# **Subsea Engineering Case Study**

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BOP Frame & BOP Handling Frame Sheet 1 of 3

# **BOP Frame Assessment:**

### JOB 2154 JOB 2197 JOB 2552 JOB 2785 JOB 2112 JOB 2487 M G Hulme Transocean Legend Polar Pioneer Paul B. Loyd Junior Sedco 711 Paul B. Loyd Junior BOP Guide Frame Strength Verification BOP Frame Strengthening BOP Frame Verification BOP Frame Strength Verification **BOP Support Frame** New LMRP and Strength Verification (Avoid Load By Pass) (Avoid Load By Pass) (Modification to Receiver Plate) (Well Head Bucket (Global Strength Check) (BOP Frame Recertification) Verification) **BOP Handling:** JOB 2329 Transocean Winner JOB 2828 JOB 2035 JOB 2107 Angel Wings Upgrade NOV BOP Lifting Ring Marianas MPD Support System NOV BOP Lifting Ring (In step With BOP Weight) (Transporting Annular to Rig) (Over BOP Carrier) (Improve Lift.) JOB 2437 JOB 2349 JOB 2627 Jim Cunningham Nexen Tree Handling Skid Frame Angel Wing in Operation Rather IWOCS UTA Hang off BOP Support Frame for Wellhead Gasket Inspection With Tree Trolley (Fork Down) Posts on BOP Transporter (Avoid Working Under Suspended Load) (Pay Load Determination)

Key word: Rig Engineering, BOP frame assessment, BOP component assessment, BOP handling, BOP accessories, BOP control system, Supplementary services, Subsea engineering case study summary.







# **Subsea Engineering Case Study**

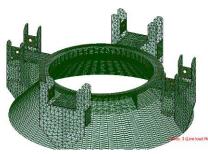
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**BOP** Components & Accessories Sheet 2 of 3

# **BOP** Component Assessment:

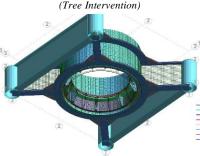
# JOB 1953

Sedco 711 Re Entry Guide Cone (Quick Connect Funnel)



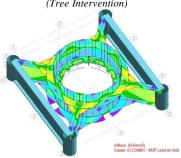
### JOB 2507

Rather BOP Wellhead Connector Change out (Tree Intervention)



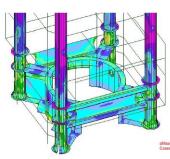
# JOB 2528

Rather BOP Modifications Lower Guide Frame (Tree Intervention)



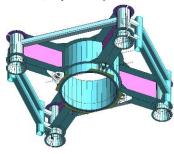
### JOB 2601

Polar Pioneer BOP Lower Frame Modification (Tree Intervention)



# JOB 2615

Polar Pioneer New Wellhead Spider (Drop Down System)



# JOB 2726

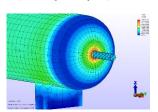
AKHER H3 APV System Verification (Fitness for Purpose)

JOB 2377

AKHER H3

ASME VIII Verification

(Compress Assessment)



# JOB 1919

Prospect BOP Maintenance Platform





JOB 2399

Magellan

BOP Test Tool

(Over Moon Pool Access.)



Energy Riser C&K line test cap (Hydro Test)



Monarch

BOP Test Mandrel

JOB 2832

Discoverer Spirit

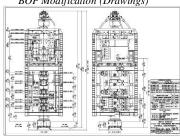
Drill Line Spreader Bar

(Heavy Lift System)

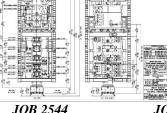
**BOP** Accessories:

# Sedco Energy

JOB 2820 BOP Modification (Drawings)



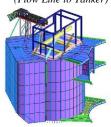
AFS BOP Bonnet Test Plate



JOB 1837 Sedco 711 **BOP Test Tools** 

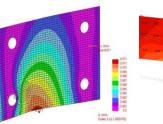
JOB 2632

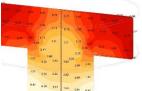
Sedco 711 Series Subsea Hose Deployment System Verification (Flow Line to Tanker)

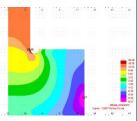


JOB 2698 / 2718

Magellan/Sedco Express BOP (Lifting Test Tools)







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# **Subsea Engineering Case Study**

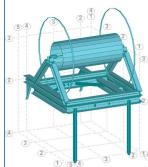
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**BOP Control and Supplementary Parts** Sheet 3 of 3

# **BOP** Control System:

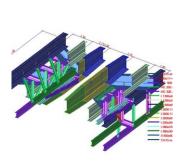
# JOB 2230

Rather / Richardson Pod Hose Upgrade (Deepwater Upgrade)



### JOB 2542

Paul B. Loyd Junior Pod Hose Reel Swing System (Swivel System for Banana Sheave)



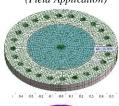
### JOB 2420

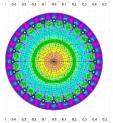
Sedneth 701 Hydro Test Blanking Plate for Diverter (Field Application)



### JOB 2523

Sedneth 701 Hydro Test Blanking Plate for Upper Ball Joint (Field Application)

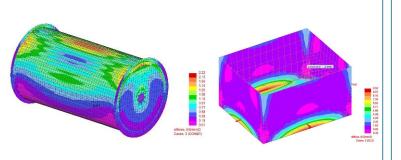




## JOB 2457

Jim Cunningham Pod Hose Reels Upgrade and Strengthening (Deepwater Upgrade)





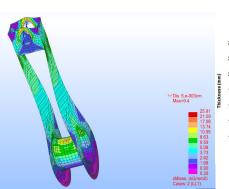
### JOB 2160

Monarch Mouse Hole Upgrade (Heavier Tubular)

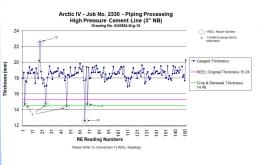


## JOB 2829

Prospect MRT Sheave (Riser Tensioner Turn Down Sheaves)



JOB 2330 Pressure Well Control Piping System Verification (Global Condition & Recommendation)



# Supplementary Services:

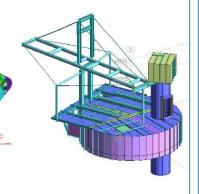
JOB 2485 Prospect

Mouse Hole Upgrade (Heavier Tubular)

# JOB 2502 Sedco 714

Sandline Clamp (Block Hang off)

JOB 2720 Sedneth 701 New Flare Boom System (Flaring off New Design)



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