

BP Deepwater Horizon

10/13/2010

Foam Slurry: 16.65ppg to 14.5ppg

Test #1: Prepared using API/ISO

1. Check and record the volume of empty plastic cube. 173.86 gms of tap water filled to the t
2. Foam slurry with a **multi** blade blender. 15sec@12000rpm
3. Check density directly from the blender.

	Foam weight	Density ppg
Top:	266.52	12.77
Middle:	279.36	13.38
Bottom:	293.5	14.06

Notes: After mixing the base slurry settling was notice in container. Settling was also notice

Test #2: Adjusted base slurry volume to mix and foam in the same blender jar due to settlin

1. Check and record the volume of empty plastic cube. 174.13 gms of tap water filled to the t
2. Foam slurry with a **single** blade blender. 15 sec@12000rpm
3. Check density directly from the blender.

	Foam weight	Density ppg
Top:	290.35	13.89
Middle:	270.62	12.95
Bottom:	295.97	14.16

Notes: After mixing the base slurry settling was notice in container. Settling was also notice

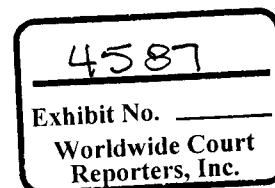
Test #3: Prepared using API/ISO (Repeat Test #1)

1. Foam slurry with **multi** blade blender. 15 sec@ 12000rpm
2. Pour foam stability (250ml graduated) and set foam stability(PVC bomb).
3. Check density(250ml GC.). After 2 hours remove small protions with a 30ml syringe and Tye

	weight	Density ppg
Top:	12.28	10.23
Middle:	14.66	12.21
Bottom:	16.01	13.34

4. Pour foam set stability in PVC bomb

Notes: After mixing the base slurry settling was notice in container. Settling was also notice



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Foam Slurry: 16.65ppg to 14.5ppg

Test #4. Condition Base slurry for 20 min @ 110°F (As

1. Check and record the volume of empty plastic cube.
2. Foam slurry with a multi blade blender. 15sec@1200
3. Check foam density of mix.

	Foam weight	Density ppg
Plastic cube :	290.43	13.82

4. Check foam density from Bottom of foam Blender jar

	Foam weight	Density ppg
Plastic cube :	296.67	14.13

5. Check S.G. on base cement slurry with Pressurize m
6. Foam stability after 2 hours

	Foam weight	Density ppg
Top :	16.41	13.67
Middle :	16.97	14.14
Bottom :	17.3	14.41

7. Pour foam set stability in PVC bomb

Notes: After mixing the base slurry settling was notice

Test #5. Foam Slurry: 16.65 to 14.9 API Offset to achie

1. Check and record the volume of empty plastic cube.
2. Foam slurry with a multi blade blender. 15sec@1200
3. Check density.

	Foam weight	Density ppg
Plastic cube :	314.03	14.95

6. Foam stability after 2 hours

	Foam weight	Density ppg
Top :	16.45	13.70
Middle :	17.07	14.22
Bottom :	17.98	14.98

7. Pour foam set stability in PVC bomb

Notes: After mixing the base slurry settling was notice

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Foam Slurry: 16.65ppg to 14.9ppg

Test #6. Condition base slurry for 3 hours @ 135°F

1. Foam slurry with multi blade blender. 15 sec @ 1
1. Check and record the volume of empty plastic cu
3. Check density in plastic cube

	Foam weight	Density ppg
Plastic cube:	309.5	14.66

4. Foam stability after 2 hours remove small protio

	Foam weight	Density ppg
Top:	19.03	15.85
Middle:	19.31	16.09
Bottom:	19.57	16.30

5. Pour foam set stability in PVC bomb

Notes: After mixing the base slurry settling was nc

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Test #7. 2nd Rerun Condition base slurry for 3 h

1. Foam slurry with **multi** blade blender. 15 sec
2. Check and record the volume of empty plastic
3. Check density in plastic cube

	Foam weight	Density ppg
Plastic cube:	310.72	14.71

4. Foam stability after 2 hours remove small portion

	Foam weight	Density ppg
Top:	18	14.99
Middle:	19.34	16.11
Bottom:	19.72	16.43

5. Pour foam set stability in PVC bomb

Notes: After mixing the base slurry settling was

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Test #8. Condition base slurry for 3 hours @ 135°

1. Foam slurry with **multi** blade blender. 15 sec @ 1
2. Check and record the volume of empty plastic c
3. Check density in plastic cube

	Foam weight	Density ppg
Plastic cube:	295.33	14.04

4. Foam stability after 2 hours remove small protic

	Foam weight	Density ppg
Top:	11.77	9.80
Middle:	19.01	15.84
Bottom:	20.21	16.83

5. Pour foam set stability in PVC bomb

Notes: After mixing the base slurry settling was n
Foam stability test showed extreme settling after

Test #9. 3rd Run Condition base slurry fo

1. Foam slurry with **multi** blade blender. 15 s
2. Check and record the volume of empty pl
3. Check density in plastic cube

	Foam weight	Density ppg
Plastic cube:	309.17	14.64

4. Foam stability after 2 hours remove small

	Foam weight	Density ppg
Top:	18.91	15.75
Middle:	19.51	16.25
Bottom:	19.82	16.51

5. Pour foam set stability in PVC bomb

Notes: After mixing the base slurry settling