

**REALLY?**

**WE SHOULD KNOW BETTER BY NOW!**

PRESENTED BY:

**ALISTAIR TONG**



ABERDEEN DRILLING CONSULTANTS

# ADC 2016 - PLOTTED HISTORY

ADC continues to be passionate about managing Dropped Objects.

We constantly seek to assure our clients that risk is being prevented and preferring not to rely on mitigating the consequences.

Despite getting a lot better - We as an industry still have a problem with falling objects

## AND THEY STILL HURT



# ADC 2016 - PLOTTED HISTORY

WHAT HAVE WE BEEN DOING ABOUT IT ?

- **DROPS MANAGEMENT SYSTEM ASSESSMENTS**
- **DROPS SURVEYS AND MANAGEMENT SYSTEMS** (Including provision and support with development of company standards and picture books)
- **INCIDENT INVESTIGATIONS**
- **TUBULAR HANDLING ASSESSMENTS**
- **UNDERSTANDING DROPPED OBJECTS - TRAINING AND COMPETENCY**
- **DEVELOPING NEW BEST PRACTICES**

# ADC 2016 - PLOTTED HISTORY

## TODAYS DISCUSSION POINTS ?

- **DROPS MANAGEMENT SYSTEM ASSESSMENTS**
- DROPS SURVEYS AND MANAGEMENT SYSTEMS (Including provision and support with development of company standards and picture books)
- INCIDENT INVESTIGATIONS
- **TUBULAR HANDLING ASSESSMENTS**
- UNDERSTANDING DROPPED OBJECTS - TRAINING AND COMPETENCY
- **DEVELOPING NEW BEST PRACTICES**

# DROPS MSA - CONTENT

**Planning and Risk Management** - Inspections, application of best practices, Red Zones, Barrier Management , Supervision

