

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

balancing: 22 Aug 0900am

Exp. 396

Site/Hole U15674

(1)

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
1H1	35	28596 ^{vid} 28596 →		12,939	7,806	2,822	6	Bulk per. grain 1.627 66% 2.778
1H3	84	28597 ^{vid} 28597 →		12,529	7,371	2,665	1	1.606 67% 2.784
2H4	69	CYL11081071	28598	19,570	12,808	2,463	2	1.722 60% 2.780
2H5	69	CYL11081081	28599	12,822	7,613	4,630	3	1.618 67% 2.795
2H2	95	CYL11081051	28595	18,534	12,443	4,575	5	1.75 58% 2.742
2H1	61	CYL11081051	28593	17,679	11,132	4,064	1	1.711 60% 2.752
2H3	70	CYL11081061	28594	17,803	12,264	4,395	2	1.786 57% 2.789
2H7	17	CYL11081101	28601	17,607	11,168	3,997	3	1.692 63% 2.810
2H6	69	CYL11081111	28600	19,069	12,276	4,443	4	1.702 61% 2.799
3H3	72	CYL11081241	28602	16,566	11,116	4,249	3	1.712 57% 2.625
3H6 3H2	79	CYL11081231	28603	17,436	10,367	4,036	6	1.575 65% 2.579
3H4	35	CYL11081251	28604	20,301	15,452	5,675	1	1.933 47% 2.730
3H6	100	CYL11081261	28605	21,129	15,923	5,816	4	1.921 48% 2.746

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

baking: 22 Aug 0900 am

Exp. 396

Site/Hole 11567A

August 22, 2021 (2)

baking since 9 am Aug 22

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
4H5 4H4	118 88	CTL11081741	28605	17,576	12,921	4,739	3	bulk per grain 1.875 50% 2.735
4H6 4H7	53	CTL11081761	28607	14,979	8,690	3,645	2	1.610 68% 2.876
4H3	83	CTL11081731	28608	19,438	14,693	5,380	5	1.924 48% 2.739
4H6	102	CTL11081751	28617	18,333	12,646	4,565	2	1.793 56% 2.78
4H1	88	CTL11081721	28606	18,710	13,251	4,820	1	1.824 54% 2.759
6H6	55 57	Cyl 11084551	28622	12,151	5,595	1,969	5	1.430 78% 2.877
6H4	65 67	Cyl 11084541	28621	7,490	3,644	1,300	6	1.460 76% 2.833
6H3	84 86	Cyl 11084531	28624	5,181	2,782	0,939	1	1.557 73% 2.995
6H2	114 116	Cyl 11084391	28625	11,383	4,972	1,702	3	1.408 80% 2.967
6H1	68 70	Cyl 11084381	28610	10,227	4,022	1,390	4	1.351 83% 2.947

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

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August 22, 2021

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Core/Section,	Offset	Text ID example: SHF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
543	60	Cyl 11083171	28614	10,000	4.026	1.457	3	Bulk 1.350 82% poor grain 2.802
546	39	Cyl 11083201	28611	8,528	3.709	1.290	2	1.400 80% 2.918
545	35	Cyl 11083191	28612	5,447	2.349	0.889	4	1.403 78% 2.774
544	27	Cyl 11083181	28613	11,419	4.393	1.556	6	1.335 83% 2.871
541	63	Cyl 11083161	28615	11,556	4.751	1.795	1	1.348 80% 2.675
542	64	Cyl 11083151	28616	13,427	8.231	2.952	2	1.653 65% 2.805
10X4	105 107	OTHR 11087381	28619	2,793	1.557	0.628	3	1.503 67% 2.488
7X1	19 21	OTHR 11083591	0	9.799	6.908	2.318	1	Sample right beneath corals "uninformative" was not saved for wet mass measured immediately 1.886 56% 2.996
7X1	38 40	Cyl 11086541	28618	14,441	9.280	3.400	4	1.805 58% 2.903
8X1	3 5	OTHR 11086901	28633	7.706	6.904	2.444	5	poorly located 2.377 25% 2.828 green rock below unconformity
10X1	38 40	Cyl 11087041	28632	11,096	5.902	2.151	2	1.515 72% 2.766
10X2	110 112	Cyl 11087051	28631	12,348	6.790	2.593	3	1.520 69% 2.633
10X3	63 65	Cyl 11087071	28630	5,857	3.078	1.195	4	1.478 71% 2.590

