

TXD Rig Risk Management Framework – taken from WestSide TXD Rig risk assessment		West Side & Eastcore JRA Completed (monitor for continual improvement)	West Side Procedure (reformatted from existing SWP's)	East Core HSE MS
1. Drill pad set up (DPS)			<ul style="list-style-type: none"> <li>• Drilling program, community liaison procedure.</li> <li>• Sub contractor Management – Drill pad construction.</li> </ul>	
2. Mobilisation (M)			<ul style="list-style-type: none"> <li>• (M TXD PRO 01) Rig mobilisation to site</li> <li>• (MTXD PRO 02) Rig mobilisation from yard to site</li> <li>• (M TXD PRO 03) Travelling from camp to the drill site</li> <li>• WestSide Contractor Management – Dedicated rig move logistics company.</li> </ul>	
3. Rig Set up (RS)	Spotting of the rig carrier		<ul style="list-style-type: none"> <li>• (RS TXD PRO 01) Align rig over existing hole</li> </ul>	
	Raising of the derrick / mast	<ul style="list-style-type: none"> <li>• (RS JRA TXD 01) Attaching Iron Roughneck to mast</li> </ul>	<ul style="list-style-type: none"> <li>• (RS TXD PRO 02) Rigging up</li> <li>• (RS03) Raising mast on SCHRAMM TXD</li> <li>• (RS TXD PRO 04) Attaching roughneck to SCHRAMM TXD mast</li> </ul>	<ul style="list-style-type: none"> <li>• Eastcore contactor management – sub contractors (Lee crane hire)</li> <li>• Eastcore JRA general purpose lifting</li> </ul>
	Spotting of pipe handler to the derrick	<ul style="list-style-type: none"> <li>• (RS JRA TXD 02) Setting up pipe/casing rack</li> </ul>		
	Pinning pipe handler to the derrick	<ul style="list-style-type: none"> <li>• (RS JRATXD 02) Setting up pipe/casing rack</li> </ul>		
	Hooking up of mud lines	<ul style="list-style-type: none"> <li>• (RS JRA TXD 03) Shaker unit set up and operation</li> <li>• (RS JRATXD 04) Positioning</li> </ul>		

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		mud pumps and hooking up mud lines (4/7/2012)		
	Plugging connection of air and electrical equipment	<ul style="list-style-type: none"> <li>(RS JRA TXD 05) Working at height setting up rig</li> <li>(RS JRA TXD 06) Attaching lighting to mud shaker unit</li> <li>(RS JRA TXD 07) Attaching lighting to offsidiers table platform</li> </ul>	<ul style="list-style-type: none"> <li>(RS TXD PRO 05) Setting up Auxiliary pump</li> </ul>	<ul style="list-style-type: none"> <li>Eastcore PTW system</li> <li>Eastcore ERP – height rescue</li> <li>Eastcore contactor management (sub-contractor to install and test hydraulic controls Pirtek)</li> </ul>
	General housekeeping; stairs, fire extinguishers	<ul style="list-style-type: none"> <li>(RS JRATXD 08) Working at height after rig set up</li> </ul>	<ul style="list-style-type: none"> <li>(RS TXD PRO 06) Pre-spud checklist</li> <li>(RS TXD PRO 07) Setting up drill floor and pipe handler</li> </ul>	<ul style="list-style-type: none"> <li>East core pre spud inspection check list</li> <li>Eastcore PTW system</li> </ul>
<b>4. Drilling operations (DO)</b>	Drill surface hole to TD	<ul style="list-style-type: none"> <li>(DO JRA TXD 01) Drill pipe/casing management and transfer</li> <li>(DO JRA TXD 02) Lifting of pipe/casing from rack to mast</li> </ul>	<ul style="list-style-type: none"> <li>(DO TXD PRO 01) Leak off test</li> <li>(DO TXD PRO 02) Logging hole</li> <li>(DO TXD PRO 03) Cut off conductor at ground level</li> <li>(DO TXD PRO 04) Run in hole with pipe lifter trailer</li> <li>(DO TXD PRO 05) Mud pump operation</li> <li>(DO TXD PRO 06) Mud tank operation</li> </ul>	<ul style="list-style-type: none"> <li>SHRAM TXD operations manual.</li> </ul>

TXD Rig Risk Management Framework – taken from WestSide TXD Rig risk assessment		West Side & Eastcore JRA Completed (monitor for continual improvement)	West Side Procedure (reformatted from existing SWP's)	East Core HSE MS
	Make up and run surface casing to TD	<ul style="list-style-type: none"> <li>(DO JRA TXD 01) Drill pipe/casing management and transfer</li> <li>(DO JRA TXD 02) Lifting of pipe/casing from rack to mast</li> </ul>		
	Cement surface casing		<ul style="list-style-type: none"> <li>WestSide Contractor Management – pre qualification</li> <li>WestSide Drill Plan</li> <li>Onsite supervision (Company Man)</li> </ul>	
<b>5. Nipple up BOP and Choke Manifold (BOP)</b>	Install well head	<ul style="list-style-type: none"> <li>(BOP JRA TXD 01) Install well head &amp; nipple up BOP, and connect diverter</li> </ul>	<ul style="list-style-type: none"> <li>Well head Equipment running procedures for: 9-5/8" x 7" x 2-7/8" conventional well head assembly with 11" 5M casing head.</li> </ul>	<ul style="list-style-type: none"> <li>Prestart meetings</li> <li>Drilling competencies</li> <li>Step back 5x5</li> </ul>
	Install BOP on surface casing well head	<ul style="list-style-type: none"> <li>(BOP JRA TXD 01) Install well head &amp; nipple up BOP, and connect diverter</li> </ul>	<ul style="list-style-type: none"> <li>Well head Equipment running procedures for: 9-5/8" x 7" x 2-7/8" conventional well head assembly with 11" 5M casing head.</li> </ul>	<ul style="list-style-type: none"> <li>Prestart meetings</li> <li>Drilling competencies</li> <li>Step back 5x5</li> </ul>
	Connect choke manifold )and flare line)	<ul style="list-style-type: none"> <li>(BOP JRA TXD 02) Setting up choke manifold well control manifold and flare line</li> </ul>	<ul style="list-style-type: none"> <li>Well head Equipment running procedures for: 9-5/8" x 7" x 2-7/8" conventional well head assembly with 11" 5M casing</li> </ul>	<ul style="list-style-type: none"> <li>Prestart meetings</li> <li>Drilling competencies</li> <li>Step back 5x5</li> </ul>