**Working at Height** - Control of Tools and equipment aloft - Fall protection, Housekeeping

**Preventative Maintenance Systems** - Equipment and Inventory, PUWER

**Control of Lifting Equipment and Lifting Operations** - LOLER

**DROPS Profile and Training and Competency** - Culture

**Third Party Equipment Control** - including Safety Alerts & Technical Bulletins, Integration into DROPS Inventories

# DROPS MSA - FINDINGS

EARLIER THIS YEAR – TWO IDENTICAL RIGS  
**LIKE DAY AND NIGHT**



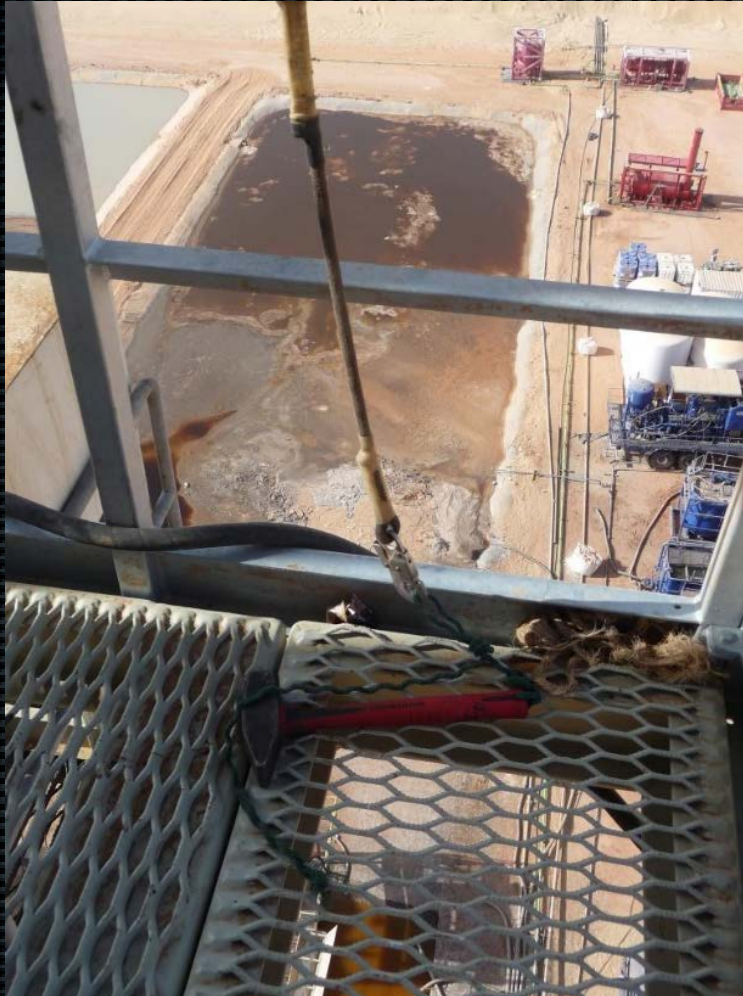
# DROPS MSA - FINDINGS

**RIG ONE - SOME INGENUITY APPARENT**



# DROPS MSA - FINDINGS

RIG ONE – ONE SIGNIFICANT FINDING





