

TXD180 Mast Fall Event: P&G Inspector Findings: Forward Action Plan		Responsibility for Completion	13/09/2011	14/09/2011	15/09/2011	16/09/2011	19/09/2011	20/09/2011	21/09/2011	22/09/2011	23/09/2011	26/09/2011	27/09/2011	28/09/2011	29/09/2011	30/09/2011	October	November	December	Completion Due	Actual Completion Date	
A Tasks already completed																						
1	Provide Wood Group Wagners (WGW) SOP's	SH																			13/09/11	13/09/11
2	Ensure Toolbox meetings are documented on noted form, date and time entered, for each and every toolbox meeting	ST/SH																			13/09/11	13/09/11
B Safety Management System Improvement Items																						
3	Develop WestSide bridging document linking to WGW and all subcontractors involved with rig operation	RJC/DC																			20/09/11	
4	Provide evidence of contractors SafeOp and P&G Legislation compliance - commence	RJC/DC																			30/09/11	
5	Review WGW SOP's determine if any SOP's are required to be developed to ensure all routine work activities	MS																			19/09/11	
6	Review WestSide and WGW Management of Change process, ensure process is implemented to engineering changes to plant etc.	RJC/DC																			19/09/11	
7	Develop specific Site Safety Manager training competency matrix and commence delivery of training	DC																			19/09/11	
8	Review JSA system in order to improve and ensure the system is more robust	MS																			19/09/11	
9	Provide WGW SOP Training Records (including details of trainer qualifications)	DC																			20/09/11	
10	Update drilling crew competency matrix. Determine gaps and set action plan to address skill gaps.	DC																			19/09/11	
11	Provide maintenance crew competency matrix (Compare trade qualifications etc. with assigned maintenance tasks)	DC/RJC																			29/09/11	
12	Provide evidence of contractors SafeOp and P&G Legislation compliance - complete	RJC/DC																			30/09/11	
C Rig Recovery Items																						
13	Provide Inspectorate with current Hydraulic Schematics for rig	RC																			14/09/11	
14	Perform rig stabilising risk assessment (all risk assessments to be lead by G2 trained risk assessor)	MS																			14/09/11	
15	Perform rig move risk assessment (from current position to stable/safe position on location)	MS																			14/09/11	
16	Perform hydraulic ram removal risk assessment (multi crane lift)	MS																			14/09/11	
17	Perform rig transportation (from site to repair location) risk assessment	MS																			15/09/11	
18	Develop JSA's and SWP's for each task as per developed risk assessments	ST/SH																			15/09/11	
19	Provide risk assessments, JSA's and SWP's to P&G Inspectorate for review and approval	RJC																			15/09/11	
20	Obtain approval for commencement of works (as per risk assessments, JSA's and SWP's) and commence works	RJC																			20/09/11	
21	Remove rams and transport to 3rd party for video recorded inspection / disassembly	RC																			20/09/11	
D Rig Repair / Return to Service Items (Dates dependent on Rig Recovery Action completion timing)																						
22	Relocate rams to repair location (on completion of video recorded inspection; when P&G Inspectorate inspection is complete)	RC																			TBD	
23	Perform and complete rig repairs	RC																			TBD	
24	Inspect rig for full compliance (by competent entity)	RC/RJC																			TBD	
25	Obtain approval from P&G Inspectorate to return to drilling operations	RJC																			TBD	

TXD180 Mast Fall Event: P&G Inspector Findings: Forward Action Plan		Responsibility for Completion	13/09/2011	14/09/2011	15/09/2011	16/09/2011	19/09/2011	20/09/2011	21/09/2011	22/09/2011	23/09/2011	26/09/2011	27/09/2011	28/09/2011	29/09/2011	30/09/2011	October	November	December	Completion Due	Actual Completion Date	
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14	Perform rig stabilising risk assessment (all risk assessments to be lead by G2 trained risk assessor)	MS																			14/09/11	15/09/11
15	Perform rig move risk assessment (from current position to Brisbane repair workshop)	MS																			14/09/11	15/09/11
17	Perform rig transportation (from site to repair location) risk assessment	ITAC																			22/09/11	22/09/11
18	Develop JSA's and SWP's for each task as per developed risk assessments	ST/SH																			15/09/11	15/09/11
19	Provide risk assessments, JSA's and SWP's to P&G Inspectorate for review and comment	RJC																			15/09/11	15/09/11
20	Obtain Inspectorate 'go ahead' for commencement of works as per risk assessments, JSA's and SWP's and commence works	RJC																			20/09/11	20/09/11
21	Perform rig move to Sydney repair workshop	RC																			23/09/11	23/09/11
D Rig Repair / Return to Service Items (Dates dependent on Rig Recovery Action completion timing)																						
23	Relocate rig to Sydney workshop (Schramm repairer)	RC																			30/09/2011	
24	Coordinate hydraulics investigation requirements with P&G Inspectorate (hydraulics to be inspected by 3rd party, process to be approved prior to commencing removal of hydraulics)	RJC																			30/09/2011	
25	Commence rig repairs	RC																			TBD	
26	Inspect rig for full compliance (by competent entity, Moduspec, PSI or other Deedi approved entity)	RC/RJC																			TBD	
27	Obtain approval from P&G Inspectorate to return to drilling operations	RJC																			TBD	

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	Legend	DC MS RC RJC SH ST	Section 78B(2) RTI Act	- Original plan Completion timing - Revised Completion timing
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Haling Narelle

From: Russell Churchett <russell.churchett@westsidecorporation.com>
Sent: Tuesday, 13 September 2011 10:45 AM
To: Wright John; Rasmussen Graham
Cc: Steven.hicks@woodgroupwagners.com; darren.cowan@woodgroupwagners.com; Ray Cowie
Subject: FW: Risk Assessment - TXD Recovery
Attachments: Risk Assessment Form Remove Rig.doc

John / Graham

Risk Assessment 1st Draft for TXD Recovery (from Steven Hicks) – FYI

Regards

Russell Churchett
HSE Manager



Direct: 07 3020 0905

Section 78B(2) RTI Act

Office: 07 3020 0900

Fax: 07 3020 0999

Email: russell.churchett@westsidecorporation.com

Web: www.westsidecorporation.com

Address: Level 8, 300 Queen Street, Brisbane QLD 4000

Postal: GPO Box 1121, Brisbane QLD 4001

From: Steven Hicks [<mailto:Steven.Hicks@woodgroupwagners.com>]

Sent: Tuesday, 13 September 2011 10:32 AM

To: Russell Churchett

Subject: FW: Risk Assessment

Regards,

Steven Hicks
HSE & Training Officer
Wood Group Wagners

Section 78B(2) RTI Act

+61 (0)7 3258 8001 (switch)



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From: Darren Cowan
Sent: Tuesday, 13 September 2011 8:58 AM
To: txd01 rig; Steven Hicks
Subject: FW: Risk Assessment

I have added some stuff in, please read and let me know if you have any concerns with it. Steven it is vital that any procedures we have (i.e. SWP's or maintenance procedures) are nominated in the Risk Assessment and then copied and attached to it. All members of the work crew will be required to read and sign off on each procedure that is referenced.

Cheers,
Darren

From: txd01 rig
Sent: Tuesday, 13 September 2011 6:33 AM
To: Darren Cowan
Cc: Steven Hicks
Subject: Risk Assessment

Darren

Can you have a look at this.

Thanks
Sean Taylor
Wood Group Wagners
Rig Manager TXD01
txd01.rig@woodgroupwagners.com

Section 78B(2) RTI Act



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<p>STEP 1. Document Location and description of hazard on the work site. STEP 2. Define Work Activity STEP 3. Define Site Location, date of assessment and any PTW numbers that pertain to this assessment. STEP 4. List Team Members, their role and experience STEP 5. List any Reference Materials used STEP 6. Complete the Risk Analysis and Assessment Form STEP 7. If further controls are necessary, complete Risk Management Action Plan to implement STEP 8. Send document to appropriate reviewer & approver for sign off, then to HSEQ Dept to formalise into Safety Management System & include in Risk Register</p>		<p>Location of Hazard on work site: TXD Rig</p>			
		<p>Description of Major Hazard: Bent front jack legs and Mast lift Rams.</p>			
<p>Work Activity: Removing damaged rig components to secure site.</p>		<p>Site Location: Meridian site #36</p>			
		<p>Date: 12 September 2011</p>			
		<p>Work Permit Number (If Applicable): unknown until day work commences</p>			
		<p>Work Procedure Name and Number (If Applicable):</p>			
Risk Assessment Team Members					
Name	Company	Position	Risk Assessment Role (Facilitator/Team Member)	Process /Task Experience	Signature
Section 78B(2) RTI Act	WGW	Rig Manager	Team Member		
	Wintringham Diesel	Mechanic	Team Member		
	Westside Corporation	Drilling & completions	Team Member		
	WGW	Production & well services	Team Member		
	WGW	HSE & Training Advisor	Facilitator		
	WGW	HSE & Q Manager	Team Member		
<p>KEY P – Probability C – Consequence R – Risk Ranking</p>		<p>Definitions Probability: The chance that something will happen. Consequence: The result of an action/event taking place. Risk Ranking: the score given to a risk after considering its actual consequence and the probability of it happening. Hazard: an Actual or Potential source of harm. Risk: The likelihood or Probability of harm resulting from a particular hazard. ALARP: As Low As Reasonably Practicable.</p>			<p>Additional Documentation References</p>
<p>Site Manager/Supervisor: Section 78B(2) RTI Act</p>		<p>Signature:</p>	<p>Date: 12 September 2011</p>		

RISK ANALYSIS and ASSESSMENT FORM

Identify the potential incidents, causes and consequences. Discuss, consider and ask questions about potential human factors/errors slips/lapses, mistakes and shortcuts, fatigue and changes etc. Identify existing or current controls and review any prior similar incidents, assess each hazard for likelihood and consequence, allocate a Risk Ranking. Identify new or recommended controls, Reassess the Risk Ranking and score the residual risk.

No.	Task	Hazard/Danger	Current Control Measures	Risk Rating			ALARP Y/N	Further Recommended Controls	Residual Risk Rating		
				P	C	R			P	C	R
1	Remove any and all excess equipment from area	Slips, trips , falls, crush hazards,	Pre job safety meeting and spotters used at all times.	2	5	10	Y	All equipment must be moved to a position where it cannot interfere with potential escape routes or operational requirements.	2	5	10
2	Anchor crane to rig	Slips, trips , falls, crush, pinch hazards, cables breaking, inexperienced operators	Qualified operators, Qualified and experienced Dogman, fit for purpose equipment all certified and current.	2	5	10	Y	Only the specified "Dogman" is to give operational instructions to the crane operators.	2	5	10
3	Connect batteries & remove steps and ladders from rig	Slips trips falls crush and pinch points , sparks low voltage.	Pre job meeting, experienced operators, appropriate PPE for all members involved	2	3	6	Y		2	3	6
4	Build up air in tank & Start rig.	Slips, trips , falls, crush & pinch points,	Pre job meeting	2	3	6	Y		2	3	6
5	Lower Rear legs until wheels are on sub base with rig hydraulics	Mechanical failure, rig over balance	Engine shut down, crane securing , spotters , exclusion zone	2	5	10	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager	2	5	10
6	Remove concrete blocks and timbers	Crush points , splinters	Pre job meeting PPE – spotters , competent operators ,remove all un-essential personnel	2	5	10	Y	Blocks to be moved to a location that does not interfere with operational requirements and that cannot block potential escape routes.	2	5	10
7	Back truck under load	Crush, rollover	Competent operators, fit for purpose equipment, pre job briefing, spotters	2	5	10	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager, backing operations are not to commence until positive notification from the crane operators is received that the load is secured.	2	5	10

8	Lower load onto truck	Crush, rollover	Competent operators, fit for purpose equipment, pre job briefing, spotters	2	5	10	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager, Only the specified "Dogman" is to give operational instructions to the crane operators.	2	5	10
9	Drive truck off sub-base	Crush	Competent operators, fit for purpose equipment, pre job briefing, spotters	2	5	10	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager, Only the specified "Spotter" is to give operational instructions to the Truck Driver.	2	5	10
10	Secure load and jib crane booms	Pinch points, falls, trips, slips, cuts, crush	PPE, correct WAH procedures, fit for purpose equipment, pre-job briefing	2	3	6	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager, Only the specified "Dogman" is to give operational instructions to the crane operators.	2	3	6

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RISK MANAGEMENT ACTION PLAN

Document further controls as agreed by the risk assessment team, assign responsibilities and completion dates. Complete the monitoring / review mechanism, the date when the HSEQ Team should monitor the assessment for completion of Recommended Controls, and the date for scheduled review of the assessment to assess residual risk rating and effectiveness (must be at least within 24 months of the date of the assessment).

No:	Recommended Controls	Person/s Responsible	By When	Date Completed
1	JSA to be completed for crane lifts.			
2	All equipment must be certified (eg-lifting gear)			
3	All trucks must be registered,			
4	Pre job brief before each job.			
5	All tie down equipment to be fit for purpose.			
6	All operators to have required tickets.			
7	Full PPE required for all involved.			
8	All non-essential people to be removed.			

MONITOR / REVIEW MECHANISM

Document the date reviews are required, who is responsible (position, e.g. Managing Director, HSEQ Manager, Site Manager, Risk Team etc) and set dates for monitoring action items and review of residual risk and effectiveness. The HSEQ Team shall enter monitoring & review requirements in the Risk Register and ensure timeframes are met, and ensure any requirements arising out of monitoring and review are actioned and documented.

Type	Date Due	By Whom	Date Completed	Comments e.g. Change has occurred - new R/A to be conducted, items not completed and why etc.
Monitoring closure of action items				
Residual Risk / Effectiveness Review				

1. Potential Consequence

Rating	Injury	Natural Environment	Equipment	Financial	Reputation
6	Multiple fatalities	Permanent & irreparable impact. Impact on the local community. Contamination of potable water supply.		>AUD1,000,000	International media involved. Potential multiple client impact. Loss of contract(s) & future opportunities
5	Fatality	Permanent & irreparable impact on the natural environment	Permanent loss of equipment with replacement lead time >14 days	>AUD 500K <1,000K	National media involved. Client impact. Loss of current contract.
4	Major injury: limb loss, blindness, electrocution, permanent health effects	Temporary, severe but reparable impact. Pollution reaches surface water bodies or stormwater	Major repairs causing 8+ days down time	AUD 100K - 500K	WGW client impact - multiple sites. Incident response controlled by client. Potential loss of current contract.
3	Serious injury requiring >7 days off work. Fractures, loss of consciousness	Breach of applicable regulations. Temporary impact. Visible loss of flora or fauna - multiple species. Disturbance rectified in <1 month	Serious repairs causing 1-7 days down time	AUD50K - 100K	WGW client impact - local site. Managed in coordination with client.
2	Requires medical treatment. No time off work.	Temporary impact. Visible loss of flora or fauna - single species. Disturbance rectified in 7 days	Medium level repairs. <1 day down time	AUD5K - 50K	Local site impact involving WGW & WGW contractors. Managed internally.
1	First aid treatment	Minor, temporary impact. Disturbance rectified easily & immediately	Low level repairs. <3 hours down time	Under AUD5K	Internal WGW impact only.