TXD Rig Risk Management Framework – taken from WestSide TXD Rig risk assessment		West Side & Eastcore JRA Completed (monitor for continual improvement)	West Side Procedure (reformatted from existing SWP's)	East Core HSE MS
			head.	
	Pressure test all equipment			
	Well control		<ul style="list-style-type: none"> <li>WestSide Well Control Plan</li> <li>WestSide Drill Plan</li> </ul>	
<b>6. Drill radius bend section of well</b>	Drill hole to TD	<ul style="list-style-type: none"> <li>(DO JRA TXD 01) Drill pipe/casing management and transfer</li> <li>(DO JRA TXD 02) Lifting of pipe/casing from rack to mast</li> </ul>	<ul style="list-style-type: none"> <li>WestSide contractor management – Pre qualification (Directional drillers Integrated drilling services)</li> </ul>	
	Make up and run casing to TD	<ul style="list-style-type: none"> <li>(DO JRA TXD 01) Drill pipe/casing management and transfer</li> <li>(DO JRA TXD 02) Lifting of pipe/casing from rack to mast</li> </ul>		
	Cement radius / intermediate casing		<ul style="list-style-type: none"> <li>WestSide Contractor Management – pre qualification Baker Hughes Cementing</li> <li>WestSide Drill Plan &amp; Onsite supervision (Company Man)</li> </ul>	
<b>7. Drill horizontal / lateral section of well</b>	Drill hole to TD	<ul style="list-style-type: none"> <li>(DO JRA TXD 01) Drill pipe/casing management and transfer</li> <li>(DO JRA TXD 02) Lifting of pipe/casing from rack to mast</li> </ul>	<ul style="list-style-type: none"> <li>WestSide contractor management – Pre qualification (Directional drillers Integrated drilling services)</li> </ul>	
	Install BPV (Back pressure valve)			

TXD Rig Risk Management Framework – taken from WestSide TXD Rig risk assessment		West Side & Eastcore JRA Completed (monitor for continual improvement)	West Side Procedure (reformatted from existing SWP's)	East Core HSE MS
	Pressure test			
	Remove BOP's			
<b>8. Rig out (RO)</b>	General housekeeping; stairs signs, fire extinguishers	<ul style="list-style-type: none"> <li>(RS JRA TXD 08) Working at height after rig set up</li> </ul>	<ul style="list-style-type: none"> <li>(RO TXD PRO 01) Rigging down</li> </ul>	<ul style="list-style-type: none"> <li>Plant inspection checklists.</li> <li>Hazard identification cards etc.</li> <li>PTW System</li> </ul>
	Disconnection of air and electrical equipment			
	Disconnect of mud lines			
	Disconnect pinning pipe handler from the derrick			
	Removal of pipe handler			
	Lowering of the derrick / mast			
	Removal of the rig carrier			
<b>9. Sub-contractor Management</b>			<ul style="list-style-type: none"> <li>WestSide Contractor Management and Prequalification</li> </ul>	<ul style="list-style-type: none"> <li>Eastcore contractor management &amp; prequalification.</li> </ul>
<b>10. Hazardous zones</b>		<ul style="list-style-type: none"> <li>SMRS provided hazardous area classification report &amp; recommendations.</li> <li>AS/NZS 60079.10 – Methane Gas zone 2 - 8m vertically, and 4.5 m laterally from all points of release. (ref schedule 1 of P&amp;G Reg's)</li> </ul>		
<b>11. Training</b>	Training of rig operational SOP's			

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	Training new lease hands			<ul style="list-style-type: none"> <li>• Eastcore Training matrix</li> </ul>
	Mandatory drilling competencies			<ul style="list-style-type: none"> <li>• Eastcore Training Matrix</li> </ul>
<b>12. On site safety Management</b>			<ul style="list-style-type: none"> <li>• Westside drilling program – Company Man on site at all times.</li> </ul>	<ul style="list-style-type: none"> <li>• Eastcore HSE Advisor 5 days / week 12 hour day light shift.</li> </ul>
<b>13. Emergency management procedures</b>				<ul style="list-style-type: none"> <li>• Eastcore Emergency Management Plan. Revision C Feb 2012</li> <li>Section 11 Emergency Response Procedures</li> <li>11.1 Medical Emergency</li> <li>11.2 Gas Leak / well kick</li> <li>11.3 Lightning strikes</li> <li>11.4 Fire Emergencies</li> <li>11.5 Flooding</li> <li>11.6 Chemical Spill</li> <li>11.7 Evacuation</li> </ul>
<b>14. Rig maintenance</b>				
<b>15. Risk Framework Review</b>				

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## MECHANICAL TESTING REPORT

AlfaTest Report No: 20121349M01 Date of Inspection: 17 July 2012  
Location of Test: Client's Site MER 034, via Moura, Qld Client Order No: WCL-PO00972  
Client Name/Address: Westside Corporation Limited  
GPO Box 1121, Brisbane, Qld 4001  
Client Job No: Not specified  
Project Details: Static Load Testing of Shramm Drill Rig, Rig No. TXD 01  
Item Details: Qty 1, Mast on Shramm Drill Rig, Rig No. TXD 01 as supplied  
Sample Details: Refer Test Results

## TECHNICAL DETAILS

### STATIC LOAD TEST

Test Procedure: TP 230 Test Spec: API Specification 4G  
Client Requirements: Test and report results Acceptance Spec: API Specification 4G  
Material Spec: Carbon Steel, not further specified

### Test Equipment

Equipment:	700 Bar Pressure Transducer	Equipment No:	543
Equipment:	Enerpac Hydraulic Pump	Equipment No:	599
Equipment:	Enerpac 60T Hydraulic Ram	Equipment No:	1010
Equipment:	Field Box Indicator	Equipment No:	480
Equipment:	Hold Back Jig, Load Transmitter, 30000 kg Slings, Shackles		

### Sample Condition

Time of Test: 5.05 – 5.22pm, 17 July 2012  
Test Restrictions/  
Deviations: Light rain, light wind  
Compliance:

The Static Load Test undertaken on this Drill Rig, Rig No. TXD 01, indicated that the assembled Rig as supplied and presented for Static Load Testing satisfies the Structural Resistance capabilities to withstand an applied load of 50,000Kg.

