



# COASTAL ENERGY LINES UP COMPASS FOR BUA BAN FLOATER COURSE



## This Issue

1. Winner of Rule of Thumb contest
2. Subsea 7 – Finite Element Analysis
3. MOPU Seafox 3 – Jack Up Rig
4. JB 177 – Structural Items

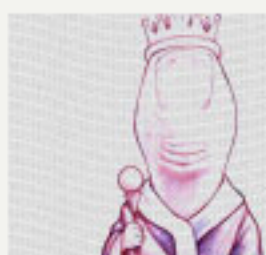
## Newsletter 4

Welcome back from your holidays! We hope you relaxed with your families, friends, girl-friends, boy-friends and not to forget the dog. While you have been relaxing our teams got a sun tan too but on some of the shipyards in Asia. The great news are that Independent Coastal Energy has lined up Singapore's based Compass Energy to supply one mobile offshore production units for its Bua Ban North A and B oil discoveries off Thailand.

## What else?

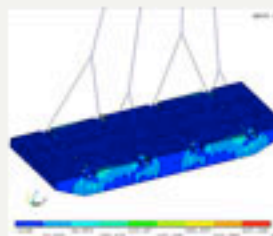


Compass Energy was established in 2004 in Singapore to provide engineering services for the offshore oil and gas industry in Southeast Asia. We enjoy a high level of repeat business due to our clients' appreciation and confidence in our abilities to meet the deadlines, deliver quality and be cost effective.



**CONGRATULATIONS**  
to Jack Ho who won SG\$100  
for a great Rule of Thumb which you will find in our usual "Rule of Thumb" box

## News



### Finite Element Analysis of 5500T Load Test for 8-Point Lifting Arrangement

Compass Energy was commissioned to conduct a Finite Element Analysis of the 5500T load test, based on a 8-point rigging arrangement of the test barge for Subsea7 that was launched in July in Thailand. It included the checking and verification of the structural integrity of the eight pad eyes and their respective under deck reinforcements using Finite Element Analysis software ANSYS.

## Industry News



According to IMA (International Maritime Associates) there were only 120 floating production units in 2001 operating worldwide. Today, there are 250 units and more to come online in the near future. In the South-East Asia region there are currently 33 of the projects in the pipeline. Jim McCaul, head of IMA, confirms that the future opportunities for FPSOs in the near future are huge due to the increasing global demand for oil.



### Project Management and Marine Engineering for MOPU/Seafox 3

Coastal Energy requested assistance to provide a jack up rig fitted with a production package ready to produce under a tight timeline for their MOPU. Part of our scope is the project management, marine engineering with regulatory approvals for Cantilever Structure, VSD Support Structure and Generator Platform, Design layout and safety systems for the production rig. See [more](#) information in a recently published article in the newspaper.



### Detailed Engineering for Sea-fastening of JB 117 Structural Items

The multipurpose Jack Up Barge JB 117 was launched in July 2011 in Batam. Compass Energy was awarded a new contract to design and analyse the sea fastening for items such as leg footings and crane Booms on deck of jack up barge JB 117, planned to be dry towed to the Netherlands

## Rule of Thumb



For calculating lube oil and fuel oil storage onboard a vessels, rule of thumb is to include 10% as reserve and 5% dead volume (not pump-able at bottom of tank) on top of calculated required capacity. This is only applicable to box shape like tanks. This cannot be used for odd shape tanks as the dead volume may be much more.

 Log on to Facebook to see more pictures of our projects.

## Test your sudoku skills!

### Current Puzzle

		3	8					
6			4	2		1		
	8	1				7		2
						4		
4			6	3	2			7
		9						
1		8				9		2
		2	6	7				9
				1				

### Last Issue Solution

3	5	7	4	6	1	2	8	9
1	6	8	2	9	3	5	4	7
4	2	9	5	7	8	1	3	6
8	9	2	3	5	6	4	7	1
6	7	3	1	4	9	8	2	5
5	1	4	8	2	7	9	6	3
9	8	1	7	3	2	6	5	4
2	3	5	6	1	4	7	9	8
7	4	6	9	8	5	3	1	2



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