

Task Risk Control Sheet

Use of Permaquip / Geismar THR542 Stressing Equipment

RCS No: NR/L3/MTC/RCS0216/SP13
Issue: 3

Key Risks!

- Re-fuelling– Fire / Explosion
- Hydraulic Oil Injection
- Manual Handling
- Flying parts

Personnel Involved

E&P	
S&T	
Track	✓
Off Track	
Property	

Tools / Equipment Stressing Tensors, Stressing Pump/Power pack

Plant None

Key Risks	Controls	Implemented By
Pre use Checks	<ul style="list-style-type: none"> • Planned preventative maintenance programme shall be in place • Inspect equipment for damage and check inspection date on the tag • The Geismar THR542 will not work when coupled to a Permaquip or SPX Power Team stressing power pack • Carry out pressure check before leaving the depot - Pump Rams out fully and completely home. When Rams are fully extended check for rust or burrs, which may damage high pressure seals. Check pins for any sign of damage. If damaged they will have to be replaced. 	Line Manager Staff Team Leader
Hydraulic Oil and Hydraulic Oil Injection	<ul style="list-style-type: none"> • Do not use the Hydraulic Hoses to move the Power Pack/hand pump or Hydraulic Rams. • Do not allow the hoses to kink, twist, curl or bend. • Do not allow the hoses to come into contact with corrosive substances such as paint or oil • All couplings shall be kept clean and covers replaced after use • Pressure shall be released and lines shall be purged before uncoupling • Do not store hydraulic pipes in direct sunlight • Never use your hand to grab a leaking hose under pressure • If a leak occurs stop pumping or turn the pump off and remove the pressure • Use barrier cream or latex type gloves to protect the skin from hydraulic oil 	Team Leader / All Staff
Manual Handling	<ul style="list-style-type: none"> • See Risk Control Sheet NR/L3/MTC/RCS0216/GH01 – Manual Handling 	Team Leader
Equipment damage - All	<ul style="list-style-type: none"> • Do not drag the Stressor or Power Pack/hand pump along the ballast • At the end of a shift rams shall be fully retracted and then extended slightly before transporting • One person only shall direct operations 	All Staff / Team Leader
Equipment damage- PERMAQUIP	<ul style="list-style-type: none"> • Prior to starting the power pack the engaging lever shall be in the disengaged position. Once the engine is running the lever shall be put into the engaged position. 	

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Equipment damage – GEISMAR THR542	<ul style="list-style-type: none"> At the end of the shift the C Clamp locking washers shall be replaced Rams shall be fully retracted prior to transportation Prior to Pumping the Spanners shall be fitted over the locking nuts Prior to Pumping check the connecting nuts are correctly attached Prior to Pumping check the claws contact faces are clean Prior to Pumping check that the two tie bars are fully engaged and tightened equally On operation to avoid bending the tie bars check equipment continuously during use to check all concave faces on the location washers are seated correctly On setting up the equipment check that all the yoke assembly, lever plates and Jaws are square and aligned At 5 ton intervals and once 10 ton has been applied stop the stressing operation and check for signs of misalignment, such as bending tie rods damaged split pins that secure the thrust blocks and jaws. If distortion appears cease operation release pressure on pump and re assemble. Recheck equipment squareness and alignment and cylinders are fully retracted The GEISMAR kit can only be used by competent staff Correct positioning of the equipment shall be maintained at all times see diagram below 	Lead Operative
		Lead Operative
		Team Leader/Staff