Baking since 10:30 Aug. 22
Tray X

Baking since 16:55 Aug. 22

Aug. 22, 2021

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[illegible]

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

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Site/Hole 1567 /A/B

August 23, 2021

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Core/Section,	Offset	Text ID example: SHF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
18X4	63/65	11088351	28641	6.613	3.228	1.208	5	1.444 75% 2.694
19X4	31	CYL 11088471	28642	5.024	2.222	0.84	1	1.384 78% 2.670
20X4	71	CYL 11089081	28643	7.060	3.516	1.317	2	1.457 79% 2.690
21X4	55/57	CYL 11089501	28644	6.208	2.997	1.207	3	1.410 79% 2.495
22R1	36/38	CYL 1089761	28645	4.635	1.952	0.741	6	1.358 86% 2.660
23X4	66/68	CYL 11090151	28646	7.917	4.62	1.684	1	1.594 87% 2.761
2H3	64/66	CYL 11090831	28647	17.55	12.728	4.635	2	1.860 52% 2.755
3H1	59/61	CYL 11091051	28648	14.548	8.654	3.077	6	1.626 67% 2.832
3H5	60/62	CYL 11091061	28649	13.238	6.204	2.258	3	1.429 77% 2.776
4H1	104/106	CYL 11092101	28657	8.864	4.315	1.514	4	1.467 76% 2.883
8X2	85/86	CYL 1109581	28659	7.380				

1567B ← → 1567A

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

August 24, 2021

Exp. 346

Site/Hole 41567/B

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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
bx2	90	11094731	28651	8759	5.393	1.877	1	1.675 65% 2.893
Sx3	82	11094741	28652	5724	3.138	1.101	2	1.578 71% 2.921
Sx4	16	11094621	28653	4708	3.285	1.157	3	1.829 56% 2.852
Sx1	71	11094591	28654	8361	4.751	1.660	4	1.591 70% 2.886
Sx7	42	11094611	28655	4351	2.470	0.881	5	1.580 69% 2.825
Sx2	8	11094601	28656	5620	3.421	1.214	2	1.651 65% 2.836
Sx1	105	11095411	28656	6807	4.109	1.425	3	1.656 66% 2.893
Sx3	26	11095421	28658	8392	5.182	1.806	4	1.678 65% 2.889
Sx2	85	11095831	28657	7380	3.664	1.408	5	1.445 79% 2.620

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

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Site/Hole 1568/A

sampled Aug. 25, 2021
balled Aug. 26, 2021

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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
11X2	69	WDGE 11101881	28665	7.689	4.569	1.665	5	1.612 66% 2.761
9X2	87	WDGE 11101841	28663	2.453	1.366	0.506	5	1.544 89% 2.717
10X2	80	WDGE 11101871	28664	8.545	5.357	1.953	6	1.667 63% 2.757
8X2	13	WDGE 11101911	28661	4.557	2.903	1.09	1	1.715 63% 2.892
9X1	35	WDGE 11101831	28662	9.503	7.937	2.778	4	2.103 ? 35% 2.872
12X2	29	WDGE 11101931	28666	6.461	3.832	1.348	4	1.631 67% 2.874
13X3	101	WDGE 11101951	28667	8.162	4.504	1.609	3	1.554 71% 2.822
14X4	60	WDGE 11101971	28668	8.218	4.361	1.528	4	1.531 73% 2.881
15X3	64	WDGE 11102241	28669	8.024	4.449	1.583	6	1.551 71% 2.814
16X3	75	other 11102271	28670	4.841	2.919	1.042	1	1.638 66% 2.819
17X3	64	other 11102291	28671	6.754	3.005	1.183	3	1.379 77% 2.558
18X3	57 59	other 11102351	28672	6.137	3.079	1.121	6	1.473 74% 2.791
19X2	71/73	other 11102381	28673	9.445	4.391	1.653	3	1.412 77% 2.679
20X2	81/83	other 11102401	28681	8.268	4.080	1.434	5	1.447 72% 2.079

