

Jack Bates Snub Line SIC

September 3rd 2006

Top-Drive (TDS) maintenance during rig move

Asst. Derrickman Injury to Shoulder & Jaw



Reported Event

Asst Derrickman caught between tong lever and snub line during commissioning of TDS (following DC motor replacement)

Personal injuries sustained :

- ❖ Dental damage
- ❖ Bruised chest
- ❖ Abrasions to shoulder



Re-enactment. Note : For illustrative purposes, the tong here is engaged on the stump in the rotary.

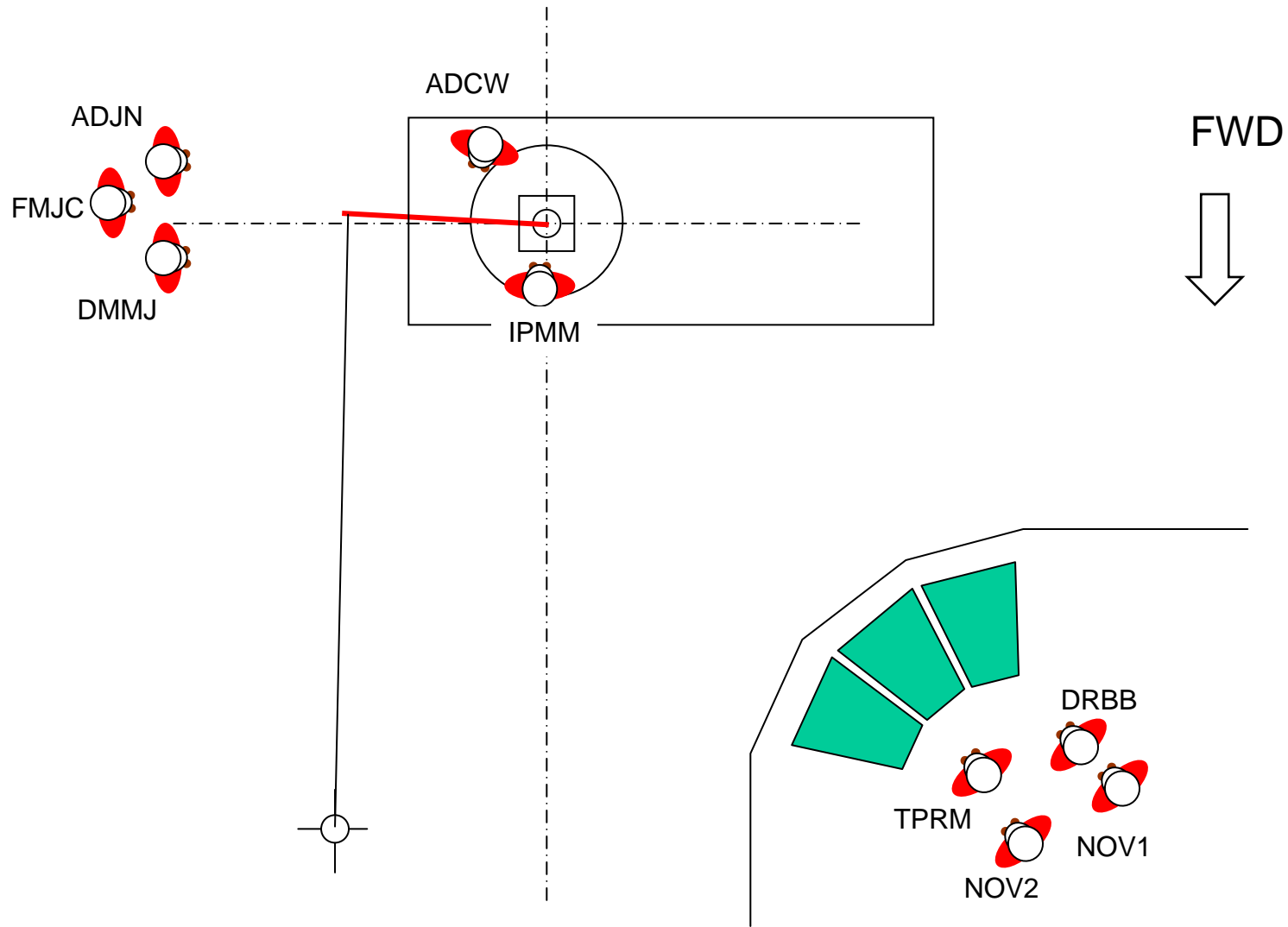
Sequence of Events of Interest

- ❖ Replaced TDS DC Motor per plan
- ❖ Commissioning :
 - *Rotation* ✓
 - *Speed* ✓
 - *Torque.....*
 - ❖ TDS hanging low above RT (pipehandler removed),
 - ❖ Engage breakout HT100 tong on saver sub,
 - ❖ Spin shaft/saver sub against tong and then torque up in stages to confirm :
 - (a) motor operation, and
 - (b) calibration of driller's gauges