Technician/s:

49-Sch4

Approved by:

Signature:

49-Sch4 - Signature

Issue Date:

18 July 2012

## TEST RESULTS

AlfaTest Report No: 20121349M01

Date of Inspection: 17 July 2012

### STATIC LOAD TEST

Static Load Test of Mast on Shramm Drill Rig, Rig No. TXD 01						
Sample Reference	Nominal Load Applied	Height Load Applied	Hold Time at Load	Observed Deflection	Deflection after Load removed	Comments
TXD 01 Mast Assembly	20000Kg	11 Metres above Drill Floor	Momentary	Nil	Nil	Ramp up point to Full Test Load
TXD 01 Mast Assembly	30000Kg	11 Metres above Drill Floor	Momentary	Nil	Nil	Ramp up point to Full Test Load
TXD 01 Mast Assembly	40000Kg	11 Metres above Drill Floor	Momentary	Nil	Nil	Ramp up point to Full Test Load
TXD 01 Mast Assembly	50000Kg	11 Metres above Drill Floor	5 Minutes	Nil	Nil	Full Test Load
TXD 01 Mast Assembly	0kg	11 Metres above Drill Floor	N/A	Nil	Nil	See below
<b>Note: No permanent deflection or other conditions noted after Load Test completed</b>						



## TEST RESULTS

AlfaTest Report No: 20121349M01

Date of Inspection: 17 July 2012



Photograph 1. General view of Shramm Drill Rig TXD 01, in preparation for Static Load Test on Mast Structure showing Pull Up Slings used during this activity.

## TEST RESULTS

AlfaTest Report No: 20121349M01

Date of Inspection: 17 July 2012



Photograph 2. General view of Shramm Drill Rig TXD 01, in preparation for Static Load Test on Mast Structure showing Pull Up Slings used during this activity.

## TEST RESULTS

AlfaTest Report No: 20121349M01

Date of Inspection: 17 July 2012



Photograph 3. General view of Shramm Drill Rig TXD 01, in preparation for Static Load Test on Mast Structure showing Pull Up Slings used during this activity.

## TEST RESULTS

AlfaTest Report No: 20121349M01

Date of Inspection: 17 July 2012



Photograph 4. General view of Shramm Drill Rig TXD 01, in preparation for Static Load Test on Mast Structure showing Pull Up and Hold Back Slings, Shackles, Load Frame, Transmission Link and Load Cell used during this activity.



## TEST RESULTS

AlfaTest Report No:

20121349M01

Date of Inspection:

17 July 2012



Photograph 5. Side view of Shramm Drill Rig TXD 01, in preparation for Static Load Test on Mast Structure showing Pull Up and Hold Back Slings, Shackles, Load Frame, Transmission Link and Load Cell used during this activity.

## TEST RESULTS

AlfaTest Report No:

20121349M01

Date of Inspection:

17 July 2012



Photograph 6. General view of Shramm Drill Rig TXD 01, in preparation for Static Load Test on Mast Structure showing Hold Back Slings, Shackle, Transmission Link used during this activity.

## TEST RESULTS

AlfaTest Report No: 20121349M01

Date of Inspection: 17 July 2012



Photograph 7. General view of Shramm Drill Rig TXD 01, in preparation for Static Load Test on Mast Structure showing Hold Back Slings at Lower Securing Point (Sub Base) during this activity.



## TEST RESULTS

AlfaTest Report No: 20121349M01

Date of Inspection: 17 July 2012



Photograph 8. General view of Shramm Drill Rig TXD 01, in preparation for Static Load Test on Mast Structure showing Hold Back Slings at Lower Securing Point (Sub Base) during this activity.



## TEST RESULTS

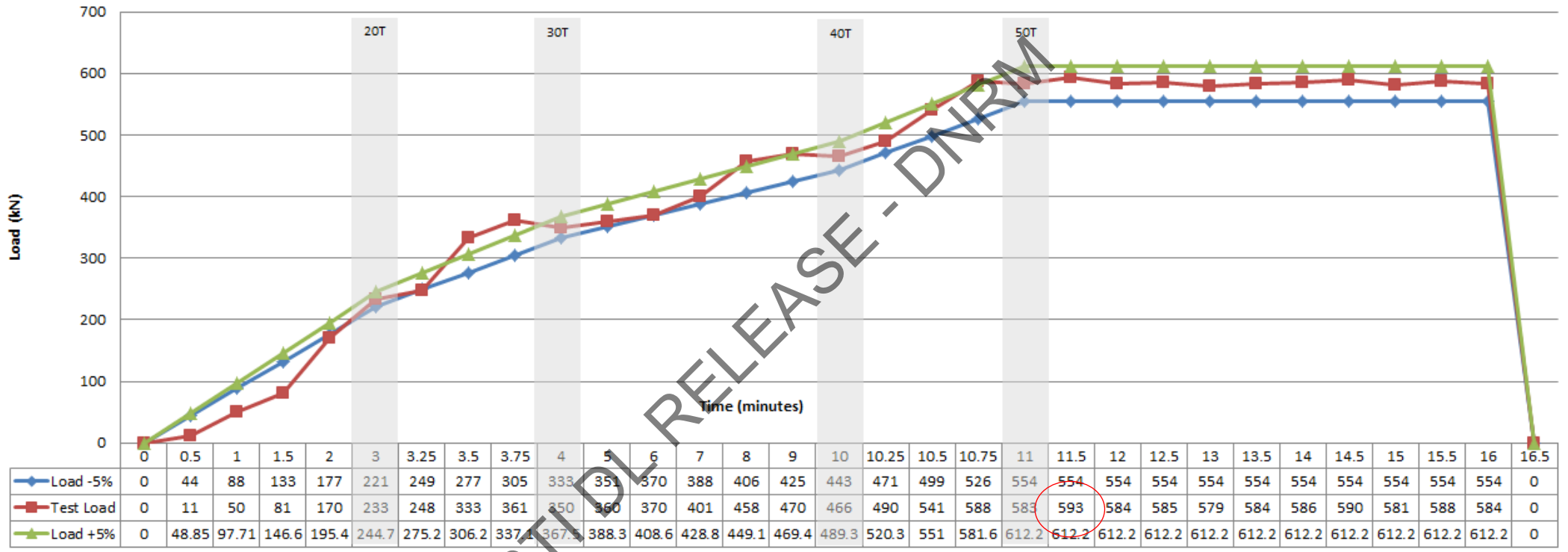
AlfaTest Report No: 20121349M01

Date of Inspection: 17 July 2012



Photograph 9. General view of Static Load Test Digital Readout on Field Box Indicator during Static Load Test on TXD 01 Mast Structure showing Maximum Applied Load of 50.017 Tonne during this activity.

