



**Helmerich & Payne – IDC's
Composite Catalog of
Oilfield Trash -
2010 Edition**

Volumes



- **Volume 1 – Homemade lifting devices**
- **Volume 2 – Homemade or Modified Tools and Equipment**
- **Volume 3 – Rigging Tools and Attachment Points**
- **Volume 4 – Electrical Devices and Wiring**
- **Volume 5 – LP/HP Connections**
- **Volume 6 – Inadequate Repairs**



Purpose

To educate H&P employees and others within our drilling industry of the hazards that may be encountered while working in drilling operations.

To provide illustrations that will assist in identifying and eliminating “Oilfield Trash” from drilling operations in pursuit of creating and maintaining an injury free work place.



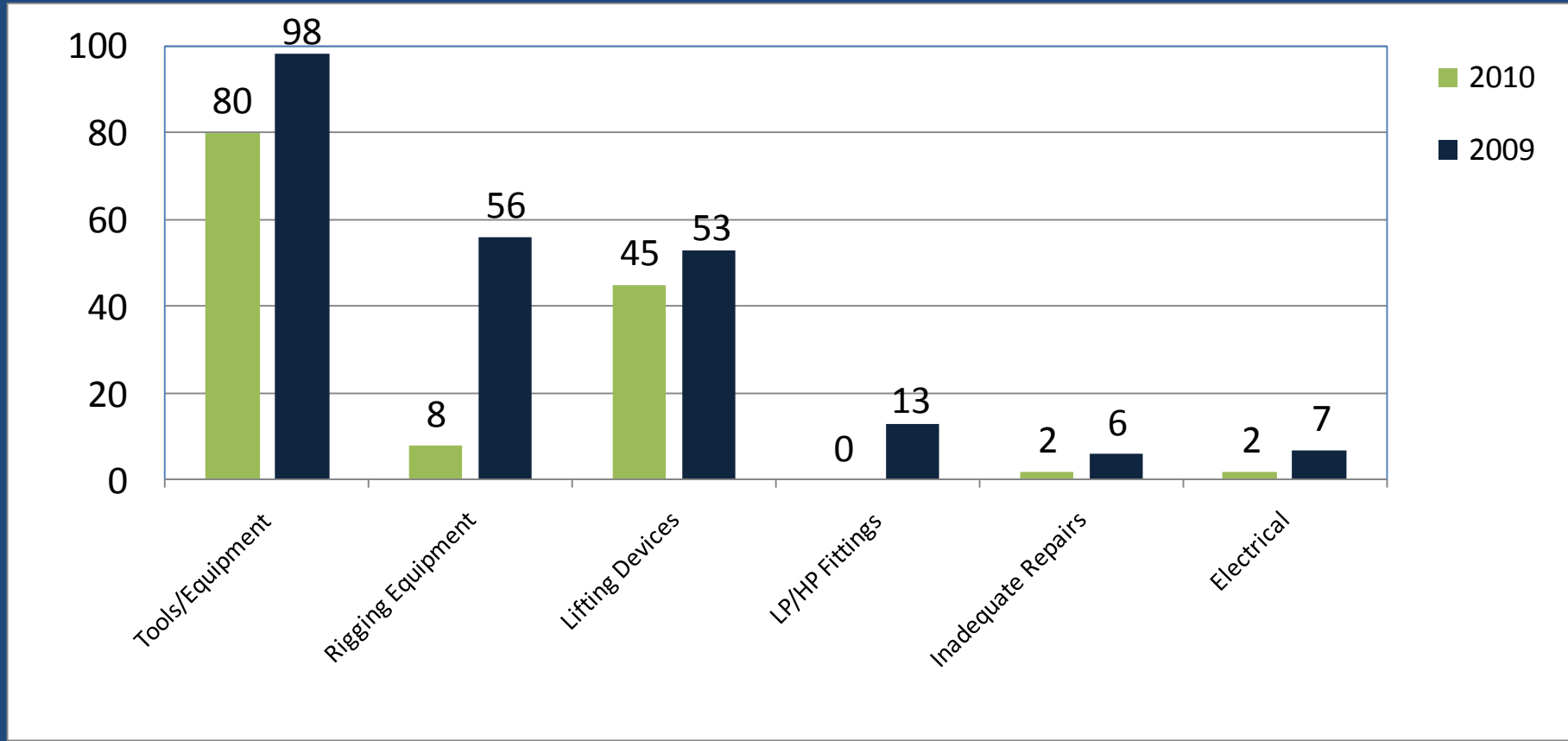
2010 Oilfield Trash Statistics

A total of 137 examples of Oilfield Trash were found across the H&P fleet in 2010.