# DROPS MSA - FINDINGS

LOOKING FORWARD TO RIG TWO



# DROPS MSA - FINDINGS

**LOOKING FORWARD TO RIG TWO**



# DROPS MSA - FINDINGS

## POOR LIFTING PRACTICES



# DROPS MSA - FINDINGS

**POOR DROPS CULTURE – POOR SAFETY CULTURE?**



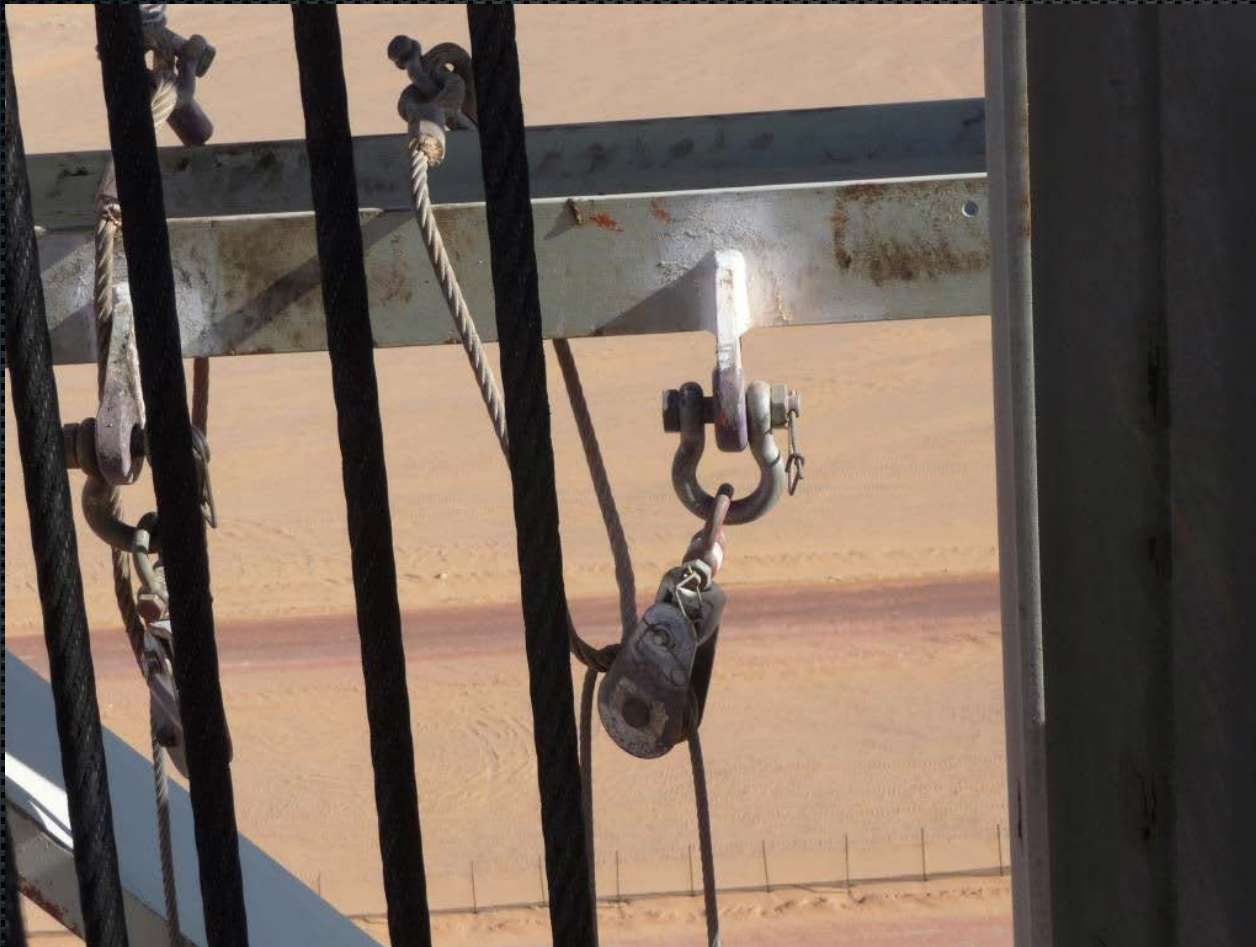
# DROPS MSA - FINDINGS

**POOR DROPS CULTURE – POOR SAFETY CULTURE?