2. Incident Probability

1	Frequency of situation / activity: <= once per month (1-12 times per year) OR Chance of failure causing loss: Almost impossible. Never heard of failure occurring.	Low
2	Frequency of situation / activity: > once per month but less than once per week OR Chance of failure causing loss: Unlikely.	Moderate
3	Frequency of situation / activity: > once per week but less than once per day OR Chance of failure causing loss: Could happen but not known to have occurred.	High
4	Frequency of situation / activity: 1-10 times per day OR Chance of failure causing loss: Heard of 1 failure occurring in the past.	Very High
5	Frequency of situation / activity: 10+ time per day OR Chance of failure causing loss: Heard of >1 failure occurring in the past.	Extreme

3. Risk Matrix

		5	4	3	2	1	
		LIKELIHOOD					
SEVERITY	Multiple catastrophic	6	30	24	18	12	6
	Catastrophic	5	25	20	15	10	5
	Major	4	20	16	12	8	4
	Serious	3	15	12	9	6	3
	Moderate	2	10	8	6	3	2
	Low	1	5	4	3	2	1

4. Action Required

20+	EXTREME	Inoperable: STOP WORK, ensure personnel & equipment safety, evacuate site & return only when risk reduced to ALARP & accepted
16-20	V. HIGH	Intolerable: Stop work & recommence only when risk reduced to ALARP & accepted
12-15	HIGH	Unacceptable: engineer out & reduce to ALARP before continuing
6-10	MODERATE	Acceptable: when reduced to ALARP before continuing
1-5	LOW	Acceptable: train for continuous improvement

Haling Narelle

From: txd01 rig <txd01.rig@woodgroupwagners.com>
Sent: Monday, 12 September 2011 1:28 PM
To: Rasmussen Graham
Subject: FW: [Section 78B(2) RTI Act] proposed to be onsite TXD Rig Manager

Thanks
Sean Taylor
Wood Group Wagners
Rig Manager TXD01
txd01.rig@woodgroupwagners.com

[Section 78B(2) RTI Act]



From: Gerard McKay [<mailto:Gerard.McKay@westsidecorporation.com>]
Sent: Sunday, 11 September 2011 2:24 PM
To: txd01 rig
Subject: FW: [Section 78B(2) RTI Act] proposed to be onsite TXD Rig Manager

From: Ray Cowie
Sent: Wednesday, 31 August 2011 1:31 PM
To: Gerard McKay
Subject: Re: [Section 78B(2) RTI Act] proposed to be onsite TXD Rig Manager

Check with [Section 78B(2) RTI Act] directly. But it makes sense to leave radiator in for engine diagnostics.
Why do we need to pull radiator? [Section 78B(2) RTI Act]

Thanks
Ray Cowie
Sent from my iPhone

On 31/08/2011, at 1:25 PM, "Gerard McKay" <Gerard.McKay@westsidecorporation.com> wrote:

- [Section 78B(2) RTI Act] Brisbane Based Project manager
- Original plan for MTU specialists to conduct rig maintenance
- Company Man [Section 78B(2) RTI Act] for timeline to project completion - without reply -
- [Section 78B(2) RTI Act] proposes that Diesel Engine Fitters now to replace MTU specialists on site
- Diesel Engine Fitters do not possess their own tools, so need to get kit from MTU specialists
- [Section 78B(2) RTI Act] instructed TXD rig crew to remove radiator from engine and send to Brisbane

- Diesel engines and equipment needs to be run-up (started up) prior to diagnostics being conducted
- Without radiator – engine cannot be run and no diagnostics possible
- [redacted] Section 78B(2) RTI Act as onsite TXD project leader, to implement [redacted] Section 78B(2) RTI Act general plan
- [redacted] Section 78B(2) RTI Act to work on TXD
- Propose to leave radiator installed until after engine diagnostics have been obtained

Could you advise?

Gerry

<image001.jpg>

Gerard Mckay

Direct: 07 3020 0902

Phone: 07 3020 0900

[redacted] Section 78B(2) RTI Act

Fax: 07 3020 0999

WestSide Corporation LTd

Level 8, 300 Queen Street, Brisbane QLD 4001

www.westsidecorporation.com

RTI/DL RELEASE - DNR/M

Ralph,

Could you give us an updated expected completion date for our maintenance shut down as I need to update our third party contractors (Drilling). I have been using the 10th September in the forecast so far.

Cheers,

[redacted] Section 78B(2) RTI Act

Operating Company Representative

<image002.jpg>

Section 78B(2) RTI Act

Email: companyman@westsidecorporation.com

Web: www.westsidecorporation.com

Address: 28-30 Okano Street, Moura QLD 4718

Postal: PO Box 36, Moura QLD 4718

<TXD Rig Shutdown Cost 19-08-2011 1.0.xlsx>

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Wellsite Permit to Work - Rev 2



Permit No 2 - 003087

SECTION A - SCOPE

CATEGORIES OF WORK (more than one work type may be performed using one form, if appropriate)

- Cold Work Explosive/Radioactive Pressure Systems Electrical Work
 Hot Work Confined Space Entry* Working at Height

*The user of a confined spaces entry permit must also use the confined space entry permit supplement.

Date of Issue: <i>Fri 9th Sep 2011</i>	Issued to Wellsite Permit Holder (Name): <i>Section 78B(2) RTI Act</i>
Rig or Equipment Name / Number: <i>TXD02*</i>	Wellsite Permit Holder Company: <i>WGW</i>
Wellsite Name or Location: <i>Mer 30</i>	Specific Work Location on the Wellsite: <i>lease</i>
Specific Work Description to be done: <i>welding, cutting, container locking pins</i>	
Tools/Equipment to be used: <i>welder, oxy, grinder and hand tools</i>	
Associated Documents (list or attach): <i>WGW SWP 0601 PTW</i>	Work Precautions Verifier (Name & company) (If not Wellsite Permit Authority list name/role/company): <i>Section 78B(2) RTI Act</i>

WORK PARTY ACCEPTANCE

I understand the work to be performed, the plant & equipment to be worked on, all work precautions and conditions prescribed for this permit & agree to abide by all the requirements of this permit.

Name	Signature	Time	Name	Signature	Time
1		<i>6:10</i>			<i>06:10</i>
2	Section 78B(2) RTI Act	<i>6:10</i>	Section 78B(2) RTI Act	49-Sch4 - Signature	<i>6:10</i>
3		<i>6:10</i>			

SECTION D - PERMIT ISSUE/PERMIT CLOSEOUT

This permit is active from	Date: <i>Fri 9th Sep 2011</i>	Time (24hrs): <i>0600</i>
This permit expires at (unless suspended earlier)	Date: <i>Fri 9th Sep 2011</i>	Time (24hrs): <i>1800</i>
Wellsite Permit Holder Acceptance I have read, understand & will ensure compliance with all the requirements of this permit.	Wellsite Permit Authority Approval I approve the issuing of this permit for work at the specific work location under the precautions & work conditions listed.	Operating Company Representative Authorisation I authorise the issuing of this permit for work at the specific work location under the precautions & work conditions listed.

Name: _____ Section 78B(2) RTI Act

Signature: _____	Signature: _____	Signature: _____
49-Sch4 - Signature	49-Sch4 - Signature	49-Sch4 - Signature

Wellsite Permit Holder Closeout I confirm all persons under my supervision, materials & equipment have been withdrawn.	Wellsite Permit Authority Closeout I confirm this permit is closed & all persons working under this permit, materials & equipment have been removed & the work area made safe.	Operating Company Representative Closeout I confirm this permit is closed & all persons working under this permit, materials & equipment have been removed & the work area made safe.
Work complete? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Work complete? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Work complete? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

List details of incomplete work:

Time of closeout (24 hrs) <i>1800</i>	Time of closeout (24 hrs) <i>1800</i>	Time of closeout
Site cleaned up/locks/tags removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Site cleaned up/locks/tags removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Site cleaned up/locks/tags removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Name: _____ Section 78B(2) RTI Act

Signature: <i>13-095</i>	Signature: <i>DL Documents - File C /</i>	Signature: _____
49-Sch4 - Signature	49-Sch4 - Signature	49-Sch4 - Signature

SECTION B – WORK PRECAUTIONS - CHECKLISTS

All specified work precautions must be completed before work is commenced

GENERAL: All Wellsite Permits

WORK PRECAUTION CHECKLIST	Required Yes/No	Initial by Verifier
Fluid power locked out & tagged	NO	
Mechanical power locked out & tagged	NO	
Electrical power locked out & tagged	NO	
Equipment drained/depressurised & purged.	NO	
Written procedure to be used (record procedure reference in Associated Documents in Section A)	YES	
Work Party members briefed on work to be done	YES	
Job Hazard Analysis (JHA) to be performed (list JHA in Associated Documents in Section A)	NO	
Non-essential personnel cleared from work area	NO	
Gas detection test required prior to work.	NO	
Warning signs posted at work location.	NO	
Work area bunted off to exclude other personnel	NO	
All wellsite personnel informed of work to be done	NO	
Continuous gas monitoring	NO	

Cold Work Permit

WORK PRECAUTION CHECKLIST	Required Yes/No	Initial by Verifier
Excavation survey required		

Hot Work Permit

WORK PRECAUTION CHECKLIST	Required Yes/No	Initial by Verifier
Protective screens erected	NO	
Full spark containment	NO	
Drains covered	NO	
Competent Fire Watcher on duty (name recorded in work party)	YES	
Area free from combustible material	YES	
Fire extinguishers placed in work area	YES	
Fire hose charged & available	YES	

Pressure Systems Work Permit

WORK PRECAUTION CHECKLIST	Required Yes/No	Initial by Verifier
Isolations proved		
Pressure relief devices in place & tested		
Pressure lines secured against movement		
Bleed off lines directed to safe areas		
Voids checked for trapped pressure		
Hammer union compatibility verified		
System of communication established & tested		

Electrical Work Permit

WORK PRECAUTION CHECKLIST	Required Yes/No	Initial by Verifier
Capacitors discharged		
Isolations proved – correct item de-energised		
Residual current device (RCD) in place		
Grounding of equipment completed		
Personnel certification available / sighted		

Explosive/Radioactive Permit

WORK PRECAUTION CHECKLIST	Required Yes/No	Initial by Verifier
Storage area designated for explosives & radioactive sources		
Radiation badges worn & survey meter available		
Grounding clamps in place		
Overhead power shutdown/ top drive isolated		
Welding unit turned off & isolated		
Cathodic protection turned off & isolated		
Shot firers / blasters ticket sighted		
Radio silence enforced		
Perforating safety checklist to be used		

Working at Height Permit

WORK PRECAUTION CHECKLIST	Required Yes/No	Initial by Verifier
Inspected & maintained inertia reel required		
Hand tools secured by lanyards or similar		
Personnel working at height trained & competent for working at height		
Area below the work cleared of all personnel		
Emergency rescue plan in place & recovery equipment available		
Fall prevention / protection equipment in working order & personnel trained to use		

Confined Space Entry Permit

WORK PRECAUTION CHECKLIST	Required Yes/No	Initial by Verifier
Work location to be purged before entry		
Documented risk assessment completed	YES	
Confined space entry permit attached	YES	
Training certificate for person entering confined space	YES	
Stand by person		
Respirator or self contained breathing apparatus		
Emergency rescue plan in place & recovery equipment available	YES	
Entry way to be secured open		

SECTION B - WORK PRECAUTIONS – PRESTART GAS DETECTION & MONITORING RECORD

Gas tester name	Initials	Time 24hr	% LEL <input type="checkbox"/>	CO ppm <input type="checkbox"/>	H ₂ S ppm <input type="checkbox"/>	% O ₂ <input type="checkbox"/>	Other gases

SECTION B - ISOLATION RECORD

Description of isolation	Lock/Tag number	Location of Lock/Tag	Initial Verified in place	Initial Verified removed

SECTION C – ONGOING WORK CONDITIONS

WORK CONDITIONS – MANDATORY FOR WELLSITE PERMIT HOLDER & ALL WELLSITE WORK PARTY MEMBERS

Continuous gas monitoring during work Goggles Respirators Face shield Hearing protection

Other details and conditions:

GAS DETECTION & MONITORING RECORD – ONGOING

Gas tester name	Initials	Time 24hr	% LEL <input type="checkbox"/>	CO ppm <input type="checkbox"/>	H ₂ S ppm <input type="checkbox"/>	% O ₂ <input type="checkbox"/>	Other gases
13-095							

Haling Narelle

From: Wright John
Sent: Monday, 9 January 2012 9:22 AM
To: Russell Churchett
Cc: Rasmussen Graham
Subject: RE: TXD Rig re-commission

Russell

Happy New Year to you!

We will require documentation to confirm the rig has been returned to original Schramm specifications, and you need to have a third party verification by one of the rig testing agencies such as Moduspec, Petrospec etc. Will we also be continuing our investigation in the incident once we receive the engineering report from the loss adjuster.

Regards

John Wright

*Regional Petroleum and Gas Inspector
Department of Employment Economic Development and Innovation
Safety and Health Division
Level 5, 34 East Street
Rockhampton 4700
Phone 0749384682
Fax 0749384331*

Mobile 08-Sch4 - Mobile phone

Email john.wright@deedi.qld.gov.au

Vision : Our Industries Free of Safety and Health Incidents.

From: Russell Churchett [<mailto:russell.churchett@westsidecorporation.com>]

Sent: Saturday, 7 January 2012 12:22 AM

To: Wright John

Cc: Rasmussen Graham

Subject: TXD Rig re-commission

John / Graham,

Happy new year, hope you are both well.

TXD rig repairs are progressing and re-commissioning is being planned. Moduspec are being lined up to perform the rig and carrier inspection.

I am looking to ascertain exactly what documentation / certification you require to be provided to your office to permit the rig to return to operations.

Regards

Russell Churchett

WestSide HSE Manager

Disclaimer:

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RTI DL RELEASE - DNRM

<p>STEP 1. Document Location and description of hazard on the work site. STEP 2. Define Work Activity STEP 3. Define Site Location, date of assessment and any PTW numbers that pertain to this assessment. STEP 4. List Team Members, their role and experience STEP 5. List any Reference Materials used STEP 6. Complete the Risk Analysis and Assessment Form STEP 7. If further controls are necessary, complete Risk Management Action Plan to implement STEP 8. Send document to appropriate reviewer & approver for sign off, then to HSEQ Dept to formalise into Safety Management System & include in Risk Register</p>		<p>Location of Hazard on work site: TXD Rig</p>					
		<p>Description of Major Hazard: Bent front jack legs and Mast lift Rams.</p>					
<p>Work Activity: Removing damaged rig components to secure site.</p>		<p>Site Location: Meridian site #36</p>					
		<p>Date: 12 September 2011</p>					
		<p>Work Permit Number (If Applicable): unknown until day work commences</p>					
		<p>Work Procedure Name and Number (If Applicable):</p>					
Risk Assessment Team Members							
Name	Company	Position	Risk Assessment Role (Facilitator/Team Member)	Process /Task Experience	Signature		
Section 78B(2) RTI Act	WGW	Rig Manager	Team Member				
	Wintringham Diesel	Mechanic	Team Member				
	Westside Corporation	Drilling & completions	Team Member				
	WGW	Production & well services	Team Member				
	WGW	HSE & Training Advisor	Facilitator				
	WGW	HSE & Q Manager	Team Member				
<p>KEY P – Probability C – Consequence R – Risk Ranking</p>				<p>Definitions Probability: The chance that something will happen. Consequence: The result of an action/event taking place. Risk Ranking: the score given to a risk after considering its actual consequence and the probability of it happening. Hazard: an Actual or Potential source of harm. Risk: The likelihood or Probability of harm resulting from a particular hazard. ALARP: As Low As Reasonably Practicable.</p>		<p>Additional Documentation References</p>	
<p>Site Manager/Supervisor: Section 78B(2) RTI Act</p>		<p>Signature:</p>		<p>Date: 12 September 2011</p>			

RISK ANALYSIS and ASSESSMENT FORM

Identify the potential incidents, causes and consequences. Discuss, consider and ask questions about potential human factors/errors slips/lapses, mistakes and shortcuts, fatigue and changes etc. Identify existing or current controls and review any prior similar incidents, assess each hazard for likelihood and consequence, allocate a Risk Ranking. Identify new or recommended controls, Reassess the Risk Ranking and score the residual risk.

