



# EIGHT GEMS



DrillSafe

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6<sup>th</sup> June 2013



# How Small Issues Can Lead to Major Catastrophes



EIGHT  
GEMS





# What Small Things Could Cause a Major Catastrophe?



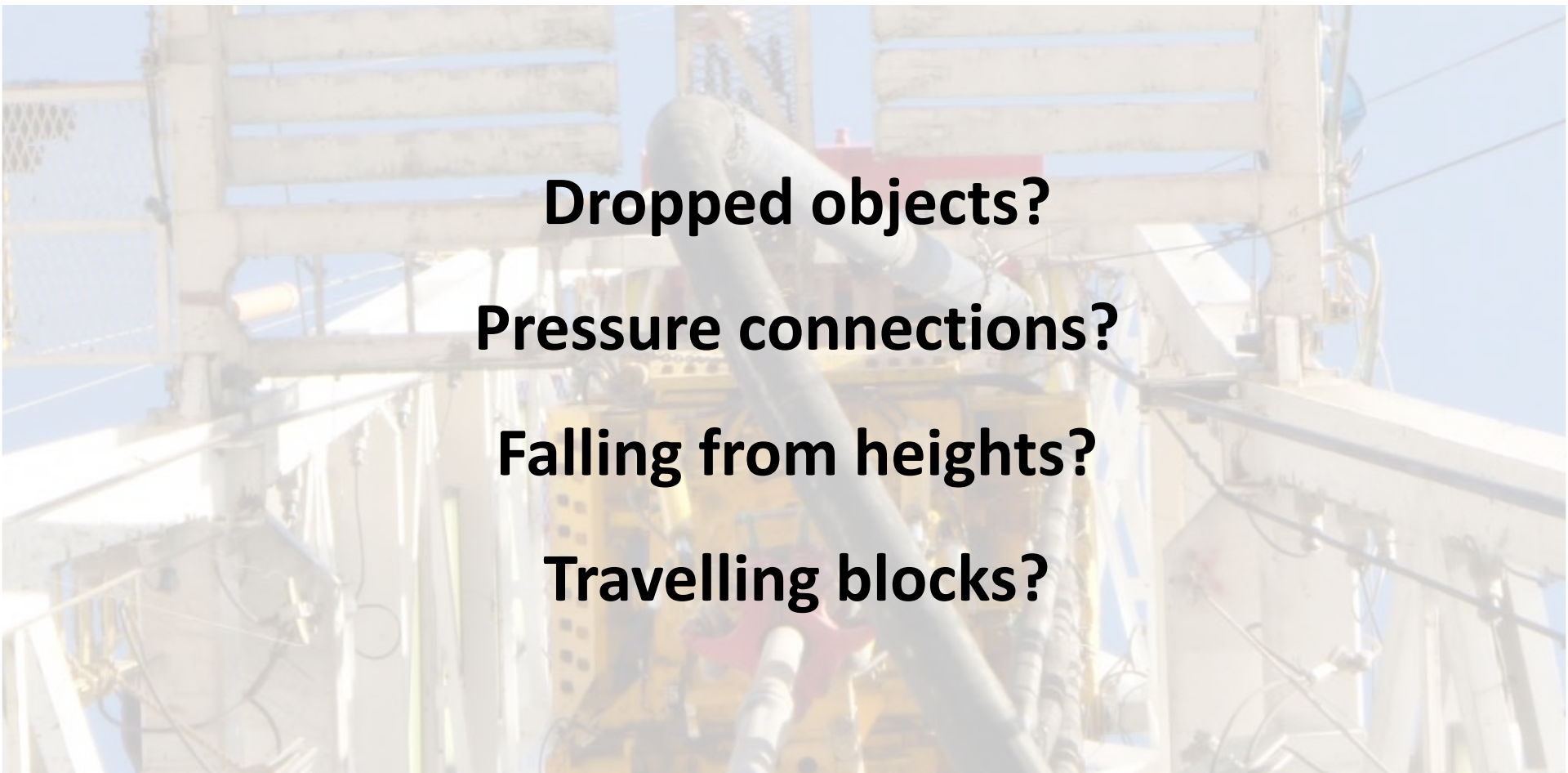
# What Small Things Could Cause a Major Catastrophe?