**



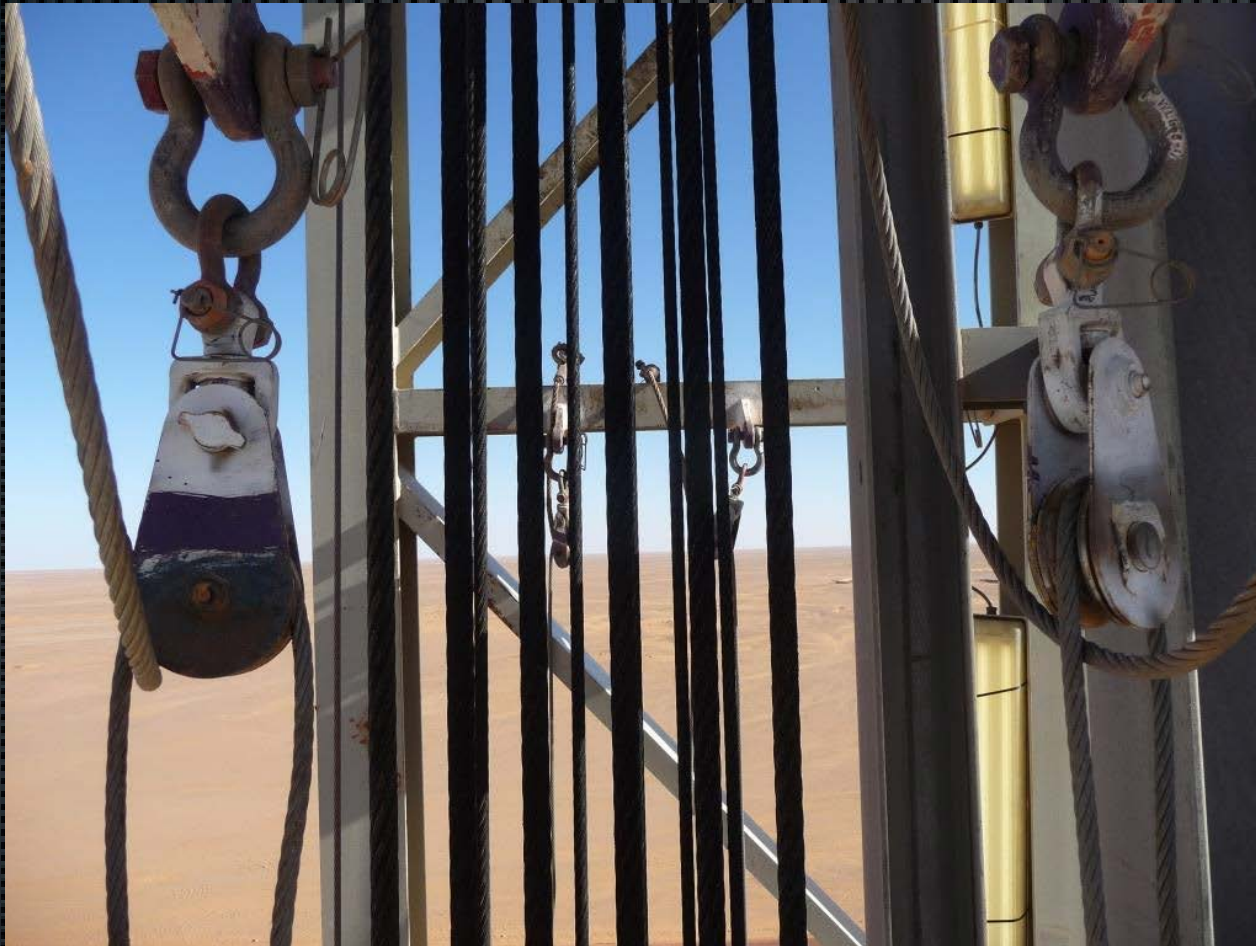
# DROPS MSA - FINDINGS

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# DROPS MSA - FINDINGS

**LACK OF TRAINING AND COMPETENCY?**



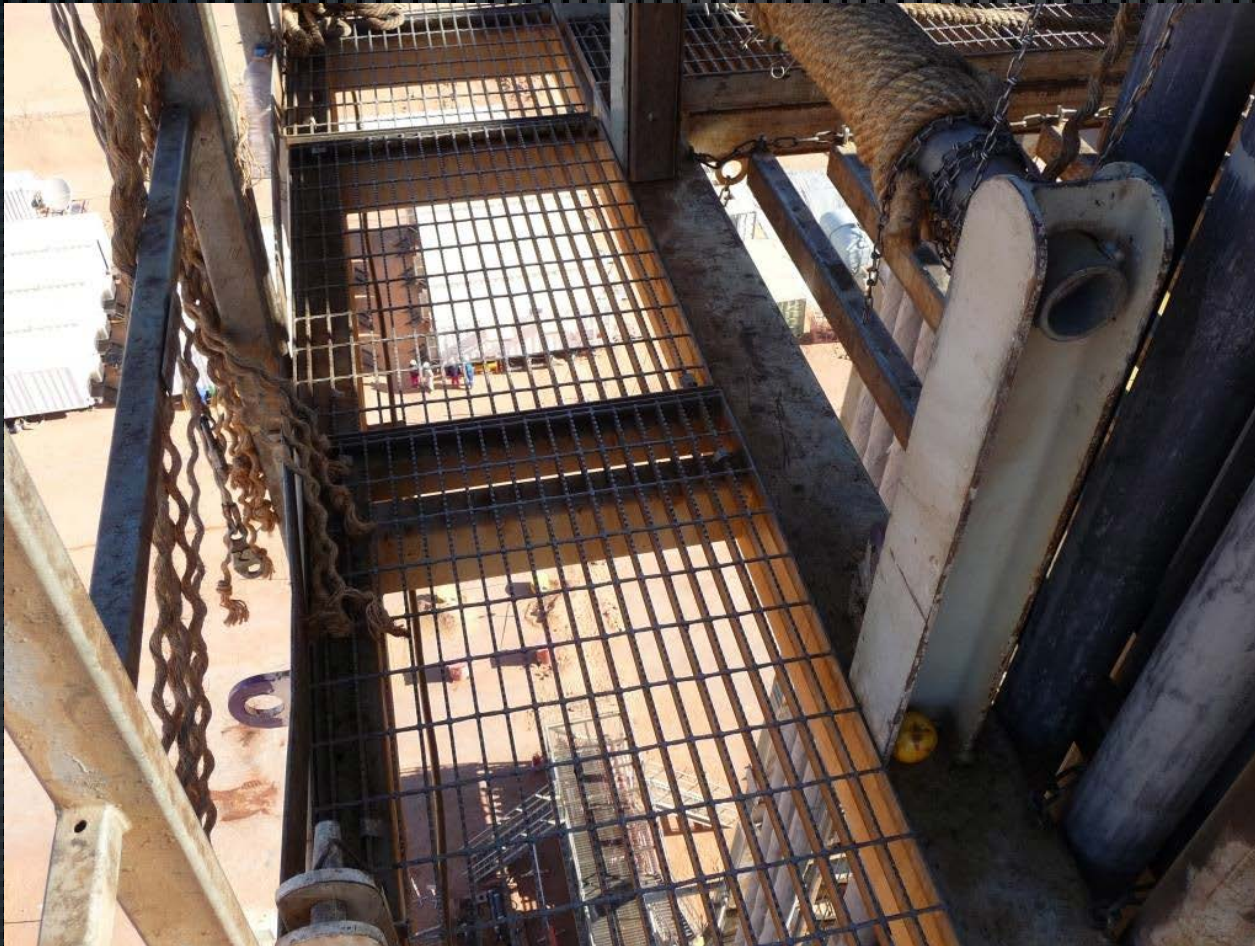
# DROPS MSA - FINDINGS

**INCONSISTENT STANDARD?**



# DROPS MSA - FINDINGS

WHAT'S WRONG HERE ?