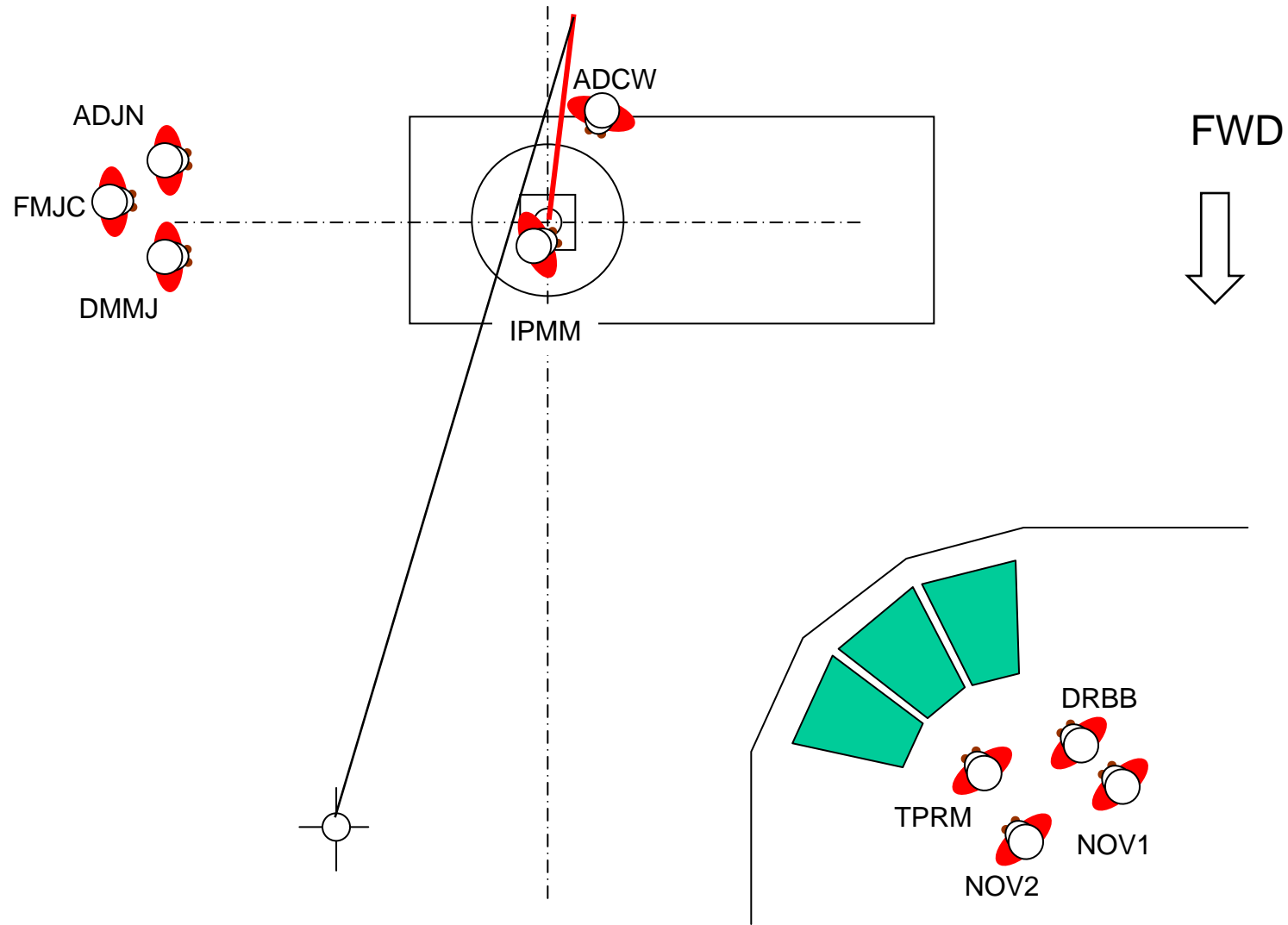


Whilst taking up slack in snub line, IP was caught between tong lever and snub line and was injured as described previously.