**Dropped objects?**

**Pressure connections?**

**Falling from heights?**

**Travelling blocks?**





# What Small Things Could Cause a Major Catastrophe?



**Minor Wear On a Hose?**

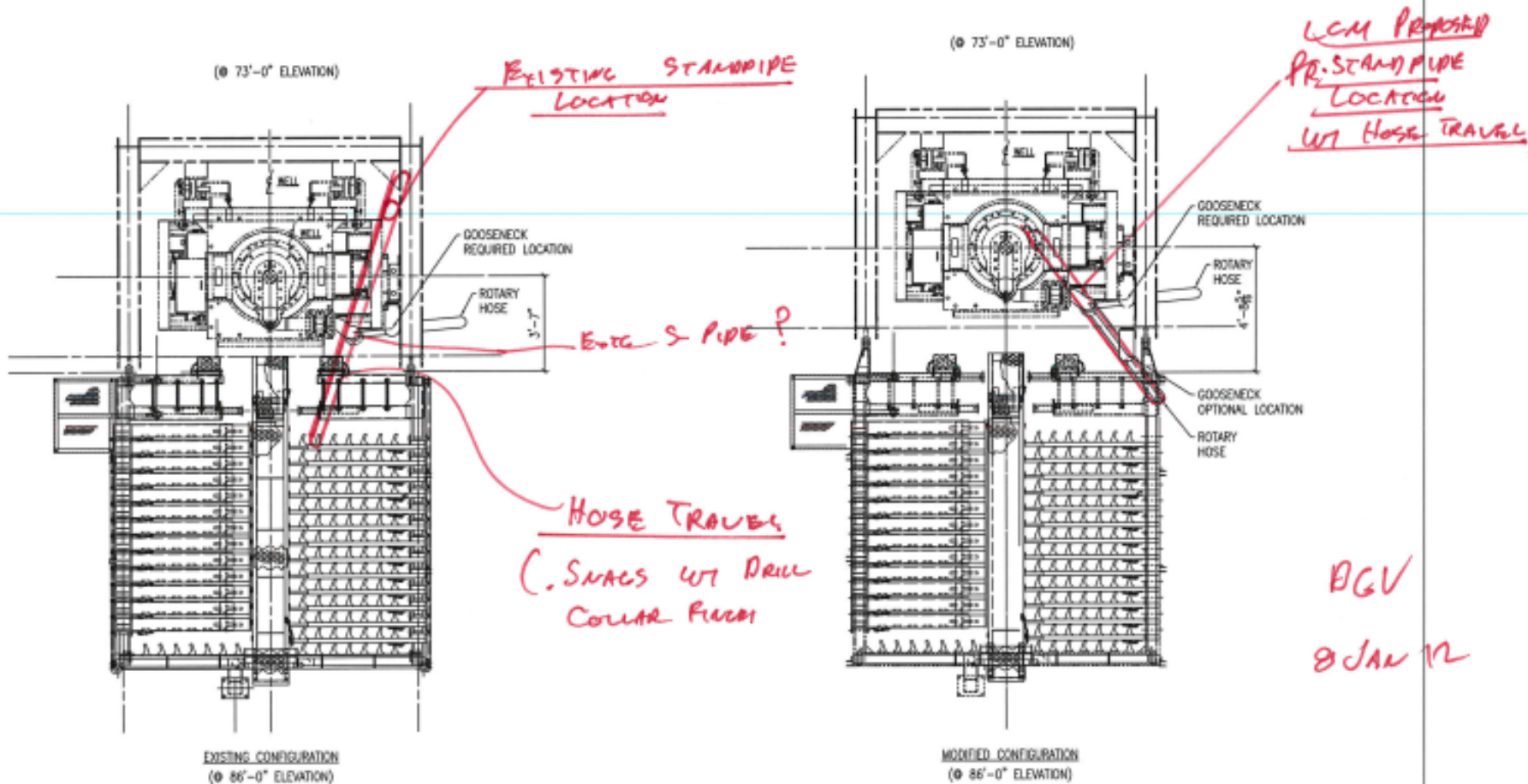


## So here's what happened....

1. Hose wear identified
2. Considered an equipment maintenance issue
3. OEM re-design of money board



# New monkeyboard design





Of course everything arrives  
on-time in the oilfield.....



