



Casing Deformations

- a challenge to be managed

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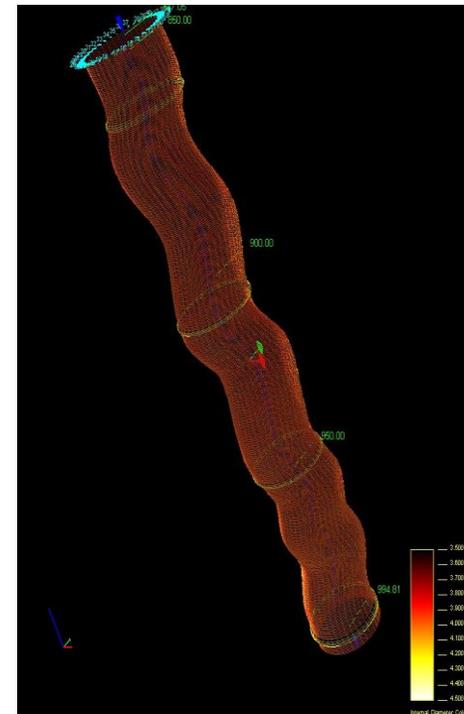
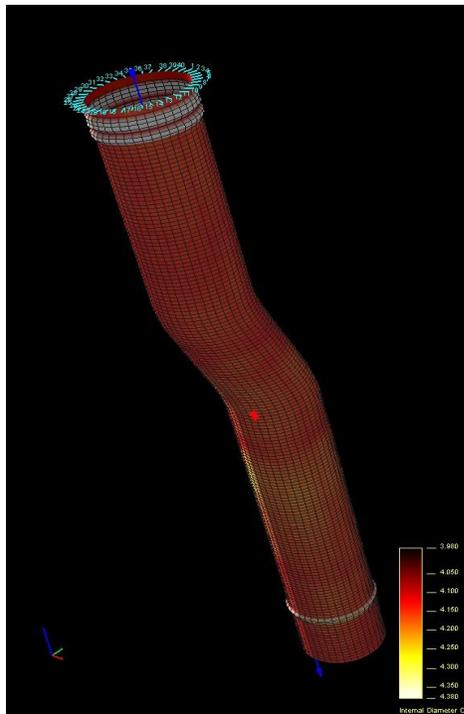
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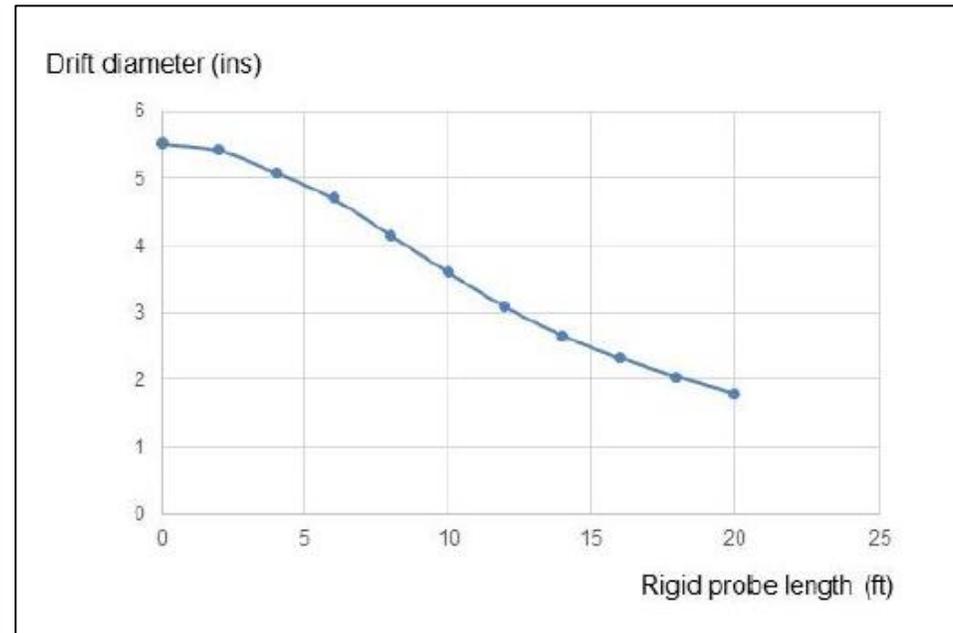
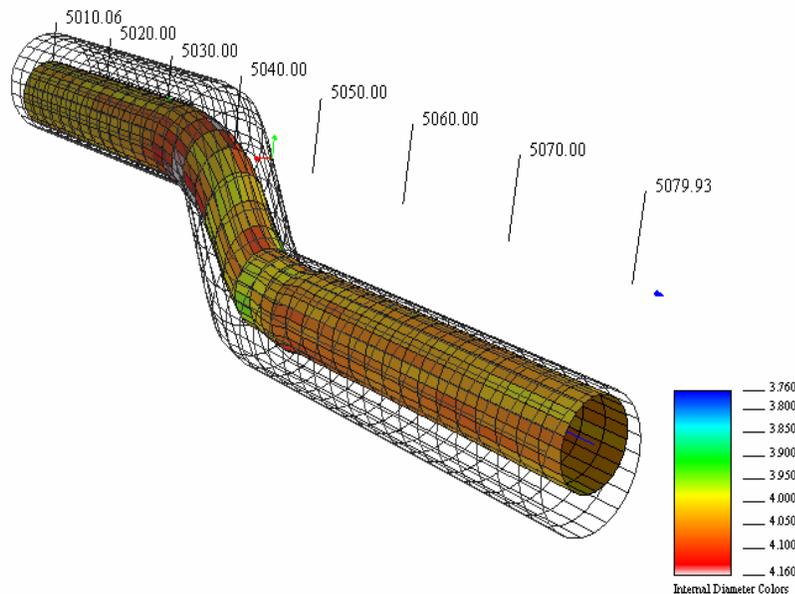
Casing Deformations

- The Challenge
 - Greater Ekofisk Area: Subsidence can lead to damaged casing/ tubing
 - Can have impact on Well Integrity
 - Limited wellbore access for Well Intervention jobs
 - Limited wellbore access for P&A work



Casing Deformations

- How to manage
 - Monitor wells and development of any restrictions/ deformations
 - Drift tubing - run Multi Finger Caliper (MFC)
 - Perform Pipe Deformation Analysis (PDA)
 - Perform PP&A when still having wellbore access



Casing Deformations – How we use MFC and PDA

Well Integrity Team Monitoring	Well Intervention Team Plan & Execute WI Operations	P&A Team Plan & Execute DP Based Operations
Drift tubing/ run MFC	Maintain and update a Best Practice for maximum flexible MFC BHA	If abnormalities: Plan punch and cut tubing
Identify abnormalities	Plan and execute drift operations as per Well Integrity call off	If abnormalities: Plan pulling of tubing
If abnormalities of interest: Build 3D model of tubing Extrapolate 3D model of casing Drift Chart	Potentially: Evaluate deformations vs planned/ needed SOW below	If abnormalities: Extrapolate 3D model of casing Drift Chart Plan plugging operation/ Select BHA
Potentially: Evaluate well integrity vs current access in tubing	Potentially: Advise on and source tubing punch/ cutting BHA's capable of making it through a deformation	After tubing pulled/ if abnormalities: Drift casing/ run MFC Verify casing geometry Provide data for GGRE
Potentially: Evaluate well integrity and or containment vs current access in casing		