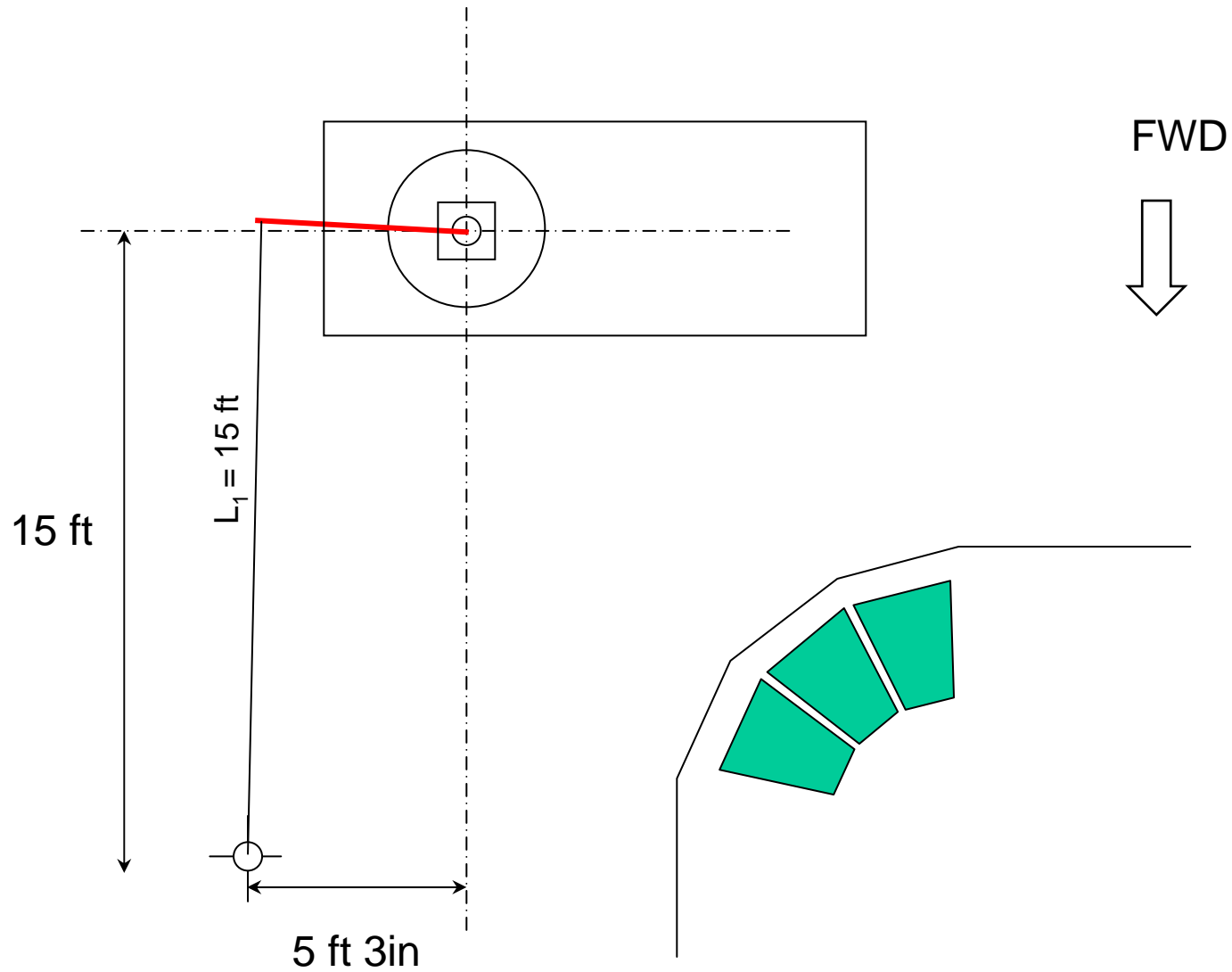
Jack Bates Drill Floor : Pre-Incident



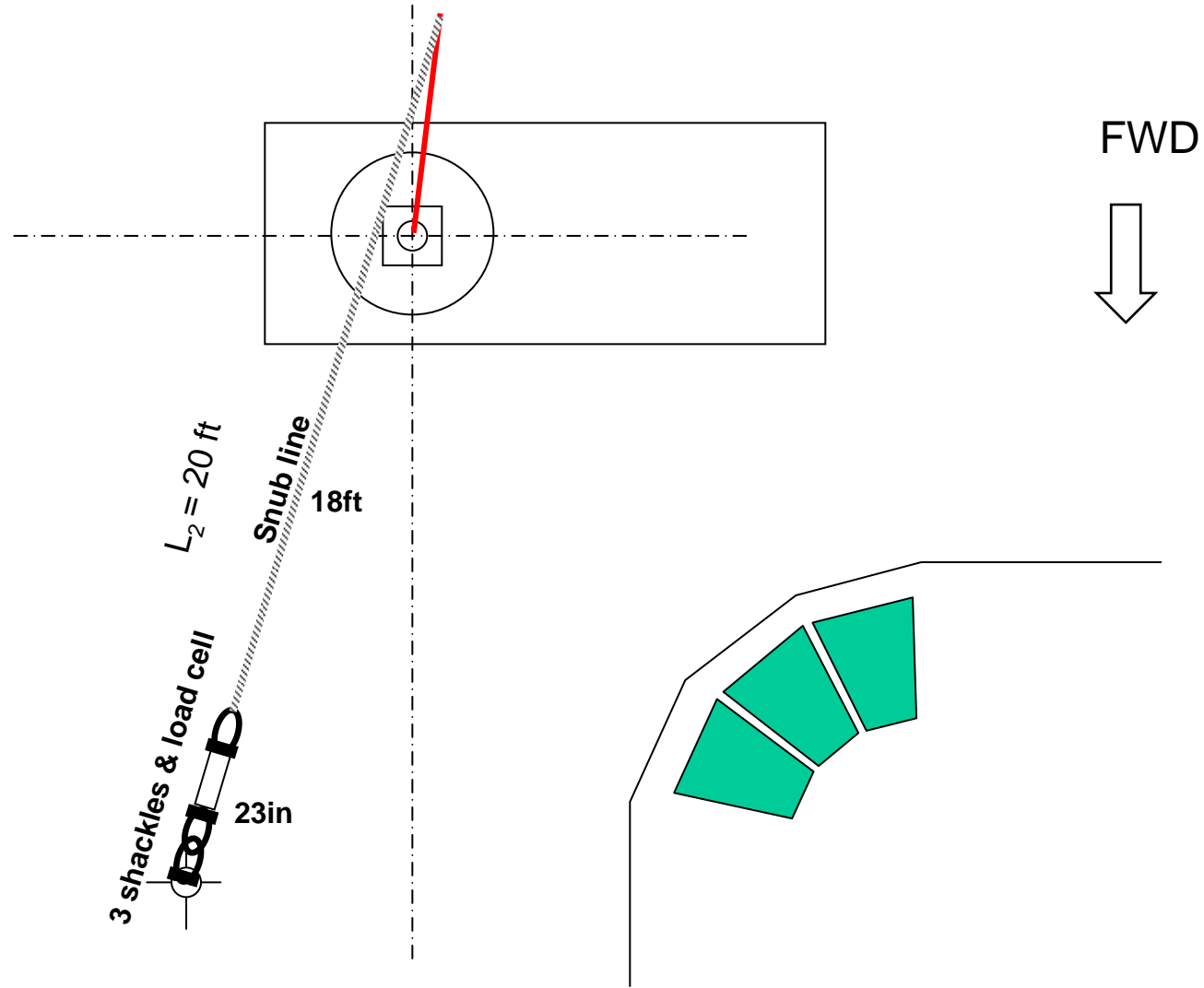
Jack Bates Drill Floor : Post-Incident



Jack Bates Drill Floor : Correct Tong Setup



Jack Bates Drill Floor : Actual Setup



Fact-Finding

Basic snub line length too long

Multiple Stock Numbers for breakout snub line in EMPAC

Excess line was habitually wrapped around backup post

Load cell introduced without evaluating total length of line

Tong engagement hampered by HT100 tong hanger interference with TDS

Jack Bates Iron Roughneck is very versatile (not much tong work)

TDS wasn't stabilised (no single/stand in RT)

Drill Floor crews attention diverted between tasks

Supervision of tasks wasn't clear

Planning wasn't clearly understood

Supervisors feeling strained by attrition

Root Causes

Root Cause : Use of wrong length line

Basic snub line length too long

Multiple Stock Numbers for breakout snub line in EMPAC

Root Cause : THINK process not followed

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Root Cause : Task supervision not adequate

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Root Causes, Recommendations

Root Cause : Use of wrong length line

Recommendation : Implement a single specification of breakout line suitable for task

Root Cause : THINK process not followed

Recommendation : Enforce use of THINK planning steps (PIICC) – not just talking about the job

Root Cause : Task supervision not adequate

Recommendation : Coach supervisors to better understand their role