

Drops onshore in PNG

Are we managing them?

What I will discuss



- What do we have to manage drops?
- Drops incidents in HAES
- Collectively, what else can we do?






How we manage Drops



- Drops Surveys
 - Specific to each rig
 - Each section is colour coded
 - Reviewed as amended as required
- Drops Inspections
 - Coincide with Drops Survey
 - Formally conducted weekly, monthly and post jarring
 - Informally conducted daily or as required



Crown Section (Incl Casing platform)

Ref	Equipment / Area	Fastening Method	Tag Number	Risks	Control	Photo
1	Deadman Sheave ODS	Secured with safety lock bearing pin. Pin secured with 3 x bolts with bolt head moused off on each side of the bearing pins. Main shaft is tie wired between nuts	A01	Low	<p>A quick visual inspection will be conducted weekly by the Derrickman. An inspection will also occur when greasing the crown sheaves and/or prior to raising or lowering Derrick.</p> <p>A formal recorded inspection will be conducted by the AD/Driller monthly or early as the operation dictates</p> <p>See the "Drop Objects Monthly Inspection Sheet"</p>	
2	Deadman Sheave Jumper Bar	Jumper Bar support plate is secured to a support brace with is secured to the Crown Frame with bolt, locking nut, spring washer and clip.	A02	Low		See picture above
3	Fast line Sheave DS	Secured with safety lock bearing pin. Pin secured with 3 x bolts with bolt head moused off on each side of the bearing pins. Main shaft is tie wired between nuts	A03	Low		
4	Fast line Sheave Jumper Bar	Jumper Bar support plate is secured to a support brace with is secured to the Crown Frame with bolt, locking nut, spring washer and clip.	A04	Low		See picture above
5	Cross Over Sheave	Secured with safety lock bearing pin. Pin secured with 3 x bolts with bolt head moused off on each side of the bearing pins. Main shaft is tie wired between nuts	A05	Low		
6	Cross Over Sheave Jumper Bar	Jumper Bar support plate is secured to a support brace with is secured to the Crown Frame with bolt, locking nut, spring washer and clip.	A06	Low		See picture above



Rig 103 Dropped Object Monthly Inspection



(Log all Drop inspections in the IADC Report)

Items identified which require rectification and cannot be action and rectified at the time of the inspection are to be carried over to the rigs Corrective Action Register. Each item is to be monitored through to closure.

Date		Currently Drilling Operation	
Inspector(s) Name		Position	

Crown and Casing Board

Ref	Equipment / Area	Inspection Criteria	OK	Action reqd	What action was required
1	All Crown and Casing Platform Sheaves	Check that main shaft is tie wired between nuts			
		Check all bolt are tight and moused			
		Check safety lines is attached and in good condition			
2	Crown Sheave Jumper Bars	Check support locking nuts, spring washer on both sides are tight.			
3	Derrick Fall Arrestor Post	Check post is recessed fully and secured by a pin and safety pinned both sides.			
4	Strobe Light Casing Platform	Check all 4 nut and bolts to face plate are tight			



How we manage Drops



- Purpose built Drops Toolbox
 - Each rig has there own
 - Kept in the Safety Office
 - Tools ONLY used for working at heights i.e. above the rig floor in the sub base.
 - Controlled under the PTW system
 - All tools logged in/out

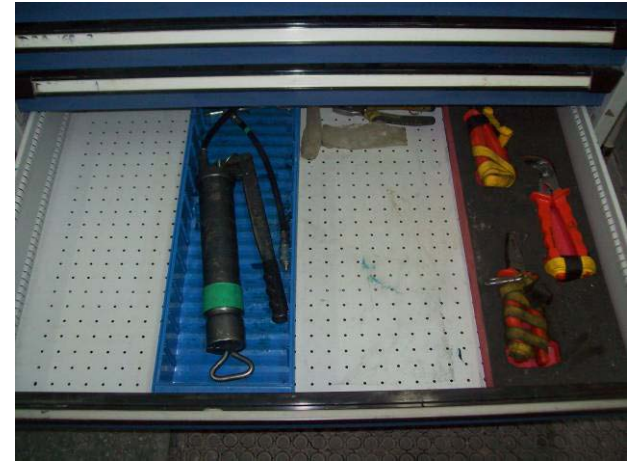
 DROPS	TOOLS / EQUIPMENT IN DERRICK LOG SHEET	 HIGH ARCTIC ENERGY SERVICES P.N.G.
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Qty	Description of Tool / Equipment	Used On	Permit No.	Log Out			Log In			Comments
				Signed Out By	Safety Officer	Date	Signed In By	Safety Officer	Date	





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Every Tool has a place for connection to either the hand lanyard or drops bag lanyard

Every Tool Has a Specific Location – with a cut out in the foam of the Tool Drawer