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

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Site/Hole 1568A, B

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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
21X2	12	other 11102431	28680	11.6	5,460	1,902	1	1.447 78%. 2.907
22X1	55	other 11102441	28679	8.559	4,434	1,594	1	1.501 73%. 2.807
23X1	95	cuts 11102491	28674	3.603	2.636	1.034	6	1.804 49%. 2.554
24X1	79	wedge 11102501	28678	7.150	4.244	1.546	3	1.611 66%. 2.762
25X1	96	wedge 11103191	28676	11.622	6.927	2.505	5	1.619 66%. 2.782
27X1	22	wedge 11103181	28675	5.362	3.197	1.153	1	1.621 66%. 2.790
5X2	113	other 11105481	28674	4.456	2.468	0.919	1	1.537 69%. 2.703
7X1	98	wedge 11106491	31425	4.639	2.868	1.027	4	1.662 64%. 2.809
6X2	76	cube 11105661	0	20.203	20.191	7.518 pycn. x=20.14 PMA6, can not be baked, y=2.013 corrected for 1st. so first measurement was overaged of 3 hrs.		2.683 0.2% 2.6857

CaCO₃

sampled by Peter

Baked Aug. 26

1568B

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

28/08/2021

Exp. 396

Site/Hole 1569 Hole 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	39	CYL 11112531	31424	15.574	8,910	3,185	2	1.585 69% 2.814
3R3	56	CYL 11112721	31423	13.300	9,417	3,729	1	1.75 52% 2.53
5R2	90	CYL 11113881	31422	14.716	10,137	3,659	6	1.791 56% 2.782
7R2	73	CYL 11114671	31420	13.489	9,331	3,944	4	1.767 55% 2.680
8R2	62	CYL 11114681	31421	15.236	11,077	3,967	145	1.829 52% 2.80
9X1	80	CYL 11119671	31418	12.389	7,248	2,857	1	1.553 65% 2.547
10X3	86	CYL 11115581	31419	13.484	7,344	2,766	3	1.519 70% 2.671
11R2	56	CYL 11115481	31427	13.646	7,197	2,726	5	1.49 71% 2.647
12R1	54	CYL 11115791	31428	11.706	5,338	2,050	6	1.395 77% 2.647
12R2	56	CYL 11115801	31426	11.781	4,858	2,006	4	1.324 79% 2.435
13R2	51	CYL 11116161	31429	10.957	4,443	1,830	1	1.318 79% 2.441
14R1	76	CYL 11116431	31430	9.253	3,712	1,502	2	1.312 80% 2.487

apparent drop in porosity
as depth increases

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

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August 28, 2021
29, 2021

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
14R3	102	cyl 11117011	31432	11.784	4,930	1,818	5	1.365 80% 2.75
15R1	11	cyl 111107021	31431	10.31	4,672	1,687	3	1.412 78% 2.801 uncertainty brown shale
16R5	81	11117411	31433	6.266	3,268	1,207	6	1.519 71% 2.727
16R1	60	11117421	31434	8.958	4,975	1,757	1	1.566 71% 2.858
17R5	62	11117911	31435	6.401	3,887 4,356	1,355	2	1.659 66% 2.889
18R5	56	11118431	31436	7.897	4,356	1,564	1	1.550 70.5% 2.798
20R3	53	11118761	31437	9.173	4,554	1,624	3	1.474 75% 2.833
22R1	86	11119781	31440	5.800	3,041	1,094	4	1.510 73% 2.804
23R3	48	11119761	31438	7.263	3,882	1,457	6	1.506 71% 2.882
24R1	52	11119791	31439	8.136	4,501	1,662	1	1.541 70% 2.726
25R1	84	11119801	31441	4.375	2,427	0,862	2	1.562 70% 2.838
27R2	120	11120131	31442	7.998	4,324	1,560	3	1.529 71% 2.786