No.	Task	Hazard/Danger	Current Control Measures	Risk Rating			ALARP Y/N	Further Recommended Controls	Residual Risk Rating		
				P	C	R			P	C	R
1	Remove any and all excess equipment from area	Slips, trips , falls, crush hazards,	Pre job safety meeting and spotters used at all times.	2	5	10	Y	All equipment must be moved to a position where it cannot interfere with potential escape routes or operational requirements.	2	5	10
2	Anchor crane to rig	Slips, trips , falls, crush, pinch hazards, cables breaking, inexperienced operators	Qualified operators, Qualified and experienced Dogman, fit for purpose equipment all certified and current.	2	5	10	Y	Only the specified "Dogman" is to give operational instructions to the crane operators.	2	5	10
3	Connect batteries & remove steps and ladders from rig	Slips trips falls crush and pinch points , sparks low voltage.	Pre job meeting, experienced operators, appropriate PPE for all members involved	2	3	6	Y		2	3	6
4	Build up air in tank & Start rig.	Slips, trips , falls, crush & pinch points,	Pre job meeting	2	3	6	Y		2	3	6
5	Lower Rear legs until wheels are on sub base with rig hydraulics	Mechanical failure, rig over balance	Engine shut down, crane securing , spotters , exclusion zone	2	5	10	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager	2	5	10
6	Remove concrete blocks and timbers	Crush points , splinters	Pre job meeting PPE – spotters , competent operators ,remove all un-essential personnel	2	5	10	Y	Blocks to be moved to a location that does not interfere with operational requirements and that cannot block potential escape routes.	2	5	10
7	Back truck under load	Crush, rollover	Competent operators, fit for purpose equipment, pre job briefing, spotters	2	5	10	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager, backing operations are not to commence until positive notification from the crane operators is received that the load is secured.	2	5	10

8	Lower load onto truck	Crush, rollover	Competent operators, fit for purpose equipment, pre job briefing, spotters	2	5	10	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager, Only the specified "Dogman" is to give operational instructions to the crane operators.	2	5	10
9	Drive truck off sub-base	Crush	Competent operators, fit for purpose equipment, pre job briefing, spotters	2	5	10	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager, Only the specified "Spotter" is to give operational instructions to the Truck Driver.	2	5	10
10	Secure load and jib crane booms	Pinch points, falls, trips, slips, cuts, crush	PPE, correct WAH procedures, fit for purpose equipment, pre-job briefing	2	3	6	Y	All personnel not required are to be moved well outside of the exclusion zone and are to remain there until otherwise directed by the rig manager, Only the specified "Dogman" is to give operational instructions to the crane operators.	2	3	6

RTI DL RELEASE - DNR/M

RISK MANAGEMENT ACTION PLAN

Document further controls as agreed by the risk assessment team, assign responsibilities and completion dates. Complete the monitoring / review mechanism, the date when the HSEQ Team should monitor the assessment for completion of Recommended Controls, and the date for scheduled review of the assessment to assess residual risk rating and effectiveness (must be at least within 24 months of the date of the assessment).

No:	Recommended Controls	Person/s Responsible	By When	Date Completed
1	JSA to be completed for crane lifts.			
2	All equipment must be certified (eg-lifting gear)			
3	All trucks must be registered,			
4	Pre job brief before each job.			
5	All tie down equipment to be fit for purpose.			
6	All operators to have required tickets.			
7	Full PPE required for all involved.			
8	All non-essential people to be removed.			

MONITOR / REVIEW MECHANISM

Document the date reviews are required, who is responsible (position, e.g. Managing Director, HSEQ Manager, Site Manager, Risk Team etc) and set dates for monitoring action items and review of residual risk and effectiveness. The HSEQ Team shall enter monitoring & review requirements in the Risk Register and ensure timeframes are met, and ensure any requirements arising out of monitoring and review are actioned and documented.

Type	Date Due	By Whom	Date Completed	Comments e.g. Change has occurred - new R/A to be conducted, items not completed and why etc.
Monitoring closure of action items				
Residual Risk / Effectiveness Review				

1. Potential Consequence

Rating	Injury	Natural Environment	Equipment	Financial	Reputation
6	Multiple fatalities	Permanent & irreparable impact. Impact on the local community. Contamination of potable water supply.		>AUD1,000,000	International media involved. Potential multiple client impact. Loss of contract(s) & future opportunities
5	Fatality	Permanent & irreparable impact on the natural environment	Permanent loss of equipment with replacement lead time >14 days	>AUD 500K <1,000K	National media involved. Client impact. Loss of current contract.
4	Major injury: limb loss, blindness, electrocution, permanent health effects	Temporary, severe but reparable impact. Pollution reaches surface water bodies or stormwater	Major repairs causing 8+ days down time	AUD 100K - 500K	WGW client impact - multiple sites. Incident response controlled by client. Potential loss of current contract.
3	Serious injury requiring >7 days off work. Fractures, loss of consciousness	Breach of applicable regulations. Temporary impact. Visible loss of flora or fauna - multiple species. Disturbance rectified in <1 month	Serious repairs causing 1-7 days down time	AUD50K - 100K	WGW client impact - local site. Managed in coordination with client.
2	Requires medical treatment. No time off work.	Temporary impact. Visible loss of flora or fauna - single species. Disturbance rectified in 7 days	Medium level repairs. <1 day down time	AUD5K - 50K	Local site impact involving WGW & WGW contractors. Managed internally.
1	First aid treatment	Minor, temporary impact. Disturbance rectified easily & immediately	Low level repairs. <3 hours down time	Under AUD5K	Internal WGW impact only.

2. Incident Probability

1	Frequency of situation / activity: <= once per month (1-12 times per year) OR Chance of failure causing loss: Almost impossible. Never heard of failure occurring.	Low
2	Frequency of situation / activity: > once per month but less than once per week OR Chance of failure causing loss: Unlikely.	Moderate
3	Frequency of situation / activity: > once per week but less than once per day OR Chance of failure causing loss: Could happen but not known to have occurred.	High
4	Frequency of situation / activity: 1-10 times per day OR Chance of failure causing loss: Heard of 1 failure occurring in the past.	Very High
5	Frequency of situation / activity: 10+ time per day OR Chance of failure causing loss: Heard of >1 failure occurring in the past.	Extreme

3. Risk Matrix

		5	4	3	2	1	
		LIKELIHOOD					
SEVERITY	Multiple catastrophic	6	30	24	18	12	6
	Catastrophic	5	25	20	15	10	5
	Major	4	20	16	12	8	4
	Serious	3	15	12	9	6	3
	Moderate	2	10	8	6	3	2
	Low	1	5	4	3	2	1

4. Action Required

20+	EXTREME	Inoperable: STOP WORK, ensure personnel & equipment safety, evacuate site & return only when risk reduced to ALARP & accepted
16-20	V. HIGH	Intolerable: Stop work & recommence only when risk reduced to ALARP & accepted
12-15	HIGH	Unacceptable: engineer out & reduce to ALARP before continuing
6-10	MODERATE	Acceptable: when reduced to ALARP before continuing
1-5	LOW	Acceptable: train for continuous improvement

Schedule 2 - Hazard Identification & Risk Assessment

Site Hazard Register

Site / Operation:

Westside "Meridian"

Date:

04 March 2011

Hazard	Ref.	Hazard	Risk Level	Action
1		Hazardous Materials & Contamination	Mod	Physical: Earth bunds; Spill kits, correct storage during transport & use, preventative maintenance; monitoring Procedural: Emergency Response Plan, Hazardous Substances SOP, Site Preparation Procedure, pre-start checks, induction/training, reporting procedures, pre-starts, Safety audits & inspections/interactions, approved chemicals; MSDS; induction/training, reporting procedures Behavioural: Awareness ; hazard reporting
2		Noise	Low	Communicate EHS procedures. Ensure monitoring of crew wearing HPE during operations
3		Manual Handling	Mod	All staff to undergo Manual Handling training TP 01/02, mechanical lifting devices and aids such as forklifts to be used and operators to be training in the use of.
4		Working at Heights	Mod	Training in heights awareness, the use of harnesses, fall restraints and lanyards. All staff to use fall restraint equipment when working over 1.8 meters and when working near edges over 1.8 meters. The use of a man cage
5		Vehicle Management	H	Physical: Well maintained vehicle and lights, Commutation Procedural: General Vehicle Rules Guide, VEMP Maintenance Procedure, Fatigue Management - Fitness for Work SOP, Emergency preparedness SOP, Driver training – competent people, Qld road rules Behavioural: Awareness, JSA if unsure, limit driving at night time, Driving to conditions, obey speed limits & road rules
6		Flammable materials. Electrical Faults.	Low	Set up audit schedule to check and service fire fighting equipment and extinguishers. Finalise extinguisher exchange process and provide for AAAF fire suppression. Ensure site housekeeping is at a high level and all materials are stored appropriately.

7		Bushfire		Clearance of drill pad and area. Establish evacuation procedure and identify muster points. Monitor environment visually for signs of fire. Fire extinguishers located on all vehicles. Sumps Pumps and recirculation water to be used to protect property and drill crew. Use of Fire Trailers.
8		Hot Works	Mod	<p>Physical: Correct PPE for task, cleared work areas, fire extinguishers/ fire units, understand task requirements; muster points</p> <p>Procedural: Hot Work Procedure, Hot Work Permit, Emergency Response Plan - Fire Procedure, contractor procedures - SOP/SWP, induction, Trained & competent people, equipment inspections</p> <p>Behavioural: Awareness, JSA, regular and PM (clearing slashers decks, etc)</p>
9		Environmental Elements	Low	Minimise time in open. Apply sunscreen. Wear hat/brim. Wear appropriate PPE. Regular Water intake. Use of electrolyte replacement drinks to substitute water intake. Self and Peer monitoring of work behaviours - fit for task. Wear appropriate PPE and cool weather gear.
10		Disturbance of; Damage to Cultural Areas and Artefacts significant to the traditional landowners.	Low	Ensure drill crew are familiar with local knowledge and Client policies and procedures with respect to the identification and management of areas of cultural significance. This includes knowledge of site disturbance permits.
11		Fatigue	Mod	Fitness for Work SOP, Regular breaks, rotation, planning. Late start/early finishing on site; Take 5's. Fatigue Mgt Plan; Behavioural: Adequate rest/sleep; Stop-Revive-Survive. Travel Plans. Drilling contractors to abide by the Site Safety Management Plan • Rostered Days Off (RDO) are for rest days and are not to be worked at other sites, etc • 12 hour days • 24 hour rest period between day shift to night shift (RDO) • Fatigue Management Training • Continual awareness at daily Pre-start meetings • Weekly Toolbox Meetings-awareness • Drilling Contract-hours for work • Take 5's, JSA's and Safety Inspections • Contractor Supervisor Requirements – monitor and review performance of all personnel daily • Job rotation/opportune rest breaks: o Offsiders rotating tasks. Adequate hydration, sensible consumption, look after your mates, diet
12		Inadequate First Aid Supplies	Low	All kits supplied on each drill site meet Workplace Health & Safety Regulation for up to a Moderate Risk of 1-29 Persons. Trained and competent personal

13		Injury from rotating rods / rotating equipment	Mod	<p>Physical: Guarding, emergency stop buttons, appropriate PPE, Danger zones demarcated Procedural: Machine Guarding Procedure, Isolation & Tagging Procedures, Contractor's procedures- SOP/SWP, approved contractors, Safety audits & inspections/interactions, training, Competent people, Rig inductions, WGW equipment inspections prior to use on site Behavioural: Isolation, follow procedures, eyes on path eyes on hands, maintain housekeeping, Awareness, Personnel are not to place body parts in-line of fire</p>
14		Energy Sources	Mod	<p>Physical: Isolation locks, danger tags, PPE – task requirements, stability of site/workplace; Test for Dead Procedural: Manual Handling SOP, Isolation & Tagging Procedures, contractor's procedures- SOP/SWP, approved contractors, induction, training, Safety audits & inspections/interactions, Rig inductions Behavioural: Isolation, follow procedures, eyes on path eyes on hands, maintain housekeeping, Awareness, correct manual handling techniques, Take 5. All crews to follow procedures</p>
15		Working at Heights	Mod	<p>Physical: Tool restraints, barricades, guarding, Platforms & access ways designed to AS1657, spotters, communication, Approved harness/lanyard & attachment points, correct PPE for task Procedural: Working at Heights Procedure, Isolation & Tagging Procedures induction, contractor's procedures - SOP/SWP, approved contractors, Safety audits & inspections/interactions, Toolbox talks, trained & competent people, Permits, equipment inspections & registers Behavioural: JSA, follow procedures, eyes on path eyes on hands, controlled movements, housekeeping. All crews to follow procedures.</p>
16		Gas Intersection	H	<p>Physical: Gas monitoring, muster points, wind socks, Communications, no-go zones Procedural: Gas Intersection Procedure; Emergency Response Plan Contractors Procedures, Inductions, Safety audits & inspections/interactions, Rig Inductions, Hazard reporting procedures, Toolbox talk awareness, Safety Alerts Behavioural: No smoking on site, crew observations</p>
17		Injury from high pressure air/hydraulics (e.g. hose failure)	Mod	<p>Physical: Whip checks, emergency stop buttons, appropriate PPE, no-go zones Procedural: Contractor's procedures- SOP/SWP, approved contractors, isolation, training, Inductions, Pre-starts, Safety audits & inspections/interactions, signage, competent persons; compliance certifications; maintenance (regular and PM) Behavioural: eyes on path eyes on hands; awareness. All crews to follow procedures.</p>

18		Slips, Trips and Falls / Accessing & Egressing Equipment (Sprains and Strains)	Mod	Physical: Barricading, designated walk paths, housekeeping; grating/guarding; appropriate footwear, Correct PPE for task, walk on designated walkways, guarding Procedural: Site Preparation Procedure, Daily site inspections, Safety audits & inspections/interactions, Inductions, Rig inductions; hazard reporting, Plant & Equipment design within standards, Inductions, Toolbox Talk Awareness Behavioural: Awareness ; eyes on path; control movements; Take 5; three points of contact, maintain housekeeping. All crews to follow procedures
19		Injury from explosion, fire or hazardous substances	Mod	Physical: Correct PPE for task, rig design, Fire suppression system on rig, rig & equipment design Procedural: Emergency Response Plan, Site Preparation Procedure, Hazardous Substances SOP, MSDS, Induction, Training, Approved chemicals, pre-start checks Behavioural: JSA, awareness
20		Incidents while Working at Night	Mod	Physical: Adequate lighting, clear work space; communications Procedural: Fatigue Management -Fitness for Work SOP, Working In Extremes Procedure, Emergency Response Plan, Contractor procedures - SOP/SWP, induction, Rig Induction, Safety audits & inspections/interactions, Trained & competent people, equipment inspections / pre-starts Behavioural: Awareness, Healthy lifestyle, Adequate rest/sleep, Job rotation, regular breaks, vigilance, crew observations; limit unnecessary travel
21		Community Outrage	Low	Physical: Communication – notice of entry, Site rehabilitation; landowner consultation; no-go areas; gate markers; signage; lock controls; grid vs. gate (if warranted) Procedural: contractor management, Lease Conduct Guide, Inductions, Inspections; toolbox talks; monitor and review access Behavioural: Leave everything as found, Awareness, effective community liaison. Ensure drill crew are familiar with local knowledge and Client policies and procedures with respect to the community
22		Defence UXO	Extreme	Physical: Move exploration location if high numbers of UXO's are likely to be uncounted. Procedural: Barricade area and refer UXO to the department of defence.

