

Date:

05-May, 2013

Page:

1 of 1

Reverse Phase Extraction (RPE) Method for Detection of Oil Contamination in Non-Aqueous Drilling Fluids (NAF)

		RPE Analy	tical Report			
*		-	of Analysis			
Operator: Perenco		Area and Block:		Caju Well		
OCS-G Number: Offshore Brazil		Rig Name:		Diamond – Ocean Star		
Collection Date: 05-May, 2013		Collection Time:		12:00 hrs		
Analysis Date:			Analysis Time:		12:00 hrs	
Analyst:	Jason	Brooks Permit Number:		ber:		
	Me	thod Reference: Append	lix 6 to Subpa	art A of I	Part 435	
Sample ID		Sample Results		Yes	No	Result (Pass/Fail)
Mud Sample 1		Mud Sample 1 fluoresces equal to or greater than the positive control?			Х	PASS
Mud Sample 2		Mud Sample 2 fluoresces equal to or greater than the positive control?			Х	PASS
		Does Mud Sample 1 result agree with Mud Sample 2 result?		Х		PASS
Results above are	acceptab	le if Mud Sample fluoresces les Sam	ss than positive	control, ar	nd Mud Sa	ample 1 agrees with Mud
		Quality Control R	Results	Yes	No	Acceptable? (Yes/No)
		Does Reagent Blank (RB) fluoresce?			Х	YES
		Mud Sample fluoresces less than positive control?		Х		YES
		Mud Sample 1 fluoresces equal to or greater than the positive control?			Х	YES
		Mud Sample 2 fluoresces equal to or greater than the positive control?			Х	YES
		Quality control results are acc				
Comments: 10.2ppg R	Rheliant m	ud. Sample taken on last circulati	on of 12 1/4" x 14	¾" (HO) se		
Analyst Signature: Sam July		Date:		05-05-13		



Date:

05-May, 2013

Page:

1 of 1

Reverse Phase Extraction (RPE) Method for Detection of Oil Contamination in Non-Aqueous Drilling Fluids (NAF)

		rige	116 1				
		RPE Analy	tical Report				
		Certificate	of Analysis				
Operator: Perenco		Area and Block:		Caju Well			
OCS-G Number: Offshore Brazil		re Brazil	Rig Name:		Diamond – Ocean Star		
Collection Date: 16-May, 2013		Collection Time:		19:00 hrs			
Analysis Date:	Analysis Date: 16-May, 2013		Analysis Time:		19:00 hrs		
Analyst:	Jody L	ane	Permit Number:				
	Me	thod Reference: Append	ix 6 to Subp	art A of	Part 43	5	
Sample ID		Sample Results		Yes	No	Result (Pass/Fail)	
Mud Sample 1		Mud Sample 1 fluoresces equal to or greater than the positive control?			Х	PASS	
Mud Sample 2		Mud Sample 2 fluoresces equal to or greater than the positive control?			Х	PASS	
		Does Mud Sample 1 result agree with Mud Sample 2 result?		Х		PASS	
Results above are	acceptab	le if Mud Sample fluoresces les Sam	ss than positive ple 2.	control, a	nd Mud S	Sample 1 agrees with Mud	
		Quality Control R	lesults	Yes	No	Acceptable? (Yes/No)	
		Does Reagent Blank (RB) fluoresce?			Х	YES	
		Mud Sample fluoresces less than positive control?		Х		YES	
		Mud Sample 1 fluoresces equal to or greater than the positive control?			Х	YES	
		Mud Sample 2 fluoresces equal to or greater than the positive control?			Х	YES	
					(V1)		
		Quality control results are acco	<u> </u>		res.		
Comments: 10.0ppg R Analyst Signature:	heliant mu	Quality control results are accord. Sample taken prior to starting	<u> </u>			16-05-13	



Date:

Page: 1 of 1

29-May, 2013

Reverse Phase Extraction (RPE) Method for Detection of Oil Contamination in Non-Aqueous Drilling Fluids (NAF)

