

HALLIBURTON

Cementing Gulf of Mexico, Broussard

LAB RESULTS - Primary

Job Inf	ormatio	n										
Request/Slurry 73909/2			Rig Name		TRANSOCEAN HORIZON			ON Date April		April 12th	ril 12th 2010	
Submitted By Jesse Gagliano		no	Job Type	9	9 7/8" X 7" Prod Casing			Bulk	Plant	Fourchon-C-Port I, La, US		
Customer BP			Location	N	Mississippi Cny		Well		Mississippi Canyon 252 OCS-G-32306 Macondo #1			
Well In	formatio	n								Ti-		
Casing/Li	ner Size	7"		Depth MD	1	8360 ft			BHST	7	210 F	
Hole Size		9 7/8"		Depth TVI) 1	8360 ft			BHC	Г	135 F	
Drilling	Fluid I	nformatio	n									
Mud Com	pany	MI	Тур	pe SO	BM	De	nsity		14,1 [PPG	PV/YP	
Cemen	t Inform	ation - Pi	rimary D	esign								
Conc	<u>UOM</u>	Cement/A	dditive	Sample Type	Sampl	e Date	Lot N	lo.		Ceme	nt Proper	ties
								SI	urry Densi	ty	16.741	PPG
								SI	urry Yield		1.37	FT3
100.00	% BWOC	Lafarge Cl	ass H	Rig	Apr 05,	2010	Tank 8	# W	ater Requi	irement	4.93	GPS
	~ =====						•	To	tal Mix Flu	ıid	5.02	GPS
0.07	% BWOC	EZ-FLO		Rig	Apr 05	, 2010		Fo	am Densi	ty	14.496	PPG
0.25	% BWOC	D-Air 3000)	Rig	Apr 05,	2010		Fo	am Qualit	У	12.98	%
1.88	lb/sk	KCI (Potas Chloride)		Rig	Apr 05	2010		W	ater Sourc	e	Fresh W	<i>l</i> ater
20.00	% BWOC	SSA-1 (Sil	ica Flour) -	Rig	Apr 05,	, 2010		W	ater Chlori	ide	N/A	ppm
15.00	% BWOC	SSA-2 (10 PB	0 Mesh) -	Rig	Apr 05,	2010						
0.20	% BWOC	SA-541		Rig	Apr 05	2010						
0.11	gps	ZoneSeala	nt 2000	Lab	Mar 15	, 2009						
0.09	gps	SCR-100L		Lab	Oct 22,	2009	6264					
4.93	gps	Fresh Wat	er	Lab	Apr 12,	2010	FRE					
Operati	ion Test	Results	Request	t ID 73909	2				and a			
Thicker	ning Tin	ne, Reque	est Test	ID:812338						H		
Temp (°F)) Pre	ssure (psi)	Reached i	in Start B	C 3	0 Bc (hh	:mm)	40 Bc	(hh:mm)	50 Bc	(hh:mm)	70 Bc (hh:mm)
135	14	458	83	14	C	07:25		07:34		07:36		07:37
Mud Ba	alance D	ensity. R	equest	Test ID:81	1529							
Density (1000					
/ (FF3/											

Mixability (0 - 5) - 0 is not mixable, Request Test ID:811524

Mixability rating (0 - 5)

4

from part 1

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by to provide a supervision to the same		Committee of the Commit			to the Company of the Company of the Agent Agency (Company)	
IIOA	^	Chana an audin	D	T4	ID-044FOO	
1111.44	L-Omn	Strength	Reduest	IPST	ID:811522	

End Temp (°F) Pressure (psi) 50 psi (hh:mm) 500 psi (hh:mm) 12 hr CS (psi) 24 hr CS (psi) 48 hr CS (psi) 210 14,458 08:12 08:40 2,301 2,966 3,099

Circulate before pouring C.S. for 3 Hrs

Onomation.	Tool Bear	He Bearings	ID 7200014
	Test Resu	Its Request	10 / 3909/1

Crush Compressive Strength, Request Test ID:806069

Curing Temp Time 1 (hrs) Strength 1 Time 2 (hrs) Time 3 (hrs) Strength 3 Foam quality (°F) 180 0 24 0 48 1,590 12 0 Condition for 1.5 hrs

FYSA Viscosity Profile & Gel Strength, Request Test ID:806074

Test Temp (°F)

80

600=14, 300=7, 200=5, 100=3, 60=1, 30=1, 6=1, 3=1.... 6D=1, 3D=1

Non API Rheology, Request Test ID:806075

Test temp (°F)	600	300	200	100	60	30	20	10	6	3
80	180	84	56	28	26	8	6	4	2	2

Non API Rheology, Request Test ID:806076

		9,,,,,	4000								
Test temp (°F)	600	300	200	100	60	30	20	10	6	3	
135	130	56	40	20	12	8	6	4	4	2	

Foam Mix and Stability, Request Test ID:813603

		201000	
Time to Foam [Sec]	SG top	SG bot.	Conditioning time (hrs:min)
8	1.8	1.8	03:00

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