RTI DECLASSIFIED

Hazard	Risk	Target	Severity	Like lihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
Hazardous substances	Spills to environment of hydrocarbons, mud additives (chemicals) or contaminated	Local flora & fauna including endangered or protected species	3	E	Mod	Establish & follow adequate procedures for handling, storing & transporting hazardous substances. All hydrocarbons are to be stored in suitable banded areas EHS-41 & EHS-43 no access to environmentally sensitive areas i.e. salt lakes or other non	Report spills & other environmental incidents on incident report form EHS-32/1. Adequate procedure to manage leaks & spills EHS-42.	Low

Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
	water. Potential to flow to surface water bodies causing contamination.					approved areas by the client.		
Heavy machinery	Damage from heavy vehicle coming into contact with flora and fauna	Local flora & fauna including endangered or protected species	1	E	Low	Client protocols and site driver procedures.	Current processes acceptable.	Low
Hydrocarbon fuel	Fuel leaks from Machinery. May cause minor spill damage to environment	Local flora & fauna including endangered or protected species	3	E	Mod	Follow the pre-start system already established and ensure the reporting and fixing of all leaks. Refuelling is to take place in approved refuelling areas only (client appointed)	Report spills & other environmental incidents on incident report form EHS-32/1. Adequate procedure to manage leaks & spills EHS-42.	Low
Hydraulic fluid	Oil leaks from Machinery. May cause minor spill damage to environment.	Local flora & fauna including endangered or protected species	3	E	Mod	Follow the pre-start system already established and ensure the reporting and fixing of all leaks.	Report spills & other environmental incidents on incident report form EHS-32/1. Adequate procedure to manage leaks & spills EHS-42.	Low
Engine oil	Oil leaks from Machinery. May cause minor spill damage to environment.	Local flora & fauna including endangered or protected species	3	E	Mod	Follow the pre-start system already established and ensure the reporting and fixing of all leaks.	Report spills & other environmental incidents on incident report form EHS-32/1. Adequate procedure to manage leaks & spills EHS-42.	Low
Drilling mud additives	Spills to environment of hydrocarbons, mud additives (chemicals) or contaminated water. Potential to flow to surface water bodies causing contamination.	Local flora & fauna including endangered or protected species	3	E	Mod	All additives are to be kept in bunded zone already established. Spill kits are located near storage area and crews trained in the usage of these kits.	Current processes acceptable.	Low
Waste oil, hydraulic fluids etc	Spills to environment of hydrocarbons, mud additives (chemicals) or	Local flora & fauna including endangered or protected	3	D	Mod	All waste oils and any hydrocarbon contaminated materials are to be stored and disposed of with client/authorised contractors on site.	Finalise arrangements with client/authorised contractors on site	

Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
	contaminated water. Potential to flow to surface water bodies causing contamination.	species						
General waste	General waste causing pollution to environment and contaminating drains.	Local flora & fauna including endangered or protected species	1	E	Low	General waste to be stored in nominated bins and removed from site as per client/authorised contractors on site.	Finalise arrangements with waste management group and put all into place	
Noise	Noise from rigs trucks compressors	Employees	2	D	Low	Noise levels to be registered, monitored and preventative measures put into place.	Yearly noise measuring and pre employment plus 2 yearly employee audio testing to be continued. All operators on the forklift must wear hearing protection.	
Return Water Control	Return water from hole running over adjacent land and could possibly discolour local water courses.	Local flora and fauna and watercourses	5	C	Extreme	Contain return water in above ground tanks for recirculation. Contractor to remove sludge from tanks via pump truck and transport/discharge off site.	Assist Contractor to prepare appropriate sumps. Monitor sludge volume and potential for water loss to environment.	
Weed Control	Spread of noxious weeds across lease	Local flora and fauna and watercourses with vehicle interaction	4	A	Extreme	All plant & equipment to be washed down prior to entering Lease, furthermore any plant & equipment moving locations on the lease will be washed down prior to entering the lease.	Complete Weed Hygiene Declaration process, operator to report to WCL office with receipt of wash facility before entering lease if applicable	
Weed Control	Spread of noxious weeds across lease	Local flora and fauna and watercourses with vehicle interaction	2	D	Low	Area to be monitored for the introduction of new weed species	All person ell are to remain vigilant and report any new weed species to their supervisor ASAP	
Hazardous Materials & Contamination	Contamination of soil and water source from vehicle	Local flora and fauna and watercourse	3	C	High	Physical: Earth bunds; Spill kits, correct storage during transport & use, preventative maintenance; monitoring Procedural: Emergency Response Plan, Hazardous		

Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
	fluid spills / hydrocarbons / hazardous substance	s				Substances SOP, Site Preparation Procedure, pre-start checks, induction/training, reporting procedures, pre-starts, Safety audits & inspections/interactions, approved chemicals; MSDS; induction/training, reporting procedures Behavioural: Awareness ; hazard reporting		
Hazardous Materials & Contamination	Contamination from non-retrievable radioactive source down hole	Local flora and fauna and watercourses	4	C	High	Physical: Barricading, site closure Procedural: Contractor Management, Contractor procedures - SOP/SWP, specialist contractors, Qld Radiation Safety Act (1999), Reporting and recording, Inspections; competent persons; identification on-site; Behavioural: Ground assessed for likelihood to collapse; preventative equipment/ground inspections		
Waste Management	Degradation due to inappropriate disposal of vehicle wastes - tyres, oil cans, filters, batteries; sump material	Local flora & fauna including endangered or protected species	2	B	Mod	Physical: Designated waste storage areas, Housekeeping; Moura dump and sewerage plant Procedural: EA compliance, Environmental Management Plan, Hazardous Substance Procedure, contractor procedures, Safety audits & inspections/interactions, Inductions Behavioural: Regularly remove waste from site		
Ground Disturbance & Rehabilitation	Soil disturbance, compaction and erosion	Local flora and fauna and watercourses	2	A	High	Physical: Bunding, earthworks barriers & pooling, Location of exploration activities and drill sites, stay on tracks Procedural: Site Preparation Procedure, Rehabilitation Procedure, Code of Environmental Compliance, contractor procedures, Safety audits & inspections/interactions, Inductions Behavioural: Driver Behaviour, Environmental Awareness		
Flora, Fauna & Protected Areas	Human presence disturbs protected flora and fauna	Local flora & fauna including endangered or protected species	4	B	Extreme	Physical: Location map with defined 'no-go' zones, move exploration activities location if impact is likely or expected, spill kits Procedural: Environmental Management Plan, Site Preparation SOP, Code of Environmental Compliance, Inductions, Safety audits & inspections/interactions, Checking mapping of zones, Inductions Behavioural: Do not approach fauna, stay on specified tracks; communications (maps, toolbox meetings)		

Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
	Introduction of weeds / pests / disease	Local flora & fauna including endangered or protected species	3	A	High	Physical: Weed inspections conducted prior to entry to each site, move exploration location if impact is likely or expected, wash down facilities; spray if required; monitoring site rehab Procedural: Parthenium Weed Management Guide, Environmental Management Plan, Site Preparation Procedure; Behavioural: Awareness; communications of access/egress		
Ground Disturbance & Rehabilitation	Minimise disturbance to native vegetation and native fauna.	Well Lease and Access Track Construction and Restoration Any sites of rare, vulnerable and endangered flora and fauna have been identified, flagged and subsequently avoided. The attainment of either 0, +1 or +2 GAS criteria	3	A	High	Well Lease, Access Track and Camp Site Construction and Restoration Appropriately trained and experienced personnel have scouted proposed well site (including sump and flare pit) and access tracks and campsites for purpose of identifying and flagging significant (or rare, vulnerable and endangered) flora and fauna.		
Aquifer contamination	Minimise risk of aquifer contamination from cross flow.	subterranean aquifer's	3	D	Mod	Drilling and Completion Activities Observed volumes of cement return to surface match calculations. Where there is evidence of insufficient isolation, remedial action to be conducted.		
Contaminated wastes (sewage)	Drainage pattern disturbance	minimise risk of damage to surface drainage patterns	Surface water courses	3	D	Mod	Well Lease and Access Track Construction and Restoration Well sites and access tracks are located to maintain pre-existing water flows (i.e. channel contours are maintained on	All crews are to be made aware via the site induction that all surface water courses are off limits.

Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							floodplains and at creek crossings).	
	Noise	Impacts to crew and other personnel	Crew and personnel	3	E	Mod	Yearly noise measuring and pre employment plus 2 yearly employee audio testing to be continued. All drill crew to wear appropriate hearing protection.	Conform to EHS-23 Hearing Conservation Program
	Manual Handling	Injury due to poor lifting knowledge and techniques	People - employee, third parties, property.	2	C	Mod	Training and mechanical lifting aids to be provided.	All staff to undergo Manual Handling training TP 01/02, mechanical lifting devices and aids such as IT to be used and operators to be training in the use of same.
	Working at Heights	Fall from heights	People - employees	3	D	Mod	Training in heights awareness, the use of harnesses, fall restraints and lanyards. The use of a man cage	Training in heights awareness, the use of harnesses, fall restraints and lanyards. The use of a man cage
	Use of chains, slings, harnesses	Unsecured load falling	Crew	3	D	Mod	Develop inventory of chains, slings, harnesses used on site. Develop and implement process for accredited inspection and testing of chains, slings and harnesses	Accredited inspection of chains, slings, harnesses. Exchange program for sites. Site based training.
	Crew	Loss of vehicle control at speeds to great for conditions	Crew	5	D	E	Drive to conditions. Convoy driving where possible. Maintaining radio communications and sat phone if relevant. Seat belts a minimum requirement & condition of employment.	Drive to Conditions. All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery
	Crew	Loss of driver awareness / fatigue due to drowsiness at critical times of the	Crew	5	D	E	Seat belts a minimum requirement & condition of employment. Implement travel itinerary for travel between sites.	Travel Itinerary. Fatigue Management. All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery

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Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention	Reduce probability	Mitigation	Reduce consequences	Res. Risk
		day 6am, 6pm - leading to loss of control and/or collision.								
	Crew	Collision with unexpected local vehicle traffic.	Crew	5	D		E	Seat belts a minimum requirement & condition of employment.		Seat belts a minimum requirement & condition of employment. All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery
	Crew	Vehicle fault leading or contributing to loss of control or collision	Crew	5	D		E	Seat belts a minimum requirement & condition of employment. Pre start checks on vehicles		Maintenance Program. Pre Start Checks on vehicles
	Crew	Competency Based Vehicle Operations	Crew	5	D		E	Develop register of crew occupational and vehicle licences for site operations. Provide competency based training for IT use on sites.		Ongoing competency based training and assessment. All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery
	Crew	Use of Non ABS Light Vehicles	Crew	5	D		E	As Per Manufactures Built Requirements and letter of justification accompanied.		All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery
	Crew	Accident due to Fauna/ Livestock	Crew	5	C		E	Physical: Seat belts, Well maintained vehicles, Headlights, maintained roads & access tracks, cleared verges Procedural: Fatigue Management - Fitness for Work SOP, Traffic Management Plan, Emergency Response Plan, Induction, toolbox talks awareness, training, competent trained people, Hazard reporting, Safety audits & inspections/interactions,		All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery

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Hazard	Risk	Target	Severity	Like lihod	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							NSW Road Rules Behavioural: Employee awareness, JSA, Regular breaks, Swap drivers where possible, Planning, Driving to conditions, obey speed limits & road rules	
	Crew	Accident due to road or weather conditions	Crew	5	C	E	Physical: Seat belts, Well maintained vehicles, Site inspections Procedural: General Vehicle Rules Guide, Traffic Management Plan, VEMP Maintenance Procedure, Pre starts, Driver training, Safety audits & inspections/interactions, Toolbox talk awareness, Hazard reporting Behavioural: Employee awareness, Driving to conditions, obey speed limits & road rules	All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery
	Crew	Accident due to vehicle operating in difficult environments including steep terrain and river crossings	Crew	5	D	E	Physical: Seat belts, Well maintained vehicles, Well equipped vehicles Procedural: General Vehicle Rules Guide, Driver training, Vehicle Recovery SOP, Safety audits & inspections, Toolbox talk awareness Behavioural: JSA, awareness	All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery
	Crew	Accident due to general distractions whilst driving (e.g. communications, radio, mobile)	Crew	5	C	E	Physical: Seat belts, well maintained vehicles, first aid kits, passenger to operate communications equipment where required, hands free kit none available pull over, Procedural: General Vehicle Rules Guide, Trained & competent, S.A Road Rules Behavioural: JSA, Awareness	All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery
	Crew	Crash resulting	Crew	5	D	H	Physical: Seat belts, well maintained vehicles, trailer	All staff to undergo Advanced 4WD Defensive

Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
		from towed item detaching due to tow assembly failure					inspections, Drive to conditions Procedural: General Vehicle Rules Guide, VEMP Maintenance Procedure, pre start and regular inspections, driver training, competent people Behavioural: JSA, awareness, Driving to conditions, obey speed limits & road rules	Driver Training and Advanced Vehicle Recovery
	Crew	Crash resulting from driver losing control of vehicle due to towed item becoming uncontrollable	Crew	5	D	H	Physical: Seat belts, well maintained vehicles, trailer inspections, Drive to conditions Procedural: General Vehicle Rules Guide, VEMP Maintenance Procedure, pre start and regular inspections, driver training, Qld Road Rules, Competent people Behavioural: JSA, awareness, Driving to conditions, obey speed limits & road rules	All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery
	Crew	Injury from unsecure items/loads in vehicle cab	Crew	3	D	M	Physical: Travel bags, load items in tray, secure loads, housekeeping Procedural: General Vehicle Rules Guide, pre start and regular inspections, driver training, Safety audits & inspections/interactions Behavioural: Awareness, JSA, Driving to conditions, obey speed limits & road rules	All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery
	Crew	Accident while Driving at night	Crew	5	C	E	Physical: Well maintained vehicle and lights, Comminations Procedural: General Vehicle Rules Guide, VEMP Maintenance Procedure, Fatigue Management - Fitness for Work SOP,	All staff to undergo Advanced 4WD Defensive Driver Training and Advanced Vehicle Recovery

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Hazard	Risk	Target	Severity	Like lihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							Emergency preparedness SOP, Driver training – competent people, NSW road rules Behavioural: Awareness, JSA if unsure, limit driving at night time, Driving to conditions, obey speed limits & road rules	
	Flammable materials. Electrical Faults.	Fire taking hold in rig.	Crews and other person nel.	3	E	Mod	Set up audit schedule to check and service fire fighting equipment and extinguishers. Finalise extinguisher exchange process and provide for AAAF fire suppression. Ensure site housekeeping is at a high level and all materials are stored appropriately.	Fire extinguisher inspection and maintenance. Site housekeeping
	Bushfire	Fire threatens drill crew rigs and support vehicles and equipment.	Crews and other person nel.	4	D	Mod	Clearance of drill pad and area. Establish evacuation procedure and identify muster points. Monitor environment visually for signs of fire.	Fire extinguishers located on all vehicles. Sumps Pumps and recirculation water to be used to protect property and drill crew. Use of Fire Trailers.
	Hot Works	Fire from hot work or fuel build-up causing burns, smoke inhalation and/or poor visibility; equipment / property damage	Crews and other person nel.	4	C	High	Physical: Correct PPE for task, cleared work areas, fire extinguishers/ fire units, understand task requirements; muster points Procedural: Hot Work Procedure, Hot Work Permit, Emergency Response Plan - Fire Procedure, contractor procedures - SOP/SWP, induction, Trained & competent people, equipment inspections Behavioural: Awareness, JSA, regular and PM (clearing slasher decks, etc)	Fire extinguisher inspection and maintenance. Site housekeeping Hot Works Permit
	Fire Equipment	Inability to	Crews	4	C	High	Each Rig has certified Fire	All equipment is tested and

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Hazard	Risk	Target	Severity	Like lihod	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
		fight a fire	and other person nel.				Suppression units installed. Additional Fire Extinguishers are located on the rigs, rod slews, site office and vehicles.	tagged every 6mths
	Bushfire		All site person nel	3	E	Mod	Confinement of flammable sources, restrictions on certain procedures and ready access to suitable fire fighting equipment. Where necessary, constructions of a fire break around well site area and access track. Response to fire included in Emergency Response Plan. All personnel are fully informed on the fire danger season and associated restrictions Fire risk included in induction. Fire equipment maintained at well site and camp.	Fire fighting procedures covered in site induction.
	UV Exposure	Overexposure Sunburn	People - employees and others	2	B	High	Minimise time in open. Apply sunscreen. Wear hat/brim. Wear appropriate PPE.	Current processes acceptable.
	Fluid Loss	Dehydration and Heat Stress	People - employees and others	2	B	High	Regular Water intake. Use of electrolyte replacement drinks to substitute water intake.	Current processes acceptable.
	Fatigue	Poor performance and/or injury to self or others	People - employees and others	2	C	Mod	Adequate procedure to manage fatigue through EHS-13.	Current processes acceptable.
	Exposure to cool weather	Poor performance and/or injury/illness to self or	People - employees and	4	B	Ext	Minimise time in open. Wear appropriate PPE and cool weather gear.	Current processes acceptable.

