

Exp. EXP 396

Site/Hole

1565A

Aug. 19

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
4R2 1565A	102 104	PM46/MAD cube	①	Aug. 15 19.422	18.598	6.856	P	dry mass/volume were measured after 24 hr in oven
				19.423		7.82 ← P		
				19.391				
bulk P = 2.536 g/cc				per.	10.496 %			grain P = 2.714 g/cc
P _g = 2.556 g/cc				per.	10.064			P _g = 2.728 g/cc
1565B 5R1				Aug. 15 19.111	18.239	6.700	P	
				19.139		4.77 ← P		volume measured by Peter with caliper
bulk P = 2.523 g/cc				19.120		4.77	I	Irina measured wet mass, but not volume
P _g = 2.520 g/cc				per.	11.766			P _{grain} = 2.723 g/cc
				per.	11.613			P _{grain} = 2.716 g/cc

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

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NB! Samples were soaked again in Aug. 26, measured and barrel. Site/Hole 15654

new values (Aug. 28) in blue

Aug. 19

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
3R1	52/54	PMAG/MAD cube 11057421	0	Aug. 15 19.562	18.83	6.921	P	dry values after being barrel
				19.532	pycnometer 7.354	7.848 cm ³	P	measured by pycnometer after soaking for 12 hr., wet mass Aug. 19
				19.521			I)	volume measured by caliper 10 meas. for each pile
					volume by Peter → 7.85 cm ³	7.85 cm ³	P)	volume measured by Peter with caliper
bulk							grain	
P = 2	5655 g/cc			per. =	9.190			= 2.722 g/cc
Pg = 2	587 g/cc			per. =	8.887		Pg	= 2.739 g/cc
4R1	55/57	PMAG/MAD cube 1157481	0	Aug. 15 19.191	18.322	6.717	P	
				19.168		7.840	P	Volume measured by Peter with Caliper
bulk				19.138		7.763	I	Volume measured by Linna with Caliper (10 mls. per side)
P = 2	5418 g/cc			per. =	10.967		grain	
Pg = 2	559			per. =	10.406		Pg	= 2.737 g/cc

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

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(Aug. 15)

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnomet. cell #	Comments
2R1	61		28543	14.419	10.008	10.008 3.672	1	I/5M Over in 0820 P=1.774 g/cc por. 55%
3R 1	52/54	PMAG/MAD cube 11657471	0	19.562	18.830	6.921 6.898	Peter	I/Y, granite P=2.5309 g/cc por. 9.89% (?) 2.93
4R 1	55/57	PMAG/MAD cube 1157481	0	19.194				I/Y, granite
4R2	102- 104	PMAG/MAD cube 11057524	0	19.422				I/Y, granite
3R1	52/54	as above	0		18.830	6.921	3	granite, was measured wet, backed in oven for 24h, re-measured dry
4R1	55/57	as above	0		18.322	6.717	Peter	S=2.55 g/cc por. 9.68% grain 2.72 g/cc this high porosity does not make sense
4R2	102/104	as above	0		18.598	6.856	Peter	sample sealed again to re-measure wet mass.
5R1					18.239	6.700	Peter	and dry mass, the
The problem is that in between wet mass								
sample goes for PMAG means remnants, where the edges chip								
a lot due to extensive rotation in different directions								
=> wet mass to be remeasured. Samples soaked again for								
12 hours.								

Wrong!

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Site/Hole 1566A

[illegible]

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

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Site/Hole 1565 B

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³	Pycnom. cell #	Comments
1R/41	60		28544	17.152	11.050	4.039 4.039	2	Pb P = 1.6958 g/cc per. 61% Oven in 0820
1R/2	60		28545	17.463	11.953	4.309	4	Pb P = 1.78 g/cc per. 56.93%
1R3	43		28546	7803	5.177	4.898	5	Pb P = 1.73 g/cc per. 58.9%
1R4	43		28547	14.601	9.836	3.63	6	Pb P = 1.74 g/cc per. 57.58%
1R5	43		28548	13.568 14.0	8.382	3.021	1	Pb P = 1.658 g/cc per. 64.12%
2R1	118		28549	5.973	3.454	1.27	2	SM/PB P = 1.58 per. 67.47%
2R2	98		28550	14.959	12.812	4.689	3	SM/PB P = 1.69 g/cc per. 61.27%
2R3	58		28551	18.402	11.758	4.268	5	SM/PB P = 1.69 g/cc per. 61.78%
3R1	65		28552	18.729	11.795	4.335	6	SM/PB P = 1.67 g/cc per. 62.44%
3R2	103		28553	20.963	14.398	5.257	1	SM/PB P = 1.78 g/cc per. 56.33%
3R3	84		28554	14.645	8.546	3.118	2	SM/PB P = 1.59 g/cc per. 67.16%
5R1	17/19	Cube 1105754	0	19.111				I/y, granite P = 2.523 g/cc (cube) P = 2.723 g/cc (granite) per. 41.76%

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

Exp.

999

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Kelger

Site/Hole

"dry" records for Kelger granites from U1565A and 1565B

"dry"
Aug. 25
"wet"
Aug. 26
"best"
Aug. 28 (54)

Core/Section,	Offset	Text ID example: SHLF 3215071	container #	Mass Wet (g)	Mass dry (g)	Sample volume cm ³ 10.05	Pycnomet. cell #	Comments
3H1	Aug. 25	"dry" measurement	19.136	18.869	7.354	1	Samples were soaked on Aug 16, then measured (see previous sheet) and left in their containers. On Aug. 25, they were re-weighed (mass dry), and soaked again for wet measurement to check if we will see the difference	
4H1	Aug. 19 (after soaked 24h)	rept in container's, not measured	19.136	18.869	7.180	2		
4H2	"dry" was measured 3 times in a row to test the measurement uncertainty ±0.01		19.407	19.312	7.277	3		
5R1			19.101	19.006	7.247	4		
				18.231	7.336			
On average, after soaking for a day, the mass increased by 0.089g, the volume went up by 0.14 cc (averaged value)								

1565B

1565A

1565A

1565A