## Load Test - TDX01



Note: Maximum captured Applied Load Reading, circled, 50.017 Tonne.

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## Employee Reviews

Employee Name - ECDS	Position	Start Date	Review Date 3 Months	Review Complete	Review Date 6 Months	2nd Review Complete	Yearly Review Date
49-Sch4	Managing Director	24/08/2010					
	OHSE Manager	19/04/2011	19/05/2011	✓		✓	19/04/2013
	Rig Manager	31/10/2011	30/11/2011	✓	12/08/2012	✓	12/08/2013
	Senior Driller	23/11/2010	23/12/2010	✓	21/08/2011	✓	21/02/2013
	Senior Driller	14/04/2011	14/05/2011	✓	13/12/2011	✓	13/07/2013
	Trainee Driller	24/11/2011	24/12/2011	✓	22/12/2012	✓	22/02/2013
	Trainee Driller	12/05/2011	11/06/2011	✓	10/02/2012	✓	10/03/2013
	Senior Offsider	19/10/2011	18/11/2011	✓	17/08/2012	✓	17/08/2013
	Offsider	10/04/2012	10/05/2012	TBC			
	Offsider	10/04/2012	10/05/2012	TBC			
	Offsider	5/09/2011	5/10/2011	✓	4/06/2012		4/06/2013
	Offsider	10/04/2012	10/05/2012	TBC			
	Offsider	29/06/2011	29/07/2011	✓	27/03/2012		27/03/2013
	Offsider	12/04/2012	12/05/2012	TBC	2/02/2013		2/02/2014
	Offsider	17/05/2012	16/06/2012	TBC	15/03/2013		15/03/2014
	Offsider	17/05/2012	16/06/2012	TBC	16/03/2013		16/03/2014
	Offsider	31/05/2012	30/06/2012	TBC	31/03/2013		31/03/2014
	Offsider	14/06/2012	14/07/2012	TBC	14/04/2013		14/04/2014
Offsider	27/06/2012	27/07/2012	TBC	27/04/2013		27/04/2014	

49-Sch4	Offsider	10/11/2011	10/12/2011	TBC	8/08/2012	8/08/2013
	Offsider	12/07/2012	11/08/2012	TBC	12/05/2013	12/05/2014
	Offsider	19/07/2012	18/08/2012	TBC	19/05/2013	19/05/2014
	Offsider	19/07/2012	18/08/2012	TBC	20/05/2013	20/05/2014
	Offsider	19/07/2012	18/08/2012	TBC	21/05/2013	21/05/2014
	Driller	16/07/2012	15/08/2012	TBC		
	Driller	16/07/2012	15/08/2012	TBC		
	Driller	TBA		TBC		

Head Office  
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**MOURA** *Engineering*  
 & Fabrication (QLD) Pty Ltd

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ACN: 146 114 749

Employee Name - MEFQ	Position	Start Date	Review Date 3 Months	Complete	Review Date 6 Months	2nd Review Complete	Yearly Review Date
49-Sch4	Well Monitoring	20/01/2012	19/04/2012				
	Well Monitoring	10/04/2012	9/07/2012				
	Well Monitoring	14/06/2012	12/09/2012				
49-Sch4	Workshop Manager	10/06/2012	8/09/2012				
	Workshop Foreman	25/09/2010	24/12/2010				
	Fitter/Turner	12/11/2010	10/02/2011				
	Boilermaker	12/07/2011	10/10/2011				
	Boilermaker	16/04/2012	15/07/2012				
	Diesel Fitter/Machenic	13/06/2012	11/09/2012				
Truck Driver	21/05/2012	19/08/2012					

49-Sch4	Truck Driver SandBlaster / Spray painter	14/06/2012 4/07/2012	12/09/2012 2/10/2012				
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RTI DL RELEASE - DNRM

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### Competant for Rig Work

Employee Name - ECDS	Position	Start Date	Competent
49-Sch4	Managing Director	24/08/2010	✓
	OHSE Manager	19/04/2011	✓
	Rig Manager	31/10/2011	✓
	Senior Driller	23/11/2010	✓
	Senior Driller	14/04/2011	✓
	Trainee Driller	24/11/2011	✓
	Trainee Driller	12/05/2011	✓
	Senior Offsider	19/10/2011	✓
	Offsider	10/04/2012	✓
	Offsider	10/04/2012	✓
	Offsider	5/09/2011	✓
	Offsider	10/04/2012	✓
	Offsider	29/06/2011	✓
	Offsider	12/04/2012	✓
	Offsider	17/05/2012	✓
	Offsider	17/05/2012	✓
	Offsider	31/05/2012	✓
	Offsider	14/06/2012	✓
Offsider	27/06/2012	✓	

COMPENTANCY	
A	Mine Induction
B	Coal Board Medical

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	Offsider	10/11/2011	✓
	Offsider	12/07/2012	✓
	Offsider	19/07/2012	✓
	Offsider	19/07/2012	✓
	Offsider	19/07/2012	✓
	Driller	16/07/2012	✓
	Driller	16/07/2012	✓
	Driller		

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ACN: 146 114 749

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Employee Name - MEFQ	Position	Start Date	Competent
49-Sch4	Well Monitoring	10/04/2012	
	Well Monitoring	14/06/2012	
	Workshop Manager	10/06/2012	
	Workshop Foreman	25/09/2010	
	Fitter/Turner	12/11/2010	
	Boilermaker	12/07/2011	
	Boilermaker	16/04/2012	
	Diesel Fitter/Machenic	13/06/2012	
	Truck Driver	21/05/2012	
	Truck Driver	14/06/2012	

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Register of Employee Qualifications

