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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Last Issue Date** | | | **Task and Revision Number** | | | | | **11 December 2017** | | | **240-DOP-1013A Revision: 1** | | | | | **Task Name:** | Lay Down Tubulars | **Job Location:** | | Rig Floor | **PART A (1 of 2)** |  | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Documentation** | | | | | | Hot Work | Cold Work | Isolation | Confined Space | Lift Plan | |  |  |  |  |  | | |  |  | | --- | --- | | **Safety Critical Considerations** | **Occupational Health Controls** | |  | Review MSDS for thread dope being used. | |
| |  | | --- | | **RMS References** | | Red Zone RMS-QHSE-0116  Green on Green RMS-DOP-013  Lifting Operations RMS-DOP-904  Lifting Equip. Procedure RMS-DOP-909  Manual Handling Operation Policy RMS-QHSE-0109  Platinum Rules RMS-WCM-003 | |
| |  |  | | --- | --- | | **Key Personnel** | **Drill Crew and Crane Crew** | | **Specific PPE** | **Safety Harness** | | **Specific Tools** | **Iron Roughneck, Correct Size Handling Equipment (Slips, Elevators, Single Joint Elevators), Signalers Vest** | | |
| |  |  |  |  | | --- | --- | --- | --- | | **Step** | **Work Activity** | **Known Hazards** | **Base Line Control** | |  | Lay down Tubulars DOP-1013 RSOP has been developed to control the method for laying down tubulars not requiring special consideration and should be used in most cases.  Any tubulars with special considerations will require a series 5000 RSOP to be developed for use by the rig | | | | **1** | **Check elevator and slip size and condition.**  **Verify correct sizes using calipers on the tubular as well as the handling tools.**  Latch elevators to the stump.  Raise the string, and pull the slips. | Hand and body crush between the elevators and stump.  **Automated Slips;** Hands and other body parts caught in moving parts.  **Manual Slips;** Muscle strains when pulling/setting the slips. | Pay attention to hand placement.  Green on Green policy/procedure.  Use proper lifting techniques and team work when pulling/setting the slips. | | **2** | Pull joint, and set slips, verify adequate distance for latching elevators on stump.  When instructed by the driller, position the Wrangler to receive the pipe. | **Automated Slips;** Hands and other body parts caught in moving parts.  **Manual Slips;** Muscle strains when pulling/setting the slips.  Dropping a joint on someone, or damaging equipment.  Crushed between Wrangler and loads coming in and out of the V-door and equipment on the drill floor. | Pay attention to hand placement.  Green on Green policy/procedure.  Use proper lifting techniques and team work when pulling/setting the slips.  Ensure that **ALL** handling tools are the correct size for the tubulars being utilized.  Never turn your back to the V-door.  Enforce Red Zones. | | **3** | Position the iron roughneck, break and spin out the joint.  Retract and store the iron roughneck. | Being crushed between the iron roughneck and the drill pipe, or in the mechanics of the unit itself. | Enforce Red Zone. Keep personnel clear.  NEVER get between the iron roughneck and the drill pipe.  Enforce Red Zone. Keep personnel clear. |  |  |  |  |  | | --- | --- | --- | --- | | **Step** | **Work Activity** | **Known Hazards** | **Base Line Control** |  |  |  |  |  | | --- | --- | --- | --- | | **4** | Raise the joint with the TDS & activate the link tilt toward the trough  Clean and dope threads and shoulder face.  Install the protector on the pin.  Activate the link tilt to drill position. | Dropping a joint on someone, or damaging equipment.  Threads hanging up in the box, then coming free suddenly, and hitting someone, or dropping the string  Threads not cleaned, lubed, or protected properly, can cause problem later.  Thread protector not being installed properly and falling off hitting someone, or threads of pipe getting damaged.  Falling from the V-door. | Ensure that ALL handling tools are the correct size for the tubulars being utilized.  Come up slowly with TDS when pulling a joint from a connection.  Properly clean and lube the pipe threads, and install the protector to the shoulder.  If the V-door is not properly barricaded, a safety harness should be worn by whoever is working it. | | **5** | Ensure skate is positioned to catch pin of joint.  Push or have two people standing off to both sides of the wrangler with a rope to pull the joint over the skate.  Lower the pin onto skate, once joint is on the skate, continue to slack off on TDS.  The Pipe Wrangler operator will lower the skate keeping up with the TDS as it descends. | Moving equipment can crush and cut off body parts.  Running over the joint with the TDS.  Losing the joint off of the Wrangler. | Pay attention to hand placement.  Green on Green policy/procedure.  Be aware of moving equipment. Especially the chain that operates the skate.  