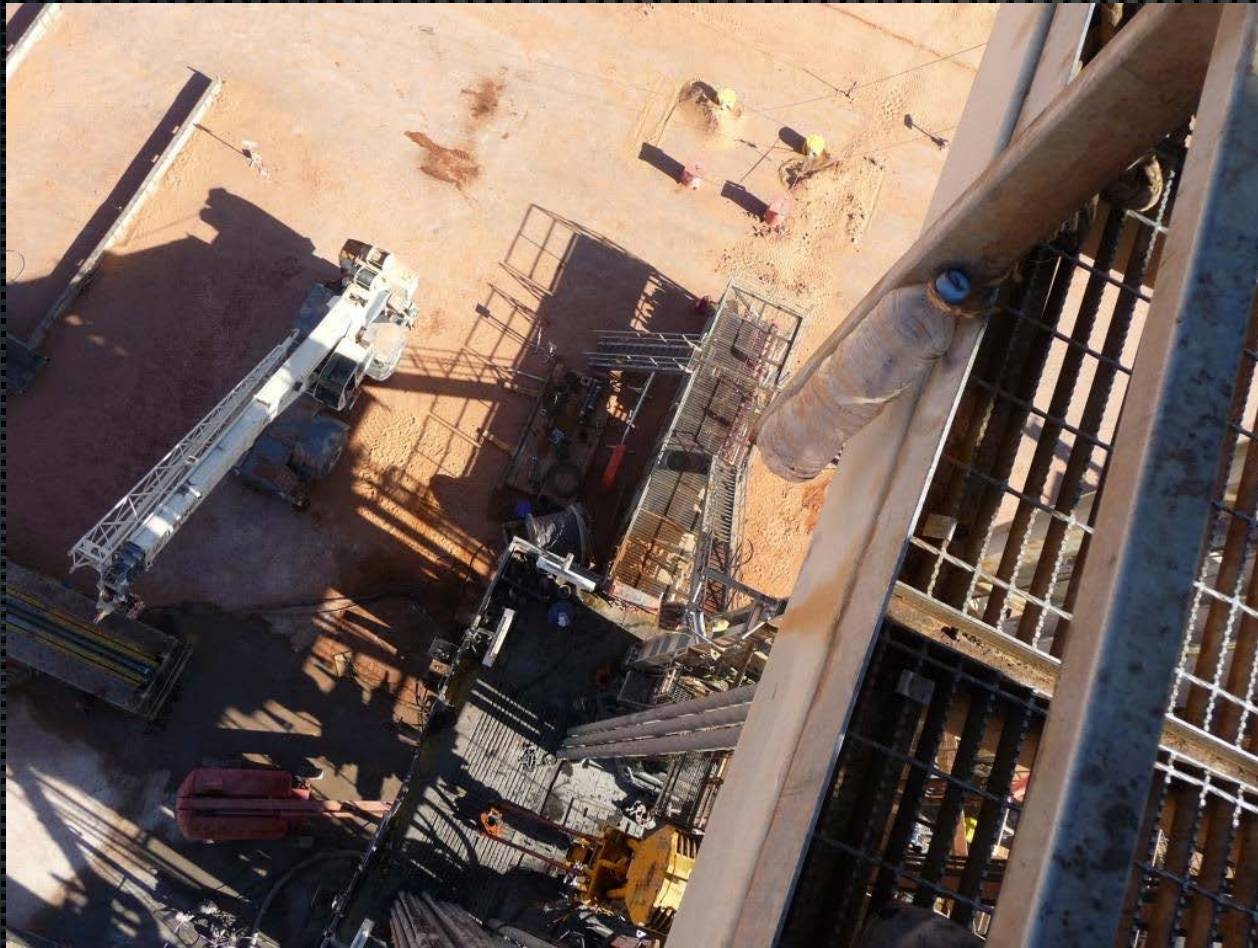
# DROPS MSA - FINDINGS

**POOR DROPS CULTURE – POOR SAFETY CULTURE?