2010 Vs. 2009

Oilfield Trash Statistics



Volume 1 - Lifting Devices

- **45 Material Handling related Events**
(Includes Homemade Lifting Devices and Rigging)
 - **14 Non-OEM eyebolts/Lifting Eyes**
 - **13 Non-OEM lifting caps**
 - **8 Non-OEM Component Shackles**
 - **10 Others**

Volume 1 - Lifting Devices



THESE HOMEMADE
EYE BOLTS REPRESENT
MULTIPLE POTENTIAL
DROPPED OBJECTS



Volume 1 - Lifting Devices



BECAUSE
OF THE
HIGH
POTENTIAL
FOR
SERIOUS
INJURY IN A
DROPPED
TUBULAR,
THESE
LIFTING
CAPS ARE
SERIOUS
OILFIELD
TRASH



Volume 1 - Lifting Devices



BECAUSE OF THE HIGH
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Volume 2 - Tools and Equipment

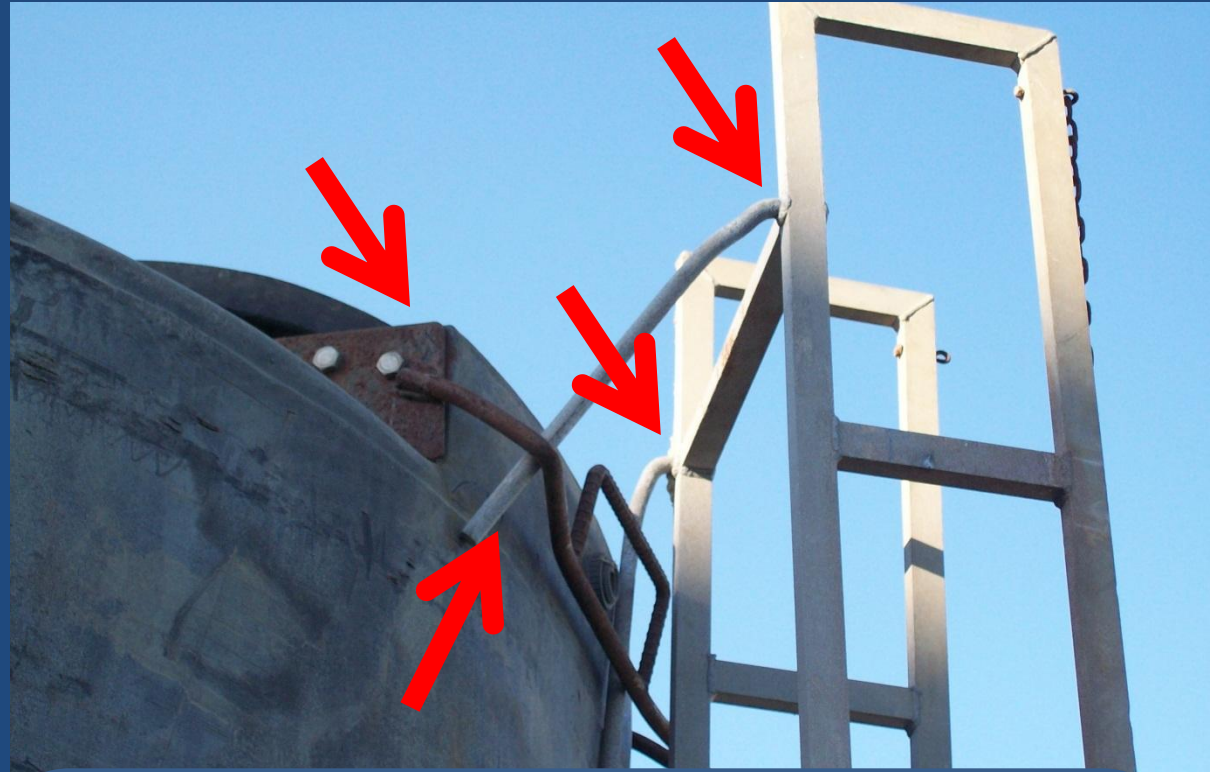


- **This Section includes homemade hand tools and other created tools.**
- **Homemade tools lack engineering in the design, material integrity and/or material strength of the tool.**
- **Homemade hand tools increase the risk of injury.**

