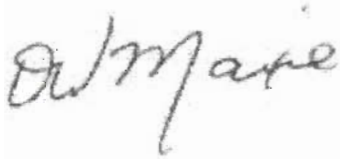


**From:** Maxie, Doyle  
**Sent:** Thursday, April 08, 2010 2:19 PM  
**To:** Armand, Timothy; lebleujb@bp.com  
**Cc:** Haygood, Tab A. (MI); Lindner, Leo T (MI DRILLING FLUIDS, INC); Jones, Gordon L (MI SWACO)  
**Subject:** LCM requirements and initial order  
**Attachments:** Max LCM On Board.docx; EXAMPLE FOR LOSS SHEET (2).xls; Kaskida Fluid program Draft 2.pdf

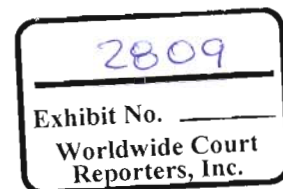
John,

As per our follow-up on Macondo, this is the LCM requirements to be maintained on board Horizon and the initial order for LCM in the event we encounter losses. The documents have been included in the KASKIDA program and will become APPENDIX 10 in mud programs.



Project Engineer  
Houston District  
Office: 281 . 988 . 1809  
[REDACTED]  
Ritefax: 832 . 351 . 4916

**MI SWACO**



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MSW001-002352

### Max LCM on Board

• Safecarb 250 Proline Bags	6
• Safecarb 250 plts	4 (240 sxs)
• Safecarb 40 plts	3 (180 sxs)
• Calcium Carbonate 30/50 Proline Bags	6
• Calcium Carbonate 30/50 plts	4 (200 sxs)
• G-Seal Plus Proline Bags	6
• G-Seal Plus sxs	300 sxs
• BLOK R 750 sxs	6 (360 sxs)
• Kwikseal Med sxs	50 sxs
• Kwikseal C. sxs	50 sxs
• Vinseal plts	3 (180 sxs)
• Form-A-Squeeze	700 sxs
• Form-A-Set AK 25 lb sxs plts	8 (384 sxs)
• Form-A-Set RET 5 gal pails	48 pails
• Form-A-Set XL	36 cans

This is enough material to mix 2 emergency LCM pills and 2 maintenance pits after the initial mixing; also, this includes enough for mixing 2 Form-A-Squeeze and 2 Form-A-Set pills. This list includes enough chemicals to add LCM at the hopper if needed. Due to size and restrictions of sack room, shared space with TOI and Halliburton, and limited deck space this is the maximum LCM we can accomodate.

**This Document Produced in Native Format Only**

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**M-1** L.L.C.

**4300 PETERS ROAD  
HARVEY, LOUISIANA 70058  
Office 504-368-1415  
Fax 504-368-9271**

**E-mailed Example**

# CHEMICAL

## ORDER

## Customer

**Name** BP Exploration "MACONDO"

**Well Name** OCSG-32306

**Rig** Deepwater Horizon

**Location** MC 252 #1

<b>Dock</b>	<b>Fourchon</b>
<b>Phone</b>	<b>281-366-7749 ( Mud Lab )</b>
<b>Fax</b>	<b>281-366-7746</b>

**SAP NO :** X2-000X8-C

**PAY CODE :**

ZMACONCODE

Quantity Ordered	Chemical Ordered	Serial Number
200 sxs	M-I Seal - 50 lb bag	
400 sxs	Vinseal - 25 lb bag	
350 sxs	Safe Carb 40 - 50 lb bag	
250 sxs	Block R 750 - 50 lb bag	
350 sxs	Calcium Carb 30/50 - 50 lb bag	
150 sxs	G-SEAL PLUS - 55 lb bag	
250 SXS	Safe Carb 30/50 - 50 lb bag	
450 sxs	Form-A-Squeeze - 40 lb bag	
200 sxs	Form-A-Set - 25 lb bag	
25 cans	Form-A-Set RET - 5 gallon buckets	
25 buckets	Form-A-Set XI - Pail	

Comments :	To be loaded on the ?M/V.
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## APPENDIX 10: LCM REQUIREMENTS:

### Max LCM on Board

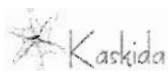
• Safecarb 250 Proline Bags	6
• Safecarb 250 plts	4 (240 sxs)
• Safecarb 40 plts	3 (180 sxs)
• Calcium Carbonate 30/50 Proline Bags	6
• Calcium Carbonate 30/50 plts	4 (200 sxs)
• G-Seal Plus Proline Bags	6
• G-Seal Plus sxs	300 sxs
• BLOK R 750 sxs	6 (360 sxs)
• Kwikseal Med sxs	50 sxs
• Kwikseal C. sxs	50 sxs
• Vinseal plts	3 (180 sxs)
• Form-A-Squeeze	700 sxs
• Form-A-Set AK 25 lb sxs plts	8 (384 sxs)
• Form-A-Set RET 5 gal pails	48 pails
• Form-A-Set XL	36 cans

This is enough material to mix 2 emergency LCM pills and 2 maintenance pits after the initial mixing; also, this includes enough for mixing 2 Form-A-Squeeze and 2 Form-A-Set pills. This list includes enough chemicals to add LCM at the hopper if needed. Due to size and restrictions of sack room, shared space with TOI and Halliburton, and limited deck space this is the maximum LCM we can accomodate.

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**PFM Proposal  
"Kaskida"  
OCS-G 25792 #2  
KC 292**

**MISSWACO**  
March 23, 2010  
Page 83 of 84

### INITIAL ORDER AFTER LOSSES BEGIN:



M-I

LLC.

4300 PETERS ROAD  
HARVEY, LOUISIANA 70058  
Office 504-368-1415  
Fax 504-368-9271

E-mailed  
Example

CHEMICAL

ORDER

Customer

Name

BP Exploration "MACONDO"

Well Name

OCSG-32306

Rig

Deepwater Horizon

Location

MC 252 #1

Dock

Fourchon

Phone

281-366-7749 ( Mud Lab )

Fax

281-366-7746

Date

Example

Time

TO: FOURCHON

Attn:

SAP NO :

X2-000X8-C

PAY CODE :

ZMACONDODE

Quantity Ordered	Chemical Ordered	Serial Number
200 sxs	M-I Seal - 50 lb bag	
400 sxs	Vinseal - 25 lb bag	
350 sxs	Safe Carb 40 - 50 lb bag	
250 sxs	Block R 750 - 50 lb bag	
350 sxs	Calcium Carb 30/50 - 50 lb bag	
150 sxs	G-SEAL PLUS - 55 lb bag	
250 SXS	Safe Carb 30/50 - 50 lb bag	
450 sxs	Form-A-Squeeze - 40 lb bag	
200 sxs	Form-A-Set - 25 lb bag	
25 cans	Form-A-Set RET - 5 gallon buckets	
25 buckets	Form-A-Set XI - Pail	
Comments :	To be loaded on the ?M/V.	

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