Updated 17 July 2012

EastCore Drilling Services											
Employee Name	Qualification										
	Generic Induction	Coal Board Medical	Senior First Aid & CPR	Police Clearance	Licence	Gas Detection	Confined Spaces	Working From Heights	WPTW Holder	WPTW Authority	4x4 Accred
49-Sch4	✓	✓ No Cert	✓	✓	MC HC on file	✓ No Cert	✓ No Cert	✓ No Cert	NA	✓	
	✓	✓ No Cert	✓	✓	HR	✓ No Cert	✓	✓	NA	✓	
	✓	✓ No Cert	✓	✓	C	✓	✓	✓	NA	✓	
	✓	✓ No Cert	✓ CPR Exp	✓	C	✓	✓	✓	NA	✓	
	✓	✓	Expired	✓	HR	✓ No Cert	✓	✓	NA	✓	
	✓	✓	Expired	✓	MR	✓ No Cert	✓	✓	✓	NA	
	✓	✓	✓ CPR Exp	✓	MR	✓	✓	✓	✓	NA	
	✓	✓	✓ CPR Exp	✓	C Exp	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	MC/UD	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	C	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	HR	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	C	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	C	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	C	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	HR	✓	✓	✓	✓	NA	
	✓	✓	✓ CPR Exp	✓	C	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	HR	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	HR	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	HR	✓	✓	✓	✓	NA	
	✓	✓	✓ No CPR	✓	HR	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	C	✓	✓	✓	✓	NA	
	✓	✓	✓	✓	C	✓	✓	✓	✓	NA	
	✓	✓	✓ No CPR	✓	C	✓	✓	✓	✓	NA	
	✓	✓ Exp	✓	✓	MC Exp	✓	✓	✓	TBA	TBA	
	TBA	TBA		TBA				TBA	TBA		

COMPENTANCY	
A	Mine Induction (GI2)
B	Coal Board Medical
C	Senior First aid
D	Well site permit to work
E	Police Clearance
F	Confined Spaces
G	Working from Heights
H	Gas Detection
I	Four Wheel drive 4X4

Moura Engineering and Fabrication											
Employee Name	Qualification										
	Generic Induction	Coal Board Medical	Senior First Aid & CPR	Police Clearance	Licence	Gas Detection	Confined Spaces	Working From Heights	WPTW Holder	WPTW Authority	4x4 Accred
49-Sch4	✓	✓	✓	✓	C						
	✓	✓	✓	✓	C Exp						
	✓	✓	✓	✓	C						
	Expired	✓ No Cert			HC			✓			
	✓	✓	✓ CPR Exp		C		✓				
			Expired		C Exp		✓				
					C						
			Expired		HC						
	✓	✓	✓		HC						
					C						

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Employee Qualifications - ECDS

Updated 17 July 2012

Employee Name - ECDS	Mine Induction	Coalboard Medical	Senior First Aid		Licence	WPTW	BOP	Confined Spaces	Working at Heights	Gas Detection	
			CPR	First Aid							
49-Sch4	Expiry	Expiry	Expiry	Expiry	Level	Expiry	Expiry	Expiry	Completion	Completion	Completion
	4/04/2017	28/02/2013			MC	21/07/2013	6/07/2014	15/06/2012	6/07/2011	6/07/2011	6/07/2011
	4/04/2017	18/02/2014	14/08/2011	10/10/2013	HR	3/04/2015	6/07/2014		13/07/2011	15/07/2011	
	24/08/2012		25/08/2011	2/02/2013	C	15/09/2015	12/06/2015	26/05/2013			16/10/2009
	3/08/2016	19/03/2013			C	28/06/2016	6/07/2014	1/12/2012	18/02/2011	15/07/2011	
	3/08/2016	29/05/2014	17/09/2010	17/09/2011	HR	5/06/2015	6/07/2014	24/05/2014	6/07/2011	15/07/2011	
	28/02/2017	2/05/2013	27/06/2009	27/06/2011	MR	18/07/2012	12/06/2015	15/06/2014	11/07/2012	11/07/2012	
	3/08/2012	5/08/2015		3/08/2013	MR	25/05/2016	6/07/2014		13/07/2011	15/07/2011	
	7/08/2013		28/02/2012	28/02/2014	C	31/05/2012	7/03/2014		7/03/2011	14/03/2011	8/03/2011
	29/02/17	31/01/2015		12/02/2013	MC / UD	6/04/2014	12/06/2015		11/07/2012	11/07/2012	
	23/02/2017	6/02/2017			C	19/01/2015	12/06/2015		5/07/2012	30/06/2012	
	17/08/2013	27/06/2016	13/07/2012	13/07/2014	HR	15/09/2013	29/07/2014		29/07/2011	19/07/2011	29/07/2011
	21/03/2017	13/02/2017			C	14/01/2015	12/06/2015		11/07/2012	11/07/2012	
	3/08/2016	14/08/2016	25/03/2013	25/03/2015	C	4/10/2013	6/07/2014		13/07/2011	11/07/2012	
	19/09/2016	15/09/2016			C	22/11/2015	12/06/2015		30/06/2008	15/06/2011	
	2/05/2017	15/05/2017	10/05/2013	10/05/2015	C	14/03/2013	12/06/2015				
	12/02/2017	14/11/2016	4/12/2012	4/12/2014	HR	13/11/2013	12/06/2015	26/04/2012	18/02/2010		26/04/2012
	23/05/2017	25/05/2017		7/05/2015	C	3/02/2013	29/05/2015		11/07/2012	11/07/2012	
	17/08/2013	18/11/2016	9/12/2012	9/12/2014	HR	3/03/2016	12/06/2015		7/12/2011	14/12/2011	7/12/2011
	20/06/2017	4/04/2017	22/05/2013	16/05/2015	HR	28/02/2015	10/05/2015		10/05/2012	18/05/2012	10/05/2012
	9/03/2013	15/09/2016			HR	30/03/2014	12/06/2015				
	4/07/2017	10/11/2016	16/11/2012	16/11/2014	HR	5/06/2013	12/07/2015				
	25/03/2017	31/03/2017		26/03/2015	HR	9/07/2013	12/07/2015				
	1/06/2017	13/07/2017	15/07/2013	15/07/2015	C	31/08/2012	12/07/2015			25/03/2010	
	25/03/2017		20/03/2013	20/03/2015	C	4/10/2014	12/07/2012				
	4/06/2013	TBA		2/06/2014	C	20/07/2013	10/06/2014		9/06/2011	8/06/2011	9/06/2011
	TBA	21/02/2012	TBA	TBA	MC	25/04/2011	TBA		21/01/2004	28/01/2004	
	TBA	TBA	TBA	TBA	TBA	TBA	TBA				

