

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

Exp. 396

Site/Hole

1566A

samples soaked for 12 hrs at 1st 12 hrs

✓ in oven since Aug. 19, 2009
measured Aug. 21.
Comments

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	
4R1	88/ 90	PMAG/MAD CuBe	0	18.702	17.173	19.87 20.05 19.99	5.84581 (2)	2.527 20.97% 2.926
4R2	97/ 99	PMAG/MAD CuBe 11060921	0	20.93	20.113	1.997 1.993 1.990	6.67553 (5)	2.922 10.75% 2.926
4R2	133/ 135	MAD CuBe 11060931	0	19.685	18.345	2.02 2.00 2.00	6.67415 (1)	no PMAG 2.673 17.73% 3.029
5R1	146/ 148	MAD CuBe 11060971	0	19.209	17.201	1.995 2.00 2.00	6.67374 (4)	no PMAG 2.515 26.6% 3.055
5R2	104/ 106	PMAG/MAD CuBe 11061441	0	19.284	17.914	2.02 2.05 1.99	6.16274 (3)	2.562 18.42% 2.909
5R1	125/ 127	PMAG/MAD CuBe 11060961	0	22.275	21.8	2.02 1.99 2.01	7.43322 (2)	2.817 6.08% 2.933
6R1	48/ 50	PMAG/MAD CuBe 11061471	0	9.335	6.587	—	10.67469 (4)	No caliper measurements possible sample broke during up, put to vial 128563 1.86 55.81% 2.922
6R2	71/ 73	PMAG/MAD CuBe 11061711	0	28.564	27.347	—	10.67374 (4)	The sample fell apart during soaking stage, 2.045 48.98% 2.925
6R2	116/ 117	WDGe 11061741	0	7.536	6.823	—	10.67374 (4)	2.482 23.76% 2.936
8R1	102/ 104	CuBe 11061721	0	28.569	5.739	—	2.012 (5)	sample in bag not cut, broken while out, measured in vial 1.816 57.03% 2.866
8R2	112/ 114	PMAG CuBe 11061731	0	17.653	14.973	2.028 1.953 1.995	4.67302 (4)	2.335 35.88% 3.068
7R1	99/ 100	CuBe 1106691	0	19.078	17.096	2.015 2.014 2.	5.76604 (3)	2.449 25.82% 3.0

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Exp. 396 PMMC / MAD samples Site/Hole 1566A bulk per. 1% grain

samples got mixed

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
7R2	24 25		11067151	19,890	19.104	6.505	5	Samples are back from PMMC sanded for 12 hr. 16:00 on Aug. 19 baked for 24 hr. starting 10:50 am Aug. 20 measured Aug 21
7R3	54 55		11067181	21,523	20.849	7.263	4	Wet dries: 1.993 x 1.985 x 2.008 cm ³ 2.026 x 2.005 x 2.024
8R1	17 18	49 42	11067221	21,905	21.528	7.454	5	1.998 x 1.990 x 1.991 2.006 x 2.000 x 2.004
8R1	62 62		11067211	20,350	19.121 20.527	6.551	4	2.618 16% 2.921
8R1	62 62		11067231	19,748	18.237	6.106	6	1.988 x 1.996 x 1.992 2.595 20.09% 2.990
8R2	118 120		11067331	21,092 20.653	20.055	6.648	1	2.012 x 2.008 x 2.015
9R2	56 58		11067411	22,770	22.118	7.545	2	2.746 13.66% 3.019
10R2	35 37		11067511	23,116	22.808	7.846	3	2.015 x 2.015 x 1.997 2.779 8.05% 2.932 sample broke during baking. Not pieces placed into pycnometer = 2.835 3.82% 2.9074

Samples for 8R1 were swapped

Wet mass for 8R1 $\frac{40}{42}$ came out higher \Rightarrow the sample was measured instead of 8R $\frac{15}{17}$. The samples are triple checked and put in the correct containers

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46 samples soaked
Aug. 20, 19:40
+ 2 unsoaked ones in vials
Baked since 20:00 Aug. 21