## Where it started to go wrong....

1. Monkey board arrived in the field on time!
2. Monkey board arrived too late
3. Rig moved to different operator;
  - Higher operating pressure
  - Introduction of drilling stand
4. Management of Change



What's the worst  
that could happen?





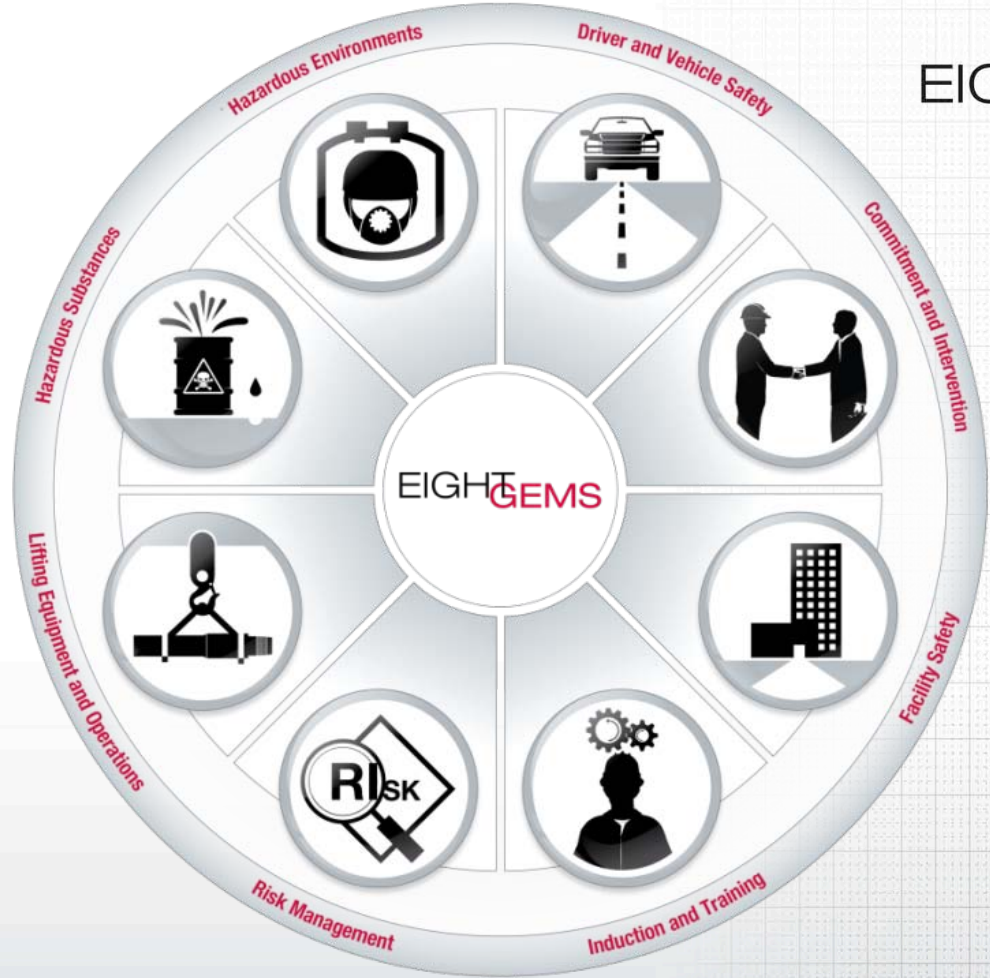


## Analysis

- Accountability
  1. OEM Design
  2. Identification of wear
- MOC: dependent on experience and awareness
- DROPS: covers most but not all
- Video: excellent analysis tool



# EIGHT GEMS



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