Employee Qualifications - MEFQ

Employee Name - MEFQ	Mine Induction	Coalboard Medical	Senior First Aid		Licence	WPTW	BOP	Confined Spaces	Working at Heights	Gas Detection
			CPR	First Aid						
49-Sch4	Expiry	Expiry	Expiry	Expiry	Level	Expiry	Expiry	Completion	Completion	Completion
	15/01/2017	17/01/2017	6/06/2013	6/06/2015	C	21/05/2012	12/06/2015			
					C	25/03/2015				
	1/07/2011	13/06/2013			HC	24/01/2014			15/07/2011	
	22/07/2012		12/06/2011	12/06/2013	C	13/12/2013		25/02/2010		
					C	10/05/2013		23/08/2012		
					C	30/07/2010		3/05/2002		
					C	27/02/2013				
					HC	15/12/2012				
	6/12/2017	30/05/2017	3/06/2013	3/06/2015	HC	15/03/2016				
				C	16/09/2016					

RTI DL RELEASE - DNDPM

## Risk Management review of SCHRAMM TXD Drill rig

### Operator – WestSide Corporation

Lane Dunham – Drilling & Completions Manager  
Russell Churchett – HSE Manager

### Drilling Contractor – Eastcore Pty Ltd

[Redacted] – Managing Director  
[Redacted] Drill Rig Supervisor

### Risk Management Consultancy – SMRS Pty Ltd

[Redacted] Senior Technical Consultant  
[Redacted] 49-Sch4 – Operations Safety & Risk Consultant

## Overview

SMRS are engaged by WestSide Corporation to assist in the development and continual improvement of TXD drill rig specific plant job risk assessments (JRA's) throughout the course of their 2012 drilling program.

As operator and owner of the drill rig plant, WestSide Corporation have all duties obligated to them under the Petroleum and Gas (Production and Safety) Act & Regulation, Eastcore as the drilling contractor have all duties obligated to them under the same to reduce the risk to a worker's health and safety to a level as low as reasonably achievable and mutually agreed upon by all stakeholders.

SMRS have been contracted to represent WestSide Corporation in the facilitation of JRA's to ensure consultation between Operator, Contractor and Worker is conducted in the development of plant specific job risk assessments, as per the Petroleum and Gas Regulations Part 2.

## Work Scope

The consultative JRA process has ensured that as far as reasonably achievable all associated hazards with the TXD drilling plant are identified, current or existing controls have been analysed to ensure tasks are conducted with a mutually agreed residual risk, and to further establish if additional risk reduction measures can be achieved through the hierarchy of control.

SMRS are providing field-based consultants to engage with WestSide and Eastcore site management and workers in the development of these JRA's during the 2012 drilling campaign.

These JRA's are being utilised by rig site management and workers during drilling operations, with all workers involved in the job reviewing and signing onto the JRA prior to completing the job.

## Risk Management Processes Completed

To date SMRS have provided in-field risk consultants for a total of 8.5 days equating to approximately 80.5 hours of consultative risk assessments with WestSide and Eastcore onsite

management and workers. A further 72 hours of office time have been spent writing up and developing the JRA's and Safe Working Procedures Library for the TXD rig. This has resulted in the completion of 38 safety critical drilling operational JRA's and SWP's.

These JRA's and SWP's have been delivered to site for review and acceptance. An overview and supporting TXD Risk Management Framework (attachment 1) has also been developed to ensure the continual improvement and review of JRA's and SWP's over the course of the 2012 drilling campaign.

### Competencies

Eastcore as the assigned drilling contractor have an obligation to provide adequately experienced and competent workers as outlined in the Competency Standard for the Petroleum and Gas Drilling Industry.

**HSE MS controls: Organisation & Resources**

1. WestSide / Eastcore HSE Accountability and Responsibilities Plan
2. Eastcore training matrix of position, person, & drilling competencies. On site Eastcore shall have for all workers copies of signed HSE position descriptions, and drilling competencies achieved to date.
3. Sign off by WestSide Management prior to commencement of drilling that Eastcore has provided competent personnel to the competencies outlined in the Competency Standard for the Petroleum and Gas Drilling Industry.

In addition to this WestSide and Eastcore have an obligation to ensure workers have been engaged with, in the assessment and control of risks that impact their health and safety.

**HSE MS controls: Risk Management**

1. WestSide Corporation appointed Site Person in Charge to ensure all workers are reviewing and signing onto the TXD rig JRA's and SWP's prior to the job taking place, and to ensure that the jobs are being completed as per the controls stipulated.
2. Eastcore appointed Site Person in Charge to ensure all workers are reviewing and signing onto the TXD rig JRA's and SWP's prior to the job taking place, and to ensure that the jobs are being completed as per the controls stipulated.
3. SMRS in consultation with WestSide Corporation and Eastcore onsite management and workers have developed and verified the completeness and accuracy of the hazards and controls identified in the afore mentioned JRA and SWP library through field observations and assessments.

### Continual improvement and development plan

Westside Corporation is committed to the continual improvement and development of the TXD drill plant JRA and SWP library as outlined in the TXD risk management framework. WestSide Corporations onsite leadership shall ensure the JRA and SWP library is reviewed prior to the commencement of every job, providing the necessary resources to ensure the consultative approach

in the continual improvement of the JRA and SPW library. WestSide Corporation will support this process through the continual engagement of SMRS throughout the course of the 2012 drilling campaign.

RTI DL RELEASE - DNRM

**GUIDANCE NOTES FOR COMPLETING FORM**

- STEP 1: Define Area, Title and Version
- STEP 2: Define the Operational Environment
- STEP 3: Define Operational Activity
- STEP 4: List all Team Members
- STEP 5: List any Work Permits, Checklists Required and Other Reference Materials Used
- STEP 6: Complete the Risk Assessment
- STEP 7: Complete the Action Plan where applicable
- STEP 8: Check for other documents, sign off and give the Form to your Supervisor

**STEP 1: AREA**

	Exploration	Y	Drilling
	Completions		Commissioning
	Maintenance		Workovers
Y	Wellsite		Compressor Station
	Pipeline		Administration Area
	Other (Specify) :		

**RS JRA TXD 02 : Setting up pipe/casing rack: Rev A**

Date: 21/06/2012

Revision A: First draft

**Photographs, diagrams, plans, sketches etc.**



**STEP 2: OPERATIONAL ENVIRONMENT (Overview description)**

Drill rig sites

**STEP 3: TASK / WORK ACTIVITY (Overview description)**

Lifting of piping or casing from rack to drill mast in during drilling and casing operations

**STEP 4: LIST JRA TEAM MEMBERS**

Name	Position	JRA Role	Task Experience	Consensus	Signature
		Team member	Mod	Yes No	
49-Sch4	Roustabout	Team member	Mod	Yes No	
	HSE Consultant	Facilitator	Mod	Yes No	

**STEP 5: LIST WORK PERMITS, CHECKLISTS and OTHER REFERENCE MATERIAL**


Schramm TXD operators manual	

**STEP 6: RISK ASSESSMENT**




- Break the task / work activity into individual job subtasks or steps. Identify the potential **health, safety and environmental hazards**. Discuss, consider and ask questions regarding potential human factors or errors, slips or lapses, mistakes, shortcuts, fatigue, changed conditions etc.
- Identify existing or current hazard controls, review for effectiveness of controls (in relevance to any known incidents or conditions) and assess each hazard for consequence and likelihood (using WestSide Risk Assessment Matrix), allocating a **Risk Score**. Identify new or recommended additional actions. Reassess the consequence and likelihood and allocate the Residual Risk Score (**RRS**). All HAZARDS must be reduced to As Low AS Reasonably Achievable (**ALARA**).