**



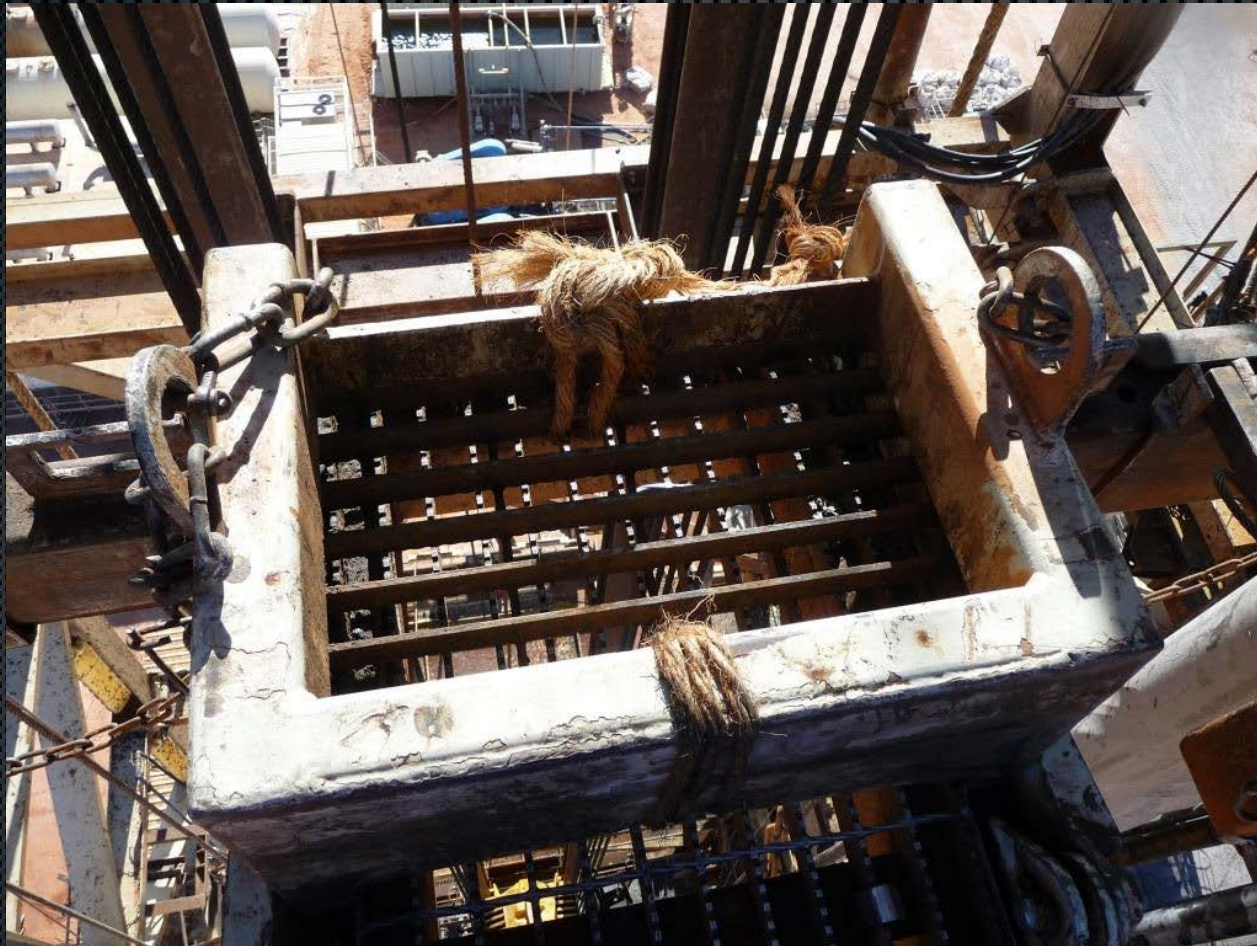
# DROPS MSA - FINDINGS

REALLY?



# DROPS MSA - FINDINGS

WHAT'S WRONG HERE ?