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Hazard	Risk	Target	Severity	Like lihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
		others	others					
	Disturbance of; Damage to Cultural Areas and Artefacts significant to the traditional landowners.	Cultural Areas and Artefacts Loss	Crews and other person nel.	2	D	Low	Work with Client to identify areas of cultural significance. Educate drill crews to monitor drill pad environs for signs of artifices. Identify and mark area off and report to client.	Ensure drill crew are familiar with local knowledge and Client policies and procedures with respect to the identification and management of areas of cultural significance. This includes knowledge of site disturbance permits.
	Avoid disturbance to sites of Aboriginal and non-indigenous heritage significance.	Cultural Areas and Artefacts Loss	Crews and other person nel.	2	D	Low	A cultural heritage survey (or Work Area Clearance - WAC) has been undertaken of the proposed well site locations and access tracks prior to commencement of site preparation. No impact to sites of Aboriginal or non-indigenous heritage significance.	Documents and/or reports of scouting for cultural/heritage are available for review by both the crews and the supervisors. Known heritage sites have been identified and protected from operations (e.g. temporary flagging). A procedure is in place for the appropriate response to any sites discovered during drilling activities. Any new discoveries are to be reported immediately to the supervisor and passed on to the client.
	Fatigue from time and length of flight	Non-Performance	All Crews	2	C	Mod	Physical: Flight times, posture and seating Procedural: Fatigue Management -Fitness for Work SOP, Behavioural: Healthy lifestyle, Adequate rest/sleep	Operators will be flown to the nearest available airport.
	Fatigue from driving long distances	Non-Performance	All Crews	4	C	High	Physical: Seat belts, posture and seating, passengers, climate control Procedural: Develop Vehicle Ops Manual, Emergency Response Plan, Fatigue Management -Fitness for Work SOP, Competent people, QLD road rules; shortened work shift; passengers; roster	Operators will be flown to the nearest available airport. Minimal drive time expected.

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Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							approvals Behavioural: Regular breaks, rotation, planning	
	Fatigue – extended shift times (travel to and from sites)	Non-Performance	All Crews	4	C	High	Physical: late start/early finishing on site; Take 5's Procedural: Fitness for Work; Travel Plan; Fatigue Mgt Plan; Emergency Response Plan, Cominations Behavioural: Adequate rest/sleep; Stop-Revive-Survive	All crews will be on a maximum 12hrs per shift, 10 hrs drill time allocated on site per shift. All crews will be living close to the drill site and will not have excess travel requirements
	Drilling Contractors working a 14/7 hitch roster	Non-Performance	All Crews	4	C	High	<ul style="list-style-type: none"> • Drilling contractors to abide by the Site Safety Management Plan • Rostered Days Off (RDO) are for rest days and are not to be worked at other sites, etc • 12 hour days • 24 hour rest period between day shift to night shift (RDO) • Fatigue Management Training • Continual awareness at daily Pre-start meetings • Weekly Toolbox Meetings-awareness • Drilling Contract-hours for work • Take 5's, JSA's and Safety Inspections • Contractor Supervisor Requirements – monitor and review performance of all personnel daily • Job rotation/opportune rest breaks: <ul style="list-style-type: none"> o Offsiders rotating tasks o Drillers: § Cleaning out of sump pits § Geophysical Logging § Supervising Certificate II • Drill offsiders conducting drilling operations etc Physical: controlled deliberate movements, team lifts, mechanical aids, regular breaks; PPE (shade, 	<ul style="list-style-type: none"> • Track individual hours worked and breaks taken- Field Manager • Before Commencing work on site ensure crews have had a suitable rest period of 7 days off – Site supervisor to review how the roster is going on a weekly basis & assessing persons work performance The last day is a travel day and an assessment of all personnel on roster is to be conducted before leave site to ensure are able to travel. If unable to travel, accommodation will be provided (Assessments are to be done by Supervisors).
	Fatigue-working environment	Non-Performance	All Crews	4	B	Extreme	Physical: controlled deliberate movements, team lifts, mechanical aids, regular breaks; PPE (shade,	All crews to comply with BLY Fit for Work policy and procedure

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Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							<p>weather protection, dust, noise) Procedural: Fatigue Management -Fitness for Work SOP, Emergency Response Plan, Approved roster-risk assessments, Safety audits & inspections/interactions, Toolbox talks, Awareness, Take 5 Behavioural: Healthy lifestyle, Adequate rest/sleep, self pace, job rotation, adequate hydration; Supervision and Mgt attitudes</p>	
	Fatigue - Excess consumption of Alcohol	Non-Performance	All Crews	3	C	High	<p>Physical: Breathalysers, 'For Cause' testing; Random Testing Procedural: Fatigue Management -Fitness for Work SOP, Induction, Safety audits & inspections/interactions, Toolbox talks, Awareness, Disciplinary procedure; Self-Testing Behavioural: Adequate hydration, sensible consumption, look after your mates, diet</p>	<p>BLY Drug and Alcohol Policy, and the Eastern Zone Non-Negotiables state that every employee will be Breath tested every day every shift.</p>
	Effects of use of drugs	Non-Performance	All Crews	3	C	High	<p>Physical: 'For Cause' testing; Random Testing Procedural: Fatigue Management -Fitness for Work SOP, Pre-employment Medical & Drug Screen, Medical History and Allergies Form, Safety audits & inspections/interactions, Toolbox talk Awareness, Disciplinary procedure Behavioural: Awareness, Minimise Intake-follow directions</p>	<p>WGW Drug and Alcohol Policy clearly state that we have a Zero Tolerance to prohibited substances.</p>
	Pre-existing health condition	Non-Performance	All Crews	4	C	High	<p>Physical: Shade, low sugar refreshments, sufficient</p>	<p>All employees with pre-existing conditions are</p>

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Hazard	Risk	Target	Severity	Like lihod	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
	escalates	e					water, personnel trained in first aid, regular breaks; Adrenaline Pens Procedural: Fatigue Management - Fitness for Work SOP, Emergency Response Plan, Pre-employment Medical, Medical History and Allergies Form Behavioural: communication, duty of care, planning , no physical capabilities, regular breaks, job rotation	monitored and controlled through all levels of the operation.
	Allergic reactions from exposure to flora/fauna	Non-Performance	All Crews	2	B	Mod	Physical: Clothing - long, insect repellent, anti histamine tablets, medical information form Procedural: Inductions, Alerts, Toolbox talks – awareness, Safety audits & inspections, Behavioural: Carry medication if known allergy, awareness	All employees to have filled out WGW Medication form and supervisor to have a copy on hand at all times
	Mosquito-borne disease / insect stings / Snake Bite	Non-Performance	All Crews	2	C	Mod	Physical: PPE-long clothes, appropriate footwear, snake bite kits, repellent, insect nets, lighting tower placement Procedural: Maintaining Hygienic Work Environment, Working In Extremes Procedure, Emergency Response Procedure, Inductions, Safety audits & inspections, hazard reporting, First Aid Training, competent people, Toolbox Talk Awareness Behavioural: prevention of insect bites, employee awareness; Take 5; don't disturb!	All crews to follow the procedures.
	Food and water borne disease	Non-Performance	All Crews	3	C	High	Physical: Containers, bottled water, refrigeration, cooking, Procedural: Maintaining Hygienic Work	All crews to follow the procedures.

Hazard	Risk	Target	Severity	Like lihod	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							Environment, Safety audits & inspections, Behavioural: Food & personal hygiene Physical: Radiation signage, storage & transport design, exclusion zone, Procedural: Laser & Radiation SOP, NSW Radiation Safety Act, Contractor Procedure, SWP/JSA, Inductions, Safety audits & inspections/interactions, Competent people; Take 5 Behavioural: Awareness, authorised personnel only; Rad Gauge	All crews to follow the procedures.
	Exposure to ionising radiation source (when contractor uses a density probe)	Non-Performanc e	All Crews	3	C	High		
	UV Damage to cornea, lens and retina / UV Radiation - cancer	Non-Performanc e	All Crews	3	D	Mod	Physical: Shade structures, AS1337 Safety Glasses, Broad-brim , PPE-long high-vis clothing, sunscreen +30; site placement/prep Procedural: Working in Extremes SOP, Project, Inductions, Toolbox talks awareness, Safety audits & inspections / interactions, Take 5 – monitor conditions Behavioural: Wear Safety glasses AS/NZ1337, Awareness, apply adequate broad spectrum sunscreen, stand in shade whenever practicable, regular breaks in shady areas if possible	All employees on site are to ensure that clothing is of quality standard, long sleeves rolled down and buttoned at all times whilst on the lease.
	Respiratory irritation/diseas e	Non-Performanc e	All Crews	3	C	High	Physical: Dust masks – up to 12m when setting up hole, T-piece, diverter/blow out preventer; Rotary Mud or water injection; air-conditioned cabs; wind direction (wind sock) Procedural: Contractor's procedures- SOP/SWP, approved contractors, Dust Control SOP, Inductions,	All crews to follow the procedures.

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Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							Toolbox talks awareness, Safety audits & inspections/interactions; Monitor Conditions – Take 5; Signage/Traffic Control Behavioural: Take 5/JSA, awareness, facing upwind – monitor change of condition	
	Inhalation of exhaust fumes	Non-Performance	All Crews	3	B	High	Physical: Well ventilated area, exhaust arrestors Procedural: Contractor's procedures- SOP/SWP, Toolbox talk's awareness, Safety audits & inspections/interactions, Site Setup; Hazard Reporting Behavioural: Awareness, position upwind where practical / site prep. Take 5 on change of conditions	All crews to follow the procedures.
	Soft tissue injuries from manual handling – Sprains & strains	Non-Performance	All Crews	3	B	High	Physical: Hydraulic rod lifters, lifting and carrying aids/devices, team lifts as required Procedural: Manual Handling SOP, Fatigue Management - Fitness for Work SOP, Safety audits & inspections/interactions , training & induction, toolbox talks awareness Behavioural: Take 5, stretching, correct lifting techniques, awareness, due care	All employees to follow WGW Manual Handling procedures and training
	RSI and other Impacts from insufficient ergonomics-repetitive tasks	Non-Performance	All Crews	2	C	Mod	Physical: Chairs, Tables, job rotation Procedural: Interactions, Fatigue Management - Fitness for Work SOP, Contractor Procedures, Manual Handling SOP Behavioural: Individual ergonomics – maintain good postures, regular breaks, Toolbox talks	All crews to follow the procedures.

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Hazard	Risk	Target	Severity	Like lihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
	Heat/Cold/Wind stress	Non-Performance	All Crews	3	B	High	Physical: Water, shelter, Trained & competent people - First Aid, A/C in vehicle, food, job rotation, appropriate PPE, long clothing, communications Procedural: Working in Extremes SOP, Emergency Preparedness and Response Plan, Fatigue Management - Fitness for Work SOP, JSA/SWP, Safety audits & inspections/interactions , training & induction, toolbox talks awareness Behavioural: Adequate hydration, work pace, minimise exposure, adaption of working hours, team observation; physical exertion, stretching	All crews to follow the procedures.
	Inhalation / Irritation from contact with chemicals	Non-Performance	All Crews	3	C	High	Physical: Correct PPE used for task, Trained & competent people - First Aid Procedural: Hazardous Substances SOP, MSDS & approved chemicals, labelling, correct storage, Medical History and Allergies Form, Safety audits & inspections/interactions , training & induction, toolbox talks awareness, Risk assessments; maintenance of equipment Behavioural: Wash hands, correct use of products; inspections of equipment	All crews to follow the procedures.
	Environmental Factors – noise, dust, vibration, heat	Non-Performance	All Crews	3	D	Mod	<ul style="list-style-type: none"> • Correct PPE to be worn for tasks being undertaken i.e. dust masks, ear plugs • Daily pre-start meetings • Take 5's, JSA's and Safety 	<ul style="list-style-type: none"> • Utilise Site Hut on drill site for shade • Drilling contractors to place up shade sails in warmer months

Hazard	Risk	Target	Severity	Like lihod	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							Inspections • Regular breaks and keep up fluid intake • Job rotation • Work in shaded areas • Workplace health monitoring	
	Physically demanding job for all contractors	Non-Performance	All Crews	3	D	Mod	<ul style="list-style-type: none"> • BLY Safety Management Plan • Fitness for Work SOP/Fatigue Management • Manual Handling Training/Inductions • Job Rotation • Induction Toolbox Talks & Prestart - awareness • Take 5's, JSA's and Safety Inspections • Workplace health monitoring 	When the opportunity arises breaks are to be taken for the following activities: Cementing Cleaning out sump pits Setting casing Geophysical Logging Rod change
	Repetitious Work Emotional Stress	Non-Performance	All Crews	3	D	Mod	<ul style="list-style-type: none"> • Fitness for Work SOP/Fatigue Management • Take 5's, JSA's, Safety Inspections • Regulated Rostered time off-as agreed between different contracts • Pre-start Meetings/Toolbox talks, Employee assistance program 	Rotate tasks for drilling personnel
	General Attendance for Work – All shifts	Non-Performance	All Crews	4	C	High	<ul style="list-style-type: none"> • All Rostered Day's Off (RDO) break periods are not to be worked in other employment not other work-related activities • Declare Fitness for Work at start of shifts • Ensure adequate rest/sleep during off-shift periods • Follow BCM Fatigue Management and Fitness for Work SOP's 	<ul style="list-style-type: none"> • When suitable, with proper authorisation from appropriate Supervisor, shorter shifts can be worked to minimise fatigue. • Any and all extended work hours (i.e. past 12 hours) must be approved by WCL consultation with WGW based on Risk Assessment • If found culpable, will be removed from site in consultation with Contractor company until assessment determines a satisfactory Fitness for Work.
	Manual Handling	Soft Tissue Injury, Cuts, abrasions, lacerations, sprains and	Crew	3	B	High	Physical: Lifting aids, minimize exposure by limiting single loads limit to 15 kg-55kg, extra people-team lifts, PPE-gloves,	All crews to have completed Manual handling training, ongoing audits and monitoring

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Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
		broken limbs due to falling under weight – maintenance & use of hand tool					<p>competent people, correct tools, isolation, load stability, wheel chocks changing tyres, guards, correct use of tooling</p> <p>Procedural: Manual Handling SOP, Fatigue Management - Fitness for Work SOP, General Vehicle Rules Guide, VEMP Maintenance Procedure, Fitting & Changing Tyres SOP, Training, Contractor Procedures-SWP/SOP's, Safety audits & inspections/interactions, Toolbox talk awareness, Inductions</p> <p>Behavioural: Employee awareness, Take 5, Controlled movements, eyes on path, eyes on hands, correct lifting techniques, stretching</p>	
	Mechanical	Injury from rotating rods / rotating equipment	Crew	4	C	High	<p>Physical: Guarding, emergency stop buttons, appropriate PPE, Danger zones demarcated</p> <p>Procedural: Machine Guarding Procedure, Isolation & Tagging Procedures, Contractor's procedures- SOP/SWP, approved contractors, Safety audits & inspections/interactions, training, Competent people, Rig inductions, BCM equipment inspections prior to use on site Behavioural: Isolation, follow procedures, eyes on path eyes on hands, maintain housekeeping, Awareness, Personnel are not to place</p>	All crews to follow procedures

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Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
	Energy Sources	Injuries resulting from energy sources during maintenance / repairs	Crew	4	C	High	body parts in-line of fire Physical: Isolation locks, danger tags, PPE – task requirements; stability of site/workplace; Test for Dead Procedural: Manual Handling SOP, Isolation & Tagging Procedures, contractor's procedures-SOP/SWP, approved contractors, induction, training, Safety audits & inspections/interactions, Rig inductions Behavioural: Isolation, follow procedures, eyes on path eyes on hands, maintain housekeeping, Awareness, correct manual handling techniques, Take 5	All crews to follow procedures
	Working at Heights	Fall from heights (Personnel at heights)	Crew	4	C	High	Physical: Tool restraints, barricades, guarding, Platforms & access ways designed to AS1657, spotters, communication, Approved harness/lanyard & attachment points, correct PPE for task Procedural: Working at Heights Procedure, Isolation & Tagging Procedures induction, contractor's procedures - SOP/SWP, approved contractors, Safety audits & inspections/interactions, Toolbox talks, trained & competent people, Permits, equipment inspections & registers Behavioural: JSA, follow procedures, eyes on path eyes on hands, controlled movements, housekeeping	All crews to follow procedures
	General	Injury from	Crew	4	C	High	Physical: barricades,	All crews to follow

Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
		falling equipment/material (at Ground Level)					guarding, spotters; pre-start/work inspections, check-in check-out equipment lists Procedural: Working at Heights Procedure, Induction, Permits, Safety audits & inspections/interactions, contractor's procedures-SOP/SWP, approved contractors, competency Behavioural: follow procedures, check-in check-out equipment lists, Take 5	procedures
	General	Site Prep, Drill rig setup and movement resulting in injury (Interaction with Heavy Vehicles)	Crew	4	C	High	Physical: Site layout-construction, chocking, barricading, bunding, track construction, No personnel to be on drill deck while mast being stood up or lowered, Rig set up on stable platform; minimum safe work distance from plant; designated parking/no-go zones Procedural: Site Preparation Procedure, Manual Handling SOP Barricading SOP, contractor procedure, Safety audits & inspections/interactions, Rig inductions, Pre-start Behavioural: Take 5, follow procedures, eyes on path eyes on hands, maintain housekeeping, Awareness, correct manual handling techniques, maintain housekeeping, Personnel are not to place body parts in-line of fire (pinch points); spotters, communications	All crews to follow procedures
	General	Gas Intersection	Crew	5	B	Extreme	Physical: Gas monitoring, muster points, wind socks, Communications, no-go	All crews to follow procedures

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Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							zones Procedural: Gas Intersection Procedure; Emergency Response Plan Contractors Procedures, Inductions, Safety audits & inspections/interactions, Rig Inductions, Hazard reporting procedures, Toolbox talk awareness, Safety Alerts Behavioural: Smoking in designated smoking areas on site, crew observations Physical: Area maps, Site layout-construction, barricading, bunding, electric fence testers, no-go zones Procedural: Gas Intersection Procedure; Emergency Response Plan Contractors Procedures, Inductions, Safety audits & inspections/interactions, Rig Inductions, Hazard/Incident reporting procedures, Toolbox talk awareness, Rig Inductions, Behavioural: Treat everything as live, crew observations	All crews to follow procedures
	General	Electric Shock from Electric Fences (Low Voltage)	Crew	4	C	High	Physical: Whip checks, emergency stop buttons, appropriate PPE, no-go zones Procedural: Contractor's procedures-SOP/SWP, approved contractors, isolation, training, Inductions, Pre-starts, Safety audits & inspections/interactions, signage, competent persons; compliance certifications; maintenance (regular and PM) Behavioural: eyes on path eyes on hands; awareness	All crews to follow procedures
	General	Injury from high pressure air/hydraulics (e.g. hose failure)	Crew	4	C	High	Physical: Whip checks, emergency stop buttons, appropriate PPE, no-go zones Procedural: Contractor's procedures-SOP/SWP, approved contractors, isolation, training, Inductions, Pre-starts, Safety audits & inspections/interactions, signage, competent persons; compliance certifications; maintenance (regular and PM) Behavioural: eyes on path eyes on hands; awareness	All crews to follow procedures
	General	Slips, Trips	Crew	3	B	High	Physical: Barricading,	All crews to follow

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Hazard	Risk	Target	Severity	Like lihod	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
		and Falls / Accessing & Egressing Equipment (Sprains and Strains)					designated walk paths, housekeeping; grating/guarding; appropriate footwear, Correct PPE for task, walk on designated walkways, guarding Procedural: Site Preparation Procedure, Daily site inspections, Safety audits & inspections/interactions, Inductions, Rig inductions; hazard reporting, Plant & Equipment design within standards, Inductions, Toolbox Talk Awareness Behavioural: Awareness ; eyes on path; control movements; Take 5; three points of contact, maintain housekeeping	procedures
	General	Injury from explosion, fire or hazardous substances	Crew	4	D	High	Physical: Correct PPE for task, rig design, Fire suppression system on rig, rig & equipment design Procedural: Emergency Response Plan, Site Preparation Procedure, Hazardous Substances SOP, MSDS, Induction, Training, Approved chemicals, pre-start checks Behavioural: JSA, awareness	All crews to follow procedures
	General	Flying Objects/Projectiles (eg. Posit rack brush cutter deck, pumping core barrel)	Crew	4	B	Extreme	Physical: PPE, no-go zones, restricted access, guarding, isolation of personnel, placement of equipment/work area Procedural: Risk Assessment, Contractor Procedures, Safety Interactions, Toolbox talks, SWP's and competent persons, Hazard Reporting	All crews to follow procedures

Hazard	Risk	Target	Severity	Like lihod	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							Behavioural: Take 5, Communication, noise of equipment, operator awareness, line of fire, correct positioning of personnel & equipment Physical: Adequate lighting, clear work space; communications Procedural: Fatigue Management - Fitness for Work SOP, Working In Extremes Procedure, Emergency Response Plan, Contractor procedures - SOP/SWP, induction, Rig Induction, Safety audits & inspections/interactions, Trained & competent people, equipment inspections / pre-starts Behavioural: Awareness, Healthy lifestyle, Adequate rest/sleep, Job rotation, regular breaks, vigilance, crew observations; limit unnecessary travel	All crews to follow procedures
	General	Incidents while Working at Night	Crew	3	B	High		
	Unexploded military ordinance	Serious injury, death property destruction	People - employees and equipment	5	A	Extreme	Physical: Move exploration location if High numbers of UXO's are likely to be uncounted, Procedural: Barricade area and refer UXO to the department of defence.	Ensure drill crew are familiar with UXO procedure and are aware of required action if UXO is uncounted
	Community Outrage	Disruption to farming activities / pastoral activities - gates, mustering, harvesting, bores	People - employees and Community	5	A	Extreme	Physical: Communication – notice of entry, Site rehabilitation; landowner consultation; no-go areas; gate markers; signage; lock controls; grid vs. gate (if warranted) Procedural: contractor management, Pastoral Station Conduct Guide, Inductions, Inspections; toolbox talks;	Ensure drill crew are familiar with local knowledge and Client policies and procedures with respect to the community

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Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention Reduce probability	Mitigation Reduce consequences	Res. Risk
							monitor and review access Behavioural: Leave everything as found, Awareness, effective community liaison	
		Loss of Stock or Pets	People - employees and Community	3	C	High	Physical: Move exploration location if impact is likely or expected, communications; effective barriers, driving to conditions, suspend activities, move stock, bunding, barriers, sump design, rehabilitation of sumps Procedural: Environment Management Plan, Pre-start meetings, Pastoral Station Conduct Guide; Site Prep (sumps); inductions; safety audits Behavioural: Driving to conditions, awareness, maintenance of site fencing, don't harass stock	Ensure drill crew are familiar with local knowledge and Client policies and procedures with respect to the community
		General Physical Impact to Property	People - employees and Community	3	B	High	Physical: Behave in appropriate manner, be seen to doing the right thing, community interaction Procedural: Inductions covering local culture, contractor management, Pastoral Station Conduct Guide; Company Policies, Monitoring Behavioural: Effective community liaison, Good Behaviour, Clear and consistent communication, effective community liaison	Ensure drill crew are familiar with local knowledge and Client policies and procedures with respect to the community
		Accessing land without consent	People - employees and "Meridian" Comm	3	B	High	Physical: Contacting land holders, don't access property without consent, Notice of Entry Procedural: Pastoral Station Conduct Guide; NOE's; Inductions; Site Management Behavioural: Awareness,	Ensure drill crew are familiar with local knowledge and Client policies and procedures with respect to the community

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Hazard	Risk	Target	Severity	Likelihood	Risk	Prevention	Reduce probability	Mitigation	Reduce consequences	Res. Risk
			unity							
		Non-conformance with cultural norms (Community Perception)	People - employees and Community	2	B		Mod	effective community liaison, no short-cuts, toolbox meetings Physical: Behave in appropriate manner, be seen to doing the right thing, community interaction Procedural: Inductions covering local culture, contractor management, Pastoral Station Conduct Guide; Company Policies, Monitoring Behavioural: Effective community liaison, Good Behaviour, Clear and consistent communication, effective community liaison		Ensure drill crew are familiar with local knowledge and Client policies and procedures with respect to the community

RTI DL RELEASE - DNRM

Haling Narelle

From: Russell Churchett <russell.churchett@westsidecorporation.com>
Sent: Tuesday, 15 November 2011 2:11 PM
To: Wright John
Cc: Rasmussen Graham
Subject: TXD Rig Investigation - Update

John / Graham,

Just touching base regarding the rig investigation status.

We are currently still waiting for the final report to be issued by the insurer / investigator.

As I think we may have discussed (but communicating this point again just in case) the preliminary (verbal) report from insurer is that there is no observed physical fault or incorrect hydraulics components assembly; there is evidence of hydraulic oil oxidisation, which can reportedly be caused by high speed aeration of the oil which would occur in such an instance if there was air in the hydraulic circuit. As stated previously, the report is not issued at this time (although it is being chased by Westside to be finalised), and shall be in touch as soon as it is issued to Westside.

Regards

Russell Churchett
HSE Manager



Direct: 07 3020 0905

Section 78B(2) RTI Act

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Haling Narelle

From: Russell Churchett <russell.churchett@westsidecorporation.com>
Sent: Saturday, 7 January 2012 12:22 AM
To: Wright John
Cc: Rasmussen Graham
Subject: TXD Rig re-commission

John / Graham,

Happy new year, hope you are both well.

TXD rig repairs are progressing and re-commissioning is being planned. Moduspec are being lined up to perform the rig and carrier inspection.

I am looking to ascertain exactly what documentation / certification you require to be provided to your office to permit the rig to return to operations.

Regards

Russell Churchett

WestSide HSE Manager

Section 78B(2) RTI Act
0730200905

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Task Number	Name	Description	Start	End	Task Duration (hrs)	Operation Duration (hrs)	Phase Duration (Days)	Project Duration (Days)	Hours	GANNT CHART (DAYS)																																
		TXD MAINTENANCE SHUTDOWN	25/08/2011 0:00	11/09/2011 23:00	1041	1027.5	42.8125	17.95833333	431																																	
		Movement Tele Mast	25/08/2011 4:30	9/09/2011 5:30	0		17.72917																																			
1		Remove Main Hoist Cylinders	25/08/2011 4:30	25/08/2011 8:30	4	361																																				
2		Send to service agent	25/08/2011 8:30	25/08/2011 16:30	8																																					
3		Strip cylinders	25/08/2011 16:30	26/08/2011 12:30	20																																					
4		NDT	26/08/2011 12:30	26/08/2011 13:30	1																																					
5		Magnetic Particle Inspectoin	26/08/2011 13:30	26/08/2011 14:30	1																																					
6		Eddy Current inspection	26/08/2011 14:30	26/08/2011 15:30	1																																					
7		NDE	26/08/2011 15:30	26/08/2011 16:30	1																																					
8		Replace Cylinder Pins	26/08/2011 16:30	9/09/2011 4:30	324																																					
9		Reinstall Cylinder Pins	9/09/2011 4:30	9/09/2011 5:30	1																																					
10		Remove Mast Crown	25/08/2011 9:00	25/08/2011 9:00	0	23																																				
11		Strip Mast Crown	25/08/2011 9:00	25/08/2011 17:00	8																																					
12		Gauge Support and Rotation sheave pins	25/08/2011 17:00	25/08/2011 21:00	4																																					
13		NDT	25/08/2011 21:00	25/08/2011 22:00	1																																					
14		Magnetic Particle Inspection	25/08/2011 22:00	25/08/2011 23:00	1																																					
15		Eddy Current inspection	25/08/2011 23:00	26/08/2011 0:00	1																																					
16		NDE	26/08/2011 0:00	26/08/2011 1:00	1																																					
17		Bearing shafts cleaned	26/08/2011 1:00	26/08/2011 2:00	1																																					
18		Thrust washers cleaned	26/08/2011 2:00	26/08/2011 3:00	1																																					
19		Bearing shafts Inspected	26/08/2011 3:00	26/08/2011 4:00	1																																					
20		Thrust washers Inspected	26/08/2011 4:00	26/08/2011 5:00	1																																					
21		Bearing shafts Replaced	26/08/2011 5:00	26/08/2011 6:00	1																																					
22		Thrust washers Replaced	26/08/2011 6:00	26/08/2011 7:00	1																																					
23		Tie wire bolt to fix Crown-Mast	26/08/2011 7:00	26/08/2011 8:00	1																																					
24		Remove Lower Sheave	25/08/2011 1:00	25/08/2011 3:00	2	14																																				
25		Strip Lower Sheave	25/08/2011 1:00	25/08/2011 2:00	1																																					
26		Gauge Lower Sheave	25/08/2011 2:00	25/08/2011 3:00	1																																					
27		NDT	25/08/2011 3:00	25/08/2011 4:00	1																																					
28		Magnetic Particle Inspectoin	25/08/2011 4:00	25/08/2011 5:00	1																																					
29		Eddy Current inspection	25/08/2011 5:00	25/08/2011 6:00	1																																					
30		NDE	25/08/2011 6:00	25/08/2011 7:00	1																																					
31		Sheave cleaned	25/08/2011 7:00	25/08/2011 8:00	1																																					
32		Sheave Inspected	25/08/2011 8:00	25/08/2011 9:00	1																																					
33		Sheave Replaced	25/08/2011 9:00	25/08/2011 10:00	1																																					
34		Bearing cleaned	25/08/2011 10:00	25/08/2011 11:00	1																																					
35		Bearing Inspected	25/08/2011 11:00	25/08/2011 12:00	1																																					
36		Bearing Replaced	25/08/2011 12:00	25/08/2011 13:00	1																																					
37		Remove Roller Guides	25/08/2011 13:00	25/08/2011 14:00	1	19.5																																				
38		Strip Roller Guides	25/08/2011 13:00	25/08/2011 16:30	3.5																																					
39		Gauge Lower Sheave	25/08/2011 16:30	25/08/2011 17:30	1																																					
40		NDT	25/08/2011 17:30	25/08/2011 18:30	1																																					
41		Magnetic Particle Inspectoin	25/08/2011 18:30	25/08/2011 19:30	1																																					
42		Eddy Current inspection	25/08/2011 19:30	25/08/2011 20:30	1																																					
43		NDE	25/08/2011 20:30	25/08/2011 21:30	1																																					
44		Roller Guide Cleaned	25/08/2011 21:30	25/08/2011 22:30	1																																					
45		Roller Guides Inspected	25/08/2011 22:30	25/08/2011 23:30	1																																					
46		Roller Guides Replaced	25/08/2011 23:30	26/08/2011 0:30	1																																					
47		Bearing Cleaned	26/08/2011 0:30	26/08/2011 1:30	1																																					
48		Bearing Inspected	26/08/2011 1:30	26/08/2011 2:30	1																																					
49		Bearing Replaced	26/08/2011 2:30	26/08/2011 3:30	1																																					
50		NDT Eccentric Flanges	26/08/2011 3:30	26/08/2011 4:30	1																																					
51		Magnetic Particle Inspection Eccentric Flanges	26/08/2011 4:30	26/08/2011 5:30	1																																					
52		Eddy Current inspection Eccentric Flanges	26/08/2011 5:30	26/08/2011 6:30	1																																					
53		NDE Eccentric Flanges	26/08/2011 6:30	26/08/2011 7:30	1																																					
54		Inspect Movement Mast Sectional Body	26/08/2011 7:30	26/08/2011 11:30	4	8																																				
55		NDT fixed pins and criticals	26/08/2011 7:30	26/08/2011 8:30	1																																					
56		Magnetic Particle Inspection criticals	26/08/2011 8:30	26/08/2011 9:30	1																																					
57		Eddy Current inspection criticals	26/08/2011 9:30	26/08/2011 10:30	1																																					
58		NDE fixed pin and criticals	10/09/2011 0:00	10/09/2011 1:00	1																																					
		FIXED MAST			0		6.145833																																			

