21.423	20.553	6.703	4	V = 7.79 2.75 11%. 2.97 2.83 12%, 3.068
38R2	$\frac{145}{147}$	cube 11168631	0	16.374	14.077	4.6623	5	2.190 42% 3.018 2.355 34% 3.024
38R3	$\frac{95}{97}$	cube 11167931	0	17.627	15.616	5.18797	6	2.338 34% 3.009 2.449 28% 3.014
38R4	$\frac{61}{63}$	cube 11167941	0					PMAG 2.809 12.792 10% 2.990 9% 2.989
39R1	$\frac{68}{64}$	cube 11168261	0	21.595	20.581	6.773	6	V = 7.85 2.759 14% 3.039 2.775 13% 3.041
39R2	$\frac{112}{114}$	cube 11168312	0	18.487	16.694	5.5468		2.435 29% 3.010
39R3	$\frac{60}{62}$	cube 11167881	0	14.763	18.321	6.25069	2	2.528 21% 2.931
39R4	$\frac{133}{136}$	cube 11165121	0	20.506				

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

Sep. 10, 2021

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Exp. 396

PMA6 cubes

Site/Hole U1571A/B

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnometer cell #	Method D Method C Comments
32R4	74 76	11165151	0	24.183 N/A	20.025	6.550	4	if only one measurement, it is C X: 2.649 20% 3.057 C: 2.728 16% 3.060
37R2	34 36	11167441	0	20.880	19.726	6.499	5	D: 2.716 16% 3.035 C: 2.730 15% 3.038
38R4	61 63	11167941	0	22.047	21.258	7.112	6	D: 2.809 9% 2.989 C: 2.791 10% 2.990
20X2	80	11176841	0	19.764	18.224	6.165	3	D: 2.570 20% 2.956 C: 2.567 20% 2.959
			39828					

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