ES Daily Operations Report

Report #	86	Date	25/6/2013	Report by	WILLIAM FREIRE/BRANDON BELAIRE

Contractor:	PERENCO	Well:	ES-M-472-CAJU 1
Report for:	RODDY/GLADISTON	Field:	BASIN ESPIRITO SANTO
Mud Engineers:	JODY/RODRIGO	Location:	OCEAN STAR SS-167
Rig Operator:	BRASDRILL	Activity:	PUXANDO RISER
Report for:	RODDY/GLADISTON	Type of Fluid:	RHELIANT

Bit Size w/ Washout (in)	Percent Washout (%)	Total Depth (m)	Vertical Depth (m)	Flow Rate (gpm)	Daily Drilled Depth (m)
8 1/2	10	5937	5937		

Shakers Report

Shaker # 1			
MW IN (ppg)		MW OUT (ppg)	
SCREEN	MESH	Daily Hours	Cum. Hours
Top			1114,5
Middle			1114,5
Bottom			1114,5

Shaker # 2			
MW IN (ppg)		MW OUT (ppg)	
SCREEN	MESH	Daily Hours	Cum. Hours
Top			1114,5
Middle			1114,5
Bottom			1114,5

Shaker # 3			
MW IN (ppg)		MW OUT (ppg)	
SCREEN	MESH	Daily Hours	Cum. Hours
Top			480
Middle			1114,5
Bottom			1109,5

Shaker # 4			
MW IN (ppg)		MW OUT (ppg)	
SCREEN	MESH	Daily Hours	Cum. Hours
Top			24
Middle			24
Bottom			24

Shaker # 5			
MW IN (ppg)		MW OUT (ppg)	
SCREEN	MESH	Daily Hours	Cum. Hours
Top			24
Middle			24
Bottom			24

Shaker # 6			
MW IN (ppg)		MW OUT (ppg)	
SCREEN	MESH	Daily Hours	Cum. Hours
Top			24
Middle			24
Bottom			24

Centrifuge Report

Centrifuge	# 1	#2
Flow IN (gpm)	30	30
Feed Location	TANK 5	TANK 5
MW IN (ppg)	10,5	10,1
Discharge Location	TANK 6	TANK 6
MW RETURN (ppg)	9,3	9,3
RETURN FLOW (gpm)	24	26
MW DISCHERGE (ppg)	15	15
DISCHARGE FLOW (gpm)	6	4
% Solids on Discharge	86,2	86,3
% Oil on Discharge	6,8	6,7
% Water on Discharge	7,1	7,0
Hours Operating	5	5

Fluids Properties

Mud Weight:	13,9	ppg
Funnel Viscosity:	68	s/q
Plastic Viscosity:	22	cp
Yeld Point:	19	lb/ft2
M. B. T.		
Chlorides:	35000	mg/l
% LGS:	4,2	
% HGS:	22	
% H_2O:	25	
% Oil:	0,75	
Drilling Hours:		
Tripping Hours:		
Other Activities:	24	

Retorts Report

	SCE #1	SCE #2	VERTI G 1	VERTI G 2	CENT 1	CENT 2
Time of Sampling					10:00	15:00
Empty Recipient Weight (g)					314	314
Empty Test Tube Weight (g)					37	37
Full Recipient Weight (g)					447	448
Sample Weight(g)					133	134
Full Test Tube Weight (g)					55	55
Liquids Weight(g)					18	18
Water Volume (ml) {weight (g)}					9	9
Oil Weight (g)					9	9
% Solids					86,17	86,27
% Water					7,07	7,01
% Oil					6,77	6,72

Waste Report

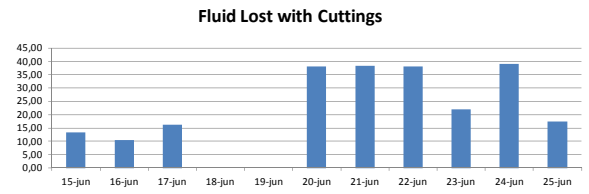
Cuttings Processed VERTI-G (bbl)		Cuttings Discharged VERTI-G (bbl)		Fluid Lost with Cuttings VERTI-G (bbl)		Fluid Recovered VERTI-G (bbl)	
Daily	Cumulated	Daily	Cumulated	Daily	Cumulated	Daily	Cumulated
	724		581		58,3		143

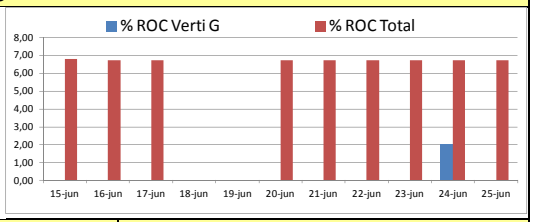
Fluid Processed CENTRIFUGES (bbl)		Cuttings Discharged CENTRIFUGES (bbl)		Fluid Lost with Cuttings CENTRIFUGES (bbl)		% ROC on Verti G (Daily Average)
Daily	Cumulated	Daily	Cumulated	Daily	Cumulated	
428,6	15268	64,8	1774	17,5	492,8	

Vacuum System Report

Fluid Volume Recovered (bbl)		Verti-G Hours Operating		Cuttings Discharged TOTAL (bbl)		Fluid Lost with Cuttings TOTAL (bbl)		Total % ROC-Verti G + Centrifuges (Daily Average)
Daily	Cumulated	Daily	Cumulated	Daily	Cumulated	Daily	Cumulated	
	96		1085	64,8	2355	17,5	551,1	6,75%

GRAPHICS





Rental Equipment & Service Charge

DETAIL AND COST (US$)	OPERATION	FULL PRICE	TOTAL
CUTTINGS DRYER SYSTEM (VERTI-G)	X	$2.777,93	$2.777,93
518 CENTRIFUGE	X	$441,33	$441,33
HI SIDE BLENDER		$374,78	

DWM Crew on the Rig

SOL. CONTROL SUP.	SOL. CONTROL OPERAT.
WILLIAM FREIRE	RICARDO PIZZATE
	LORRANT NAGIPE
SOL.CONTROL SUP.EX-PAT	
BRANDON BELAIRE	

Environmental Solutions Personnel

DETAIL AND COST (US$)	NUMBER OF PEOPLE	FULL PRICE	TOTAL DAILY
EQUIPMENT SUPERVISOR (LOCAL)	1	$1.118,00	$1.118,00
EQUIPMENT OPERATOR (LOCAL)	2	$481,00	$962,00
EQUIPMENT SUPERVISOR (EX-PAT)	1	$1.731,78	$1.731,78

TOTAL COST

	DAILY	CUMULATE
ES EQUIPMENT (U$)	$3.219,26	$215.249,09
ES PERSONNEL EX-PAT(U$)	$1.731,78	$109.102,14
HI SIDE (U$)		
ES PERSONNEL LOCAL (U$)	$3.811,78	$254.208,14
TOTAL COST (U$)	$8.762,82	$578.559,37

DAILY COMMENTS

% ROC WELL AVERAGE	5,80%

Was completed processing fluid and we will start the maintenance...

SPACE FOR COMPANY MAN's COMMENTS

VALIDATION

	WILLIAM FREIRE/BRANDON BELAIRE
PERENCO DRILLING SUPERVISOR SIGNATURE	MI SWACO SUPERVISOR SIGNATURE