59	Remove Mast Raise Cylinders	10/09/2011 1:00	10/09/2011 5:00	4	35
60	Send to service agent	10/09/2011 1:00	10/09/2011 9:00	8	
61	Strip	10/09/2011 9:00	10/09/2011 13:00	4	
62	Assess Mast Raise Cylinders	10/09/2011 13:00	10/09/2011 14:00	1	
63	NDT Upper & Lower Pins	10/09/2011 14:00	10/09/2011 15:00	1	
64	Magnetic Particle Inspectoipn	10/09/2011 15:00	10/09/2011 16:00	1	
65	Eddy Current inspection	10/09/2011 16:00	10/09/2011 17:00	1	
66	NDE	10/09/2011 17:00	10/09/2011 18:00	1	
67	Reassemble Mast Raise Cylinders	10/09/2011 18:00	11/09/2011 0:00	6	
68	Return to TXD	11/09/2011 0:00	11/09/2011 8:00	8	
69	Mast Outrigger cylinder hydraulic bypass test	11/09/2011 8:00	11/09/2011 12:00	4	19
70	Remove Tube Mechanical Jack	11/09/2011 8:00	11/09/2011 9:00	1	
71	Strip	11/09/2011 9:00	11/09/2011 10:00	1	
72	Clean Tube Mechanical Jack	11/09/2011 10:00	11/09/2011 11:00	1	
73	NDT	11/09/2011 11:00	11/09/2011 12:00	1	
74	Magnetic Particle Inspectoipn	11/09/2011 12:00	11/09/2011 13:00	1	
75	Eddy Current inspection	11/09/2011 13:00	11/09/2011 14:00	1	
76	NDE	11/09/2011 14:00	11/09/2011 15:00	1	
77	Hydraulic Velocity Fuse cleaned	11/09/2011 15:00	11/09/2011 16:00	1	
78	Hydraulic Velocity Fuse Inspected	11/09/2011 16:00	11/09/2011 17:00	1	
79	Hydraulic Velocity Fuse Replaced	11/09/2011 17:00	11/09/2011 18:00	1	
80	Dual Counterbalance Valves Cleaned	11/09/2011 18:00	11/09/2011 19:00	1	
81	Dual Counterbalance Valves Inspected	11/09/2011 19:00	11/09/2011 20:00	1	
82	Dual Counterbalance Valves Replaced	11/09/2011 20:00	11/09/2011 21:00	1	
83	Replace Dual Counterbalance Valves	11/09/2011 21:00	11/09/2011 22:00	1	
84	Visually Inspect Dual Counterbalance Valves	11/09/2011 22:00	11/09/2011 23:00	1	
85	Mast Dump Cylinder Hydraulic Bypass Test	25/08/2011 22:00	25/08/2011 23:00	1	17
86	NDT	25/08/2011 22:00	25/08/2011 23:00	1	
87	Magnetic Particle Inspection	25/08/2011 23:00	26/08/2011 0:00	1	
88	Eddy Current Inspection	26/08/2011 0:00	26/08/2011 1:00	1	
89	NDE	26/08/2011 1:00	26/08/2011 2:00	1	
90	Replace Pins	26/08/2011 2:00	26/08/2011 3:00	1	
91	Reinstall Cylinder Pins	11/09/2011 2:00	11/09/2011 3:00	1	
92	Hydraulic Velocity Fuse Cleaned	11/09/2011 3:00	11/09/2011 4:00	1	
93	Hydraulic Velocity Fuse Inspected	11/09/2011 4:00	11/09/2011 5:00	1	
94	Hydraulic Velocity Fuse Replaced	11/09/2011 5:00	11/09/2011 6:00	1	
95	Mast Dump Slides cleaned	11/09/2011 6:00	11/09/2011 7:00	1	
96	Mast Dump Slides Inspected	11/09/2011 7:00	11/09/2011 8:00	1	
97	Mast Dump Slides Replaced	11/09/2011 8:00	11/09/2011 9:00	1	
98	NDT : pivot points; wedges; critical LBA	11/09/2011 9:00	11/09/2011 10:00	1	
99	Magnetic Particle Inspection	11/09/2011 10:00	11/09/2011 11:00	1	
100	Eddy Current inspection	11/09/2011 11:00	11/09/2011 12:00	1	
101	NDE	11/09/2011 12:00	11/09/2011 13:00	1	
102	Mast Tension Cylinder Hydraulic Bypass Test	11/09/2011 13:00	11/09/2011 14:00	1	6
103	NDT : pins; anchor point; LBA	11/09/2011 13:00	11/09/2011 14:00	1	
104	Magnetic Particle Inspection	11/09/2011 14:00	11/09/2011 15:00	1	
105	Eddy Current inspection	11/09/2011 15:00	11/09/2011 16:00	1	
106	NDE	11/09/2011 16:00	11/09/2011 17:00	1	
107	Calibrate to rig system hydraulic circuits	11/09/2011 17:00	11/09/2011 18:00	1	
108	Jib Boom Cylinder Hydraulic Bypass Test	25/08/2011 23:00	26/08/2011 0:00	1	10
109	NDT : pivot points; wedges; critical LBA	25/08/2011 23:00	26/08/2011 0:00	1	
110	Magnetic Particle Inspection	26/08/2011 0:00	26/08/2011 1:00	1	
111	Eddy Current inspection	26/08/2011 1:00	26/08/2011 2:00	1	
112	NDE	26/08/2011 2:00	26/08/2011 3:00	1	
113	Stop block adjustments check	26/08/2011 3:00	26/08/2011 4:00	1	
114	Stop block adjustments calibration	26/08/2011 4:00	26/08/2011 5:00	1	
115	Limiting system adjustment checks	26/08/2011 5:00	26/08/2011 6:00	1	
116	Limiting system adjustment calibration	26/08/2011 6:00	26/08/2011 7:00	1	
117	Replace winch cable	26/08/2011 7:00	26/08/2011 8:00	1	
118	Mast Standpipe Thickness Inspection	26/08/2011 8:00	26/08/2011 12:00	4	14
119	NDT	26/08/2011 8:00	26/08/2011 9:00	1	
120	Magnetic Particle Inspectoipn	26/08/2011 9:00	26/08/2011 10:00	1	
121	Eddy Current Inspection	26/08/2011 10:00	26/08/2011 11:00	1	
122	NDE	26/08/2011 11:00	26/08/2011 12:00	1	
123	Fixed hydraulic pipe work clamps removed	26/08/2011 12:00	26/08/2011 13:00	1	

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124	Fixed hydraulic pipe work clamps Inspected	26/08/2011 13:00	26/08/2011 14:00	1	
125	Bearing shafts Inspected	26/08/2011 14:00	26/08/2011 15:00	1	
126	Report prepared on same	26/08/2011 15:00	26/08/2011 16:00	1	
127	Mast travelling hoses tidied	26/08/2011 16:00	26/08/2011 17:00	1	
128	Remove superfluous small hydraulic hoses	26/08/2011 17:00	26/08/2011 18:00	1	
129	Clean Mast Table	9/09/2011 0:00	9/09/2011 0:00	0	19
130	NDT Load Bearing Areas	9/09/2011 0:00	9/09/2011 1:00	1	
131	Magnetic Particle Inspection	9/09/2011 1:00	9/09/2011 2:00	1	
132	Eddy Current Inspection	9/09/2011 2:00	9/09/2011 3:00	1	
133	NDE	9/09/2011 3:00	9/09/2011 4:00	1	
134	Check slip bowl gauge	9/09/2011 4:00	9/09/2011 5:00	1	
135	Check cavin clamp gauge	9/09/2011 5:00	9/09/2011 6:00	1	
136	Check Air cylinder operation	9/09/2011 6:00	9/09/2011 12:00	6	
137	Check Linkage system Operation	9/09/2011 12:00	9/09/2011 13:00	1	
138	Check Mast Table Opening	9/09/2011 13:00	9/09/2011 14:00	1	
139	Cylinder Hydraulic bypass test	9/09/2011 14:00	9/09/2011 15:00	1	
140	NDT Load Bearing Areas	9/09/2011 15:00	9/09/2011 16:00	1	
141	Magnetic Particle Inspectoipn	9/09/2011 16:00	9/09/2011 17:00	1	
142	Eddy Current inspection	9/09/2011 17:00	9/09/2011 18:00	1	
143	NDE	9/09/2011 18:00	9/09/2011 19:00	1	
144	Test Rig Floor Hydraulic Cyclinders	9/09/2011 19:00	9/09/2011 20:00	1	11.5
145	Confirm Max Pressure Available Hydraulic Cyclinders	9/09/2011 19:00	9/09/2011 22:30	3.5	
146	NDT Load Bearing Areas	9/09/2011 22:30	9/09/2011 23:30	1	
147	Magnetic Particle Inspection	9/09/2011 23:30	10/09/2011 0:30	1	
148	Eddy Current inspection	10/09/2011 0:30	10/09/2011 1:30	1	
149	NDE	10/09/2011 1:30	10/09/2011 2:30	1	
150	Visually Inspect Safety hand Rails	10/09/2011 2:30	10/09/2011 3:30	1	
151	Visually Inspect Safety Stairs	10/09/2011 3:30	10/09/2011 4:30	1	
152	Review Safe Work Area Rig Crew	10/09/2011 4:30	10/09/2011 5:30	1	
153	Survey Winch Operation Check	10/09/2011 5:30	10/09/2011 5:30	0	5
154	NDT Load Bearing Areas	10/09/2011 5:30	10/09/2011 6:30	1	
155	Magnetic Particle Inspection	10/09/2011 6:30	10/09/2011 7:30	1	
156	Eddy Current inspection	10/09/2011 7:30	10/09/2011 8:30	1	
157	NDE	10/09/2011 8:30	10/09/2011 9:30	1	
158	Calibrate Hydraulic System	10/09/2011 9:30	10/09/2011 10:30	1	
159	Drilling Console Check	10/09/2011 10:30	10/09/2011 10:30	0	11
160	Calibrate Hydraulic Pressure Gauges	10/09/2011 10:30	10/09/2011 11:30	1	
161	Replace Hold Back Gauge	10/09/2011 11:30	10/09/2011 12:30	1	
162	Replace Pull Down Gauge	10/09/2011 12:30	10/09/2011 13:30	1	
163	Replace Make Up Gauge	10/09/2011 13:30	10/09/2011 14:30	1	
164	General Inspection Husco 2 and 3 way DC valves	10/09/2011 14:30	10/09/2011 15:30	1	
165	Service Husco 2 and 3 way DC valves	10/09/2011 15:30	10/09/2011 16:30	1	
166	Remove Martin Decker gauge	10/09/2011 16:30	10/09/2011 17:30	1	
167	Send Martin Decker Gauge to test	10/09/2011 17:30	10/09/2011 18:30	1	
168	Recalibrate Martin Decker Gauge	10/09/2011 18:30	10/09/2011 19:30	1	
169	Return MDG to site	10/09/2011 19:30	10/09/2011 20:30	1	
170	Reinstall MDG	10/09/2011 20:30	10/09/2011 21:30	1	
	POWER SWIVEL TOP DRIVE			0	4.5
171	Remove anchor cable pins	26/08/2011 9:00	26/08/2011 9:00	0	57.5
172	Remove top drive	26/08/2011 9:00	26/08/2011 22:30	14.5	
173	Send to service agent	26/08/2011 23:30	27/08/2011 7:30	8	
174	Strip, assess, replace shaft bearings, seals, for king swivel	27/08/2011 7:30	28/08/2011 13:30	30	
175	NDT Load Bearing Areas: tilt and lock system	28/08/2011 13:30	28/08/2011 14:30	1	
176	Magnetic Particle Inspection	28/08/2011 14:30	28/08/2011 15:30	1	
177	Eddy Current Inspection	28/08/2011 15:30	28/08/2011 16:30	1	
178	NDE	28/08/2011 16:30	28/08/2011 17:30	1	
179	Tilt Cylinder Hydraulic Bypass Tests	28/08/2011 17:30	28/08/2011 18:30	1	
180	Visually Inspect 3000lb Swivel	28/08/2011 18:30	28/08/2011 18:30	0	20
181	NDT Load Bearing Areas	28/08/2011 18:30	28/08/2011 19:30	1	
182	Magnetic Particle Inspection	28/08/2011 19:30	28/08/2011 20:30	1	
183	Eddy Current inspection	28/08/2011 20:30	28/08/2011 21:30	1	
184	NDE	28/08/2011 21:30	28/08/2011 22:30	1	
185	Replace 3000lb Swivel with King swivel upgrade kit	28/08/2011 22:30	29/08/2011 13:30	15	
186	3" hardline thickness Inspection mud swivel to bullnose	29/08/2011 13:30	29/08/2011 14:30	1	
187	Inspect all hydraulic hoses	29/08/2011 14:30	29/08/2011 14:30	0	19.5

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188	Replace as required	29/08/2011 14:30	30/08/2011 0:30	10	
189	NDT Load Bearing Areas Top Drive Hydraulic Motors	30/08/2011 0:30	30/08/2011 4:00	3.5	
190	Magnetic Particle Inspection	30/08/2011 4:00	30/08/2011 5:00	1	
191	Eddy Current Inspection	30/08/2011 5:00	30/08/2011 6:00	1	
192	NDE	30/08/2011 6:00	30/08/2011 7:00	1	
193	Take Oil Sample	30/08/2011 7:00	30/08/2011 8:00	1	
194	Send oil Sample for Analysis	30/08/2011 8:00	30/08/2011 9:00	1	
195	Quill spindle dial indicator Inspection	30/08/2011 9:00	30/08/2011 10:00	1	
196	Float Sub Inspection	30/08/2011 10:00	30/08/2011 10:00	0	8
197	NDT Load 4-1/2" IF P/B threads	30/08/2011 10:00	30/08/2011 11:00	1	
198	Magnetic Particle Inspection	30/08/2011 11:00	30/08/2011 12:00	1	
199	Eddy Current inspection	30/08/2011 12:00	30/08/2011 13:00	1	
200	NDE	30/08/2011 13:00	30/08/2011 14:00	1	
201	Install new sealkit	30/08/2011 14:00	30/08/2011 17:00	3	
202	Install new washpipe in float sub	30/08/2011 17:00	30/08/2011 18:00	1	
203	Power swivel cradle guide roller bearings	30/08/2011 18:00	30/08/2011 18:00	0	3
204	Bearing Cleaned	30/08/2011 18:00	30/08/2011 19:00	1	
205	Bearing Inspected	30/08/2011 19:00	30/08/2011 20:00	1	
206	Bearing Replaced	30/08/2011 20:00	30/08/2011 21:00	1	
	Power Tongs - Serial N: J135-0122			0	2.625
207	Replace Rotating Clamp	25/08/2011 14:00	25/08/2011 22:00	8	63
208	Replace Mounting Bolts	30/08/2011 3:00	30/08/2011 6:00	3	
209	Strip four hydraulic cylinder clamps	30/08/2011 6:00	30/08/2011 9:00	3	
210	Reseal four hydraulic cylinder clamps	30/08/2011 9:00	30/08/2011 12:00	3	
211	Replace all hydraulic hoses	30/08/2011 12:00	30/08/2011 16:00	4	
212	Install hose sleeves and clamp	30/08/2011 16:00	31/08/2011 4:00	12	
213	Replace all hydraulic QC couplings	31/08/2011 4:00	31/08/2011 4:00	0	
214	Increase from 3/8" to 1/2" Style	31/08/2011 4:00	31/08/2011 4:00	0	
215	NDT Load Bearing Areas: power tong swing arms	31/08/2011 4:00	31/08/2011 4:00	0	
216	Magnetic Particle Inspection	31/08/2011 4:00	31/08/2011 4:00	0	
217	Eddy Current inspection	31/08/2011 4:00	31/08/2011 4:00	0	
218	NDE	31/08/2011 4:00	31/08/2011 4:00	0	
219	Replace support ring for power tong swing arm	3/09/2011 0:00	4/09/2011 0:00	24	
220	Roller Bearing Cleaned	4/09/2011 0:00	4/09/2011 6:00	6	
221	Roller Bearing Inspected	4/09/2011 6:00	4/09/2011 6:00	0	
222	Roller Bearing Replaced	4/09/2011 6:00	4/09/2011 6:00	0	
223	Test hydraulic system to calibration circuits	4/09/2011 6:00	4/09/2011 6:00	0	
	RIG CARRIER			0	8.583333
224	Visually Inspect Mast A-frame pivot system	4/09/2011 6:00	4/09/2011 6:00	0	4
225	NDT Load Bearing Areas	4/09/2011 6:00	4/09/2011 7:00	1	
226	Magnetic Particle Inspection	4/09/2011 7:00	4/09/2011 8:00	1	
227	Eddy Current Inspection	4/09/2011 8:00	4/09/2011 9:00	1	
228	NDE	4/09/2011 9:00	4/09/2011 10:00	1	
229	Hydraulic Bypass Test Stabiliser Jack Legs	4/09/2011 10:00	4/09/2011 10:00	0	6
230	Hydraulic Velocity Fuse cleaned	4/09/2011 10:00	4/09/2011 11:00	1	
231	Hydraulic Velocity Fuse Inspected	4/09/2011 11:00	4/09/2011 12:00	1	
232	Hydraulic Velocity Fuse Replaced	4/09/2011 12:00	4/09/2011 13:00	1	
233	Dual Counterbalance Valves Cleaned	4/09/2011 13:00	4/09/2011 14:00	1	
234	Dual Counterbalance Valves Inspected	4/09/2011 14:00	4/09/2011 15:00	1	
235	Dual Counterbalance Valves Replaced	4/09/2011 15:00	4/09/2011 16:00	1	
236	Guy Rope Cables Tested	29/08/2011 6:00	29/08/2011 12:00	6	10
237	NDT Load Bearing Areas: Pad Eyes	29/08/2011 6:00	29/08/2011 7:00	1	
238	Magnetic Particle Inspection	29/08/2011 7:00	29/08/2011 8:00	1	
239	Eddy Current Inspection	29/08/2011 8:00	29/08/2011 9:00	1	
240	NDE	29/08/2011 9:00	29/08/2011 10:00	1	
241	Replace 6 Suspension Air Bags	29/08/2011 10:00	29/08/2011 16:00	6	13.5
242	Visually Inspect for Corrossion	29/08/2011 10:00	29/08/2011 11:30	1.5	
243	Check air supply piping and supply	29/08/2011 11:30	29/08/2011 17:30	6	
244	Function Test Air Brake System	6/09/2011 6:00	6/09/2011 12:00	6	9
245	Check and adjust Slack Adjusters	6/09/2011 6:00	6/09/2011 7:00	1	
246	Check and adjust Spring Break Boosters	6/09/2011 7:00	6/09/2011 8:00	1	
247	Check and adjust S cams	6/09/2011 8:00	6/09/2011 9:00	1	
248	Rotate all road wheels	6/09/2011 9:00	6/09/2011 9:00	0	2
249	Wheel Bearing Inspections	6/09/2011 9:00	6/09/2011 10:00	1	
250	Check Hub Seals for Leaks	6/09/2011 10:00	6/09/2011 11:00	1	