# DROPS MSA - FINDINGS



# DROPS MSA - FINDINGS



# DROPS SURVEY - FINDINGS

**NOT SOLVING THE PROBLEM**



# DROPS MSA - FINDINGS

## THE PROBLEM



# DROPS MSA - FINDINGS

NOT SOLVING THE PROBLEM



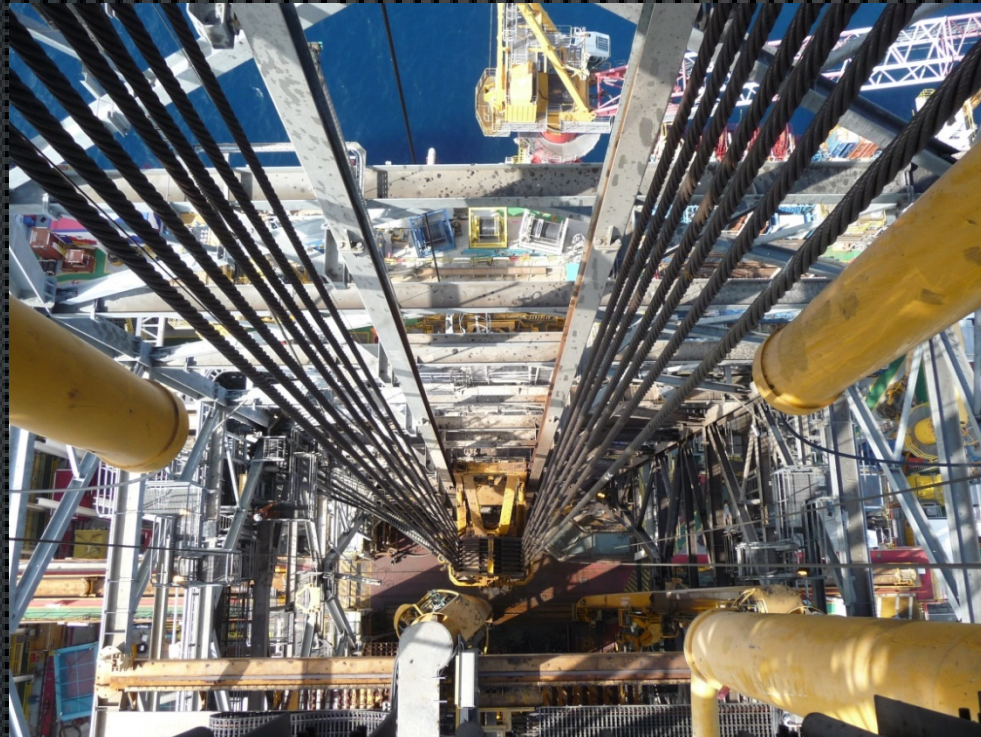
# DROPS MSA - FINDINGS

NOT SOLVING THE PROBLEM

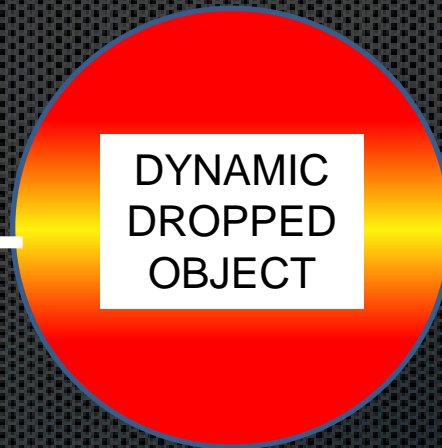
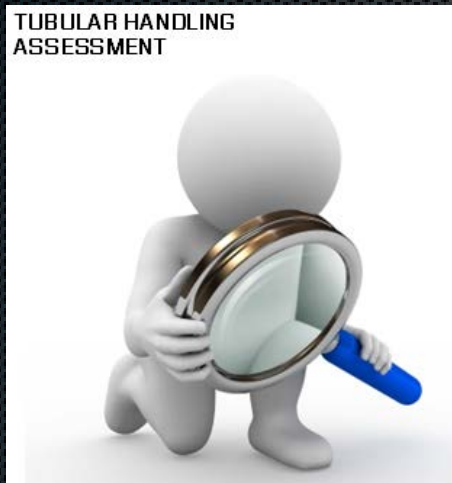


# TUBULAR HANDLING ASSESSMENTS

**Tubular Handling Assessments continue to throw up interesting finds – often the findings and observations by themselves seem to be minor. Collectively however . . . . .**



# WHERE IS TUBULAR HANDLING ASSESSMENT AT?





# NEW BEST PRACTICE ?

## **OPERATIONAL / WARM STACK / COLD STACK**

DROPS Management systems are only effective if designed in an achievable manner and applied as designed.

It is not efficient and may not be necessary to apply the same inspection criteria to a rig that is warm stacked as we would to one that is operational

ADC is working with various clients to review and streamline by risk assessment DROPS inspection frequencies and methodology.

# NEW BEST PRACTICE

## OPERATIONAL

Area	Week	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
1	Crown & Watertable																										
2	Upper Derrick																										
3	Lower derrick																										
4	Drill Floor																										
5	Travelling Equipment																										
6	Mud Lab & Koomey Level																										
7	Shaker Level																										
8	BOP Deck Level																										
9	Skid Deck																										
10	Pipe Deck																										
11	Knuckleboom Crane																										
12	Sack Store																										
13	Upper Bulk Silo Room																										
14	Pit room																										
15	Mud Pump / Cement Unit Room																										
16	Lower Bulk Silo Room																										
17	Generator / Air Compression Room																										
18	Switchgear Rooms																										
19	DI External Walkways																										

## WARM STACK / COLD STACK

Area	Week	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
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# NEXT CHALLENGE

## RETURNING RIGS FROM WARM / COLD STACK TO OPERATIONAL

As and when rigs return to work we must ensure that all areas and equipment are fit for purpose and that all management systems, policies and procedures are fit for purpose applied appropriately and remain effective and efficient.



**THANK YOU FOR YOUR TIME**

QUESTIONS – COMMENTS ?



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