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
4R3	0-2	OTH 11075911	0	7.341	7.108	2.375		2.816 9.04% 2.994
4R1	$\frac{140}{142}$	OTHR 11075921	0	18.349	17.025	5.818		2.571 18.78 2.929
8R3	$\frac{77}{80}$	OTHR 11088381	0	11.557	10.916	3.553		2.757 15.47 3.074
9R1	$\frac{83}{86}$	OTHR 11066391	0	7.202	6.744	2.230	6	2.712 16.31% 3.040
5R2	$\frac{57}{63}$	OTHR 11060891	0	16.775	13.368	4.693		2.075 42.64% 2.856
9R3	$\frac{66}{68}$	OTHR 11067141	0	17.067	14.458	5.222	4	2.183 33.77% 2.773
9R3	$\frac{140}{142}$	OTHR 11067281	0	15.25	13.587	4.415	5	2.512 27.72% 3.083
9R4	$\frac{35}{37}$	OTHR 11075901	28583	4.404	4.426	1.512	3	2.630 15.73% 2.929
10R1	$\frac{6}{12}$	OTHR 11075891	0	7.812	7.630	2.676 2.676	5	2.734 6.45% 2.852
11R1	126	OTHR 11067421	28584	8.508	6.226	2.377	4	sample did not survive soaking!! vial drained while upside down, upper end top with the paper towel. 1.83 4.67 2.65
12R1	66	OTHR 11067461	28573	5.695	3.776	1.423	6	
12R1	106	OTHR 11067471	28585	3.816	2.640	0.903	3	

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41566A

[illegible]

Soaking until 16:50 Aug 20
baking since Aug 20, 21:48

1566A

Soaking until 16:50 Aug 20
baking since Aug 20, 21:48

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

Exp. 396 PMAG/MAD samples Site/Hole 1566 A

Sorted since 16:30 Aug. 19
 Wet mass + volume done
 Weighing since 11:00 Aug. 20
 ✓ dry mass / volume done Aug 21

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³ dry	Pycnom. cell #	Comments
14 R1	14		28565	7.301	5.381	1.775	3	1.980 52.7% 3.046 bulk 66.63% grain
12 R3	89		0	18.214	16.547	7.82	3	2.515 23.36% 2.970 bulk 1.7309 grain 2.968 por. 63.65%
13 R1	69		28567	6.724	4.284	1.453	1	1.693 66.61% 3.021
13 R3	66		28566	9.251	5.655	1.883	2	1.693 66.61% 3.021
14 R1	23	sumple main correct	28568	2.962	2.037	0.748	6	WPCONG SAMPLE 1566A 14 R1 PMAG 1.775 56.09% 2.734
14 R2	12		next					
13 R2	96		0	19.478	17.746	7.96	4	2.547 22.92% 2.999 bubbles when soaking =
15 R1	59		0	14.94	11.754	3.941	5	2.100 45% 45.33 2.993
15 R1	46		next					PMAG
16 R1	40		0	20.887	19.481	8.00	6	2.683 15.83% 2.994
16 R2	105		0	20.00	18.686	6.334	1	✓ 2.601 18.26% 2.953
17 R2	22			15.065	14.511	7.96	2	1.945 46.44% 2.744
17 R2	141			17.857	15.599	7.39	4	2.333 29.86% 2.891
17 R4	17			18.725	16.854	7.9	5	2.488 25.16% 2.980

done & checked

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

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Site/Hole 1566A

August 20, 2021
✓ soaking since 18:45 on Aug. 20.
August 21 14:45 baking tray 2

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnom. cell #	Comments
18R2	64	wage 11075521	28562	6.256	4.624	1.632	1	bulk pop. grain
18R3	125	othr 11075561	28574	4.269	3.215	0.997	2	2.086 52.12% 3.242
19R1	5	othr 11075571	28575	4.087	2.838	0.985	4	1.834 56.72% 2.895
19R2	140	othr 11075661	28577	10.600	10.157	3.351	5	2.795 41.82 3.033
19R2	42	othr 11075631	28576	2.799	1.983	0.686	6	1.766 60.56 2.907
21R2	89	wage 11075731	28570	6.434	5.217	1.743	1	2.178 41.68 3.002
21R3	137	cube 11075791	28571	9.029	7.245	2.406	2	2.159 43.17 3.021
22R2	136	cube 11075851	28572	5.642	4.490	1.504	3	2.128 43.98 2.995
21R2	5/7	cube 11075731	0.	14.904	11.324	3.877	5	no cat/pic meas. close, no VP too fragile sample 2.003 48.66 2.932
22R2	86/88	cube 11075821	0.	20.648	19.189	2.008	6	no 2 marked 20, 20.14, 20.08 2.634 18.83% 3.007
22R3	92/94	cube 11075861	0.	15.484	11.973	4.079	1	missing edge 2.044 46.91 2.946
23R1	32/34	cube 11075881	0.	16.535	14.261	2.005 20.024 19.96	2	vesic. basalt 2.432 28.49 2.993

