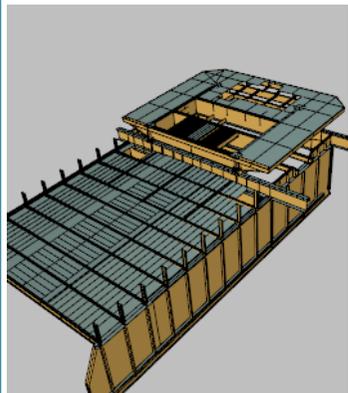




Rig Name: Monarch
Rig Type: Jack - Up
Owner name: Transocean
Classification Society: ABS
Pertinent code: Sname
Pertinent class rule: text
Code design: ASD

Click below to see model 3D!

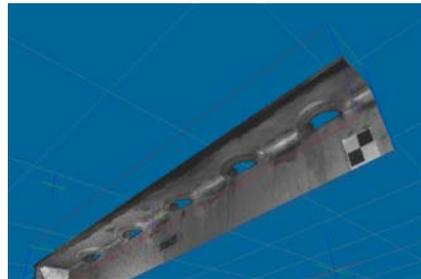


Get Adobe Reader
To view 3D documents

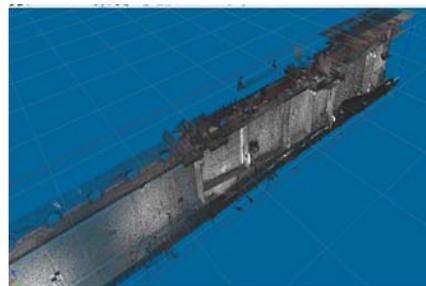


Project description: Some deformation has been found on the AFT drill floor skid beam on the Monarch. The underlying cause and the time frame that caused this permanent deformation are not known. Early indication from Operations suggests that this may have been formed at the time that the rig was suffering from the effect of scouring. However, there is no incident report available to confirm or give out the detailed information of this phenomenon.

LFM Server



View 3D



View 3D

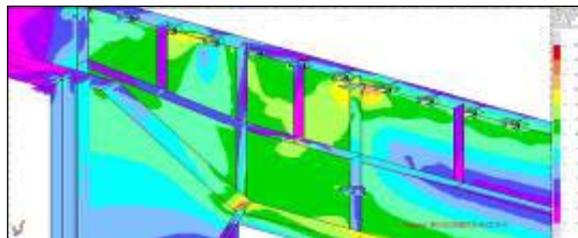


"Bubble View"

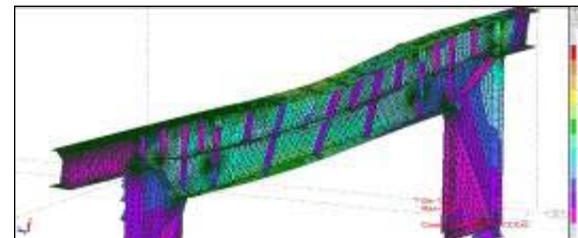
Photos



Results



Stress Plot



Deformation Plot

R.E. scope of work

In order to ascertain the extent of the local deformation and possible global deflection of the cantilever and skid beam itself, **Laser Scan Technique** was deployed to capture the images which can later on be compared with the future monitoring of this deformation. The advantage of the Laser Scan is that any deformed location can be interrogated for the net amount of distortion locally or globally by slicing the images using **LFM Server**, post processing software. This was done at Rig Engineering and the extent of deformation was reported back to Transocean.

For more information about Laser Scan Technique visit
<http://www.zf-laser.com/>

Engage

Upload your problem to us and give us relevant input to allow us to resolve your problem we will need:

1. As built of structure to prepare 3D model.
2. Static loads
3. Detailed information about skid beam moving system.