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

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Site/Hole 1569A

⑪ Aug 29th, 2011

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
28R1	16	11120151	31444	9.165	7.130	2.360	4	$\rho = 82.10 \frac{g}{cm^3}$ -5.8° 47% 3.033 (ash)
28R1	100	11120141	31443	6.087	3.760	1.332	5	1.668 65% 2.841
29R1	60	11120421	31445	9.670	7.702	2.666	1	2.091 43% 2.892 (ash)
30R1	60	11120431	31446	6.619	3.972	1.444	2	1.642 66% 2.771
31R1	98	11120441	31447	5.794	4.344 4.315 4.326	1.477	3	1.970 51% 2.939 (ash)
32R1	$\frac{85}{87}$	wdgc 11120771	31449	8.008	4.904	1.818	4	1.635 64% 2.717
33R1	$\frac{33}{35}$	wdgc 1112781	31448	7.30	5.174	1.810	5	ash layer 1.859 55% 2.871 (ash)
35R2	$\frac{47}{49}$	wdgc 1112741	31457	4.510	2.814	1.080	6	1.629 62% 2.616
36R2	50	cnl 11121291	31456	9.455	5.939	2.198	2	1.657 63% 2.712
36R3	124	wdgc 11121461	31454	4.228	2.478	0.863	3	1.623 68% 2.894
37R1	29	wdgc 11121481	31455	8.505	5.643	2.102	1	1.718 58% 2.70
38R2	78	cnl 11121561	31453	9.114	5.627	2.012	2	1.66 64% 2.81

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

August 30, 2021 (12)

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Site/Hole 1567A

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
38R3	114	cy1 11121531	31451	6.657	4.49	4.636	5	1.76 58% 2.76
38R3	41	wDGE 11121521	X	17.947 18.034	17.182	6.198	1	soaked for 14 hrs, then baked for 24 hr. each of vacuumed sample 2.58 11% 2.77
38R4	44	wDGE 11121551	31464	2.274	1.636	0.626	3	1.80 51% 2.62
38R4	20	wDGE 11121541	31450	6.844	3.937	1.496	4	1.65 62% 2.64
39R1	78	wDGE 11121881	31465	7.522	5.244	1.679	6	1.77 54% 2.66 ::
42R1	73	wDGE 11122041	31462	8.024	4.885	1.831 2.770	4	1.619 64% 2.681
41R1	55	wDGE 11121891	831463	4.122	2.77	1.006	5	1.753 58% 2.765
43R1	38	wDGE 11122141	31459	6.656	4.469	1.700	6	1.717 57% 2.638
43R1	121	wDGE 11122151	31461	7.946	5.772	2.154	1	1.84 51% 2.687
44R2	85 86	11122161	31460	13.418 12.661	12.643	3.645 4.98	2	3.021 17% 3.43 (2)
44R2	132 135	wDGE 11122171	31458	8.642	6.217	2.322	3	1.825 52% 2.69

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

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Site/Hole U15704 August 31, Sept. 1

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→ baking since sept. 01, 12:50 ←

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
1R1	Z1	11124831	31473	16.364	7.440	2.888	2	1.414 78% 2.799
7R1	$\frac{85}{87}$	eyl 11126341	31472	11.330	5.454	1.969	3	1.448 76% 2.798
7R2	$\frac{38}{40}$	othr 11126321	31471	5.010	2.580	0.924	4	1.498 74% 2.818
9R1	$\frac{100}{101}$	wdgc 11127531	31470	4.876	2.611	0.992	6	1.502 71% 2.648
11R2	$\frac{99}{101}$	wdgc 11127561	31469	8.284	4.480	1.639	1	1.527 71% 2.754
16R1	32	wdgc 11127541	31468	4.995	2.781	1.611	2	1.553 70% 2.77
13R2	47	wdgc 11128221	31467	1.783	1.382	0.943	3	1.17 48% 3.133 Ash
13R1	62	wdgc 11128211	31466	1.954	1.119	0.906	4	1.579 68% 2.775
14R1	34	11129291	31474	5.764	3.049	1.122	5	1.567 72% 2.738
15R2	51	11129381	31475	3.937	1.942	0.75	3	1.439 74% 2.606
16R2	19	11129841	31476	35.09	2.791	0.931	2	2.08 47% 3.008 Ash

~~17R2~~ $\frac{45}{47}$ 11130061 10.17 5.582 2.093 1 1.527 70% 2.68
 11131031 3.147
 11130061 10.17 5.582 2.093 1 1.527 70% 2.68