Volume 2 – Tools and Equipment

- **80 Tools and Equipment related Events**
 - **35 Hand Tools**
 - **16 Structure/Equipment**
 - **11 Knives/Cutting Tools**
 - **4 Connectors**
 - **1 Power Tools**
 - **13 Others**

Volume 2 - Tools and Equipment



DUE TO THE HEIGHT AND MULTIPLE POINTS OF POTENTIAL FAILURE, THIS OIL TANK LADDER IS A SERIOUS INJURY WAITING TO HAPPEN

Volume 2 - Tools and Equipment



THIS HOMEMADE CHISEL & CABLE
IS A DROPPED OBJECT INJURY
WAITING TO HAPPEN

Volume 2 - Tools and Equipment



TRASH BAG FUEL TANK CAP
SECURED WITH CAUTION TAPE



OR PROPER CAP, ELIMINATING
POSSIBLE INJURY FROM
SPILLAGE OR FLASH FIRE

Volume 2 - Tools and Equipment



UNKNOWN
WHAT THIS
WAS USED
FOR, BUT
THEY WERE
FOUND
CONNECTED

DO TWO
WRONGS
MAKE A
RIGHT?

Volume 2 - Tools and Equipment



NOT SURE
WHAT THIS
HOMEMADE
FUNNEL IS
FEEDING INTO

Volume 2 - Tools and Equipment



HOMEMADE WRENCH MADE OF SHEET METAL

WHAT WAS THE COST IN MAN HOURS
VS COST OF OEM WRENCH?

Volume 2 - Tools and Equipment



SORRY BOSS, I JUST COULDN'T FIND THE
RIGHT HAMMER / WRENCH FOR THE JOB



Volume 2 - Tools and Equipment



....BUT BOSS... THE OEM CHISEL AND
WEDGE DIDN'T WORK WITH MY
HOMEMADE HAMMERS



Volume 2 - Tools and Equipment



DID THE FABRICATOR OF THIS OBT CUTTING DEVICE MAKE THIS ON THE RIG OR IN COUNTY LOCKUP?

Volume 2 - Tools and Equipment

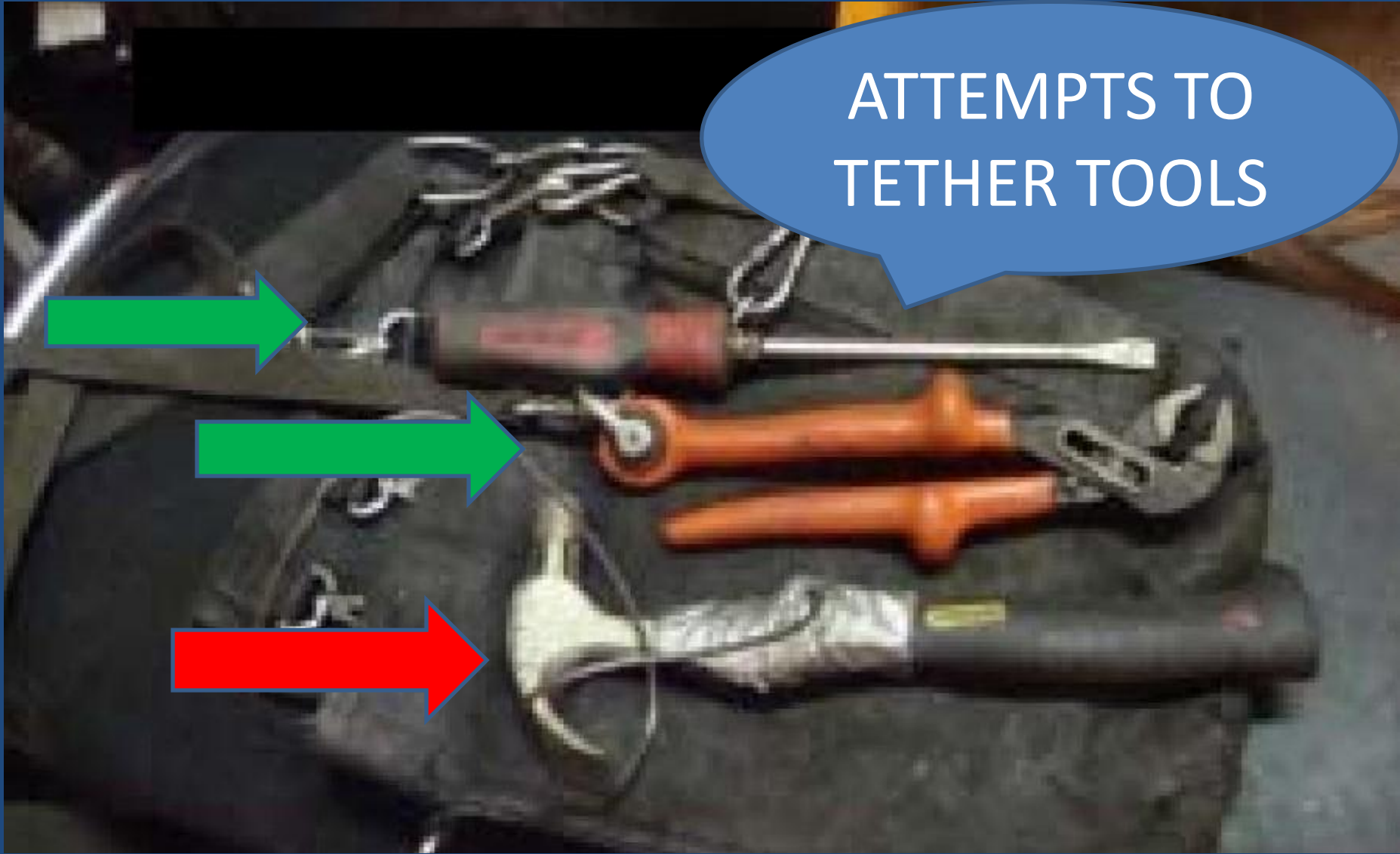
TETHERED TOOL?
ROPE OR TAPE?
WHICH BAD IDEA
CAME 1ST?



