## QLD MINERALS COUNCIL OHS INNOVATIONS AWARDS - 2008

Innovations Data	
<b>"THE JACK OF</b>	
HEARTS"	
Self locking Heavy Equipment Jack	
As part of the Rio Tinto safety strategy we	-
have set standards that need to be followed (The	
GM's Golden Rules).	
Rule #3 Never work under a suspended load.	
This new jacking system will allow us to operate more effectively within these rules.	
"THE JACK" is a combination jack &	
support stand in one unit & removes the need for personnel to be under the machines to position supports, whilst relying on the hydraulic system or a standard Jack.	
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Benefit (Brief description of outcomes, emphasising OHS benefits. Include any factors affecting successful implementation of solution)	This Jack and the way that it functions could be used in almost any application where there is a requirement for heavy equipment to be lifted and supported to ensure the safety of personnel under the supported loads.
Additional Information (Any information of general interest e.g. other benefits or features of innovation)	We checked to see if there was currently a jack available that could be used for this task that did not require the operator to be under the load to position a support stand or the locking device. We were surprised that there was nothing that suited. We believed a fit for task Locking Jack Stand could be produced. Using relatively basic engineering and design principles, "THE JACK" provides cost effective & safe support for heavy equipment.
	<ul> <li>The new jack will make it simpler to lift and support machines that are not running that have in the past relied on onboard hydraulic implements to do the lifting.</li> <li>This new jack will allow machines to be lifted, supported and lowered without the need for personnel to be under a suspended load to operate the jack or place support stands.</li> <li>Because the jack both lifts and supports, only one piece of equipment needs to be positioned prior to raising. This significantly lowers the manual handling risks along with maintaining a clear workspace.</li> <li>Only one person is needed to do this task, in the past a single person was needed to operate the stands.</li> <li>A simple counterweight lever enables or disables the locking device for raising or lowering "THE JACK".</li> <li>SIMPLE, COST EFFECTIVE &amp; SAFE.</li> </ul>
Cost	<ul> <li>Myles Huntly:- Site Reliability Engineer</li> <li>Project Costs to Date - \$53,500 including R&amp;D Costs.</li> </ul>

	<ul> <li>To complete with 4 stands \$134,000</li> <li>Current Jacks alone \$20,000+ support stands.</li> </ul>
Year (Year the innovation was implemented, e.g. 2004)	2008
Photo or Diagram (Filename of graphic file to be attached to this innovation. e.g. machine.gif or photo.jpg)	
Caption	
(Caption to accompany photo and/or diagram)	"THE JACK OF HEARTS" Self locking Heavy Equipment Jack
Is the innovation free of copyright? (Put an X beside the correct answer)	Yes X No

CONTACT DETAILS		
Field Name	Data	
NOTE: Complete as many fields as you have details.		
Company		
(workplace in which innovation was developed)		
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