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

Exp. 396

Site/Hole

U1570A

September 1, 2021

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baking since Sept 2 20:30

baking since Sept. 01 12:50

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
19R1	59 01	wedge 11130481	31477	2.685	1.597	0.589	2	1.606 66% 2.727
18R2	106 108	wedge 11130491	31478	5.894	3.467	1.774	5	1.597 67% 2.738
20R2	45 47	wedge 11130511	31479	7.032	4.113	1.600	1	1.561 66% 2.581
22R2	112 114	wedge 111310021	31480	2.66	1.586	0.620	6	1.575 69% 2.568
23R2	41 43	wedge 11131031	31481	3.391	1.997	0.747	4	1.588 66% 2.688
24R2	79 81	wedge 11131321	31488	5.571	2.849	1.125	6	4.453 72% 2.545
25R1	69 71	wedge 11131331	31489	9.685	8.773	3.425	5	2.23 21% 2.583 limestone
27R2	46 48	wedge 11131621	31487	5.98	3.415	1.262	4	1.567 68% 2.657 2.723
28R3	31 33	wedge 11131671	31486	6.035	4.576		1	1.90 46% 2.659 limestone lighter color
26R2	130 132	Other 11131381	0	4.376	not forced	decide		mass before steaming 4.132g sample returned to core in quiescent morphic rock
29R3	42 44	wedge 11132331	31485	6.490	3.739		5	1.564 67% 2.664
30R2	6/8	wedge 11132341	31484	8.228	4.535		6	1.515 69% 2.589

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

September 1 2021

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Exp. 396

Site/Hole

115704

Core/Section,	Offset	Text ID example: SHF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
31R2	$\frac{33}{35}$	wedge 11132911	31483	6.466	3.963	1.459	1	1.637 64% 2.731
32R1	112	wedge 11132921	31482	6.624	3.651	1.330	2	1.631 65% 2.761
33R1	78	wedge 11132931	31497	6.072	3.556	1.296	2	1.605 67% 2.761
34R1	92	11133531	31496	4.301 4.132	3.044	1.100	3	1.713 58% 2.682 1.740 52% 2.590
36R1	51	11133881	31494	8.511	5.438	2.049	4	1.666 61% 2.665
26R1	$\frac{4}{6}$	other 111335941	31490	6.781	5.059		4	1.666 61% 2.665
27R1	$\frac{13}{15}$	other 11136181	31499	4.503	2.999	1.198	1	1.671 56% 2.51 "baked"
26R2	$\frac{5}{7}$	other 11135961	31498	7.661	5.504	2.160	3	"dirty" intrusion, wet V = 4.118 1.778 51% 2.553
27R1	$\frac{36}{38}$	cube 11136201	31500	4.569	2.608	0.969	6	this is not a cube, it is a wedge "normal" shale away from intrusion 1.564 68% 2.408
27R1	$\frac{101}{103}$	other 11136211	31502	3.371	1.812	0.670	2	1.525 71% 2.723
26R2	$\frac{54}{56}$	other 11136471	0	3.378	2.440	0.944	5	cut up from intrusion mass before packing 3.378g, V = 1.63cc 1.799 51% 2.591 dacite

baking

↓

baking

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

September 02

Exp. 396

Site/Hole 1570 B

16

→ baking since 20:30 Sept. 2

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
8R1	42	11134761	31491	8.497	5.174	2.054	2	1.585 63% 2.527
10R1	66	11134771	31492	6.861	3.869	1.565	3	1.510 67% 2.48
6R1	18	11134731	31493	7.218	4.403	1.737	4	1.590 63% 2.543
11R1	116	other 11136131	31501	6.471	5.972	2.201	6	"ash sandstone" wet V = 2.519 ash 2.399 19% 2.715
14R3	56 62	other 11136931	31503	8.741	6.249	2.287	6	1.833 53% 2.742 ash
12R1	64	Cube 11136411	○	12.219	8.048	3.029	3	ash sandstone 1 1.701 59% 2.667
12R2	54 56	Cube 11136431	○	13.066	8.814	3.250	2	ash sandstone 2 1.746 58% 2.723
13R1	57 59	Cube 11136441	31513	12.334	8.399	3.125	1	Cube fell apart & moved to vial 1.778 57% 2.793
15R2	84 86	Cyl 11136961	31504	7.018	6.605	1.957	1	2.96 18% 3.379
16R1	19 21	Cyl 11136971	31505	9.748	7.302	2.563	5	1.95 50% 2.859
17R1	81 83	wedge 11138131	31512	6.037	4.1325	2.040	2	1.647 64% 2.763
18R1	96 98	11138141	31511	9.249	5.678	2.070	1	1.832 53% 2.729