Red Zone , do not stand between elevators & stump.  The driller and Wrangler operator must work together.  Use radio if needed.  Keep windows of the drillers shack clean. | | **6** | Once the pipe is close to the trough or resting on the Wrangler, release elevators from joint. Wrangler operator may have to skate the joint toward the stump for elevators to open.  Once elevators have opened, lower the back arm of the wrangler to lift joint from elevators.  Activate link tilt toward stump, lower TDS & latch elevators.  Skate pipe away from rotary & raise back arm.  Clean and dope box and install the box end protector once lying on the Wrangler. | Moving equipment can crush and cut off body parts.  Hands and any other body parts that get between the elevators and stump will be crushed.  Threads not cleaned, lubed, or protected properly, can cause problems later.  Thread protector not being installed properly and falling off hitting someone, or threads of pipe getting damaged. | Red Zone recognition and awareness of surroundings.  Be mindful of where the pipe wrangler is at all times stay clear of pipe wrangler path.  Properly clean and lube the pipe threads, and install the protector to the shoulder.  Have protectors staged to the side for easy access. | | **7** | Exit V-Door with Pipe Wrangler. | Joint rolling off of the Wrangler. | Enforce Red zone beneath V-door.  Wrangler operator make sure area on cantilever is clear before lowering joint to cantilever. |  |  |  |  |  | | --- | --- | --- | --- | | **Step** | **Work Activity** | **Known Hazards** | **Base Line Control** |  |  |  |  |  | | --- | --- | --- | --- | | **8** | The Wrangler operator will kick the single onto the gull wings. | Joint rolling off of the gull wings injuring men working nearby.  Injury to skin and eyes due to coming in contact with drilling or completion fluids. | Ensure not to have gull wings to low.  Do not pull joint from trough if it does not kick out, push the joint out.  Make sure stanchion posts are in position in case joint rolls off of the gull wings. | | **9** | When the pre-determined number of joints is rolled onto gull wings, the crane operator will remove the joints from the gull wings.  Continue with steps 1-9 until the required number of joints are laid down. | Dropped objects, pinch points.  Injury to skin and eyes due to coming in contact with drilling or completion fluids. | Be mindful of pinch points when wrapping pipe on gull wings.  Ensure to wrap all 6 joints and wrap both sets of slings the same way and direction. | | |

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| |  |  | | --- | --- | | **Workplace Risk Assessment (To Be Completed at The Job Site)** | **PART B (2 of 2)** | |
| |  |  |  |  | | --- | --- | --- | --- | | **Job Supervisor Name** |  | **Date** |  | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Job Steps** | **Specific Potential Hazards** | | | | **Specific Hazard Additional Controls** | | | | | | **Responsible** | | |  |  | | | |  | | | | | |  | | |  |  | | | |  | | | | | |  | | |  |  | | | |  | | | | | |  | | |  |  | | | |  | | | | | |  | | |  |  | | | |  | | | | | |  | | |  |  | | | |  | | | | | |  | | | Pre-Job Safety Meeting? | |  | Open Questions Used? |  | | Task Understood? |  | Superior Appointed? |  | SWA Promoted? | |  |  |  | | --- | | **Lessons Learned From Industry** | | Incident Date: January 26th 2013 2013-7  Rowan HSE Alerts are intended communicate fleet wide information on recent safety, health and environmental related incidents that occur on either a Rowan installation or other drilling installation. Please contact the HSE Department for further information. Thank you!  **Laying Out Pipe Causes Injury to Foot:**  During the operation of laying out drill pipe on the cantilever deck, the crew began removing the slings from the bundles. One sling became stuck between two pieces of drill pipe, causing an employee to force the sling free. The joints of drill pipe began to separate; rolling toward the individual as he attempted to escape by jumping off the previously stacked drill pipe. The rolling drill pipe caught the individual’s right foot between the joint of drill pipe and the Samson post.  **Causes:**  Injured person did not have a safe exit route when the drill pipe began to roll towards him. Stop Work Authority (SWA) was not utilized when the unsafe action began and slings that were used to land the pipe were too short for the job.  **Corrective Action:**  Chokes or rope stubs are to be used to separate tubulars, escape routes shall be established and understood by the crew before the job begins, and an HSE Alert shall be generated. | |
| |  |  |  | | --- | --- | --- | | **Work Party Sign: Risks are acceptable as per RMS-QHSE-0107 Risk Assessment Procedure. I understand the task and my role.** | | | |  | | | |  | Additional AA (If required) |  | |