Date: 15/04/2011 Time: 10:53:26

Production Number: BP-HZN-BLY00184848-1-2





Drilling & Completions MOC Initiate

DCMOC-10-0072 MOC#: Date Initiated: 4/15/2010 Initiator: Mueller, Eric T

Stage: Approve

				Status: Unapprov	ed
Asset/Project	CoM	<u> </u>	Type of Change:	-echnical	7
Rig:	Horizon	3	Well (i.e., GC 323 #1 or N/A):	MC 252 #1 Mecondo	
Venfer:	Hafle, Mark		Pnority:	A (High) - Immediate	v
Coordinator:	Mueller, Eric T				_
Desired Completion Date:	04/15/20-0				
Proceed with MOC?	F Yes C No/Cancel C Clarity				
Title:				The Contract	
Production Casing for Macond	fo (version 2)				
A secondary objective is to make The current plan we are seeking	ation well. The primary objective has been met. ethic a keeper well, for a future seb-sea completion papproval for is to run a tapered long string of 9-7/8	z 7" production cas			
the wellbore conditions deteri	orate (additional losses, wellbore stability, hole fill,	etc) during the pla	inned conditioning trip, then the recommen	ndation will be made to run a liner inst	lead of the long string.
he current cement model suggi	ancial impact where appropriate): ests that we should be able to achieve a successful			cument in the .pdf file)	
	of economic case and well integrity case for future of				
	acceptable option, but will add an additional \$7 - \$		etion cost.		
	ptions and current wellbore conditions are attached	In the .ppt file.			
he plan forward decision free is	s also attached				
Risk/Mitigation (attach ris ost alrealation during the ceme	ck documentation where appropriate); nt job:				
sing a 14.5 arbitrary frac gradie	um ECD to be 14.583 ppg. The FIT on the previous ne second event (major losses) occurred when ECD intithat we are attempting to abide by based on acts radical: Foam cement, light weight spacer, and a si	rat circulation conditi	ises for this event were cured with Form-a-S	el and MW reduction. Since that seco	and event, we have been
ingle barrier in annulus for TA:					

If losses occur during the cement job, possible cement evaluation, remedial cement operations, dispensations and/or MMS approvals will be required prior to performing TA operations due to a lower than required Top of Coment in the annulus. Possible hydrocarbon zones could be left exposed in the annulus with only the casing hanger seal as the single barrier for the TA. The attached decision tree addresses these options. A port and squeeze operation could be performed to add a second barrier in the annulus.



MOC #: DCMOC-10-0072 Date Initiated: 4/15/2010 Initiator: Mueller, Eric T Stage: Approve Status: Unapproved

Review	Responsible Person	Disposition	Completed By
echnical Review	Walz, Greg		-
chnical Review	Quide, John	F Agree C Disegree	International Control of Control
chnical Review	Reiter, Doris	€ Agree € Disagree	
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Review	Responsible Person	Disposition	Completed By
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		C Agree C Disegree	
		C Agree C Disagree	

MOC#: DCMOC+10-0072 Date Initiated: 4/15/2010 Initiator: Mueller, Eric T Stage: Approve

-994-			Status: Unapproved
Action Item Description	Responsible Person	Due Date	Check to Complete Completed By
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ease select the approval levels required for this MOC.			☐ Level 1 ☐ Level 2 ☐ Level 3
vel 1 Approvals Approver	Disposition	Date	Approved By
ms, David C	- Approve Caraci Charif,		ms, David C
ilde, John	C Approve C Carcel C Clarit,	Marine Contract Contr	
azelle, Andrew E	Approve Carcel Colorify	/ 4/20/2010 Fr	azello, Andrew E
vel 2 Approvals Approver	Pr		
rague, Jonathan D	Pieposition Capprove Canal Carry	Date	Approved By
	C Approve C Candil C Carry		
	C Approve C Conocl C Conty		
el 3 Approvals			
Approver	Disposition Capprove Conce. Colority	Date	Approved By
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	C Approve Conce County		
bp Drilling & Completions MOC Post-Approval Action	s		MOC #: DCMOC-10-0072 Date Initiated: 4/15/2010 Initiator: Mueller, Eric T Stage: Approve Status: Unapproved
Action Item Description	Responsible Person	Due Date	Check to Complete Completed By