Wet VP
on measured
these

no VP

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

Bathy. 22 Aug. 0900am

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Site/Hole

U1566 A

✓ soak up shale 7 am Aug 21
✓ wet mats measured

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Samples from PMAG Comments
18R1	$\frac{72}{74}$	cube 11075491	0	21.347	20.873	7.440	6	2.698 6.003 2.806 pet. grain
19R3	$\frac{116}{118}$	cube 11075861	0	17.740	16.271	5.544	5	2.532 21% 2.938
19R1	$\frac{105}{107}$	cube 11075601	0	16.381	12.664	4.2	4	2.073 48% 3.027
20R1	$\frac{115}{117}$	cube 11075691	0	18.941	18.300	6.083	3	2.818 10% 3.010 cube compacted with 10 percent despite obvious vesicles. Resonance for 24 hr, re-measured wet Aug. 25 2.712 3.012
20R3	$\frac{94}{96}$	cube 11075721	0	18.015 17.014	17.02	5.643	1	2.403 28% 2.949
21R3	$\frac{69}{71}$	cube 11075781	0	18.242	16.111	5.471	1	2.403 28% 2.949
22R2	$\frac{43}{45}$	cube 11075801	0	21.305	20.415	6.753	5	2.789 12% 3.025
13X3	$\frac{78}{90}$	CYL 11088211	28636	9.626	4.382	1.676		1.396 77% 2.636
14X4	$\frac{71}{73}$	CYL 11088241	28637	10.930	4.964	1.899	2	1.394 77% 2.635
15X2	$\frac{35}{37}$	CYL 11088251	28638	10.046	4.425			1.374 78% 2.599
16X5	$\frac{83}{85}$	CYL 11088291	28639	8.112	3.713			1.390 76% 2.564
17X5	$\frac{71}{73}$	CYL 11088311	28640	6.296	2.820	1.045	6	1.397 78% 2.726

U1567A

U1566A

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

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Site/Hole

U1566A

Aug 21, 21
 Sourced 19:00 on Aug. 21
 ✓ Sourced
 ✓ measured dry mass/volume
 Aug 23

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
26R1	$\frac{75}{77}$	cube 11076291	0	15.628	12.922	4.442	2	
27R1	$\frac{42}{44}$	cube 11076041	0	16.227	14.672	4.969	4	
28R3	$\frac{67}{69}$	cube 11076201	0	23.829	23.182	7.849	5	
29R2	$\frac{40}{42}$	cube 11076391	0	16.83	14.882	5.512	6	
29R2	$\frac{140}{142}$	cube 11076411	0	18.486	17.820	6.506 12.637	1	PMAS 29R2 140/142
29R2	$\frac{140}{142}$	cube 11076401	0	18.202	17.157	6.367	6	29R2 93/95
32R3	$\frac{99}{101}$	cube 11076641	0	13.206	12.527	4.549	3	
33R1	$\frac{30}{32}$	cube 11076621	0	15.851	13.631	5.039	2	
25R2	80	28582	OTHER 11076251	6.429	5.800	1.891	5	
24R1	32	28581	28619	3.031	2.097			
31R1	65	28590	28623	2.369	1.899	0.736		
32R2	$\frac{133}{135}$	28591	OTHER 11076581	6.906	5.956	2.166	6	

wet mass measured by Peter, see other sheet

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

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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
29R1	26	cube 11076371	28588 <u>28620</u>	2.607	1.881	0.677		
27R4	7	WDG 11076181	28580	10.056	9.592	2.337 3.217	2	
29R1	23	cube 11076381	28589	3.313	2.436	0.872	4	NOT A CUBE!
26R2	130	other 11076191	28587	5.930	5.141	1.918		NOT A CUBE!
28R2	59	cube 11076321	28579	8.223 5.930	7.003	2.337	1	
26R1	0	other 11076281	28586	5.806	5.077	1.873		
25R1	$\frac{43}{45}$	cube 11076221	0	22.141	21.457	7.324	1	
26R3	116 118	cube 11076331	0	18.568	17.464	5.939	2	
27R2	$\frac{88}{90}$	cube 11076061	0	17.291	15.107	5.382	3	
29R2	$\frac{93}{95}$	cube 11076401	0	18.202	previous		page	

soaking since 23:30
Aug. 21



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

boiling Since 9:30 AM on 22 Aug

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Site/Hole U1566A (1566A??)

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
38R 3	99	Cube 11076641		13,206		X 1,909 1,907 2,1978		
33R 1	36	Cube 11076621		15,584		1,987 1,984 1,759		fragile!
27R 1	42	Cube 11076641		16,207		2,000 2,142 2,001		
28R 3	67	Cube 11076201		23,829		1,989 1,981 1,994		
29R 2	40	Cube 11076391		16,830	206037	X		
29R 2	140	Cube 11076411		18,486	1,899	X		
26R 1	75	11076291		15,628		X 1,968 1,994 1,991		

Tray X,