Schlumberger

Laboratory Cement Test Report
17.5ppg KOP Field Blend
Weston District Laboratory
Service Order Number 2169473

						Signatures
Fluid No	**: WESC15-214KF**	Client	: **Northeast**	Location / Rig	: **Patterson 254**	
Date	: Sep-1-2015	Well Name	: **MIP 3H**	Field	:	C. Johnson

Job Type	**KOP**	Depth	**6100.0 ft**	TVD	**6100.0 ft**
BHST	**129 degF**	BHCT	**114 degF**	BHP	**5540 psi**
Starting Temp.	80 degF	Time to Temp.	00:30 hr:mn	Heating Rate	1.13 degF/min
Starting Pressure	500 psi	Time to Pressure	00:30 hr:mn	Schedule	( )

Composition

Slurry Density	**17.50 lb/gal**	**Yield**	**0.94 ft3/sk**	**Mix Fluid**	**3.457 gal/sk**
Solid Vol. Fraction	**50.8 %**	Porosity	49.2 %	Slurry type	**Conventional**

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
D909 - API H		**94 lb of CEMENT**	Blend	**197.27 lb/ft3**	01-06-15/14-19
Fresh water	**3.397 gal/sk**		Base Fluid		
D080	**0.030 gal/sk**		Dispersant		TU4D0326A0
D801	**0.030 gal/sk**		Retarder		11E-24

Rheology R1B1F1 S/N: 971

Temperature	80 degF			114 degF		
(rpm)	Up (deg)	Down (deg)	Average (deg)	Up (deg)	Down (deg)	Average (deg)
300	**151.0**	**151.0**	**151.0**	**179.0**	**179.0**	**179.0**
200	**106.0**	**108.0**	**107.0**	**143.0**	**137.0**	**140.0**
100	**60.0**	**62.0**	**61.0**	**94.0**	**93.0**	**93.5**
60	**41.0**	**42.0**	**41.5**	**74.0**	**74.0**	**74.0**
30	**26.0**	**26.0**	**26.0**	**52.0**	**57.0**	**54.5**
6	**16.0**	**14.0**	**15.0**	**32.0**	**30.0**	**31.0**
3	**13.0**	**11.0**	**12.0**	**25.0**	**23.0**	**24.0**

10 sec Gel	13 deg - 13.88 lbf/100ft2	21 deg - 22.41 lbf/100ft2
10 min Gel	61 deg - 65.11 lbf/100ft2	30 deg - 32.02 lbf/100ft2
Rheo. computed	Viscosity : 139.098 cP Yield Point : 13.18 lbf/100ft2	Viscosity : 137.382 cP Yield Point : 45.24 lbf/100ft2

Thickening Time S/N: 450
Set Conditions - Cement Set Hard

Consistency	Time	Temp
30 Bc	**01:12 hr:mn**	**114 degF**
50 Bc	**04:10 hr:mn**	**114 degF**
70 Bc	**04:17 hr:mn**	**114 degF**
100 Bc	**04:29 hr:mn**	**114 degF**

Free Fluid

0.0 mL/100mL (**0.0%**) in 2 hrs
At 114 degF and 0 deg incl
Conditioned at Atmos Press for 30 Minutes @ 114 degF
Sedimentation : **None**

Comments

Meets Testing Requirements
Slurry Density Verified by Pressurized Fluid Balance: 17.50 lb/gal (S/N: 13-729)
Rheologies Conditioned at Atmospheric Pressure for 30 Minutes after reaching 114 degF
Passed 20 Minute Go-No-Go
AS 34753 + 35871
Silo 30167

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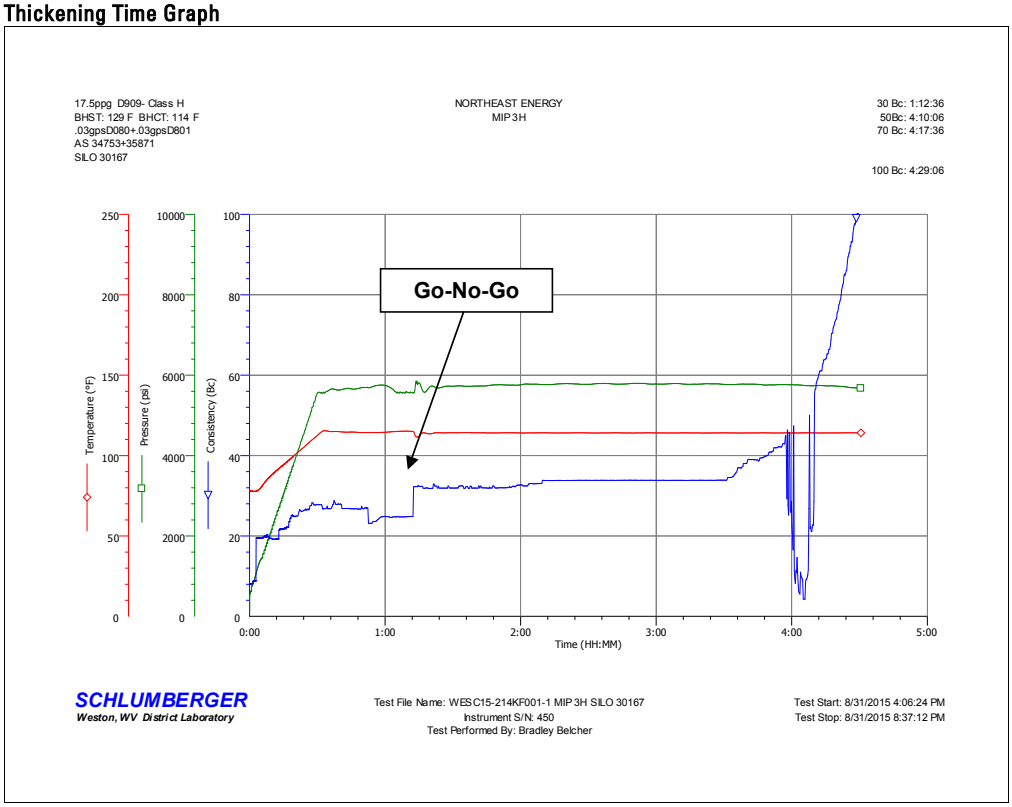
Thickening Time Graph



9/1/2015

X

Bradley Belcher
LT1
Signed by: Bradley Belcher 712914