19R1 36
38

11138161 31510 8.453 5.036 1.843

5

1.612 66% 2.749

"sandstone"

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

September 3, 21

17

Exp. 396

Site/Hole 1570B

Core/Section,	Offset	Text ID example: SHF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
22R2	65	11138751	31515	2.683	1.698	0.666	1	ash-rich siltstone above ash bed 1.629 61% 2.558
20R3	28	11138611	31508	8.208	5.334	1.958	3	ash-rich siltstone 1.703 60% 2.736 cal with carbonate 2.321 22% 2.687 calcs
21R2	144	11138681	31514	9.500	8.609	3.206	6	ash-rich siltstone 1.775 59% 2.878 ash-rich siltstone 1.806 55% 2.747 ash-rich siltstone
22R1	38	11138741	31516	5.525	3.696	1.291	4	ash-rich siltstone 1.843 44% 2.491 ash-rich siltstone
21R2	56	11138621	31509	10.017	7.020	2.565	6	ash-rich siltstone 1.806 55% 2.747 ash-rich siltstone
23R1	39	11138961	31517	6.271	4.788	1.925	5	ash-rich siltstone 1.843 44% 2.491 ash-rich siltstone
21R2	88	11138631	31507	9.285	6.516	2.380	2	ash-rich siltstone 1.807 55% 2.748 ash-rich siltstone
23R1	76	11138971	31518	7.440	6.060	2.116	4	ash-rich siltstone 2.132 40% 2.871 ash-rich siltstone
21R3	116	11138691	0	13.731	13.302	4.184	3	ash-rich siltstone 2.132 40% 2.871 ash-rich siltstone
24R1	98	11140201	31519	2.785	1.923	0.880	2	ash-rich siltstone 1.815 57% 2.891 ash-rich siltstone
24R4	53	11140211	31520	2.830	1.923	1.138	3	ash-rich siltstone 1.739 60% 2.793 ash-rich siltstone
25R4	92	11140421	31521	9.285	6.234	2.151	4	ash-rich siltstone 1.765 59% 2.817 ash-rich siltstone

baking :-

11140421

2.293

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

September 3

Exp.

396

Site/Hole

1570C

18

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
5R1	$\frac{7}{9}$	cy1 11141591	31528	12.7	5.603	2.111	1	dark clay/shale above uncertainty. 1.379 79% 2.68 units/units
5R1	$\frac{42}{44}$	cy1 11141601	31529	12.83	7.919	2.686	2	brown "soil" below uncertainty 1.706 65% 2.970
7R1	$\frac{36}{38}$	11141881	31527	9.283	4.083	1.620	3	1.366 77% 2.537
8R1	$\frac{5}{7}$	wedge 11142181	31524	6.736	3.246	1.303	5	1.425 74% 2.544
6R2	$\frac{81}{83}$	wedge 11141871	31526	8.31	3.691	1.484	6	1.366 77% 2.502
9R2	$\frac{24}{26}$	wedge 11142191	31525	6.146	2.821	1.086	1	1.398 77% 2.617
10R1	$\frac{9}{11}$	wedge 11142201	31523	6.100	3.238	1.240	2	4.492 71% 2.627
12R2	$\frac{8}{10}$	other 11143321	0	16.469		3.350		pyrite clunk, returned back 4.991cc (pyrite is 3.02 g/cc)
11R1	$\frac{67}{69}$	11143351	31522	8.217	3.946	1.809	3	1.462 75.8% 2.639
11R1	$\frac{67}{69}$	11143361	31535	7.442	7.280		4	bureau fill is 2.863 48% 3.276
12R2	$\frac{81}{83}$	11143341	31537	9.390 4.142	4.578		6	1.419 74% 2.519
13R1	$\frac{54}{56}$	11143551	31536	4.412	2.679		1	1.392 75% 2.469