JRA's are required (but not limited to) for all tasks requiring PERMITS, all NON ROUTINE TASKS and where any HAZARD is deemed to be inadequately controlled by any party.





No.	Subtask/Step	Potential Hazards	Existing or Current Controls	C	L	Risk Score
1	Pressure up airbag suspension	<ul style="list-style-type: none"> <li>Pressurised system failure</li> <li>Airbag failure</li> </ul>	<ul style="list-style-type: none"> <li>Preventative maintenance program of Eastcore prime mover</li> <li>Preventative maintenance program of SHRAMM TXD drilling rig and ancillary equipment</li> <li>Prestart / daily mobile plant equipment checklist's (Eastcore)</li> <li>Mobile Plant operator competency. Qld driver's license "Open Heavy Combination"</li> </ul>	C	2	Moderate
2	Ensure spotters front and back of truck / trailer being reversed	<ul style="list-style-type: none"> <li>Equipment damage – reversing truck</li> <li>Injury to spotters – struck by or caught between vehicle and equipment</li> </ul>	<ul style="list-style-type: none"> <li>Task to only be done in good light (daylight hours, enough remaining to complete the entire task)</li> <li>Pre-start meeting – assignment of roles and clarification of spotters signal, (Eastcore)</li> <li>Visual communication between spotters and driver.</li> <li>Spotters to be a minimum of 2m from the trailer and truck and any other piece of equipment that they could get caught between</li> <li>Dedicated safety observer/s with authority to stop the task if any person gets into a recognised unsafe position.</li> </ul>	C	2	Moderate
3	Reverse trailer onto ramps <b>Drill mast, rack ramp and locking arms must already be in position</b>	<ul style="list-style-type: none"> <li>Equipment damage – reversing truck</li> <li>Injury to spotters – struck by or caught between vehicle and equipment</li> <li>No clear communication with spotters</li> </ul>	 <ul style="list-style-type: none"> <li>Task to only be done in good light (daylight hours, enough remaining to complete the entire task)</li> <li>Pre-start meeting – assignment of roles and clarification of spotters signal, (Eastcore)</li> <li>Visual communication between spotters and driver.</li> <li>Spotters to be a minimum of 2m from the trailer and truck and any other piece of equipment that they could get caught between</li> <li>Dedicated safety observer/s with authority to stop the task if any person gets into a recognised unsafe position.</li> </ul>	C	3	High

JRA's are required (but not limited to) for all tasks requiring PERMITS, all NON ROUTINE TASKS and where any HAZARD is deemed to be inadequately controlled by any party.

No.	Subtask/Step	Potential Hazards	Existing or Current Controls	C	L	Risk Score	
4	Guide truck up onto ramps until the locking pin is in line the rig mast	<ul style="list-style-type: none"> <li>Equipment damage – reversing truck</li> <li>Injury to spotters – struck by or caught between vehicle and equipment</li> <li>Crush injury</li> <li>Reverse trailer too far and off ramp – damage to drill mast.</li> </ul>		<ul style="list-style-type: none"> <li>Task to only be done in good light (daylight hours, enough remaining to complete the entire task)</li> <li>Pre-start meeting – assignment of roles and clarification of spotters signal, (Eastcore)</li> <li>Visual communication between spotters and driver.</li> <li>Spotters to be a minimum of 2m from the trailer and truck and any other piece of equipment that they could get caught between.</li> <li>Dedicated safety observer/s with authority to stop the task if any person gets into a recognised unsafe position.</li> </ul>	C	3	High
5	Using jacking wheels on jack stands & raise to take weight of trailer	<ul style="list-style-type: none"> <li>Pinch points</li> <li>Manual handling of jack stands (10-15Kg)</li> <li>Jack wheels fall off jack stands – damage to equipment</li> <li>Jack wheels fall off jack stands – injury to persons, struck by or caught between equipment</li> </ul>		<ul style="list-style-type: none"> <li>Manual handling competencies as per Eastcore HSE training matrix</li> <li>Fitness to work policy – WestSide and Eastcore – Coal board medical</li> <li>Correct PPE – gloves shall be worn when completing this task.</li> <li>Two person task as a minimum</li> </ul>	C	2	Moderate
6	Unhook airlines from trailer and truck. De-pressure airbags on trailer and remove prime mover from trailer	<ul style="list-style-type: none"> <li>Pressurised system failure</li> <li>Personal injury, struck by or caught between</li> <li>PPE – gloves and safety glasses must be worn.</li> </ul>		<ul style="list-style-type: none"> <li>Preventative maintenance program of Eastcore prime mover</li> <li>Preventative maintenance program of SHRAMM TXD drilling rig and ancillary equipment</li> <li>Prestart / daily mobile plant equipment checklist's (Eastcore)</li> <li>Mobile Plant operator competency. Qld driver's license "Open Heavy Combination"</li> </ul>	C	2	Moderate

JRA's are required (but not limited to) for all tasks requiring PERMITS, all NON ROUTINE TASKS and where any HAZARD is deemed to be inadequately controlled by any party.