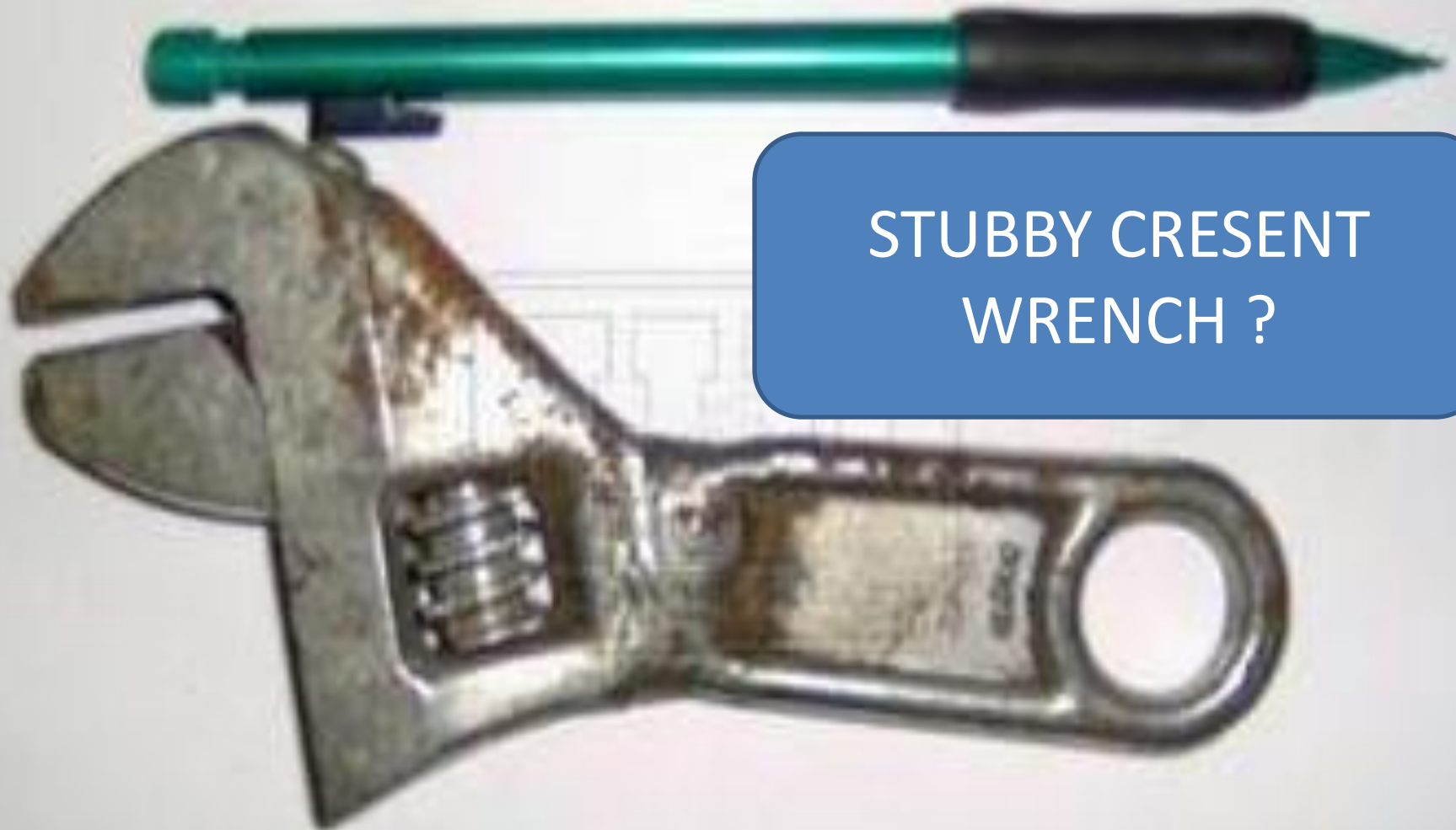
Volume 2 - Tools and Equipment



ATTEMPTS TO
TETHER TOOLS



Volume 2 - Tools and Equipment



STUBBY CRESENT
WRENCH ?

Volume 3 - Rigging Equipment

- **8 Rigging Equipment related Events**
 - **7 Chains/Slings/Cables**
 - **1 Other**

Volume 3 - Rigging Equipment

DO YOU WANT TO BE
THE DERRICKMAN
THAT IS TRUSTING
THIS CLIMB ASSIST
SYSTEM?



Volume 3 - Rigging Equipment

BTAS WITH A
NON-OEM
NUT
INSTALLED.

HOW CAN WE
INSTALL THE
REQUIRED
KEEPER?



Volume 4 – Electrical Devices



- This volume addresses electrical OFT, including homemade extension cords and other electrical devices.
- By improperly repairing or creating makeshift electrical components we increase the risk of electrocution, fire or explosion.

Volume 4 - Electrical Equipment



ELECTRICAL
OUTLET WITH
COVER BROKEN
AND NOT
REPLACED.

INCREASED RISK
OF ELECTRICAL
SHOCK OR
ELECTROCUTION

Volume 5 – LP/HP Fittings



- Combining Low Pressure and High pressure equipment, presents a significant hazard that is responsible for causing multiple fatalities in our industry.
- Particular attention should be given to improper connections in high pressure systems, as this is often times the weakest link in the pressurized system.

Volume 5 – LP/HP Fittings



OFT -
CEMENTING SUB
BROUGHT OUT BY
A THIRD PARTY

WHAT IS THE
PRESSURE RATING
OF THIS DEVICE?