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

September 4, 21

Exp. 396

Site/Hole 1570 C, 8

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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
20R1	65	11144001	31534	12,535	7,598	2,845	1	1.645 64% 2.684
22R2	115	11144451	31540	8,163	5,582	2,031	2	1.784 56% 2.759
23R2	64	11144651	3541	4,494	2,715	1,007	3	1.618 64% 2.710
10R1	54	11147931	31553	6.645	3,567	1,389	6	1.492 70% 2.581
13R1	15	11147941	31552	7.858	4,600	1,738	5	1.577 66% 2.66
11R1	38	11148031	31550	5.953	5,620	2,060	3	2.490 <u>limestone</u> 14% 2.73
12R1	60	11148051	31551	9.777	5,368	2,057	4	1.517 69% 2.624
20R1	107	11149221	29264		see page 21			
20R3	26	11149231	29265					
14R1	63	11149011	0					mass before corrected

1570C
↑
1570D
↑
boxing until Sept 5 22:30
locate

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

September 4, 21

Exp. 396

Site/Hole 1570 C, D

(20)

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
14R1	40	11143951	3532	3,824	1996	0.783	1	1.425 72% 2.456
15R1	57	11143961	31533	6,612	3,130	1.250	2	1.402 75% 2.519
16R1	69	11143971	31534	3,868	1,982	0.772	5	1.443 72% 2.541
17R4	67	11144021	31536 31537	4,899	2,968	1.143		1.598 4.600 64% 2.604 2.619
17R2	132	11144011	31531 31531	8,955	5,846	2.140		1.710 60% 2.744 1.707 60% 2.730
19R1	86	11144031	31538	3,412	1,692	0.666		1.437 73% 2.579
GR1	$\frac{65}{67}$	wedge 11146951	31544	5,033	2,678	0.997	14	shaft in gut below wiref. 1.506 71 2.705
7R1	$\frac{132}{134}$	wedge 111446961	31545	6,914	3,686	1.381	2	shaft, backpropped 1.506 71 2.687
7R1	$\frac{10}{12}$	cube 111446941	0	15,497	11,520	$\frac{8.9}{19.7}$ $\frac{19.7}{19.75}$	3	ash cube 1.999 51% 2.967
8R2	$\frac{132}{134}$	wedge 111447461	31543	7,068	4,312	1.565	5	1.640 65% 2.741
9R1	$\frac{19}{21}$	wedge 111447471	31542	5,912	2,053	0.779	4	1.488 72% 2.652

1570 D
Sept. 5, 22:30

1570 C
baking until Sept. 5

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

September 4

21

Exp. 396

Site/Hole 1570D

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
16R2	52	11148611	31549	3.876	2.261	0.866	1	1.567 66% 2.623
17R1	17	11148641	31549	3.058	1.757	0.658	3	1.566 67% 2.685
18R2	18	11148751	31547	4.453	2.801	1.035	4	1.662 62% 2.719
19R2	62	11148741	31546	4.572	2.742	1.021	5	1.608 65% 2.670
21R1	83	11148791	31559	1.678	0.566	0.228	6	1.461 70% 2.493
20R2	31	11148771	31560	1.850	1.259	0.401	4	1.870 60% 3.162
20R2	18	11148781	31561	2.963	1.798	0.586	1	1.679 68% 3.057
22R1	37	11148841	31556	5.331	2.709	1.070	1	1.448 72% 2.545
23R1	25	11148851	31557	5.687	2.815	1.063	2	1.450 74% 2.668
25R1	22	11148861	31558	7.097	6.564	2.887	2	1.567 16% 2.274
28R3	11	11148911	31554	7.115	4.772	1.745	6	1.746 58% 2.746
28R1	97	11148901	31555	7.303	4.787	1.761	5	1.712 60% 2.730
20R1	109/109	11149221	29264	8.077				
20R3	26/28	11149231	29265	8.783				

1.567 16% 2.274