No.	Subtask/Step	Potential Hazards	Existing or Current Controls	C	L	Risk Score
7	Raise rig to lock into rack trailer – pump up rig mast	<ul style="list-style-type: none"> <li>Pressurised system failure – hydraulics don't allow finite movements.</li> <li>Equipment damage – damage to locking mechanism</li> <li>Equipment damage, rack trailer and drill mast trailer not properly locked in place</li> </ul>	 <ul style="list-style-type: none"> <li>Pre-job start up meeting – only competent operator's to operate hydraulic system (Driller / Assistant driller)</li> <li>SHRAMM TXD operators manual</li> </ul>	C	3	High
8	Level trailer using in built and external sprit level	<ul style="list-style-type: none"> <li>Pressurised system failure</li> <li>Jack wheels fall off jack stands</li> <li>Manual handling of jack stands 10-15Kg</li> </ul>	 <ul style="list-style-type: none"> <li>Preventative maintenance program of SHRAMM TXD drilling rig and ancillary equipment</li> <li>Prestart / daily mobile plant equipment checklist's (Eastcore)</li> <li>Minimum two person task</li> <li>Verbal communication between workers</li> <li>Eastcore – Step back 5x5 procedure</li> </ul>	C	2	Moderate

JRA's are required (but not limited to) for all tasks requiring PERMITS, all NON ROUTINE TASKS and where any HAZARD is deemed to be inadequately controlled by any party.



No.	Subtask/Step	Potential Hazards	Existing or Current Controls	C	L	Risk Score	
9	Remove locking pins from arms, using step ladder or jacking block as a step.	<ul style="list-style-type: none"> <li>Pinch points – locking pins</li> <li>Personal injury – manual handling - excessive force awkward posture, range of movement</li> <li>Personal injury – fall from jack stand or step ladder</li> </ul>		<ul style="list-style-type: none"> <li>PPE – gloves to be worn when completing this task</li> <li>Minimum two person task</li> <li>Prestart / daily mobile plant equipment checklist's (Eastcore)</li> <li>Minimum two person task</li> <li>Verbal communication between workers</li> <li>Eastcore – Step back 5x5 procedure</li> <li>Step ladder to be secure before standing on</li> </ul>	C	2	Moderate
10	Swing out rack arms	<ul style="list-style-type: none"> <li>Pinch points – locking pins</li> <li>Personal injury – manual handling - excessive force awkward posture, range of movement</li> <li>Personal injury – struck by or caught between, if uneven ground arm could swing back and strike someone</li> <li>Weather conditions, when arms are unlocked strong winds could cause arm to swing uncontrolled</li> </ul>		<ul style="list-style-type: none"> <li>PPE – gloves to be worn when completing this task</li> <li>Prestart / daily mobile plant equipment checklist's (Eastcore)</li> <li>Minimum three person task – two swinging arm, 1 person locking it in place.</li> <li>Verbal communication between workers</li> <li>Eastcore – Step back 5x5 procedure</li> <li>Only authorised persons to be near swinging arm</li> </ul>	C	3	High

JRA's are required (but not limited to) for all tasks requiring PERMITS, all NON ROUTINE TASKS and where any HAZARD is deemed to be inadequately controlled by any party.



No.	Subtask/Step	Potential Hazards	Existing or Current Controls	C	L	Risk Score
11	Insert locking pin and safety pin	<ul style="list-style-type: none"> <li>Pinch points – locking pins</li> <li>Personal injury – manual handling - excessive force awkward posture, range of movement</li> </ul>	 <ul style="list-style-type: none"> <li>PPE – gloves to be worn when completing this task</li> <li>Prestart / daily mobile plant equipment checklist's (Eastcore)</li> <li>Minimum three person task – two swinging arm, 1 person locking it in place.</li> <li>Verbal communication between workers</li> <li>Eastcore – Step back 5x5 procedure</li> </ul>	C	2	Moderate
12	Put jack stand under jack leg	<ul style="list-style-type: none"> <li>Manual handling of jack stands 10-15Kg</li> <li>Personal injury – excessive force, awkward posture, range of movement, repetition</li> <li>Pinch points or crushed fingers</li> </ul>	 <ul style="list-style-type: none"> <li>PPE – gloves to be worn when completing this task</li> <li>Prestart / daily mobile plant equipment checklist's (Eastcore)</li> <li>Minimum two person task – two swinging arm, 1 person locking it in place.</li> <li>Verbal communication between workers</li> <li>Eastcore – Step back 5x5 procedure</li> </ul>	C	2	Moderate

JRA's are required (but not limited to) for all tasks requiring PERMITS, all NON ROUTINE TASKS and where any HAZARD is deemed to be inadequately controlled by any party.

No.	Subtask/Step	Potential Hazards	Existing or Current Controls	C	L	Risk Score
13	Level rack arms using hydraulic control and sprit level	<ul style="list-style-type: none"> <li>Pressurised system failure</li> <li>Jack wheels falling off jacking plates</li> <li>Manual handling</li> <li>Personal injury – excessive force, awkward posture, range of movement, repetition</li> </ul>	 <ul style="list-style-type: none"> <li>Preventative maintenance program of SHRAMM TXD drilling rig and ancillary equipment</li> <li>Prestart / daily mobile plant equipment checklist's (Eastcore)</li> <li>Minimum two person task – one operating hydraulic system, one observing level.</li> <li>Verbal communication between workers</li> <li>Eastcore – Step back 5x5 procedure</li> </ul>	C	2	Moderate
14	Check that roll off safety pins are in place at ends of rack arms.	<ul style="list-style-type: none"> <li>If not in place – drill pipes/casing could roll off rack stand</li> <li>Pinch points – safety pins</li> <li>Manual handling</li> <li>Personal injury – excessive force, awkward posture, range of movement, repetition</li> </ul>	 <ul style="list-style-type: none"> <li>PPE – gloves to be worn when completing this task</li> <li>Prestart / daily mobile plant equipment checklist's (Eastcore)</li> <li>Minimum two person task – two swinging arm, 1 person locking it in place.</li> <li>Verbal communication between workers</li> <li>Eastcore – Step back 5x5 procedure</li> </ul>	C	2	Moderate

JRA's are required (but not limited to) for all tasks requiring PERMITS, all NON ROUTINE TASKS and where any HAZARD is deemed to be inadequately controlled by any party.

STEP 7: RISK ASSESSMENT – HAZARD CONTROL ACTIONS IDENTIFIED					
No	Item/Issue	Agreed Action	Who	When	Completion Date
2	Hand held radios for communication between spotters and driver of prime mover				
5	Pinch points to all be coloured red as standard or have pinch points stickers placed in close proximity				
3					

STEP 8: SIGN OFF					
No	Role	Acknowledgment	Name	Date	Signature
1	Facilitator	JRA conducted in full and complete			
2	Supervisor / Manager	JRA reviewed, approval to perform task as per JRA			
3	HSE Manager	JRA reviewed, JRA effectiveness evaluated			
4	Other (Specify)	(Specify)			
5	Other (Specify)	(Specify)			

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