Volume 5 – LP/HP Fittings



THE USE OF THIS HOMEMADE
SWADGE WAS UNKNOWN

Volume 6 – Inadequate Repairs



- Although inadequate repairs are often done with good intentions, these repairs increase the likelihood of failure, damage, and personal harm.
- An inadequate repair hides the damage so that it is overlooked until a catastrophic failure occurs.

Volume 6 – Inadequate Repairs



IS THIS A
TOOL OR A
10-LB
PROJECTILE?

Volume 6 – Inadequate Repairs



THIS DUCT TAPE
REPAIR DISGUISED AN
ENVIRONMENTAL
INCIDENT THAT WAS
WAITING TO HAPPEN

Volume 6 – Inadequate Repairs



WHILE THIS PHOTO IS HUMOROUS, WHAT HAPPENS WHEN THE ROCKS FALL?

ANY VOLUNTEERS TO ASSIST WITH THE CLEAN-UP?

Conclusions

- **We must remain vigilant in inspecting all equipment and parts upon receiving them on location and avoid creating makeshifts in the name of productivity.**

- **OFT is an industry epidemic that must be addressed in order to provide a safe workplace for our field employees, third parties and customers.**

- **Q: How much Oilfield Trash do you have in your operations?**

Credits



The following operations contributed to H&P's Composite Catalog of Oilfield Trash – 2010 Edition. Their active participation in eliminating OFT from the workplace is sincerely appreciated.

117 121 138 164 165 166 167 169
181 182 185 190 220 226 227 229
244 254 275 296 333 334 340 423