		9	ire i				
		RPE Analy	tical Report				
		Certificate	of Analysis				
Operator:	perator: Perenco		Area and Block:		Caju Well		
OCS-G Number:	CS-G Number: Offshore Brazil		Rig Name:		Diamond – Ocean Star		
Collection Date:	ection Date: 29-May, 2013		Collection Time:		00:40	hrs	
Analysis Date:	Date: 29-May, 2013		Analysis Time:		00:45 hrs		
Analyst:	Gabriel		Permit Number:				
	Me	thod Reference: Append	ix 6 to Subpa	rt A of I	Part 435		
Sample ID)	Sample Results		Yes	No	Result (Pass/Fail)	
Mud Sample 1		Mud Sample 1 fluoresces equal to or greater than the positive control?			Х	PASS	
Mud Sample 2		Mud Sample 2 fluoresces equal to or greater than the positive control?			Х	PASS	
		Does Mud Sample 1 result agree with Mud Sample 2 result?		Х		PASS	
Results above are	acceptab	le if Mud Sample fluoresces les Sam	s than positive o	control, aı	nd Mud Sa	ample 1 agrees with Mud	
		Quality Control R	esults	Yes	No	Acceptable? (Yes/No)	
		Does Reagent Blank (RB) fluoresce?			Х	YES	
		Mud Sample fluoresces less than positive control?		Х		YES	
		Mud Sample 1 fluoresces equal to or greater than the positive control?			Х	YES	
		Mud Sample 2 fluoresces equal to or greater than the positive control?			Х	YES	
		Quality control results are acco	eptable if all ans	wers are '	'Yes".		
Comments: 12.9ppg F	Rheliant m	ud. Sample taken on the shakers	(before the degas	sser) – 6.5	% gas		
Analyst Signature: (4)		Brill O.W. Condrade		Date:	2	9-05-13	



Date:

29-May, 2013

Page:

1 of 1

Reverse Phase Extraction (RPE) Method for Detection of Oil Contamination in Non-Aqueous Drilling Fluids (NAF)

		Figu	ire 1				
		RPE Analy	tical Report				
		Certificate	of Analysis				
Operator:	Perenco		Area and Block:		Caju Well		
OCS-G Number:	Offshore Brazil		Rig Name:		Diamond – Ocean Star		
Collection Date:	29-May, 2013		Collection Time:		2:20 h	2:20 hrs	
Analysis Date:	29-May, 2013		Analysis Time:		2:25 h	2:25 hrs	
Analyst:	Gabrie	ol .	Permit Number:				
	Me	ethod Reference: Append	lix 6 to Subpa	rt A of I	Part 435	,	
Sample ID)	Sample Results		Yes	No	Result (Pass/Fail)	
Mud Sample 1		Mud Sample 1 fluoresces equal to or greater than the positive control?			Х	PASS	
Mud Sample 2		Mud Sample 2 fluoresces equal to or greater than the positive control?			Х	PASS	
		Does Mud Sample 1 result agree with Mud Sample 2 result?		Х		PASS	
Results above are	acceptab	le if Mud Sample fluoresces les Sam	ss than positive o	control, a	nd Mud S	ample 1 agrees with Mud	
		Quality Control Results		Yes	No	Acceptable? (Yes/No)	
		Does Reagent Blank (RB) fluoresce?			Х	YES	
		Mud Sample fluoresces less than positive control?		Х		YES	
		Mud Sample 1 fluoresces equal to or greater than the positive control?			Х	YES	
		Mud Sample 2 fluoresces equal than the positive control?	I to or greater		Х	YES	
		Quality control results are acco	eptable if all ans	wers are '	'Yes".		
		nud. Bottoms Up Sample taken or	the shakers (bef	ore the de			
Analyst Signature	alyst Signature: Coloniel Old Condrock			Date:	2	9-05-13	