Every Tool Has a Yellow Tag Identifier

How we manage Drops



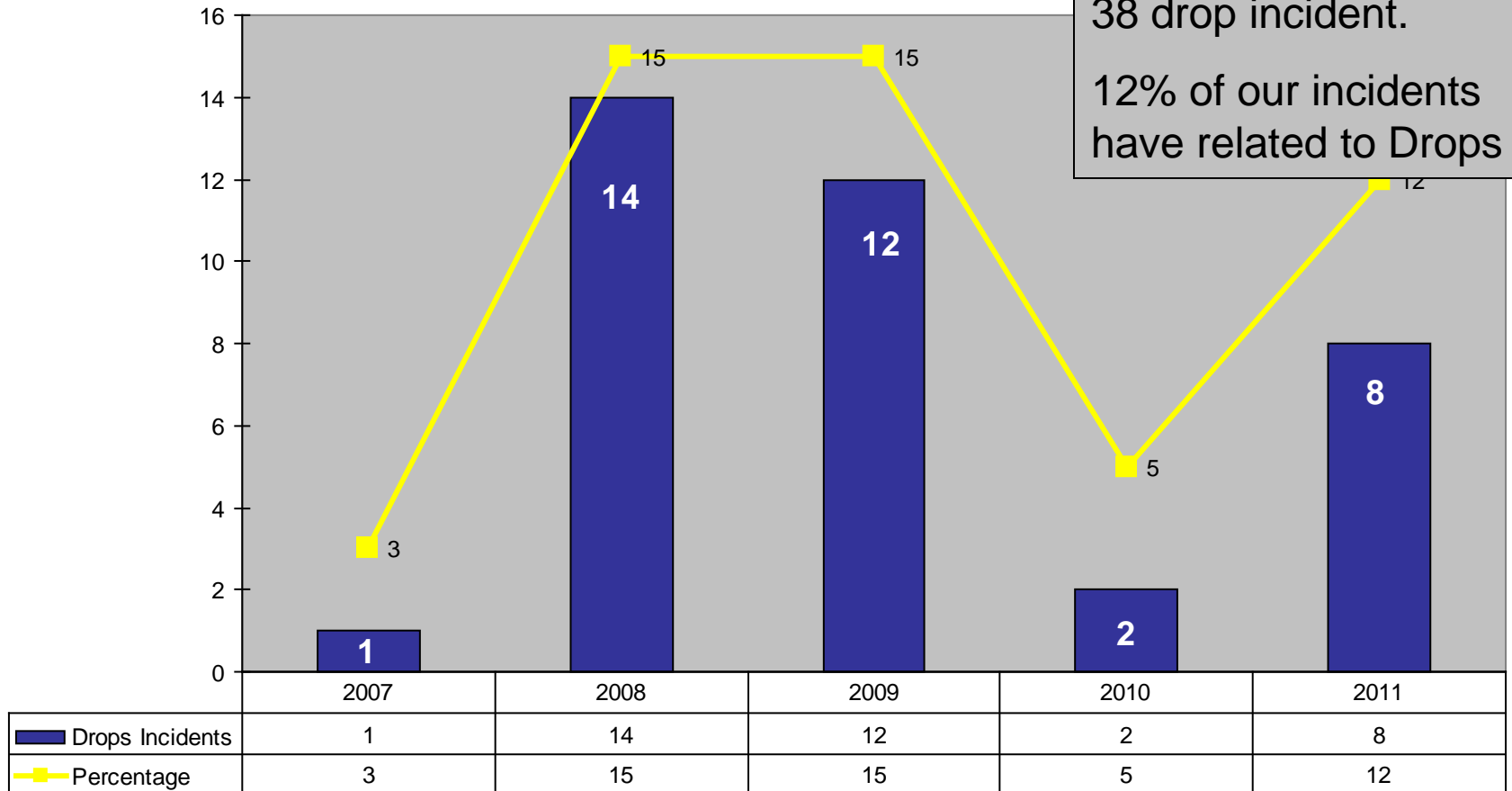
- Policy, procedures and training
 - We have a governing Drops Procedure
 - Specific Drops Procedures
 - Drops Training conducted for all new employees.
 - Actively use the Drops Calculator for all drops incidents.



So why are there still drops?



Overall 2007 – 2011
38 drop incident.
12% of our incidents
have related to Drops



Other statistics



- Incident Breakdown - 29 NMS, 8 Damage, 1 FAC
- 7 of the 38 related to dropped tools or equipment
- **8 drops related to OEM equipment which could have been better designed.**
- 3 related to dropped casing/tubing down v-door caused by procedures not followed or known.
- 2 were loads from trucks
- 3 related to parted winch lines.
- 1 related to the side of a PCH house that flew off during rig move flying



What else can we do



- We have good drops surveys, inspections, training, procedures.
- Drops is so well educated everyone is more than aware – something may drop.
- Have we become too aware and less proactive.
- Are OEM's actively trying to reduce drops objects. 21 percent of our incident could have been avoided if better designed by the OEM.



Thank you



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