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

September 18 (1)

Exp. 396 **Site/Hole** U1573A

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm^3	Pycnomet. cell #	Comments
2R2	57/59	wdge 11208361	28996	5.995	4.441	1.791	2	grey-~~blueish~~ ~~siltstone~~ 1.796 47% 2.483
2R4	34/36	wdge 11208371	28997	6.129	4.507	1.678	4	both these are higher than WRMSL (~ 1.5 g/cc) 1.861 50% 2.693
2R5	35/37	wdge 11208381	28998	8.617	5.367	1.964	5	good correlation with WRMSL 1.657 63% 2.747
3R1	30/32	wdge 11209081	29006	5.846	3.531	1.352	6	1.599 64% 2.623
3R3	91/93	wdge 11209091	29007	9.326	5.050	1.801	1	1.539 71% 2.828
3R6	9/11	wdge 11209101	29008	8.366	4.916	1.765	2	1.609 67% 2.804
4R1	83/85	wdge 11210811	29005	7.839	4.669	1.647	2	green clay 1.632 67% 2.855
4R2	81/83	wdge 11210821	29004	9.076	5.246	1.902	3	black organic-rich clay 1.588 68% 2.776
4R4	123/125	wdge 11210831	29002	6.896	3.700	1.308	5	gray-blue clay-rich sandstone with CaCO3 (?) 1.536 72% 2.854
4RCc	37/39	wdge 11210841	29003	12.672	6.532	2.350	6	blue-green shale/clay biosiliceous rich claystone 1.497 73% 2.805
5R2	48/50	wdge 11211641	29016	9.698	6.436	2.305	1	1.747 59% 2.806
5R4	69/71	wdge 11211651	29017	10.109	6.515	2.405	2	1.690 61% 2.721

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

September 19 (2)

Exp. 396 **Site/Hole** 1573A

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm^3	Pycnomet. cell #	Comments
7R1	98	11211971	29010	12,422	8.978	3.239	3	1.863 52% 2.782
7R4	43	11211981	29011	10,019	7.369	2.620	4	1.904 51% 2.821
6R2	36	11211851	29012	9,909	6.900	2.452	6	1.819 56% 2.826
6R5	54	11211871	29013	9,069	6.261	2.286	1	1.785 56% 2.749
6R6	52	11211881	29014	11,467	7.356	2,584	2	1.717 62% 2.863
6R4	110	11211861	29015	10,440	7.010	2,538	3	1.754 58% 2.779
7R7	49	11211991	29018	10,676	7.113	2,512	4	1.762 60% 2.846.
8R1	99	11212441	29020	11.829	8.649	3.112	5	1.884 51% 2.789
8R4	102	11212451	29019	12.294	8,886	3.199	1	1.865 52% 2.789
8R6	~~73~~	11212461	29021	11.092	6.965	2.468	6	1.685 64% 2.839
9R2	61/62	cyl 11212511	29023	12.619	9,076	3,188		greenish mud 1.879 53% 2.859
9R4	47/49	cyl 11212521	29024	8.828	6,684	2,431		blackish mud, lower than WRMSL(?) 1.934 48% 2.757
9R7	62/64	cyl 11212531	29022	8.147	5,821	2,135	1	two chunks of pyrite were found in collected sample. Put back to core. Blue-gray sandstone

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

September 19, 2021 (3)

Exp. 396 **Site/Hole** U1573

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm^3	Pycnomet. cell #	Comments
10R1	57/59	cyl 11212581	29032	10.979	7.670	2.702	2	1.831 56% 2.851
10R1	118/120	cyl 11212591	29025	9.627	7.024	2.477	2	1.901 52% 2.851
10R3	65/67	cyl 11212601	29033	9.502	6.998	2.526	2	1.856 51% 2.739
10R4	20/22	wdge 11214141	29029	11.082	8.972	3.378	1	2.023 39% 2.661 ash high vp
12R2	30/32	wdge 11214111	29031	5.761	4.121	1.427	3	black shale 1.883 54% 2.901
12R2	70/72	wdge 11214121	29030	9.033	5.979	2.019	4	black mudstone 1.785 61% 2.980
10R5	56/58	wdge 11214101	29028	7.875	5.547	1.931	5	1.853 55% 2.886
10R4	98/100	cube 11214241	0	18.433				sample 2.156 32% 2.340 before soak. 18.449 soaked 2.283 31% 2.846
11R1	32/34	wdge 11214331	29027	6.757	6.128	2.305	6	"claystone with sill 2.305 22% 2.661
11R1	136/138	cube 11214311	0	19.233				2.428 20% 2.786 polka-dot basalt (filled vesicles)
13R2	58/60	cube 11214421	0	20.508	Hello, I			2.436 19% 2.789 2.575 16% 2.876 2.544 18% 2.879
13R4	55/57	cube 11214441	0	20.993	peter			2.608 15% 2.879 2.625 14% 2.877

stop writing this... no point to rewrite all measurements 10x ...

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

September 20-21 (4)

Exp. 396 **Site/Hole** U1573A

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm^3	Pycnomet. cell #	Comments
17R4	67	11215161	29026	7.921				2.136 40% 2.870
18R1	37/39	other 11215371	29034	6.339				2.073 40% 2.781
17R3	121/123	other 11215361	29035	7.525				1.810 58% 2.885
17R3	4/5	wedge 11215351	29036	5.788				1.914 51% 2.835
15R2	50/52	cube 11215251	0	~~18.822~~	} see page 5			
15R2	91/93	cube 11215271	0					

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

Sept. 22, 2021

(5)

Exp. 396 **Site/Hole** U1573

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm^3	Pycnomet. cell #	Comments
18R2	43	11215401		18,954	16.885	5.916	1	2.376 27% 2.858 2.325 29% 2.853
17R2	17	11215321		19,380	17.905	6.269	2	2.504 19% 2.859 2.530 20% 2.895
15R2	128	11215291		19,744	18.877	7.573	3	2.340 10% 2.493 2.380 7.6% 2.492
15R2	91 (80)	11215271		19,225	17.537	6.163	5	2.451 22% 2.848 2.399 25% 2.845
15R2	50	11215251		18,884	17.366	6.138	6	2.468 20% 2.832 2.479 19% 2.829
15R2	11	11215241		18,982	17.559	6.196	5	2.502 19% 2.849 2.475 20% 2.846
14R1	68	11214481		19,412	17.576	6.206	4	2.416 23% 2.835 2.441 22% 2.832
12R1	117	11214341		19,115	17.484	6.263	2	2.423 21% 2.794 2.420 21% 2.788
12R3	7	11214401		19,020	17.071	5.976	1	2.403 25% 2.860 2.417 24% 2.856