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251	Replace Air Service Tank		6/09/2011 11:00	6/09/2011 13:30	2.5	70
252	Remove Top Hydraulic Tank		6/09/2011 11:00	6/09/2011 14:00	3	
253	Drain Oil		6/09/2011 14:00	6/09/2011 15:00	1	
254	Internal Tank Inspection		6/09/2011 15:00	6/09/2011 16:00	1	
255	Replace all gaskets and seals		6/09/2011 16:00	6/09/2011 17:00	1	
256	Replace all filters		6/09/2011 17:00	6/09/2011 18:30	1.5	
257	Replace all oil		6/09/2011 18:30	9/09/2011 6:30	60	
258	Replace Hydraulic rig hoses around rig carrier		9/09/2011 6:30	9/09/2011 18:30	12	13
259	Hose truck/Peretek container on standby		9/09/2011 6:30	9/09/2011 7:30	1	
260	MTU Compressor to be replaced		9/09/2011 7:30	9/09/2011 9:30	2	7
261	Remove compressor		9/09/2011 7:30	9/09/2011 8:30	1	
262	Drain lube oil bypass		9/09/2011 8:30	9/09/2011 9:30	1	
263	Backload same		9/09/2011 9:30	9/09/2011 10:30	1	
264	Install new compressor		9/09/2011 10:30	9/09/2011 11:30	1	
265	Hook up new compressor		9/09/2011 11:30	9/09/2011 12:30	1	
266	Replace MTU engine remote filter hoses	Fi	9/09/2011 12:30	9/09/2011 18:30	6	12
267	Air clean Cyclone		9/09/2011 12:30	9/09/2011 13:30	1	
268	Remove		9/09/2011 13:30	9/09/2011 15:30	2	
269	Wash Clean		9/09/2011 15:30	9/09/2011 16:30	1	
270	Reinstall		9/09/2011 16:30	9/09/2011 18:30	2	
271	MTU front/rear engine crankshaft seals replace		9/09/2011 18:30	9/09/2011 18:30	0	4
272	Remove		9/09/2011 18:30	9/09/2011 20:30	2	
273	Replace		9/09/2011 20:30	9/09/2011 22:30	2	
274	MTU Hydraulic pump group flex plate		9/09/2011 22:30	10/09/2011 4:30	6	6
275	Remove		9/09/2011 22:30	9/09/2011 22:30	0	
276	Replace		9/09/2011 22:30	9/09/2011 22:30	0	
277	MTU Hydraulic pump group Funk Drive Box		9/09/2011 22:30	10/09/2011 0:30	2	10
278	Remove		9/09/2011 22:30	10/09/2011 4:30	6	
279	Replace		10/09/2011 4:30	10/09/2011 6:30	2	
280	Replace AV130 delivery manifold JIC fittings		10/09/2011 6:30	10/09/2011 6:30	0	3
281	Replace Rod Load hydraulic Danfoss pump	Ur	10/09/2011 6:30	10/09/2011 7:30	1	
282	Replace Rexroth A11VLO130 rotation pump		10/09/2011 7:30	10/09/2011 8:30	1	
283	All pump groups calibration tested	Ai	10/09/2011 8:30	10/09/2011 9:30	1	
284	MTU Radiator cooler pack repair		10/09/2011 9:30	10/09/2011 9:30	0	10
285	Dismantle		10/09/2011 9:30	10/09/2011 12:30	3	
286	Sendoff to town		10/09/2011 12:30	10/09/2011 18:30	6	
287	Repair tank gaskets		10/09/2011 18:30	10/09/2011 18:30	0	
288	Return from town		10/09/2011 18:30	10/09/2011 18:30	0	
289	Reinstall		10/09/2011 18:30	10/09/2011 19:30	1	
290	MTU engine scheduled Maintenance	Oi	10/09/2011 19:30	11/09/2011 1:30	6	13
291	Remove valve covers		10/09/2011 19:30	10/09/2011 20:30	1	
292	Valve recession checks		10/09/2011 20:30	10/09/2011 22:30	2	
293	Test injectors		10/09/2011 22:30	11/09/2011 0:30	2	
294	Turbo Inspection tune up		11/09/2011 0:30	11/09/2011 2:30	2	
295	Funk Box Drive Input shaft seal replaced		11/09/2011 2:30	11/09/2011 5:00	2.5	7.5
296	Internal Bearing Inspected		11/09/2011 2:30	11/09/2011 4:30	2	
297	Internal Gear Inspected		11/09/2011 4:30	11/09/2011 6:30	2	
298	Analyse oil leak 1" BSP Plug		11/09/2011 6:30	11/09/2011 7:30	1	
299	TDI 150 Air Turbo Starter Motor	Re	11/09/2011 7:30	11/09/2011 7:30	0	3
300	Replace starter pinion check shaft bearing		11/09/2011 7:30	11/09/2011 9:30	2	
301	Clean turbo housing		11/09/2011 9:30	11/09/2011 10:30	1	
302	Rig Carrier Services		11/09/2011 10:30	11/09/2011 10:30	0	3
303	DC Valve Controls		11/09/2011 10:30	11/09/2011 11:30	1	
304	Hydraulic test calibration		11/09/2011 11:30	11/09/2011 12:30	1	
305	Visually Inspect		11/09/2011 12:30	11/09/2011 13:30	1	
	ROD LOADER				0	3.229167
306	Inspection and hose replacement	#	27/08/2011 3:00	27/08/2011 16:30	13.5	77.5
307	NDT : pins; anchor point; LBA		27/08/2011 3:00	27/08/2011 5:00	2	
308	Magnetic Particle Inspection		27/08/2011 5:00	27/08/2011 6:00	1	
309	Eddy Current inspection		27/08/2011 6:00	27/08/2011 7:00	1	
310	NDE		27/08/2011 7:00	27/08/2011 8:00	1	
311	Hydraulic Cylinder ByPass test		5/09/2011 0:00	5/09/2011 6:00	6	
312	Hydraulic Velocity Fuse Cleaned		5/09/2011 6:00	5/09/2011 7:00	1	
313	Hydraulic Velocity Fuse Inspected		5/09/2011 7:00	5/09/2011 8:00	1	
314	Hydraulic Velocity Fuse Replaced		5/09/2011 8:00	5/09/2011 9:00	1	

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315	Dual Counterbalance Valves Cleaned	5/09/2011 9:00	5/09/2011 10:00	1	
316	Dual Counterbalance Valves Inspected	5/09/2011 10:00	5/09/2011 11:00	1	
317	Dual Counterbalance Valves Replaced	5/09/2011 11:00	5/09/2011 12:00	1	
318	Replace Dual Counterbalance Valves	5/09/2011 12:00	5/09/2011 13:00	1	
319	Visually Inspect Dual Counterbalance Valves	5/09/2011 13:00	5/09/2011 14:00	1	
320	Replace Hydraulic Flexi Hoses for Hard lines	5/09/2011 14:00	5/09/2011 20:00	6	
321	Left Out Rigger Extension Cylinder reseal	5/09/2011 20:00	6/09/2011 2:00	6	
322	Replace ALL HYDRAULIC Hard line pipes	6/09/2011 2:00	7/09/2011 8:00	30	
323	Road Loader DC Valve Control Station	7/09/2011 8:00	7/09/2011 11:30	3.5	
324	Repair pipe handler hydraulic control tank.	7/09/2011 11:30	7/09/2011 17:30	6	
325	Bank to be resealed	7/09/2011 17:30	7/09/2011 23:30	6	
326	Clean all contamination away from V-door	7/09/2011 23:30	8/09/2011 0:30	1	
327					
328	Daytank/Koomey Skid	1/09/2011 11:00	4/09/2011 0:42	18	2.57142857
329	Mud Pump 1	4/09/2011 0:42	7/09/2011 11:00	24	3.42857143
330	Mud Pump2	7/09/2011 11:00	10/09/2011 21:17	24	3.42857143
331	General Skid	10/09/2011 21:17	13/09/2011 11:00	18	2.57142857
332	Westside Container and bin	13/09/2011 11:00	16/09/2011 21:17	24	3.42857143
333	Mechanic shack	16/09/2011 21:17	19/09/2011 11:00	18	2.57142857
334	Smoko shack	19/09/2011 11:00	22/09/2011 21:17	24	3.42857143
335	Company Man shack	22/09/2011 21:17	26/09/2011 7:34	24	3.42857143
336	Rig Manager shack	26/09/2011 7:34	29/09/2011 17:51	24	3.42857143
337	Camp Gen skid 1	29/09/2011 17:51	2/10/2011 7:34	18	2.57142857
338	Camp Gen skid 2	2/10/2011 7:34	5/10/2011 17:51	24	3.42857143
339	Camp Building 1	5/10/2011 17:51	9/10/2011 4:08	24	3.42857143
340	Camp Building 1	9/10/2011 4:08	12/10/2011 14:25	24	3.42857143
341	Camp Building 1	12/10/2011 14:25	16/10/2011 0:42	24	3.42857143
342	Camp Building 1	16/10/2011 0:42	19/10/2011 11:00	24	3.42857143
343	Camp Building 1	19/10/2011 11:00	22/10/2011 21:17	24	3.42857143
344	Camp Building 1	22/10/2011 21:17	26/10/2011 7:34	24	3.42857143
345	Camp Building 1	26/10/2011 7:34	29/10/2011 17:51	24	3.42857143
346	Lifting Equipment			408	58.2857143 days
347	ITAC Supervision				

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Crew Pay	226,429
Accomodation	64,806
HTS Pumps	21,930
WGW corner castings man hours	43,200
King Swivel	35,994
AIRDRILL parts List	112,011
Top Drive	40,000
Crew change flights	26985
Cranes	3840
ITAC corner castings	49300

624,495

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ITAC COST

ITEM	DESCRIPTION	ESTIMATED COST \$	Boilermaker					CONTAINER			Boilermaker Costs	ESTIMATED COST \$	Corner		Flat		
			Manhours	Castings	RHS	Plates	Gussets	UB	FLAT BAR	PINS			Castings	RHS	Plates	Gussets	
						110											
1	Daytank/Koomey Skid	2860	18	4	2	4	8					1980	880	4	2	4	8
2	Mud Pump 1	3520	24	4	2							2640	880	4	2		
3	Mud Pump2	3520	24	4	2							2640	880	4	2		
4	General Skid	2860	18	4	2	4	8					1980	880	4	2	4	8
5	Westside Container and bin	8360	24	4	3	4	8		2	4		2640	5720	4	3	4	8
6	Mechanic shack	2860	18	4	2	4	8					1980	880	4	2	4	8
7	Smoko shack	2530	24	4	2	4	8					2640	-110	4	2	4	8
8	Company Man shack	2530	24	4	2	4	8					2640	-110	4	2	4	8
9	Rig Manager shack	2530	24	4	2	4	8					2640	-110	4	2	4	8
10	Camp Gen skid 1	5940	18	4	2	4	8	1		2		1980	3960	4	2	4	8
11	Camp Gen skid 2	2530	24	4	2	4	8					2640	-110	4	2	4	8
12	Camp Building 1	2530	24	4	2	4	8					2640	-110	4	2	4	8
13	Camp Building 1	2530	24	4	2	4	8					2640	-110	4	2	4	8
14	Camp Building 1	2530	24	4	2	4	8					2640	-110	4	2	4	8
15	Camp Building 1	2530	24	4	2	4	8					2640	-110	4	2	4	8
16	Camp Building 1	2530	24	4	2	4	8					2640	-110	4	2	4	8
17	Camp Building 1	2530	24	4	2	4	8					2640	-110	4	2	4	8
18	Camp Building 1	2530	24	4	2	4	8					2640	-110	4	2	4	8
		57750										44880					
	Lifting Equipment	23700															
	ITAC Supervision	11000															
		34700										22500					
		92450										22380					
	408 man hours																

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Haling Narelle

From: Russell Churchett <russell.churchett@westsidecorporation.com>
Sent: Wednesday, 28 September 2011 6:51 AM
To: Wright John; Rasmussen Graham
Cc: Ray Cowie; Simon Mewing
Subject: TXD180 Mast Fall Forward Action Plan - 27/09/11 Update
Attachments: 2011 09 13 Rig Recovery forward action plan - 09 27 Update.xlsx

John

Below (and attached) is the updated TXD180 Mast Fall Forward Action Plan.

Main points for this review are:

21/23

Prior plan put forward listed the Schramm workshop as being in Brisbane.
 This was an error; the workshop is located in Sydney.
 The rig is currently at the Sydney workshop.
 43 Holbeche Road Arndell Park NSW
 Ben Baden Services and Crane connections

49-Sch4 - Mobile phone

#24

Section 78B(2) RTI Act	49-Sch4 - Mobile phone
Section 78B(2) RTI Act	

TXD180 Mast Fall Event: P&G Inspector Findings: Forward Action Plan		Responsibility for Completion	13/09/2011	14/09/2011	15/09/2011	16/09/2011	19/09/2011	20/09/2011	21/09/2011	22/09/2011	23/09/2011	26/09/2011	27/09/2011	28/09/2011	29/09/2011	30/09/2011	October	November	December	Completion Due	Actual Completion Date	Comments	
A	Tasks already completed																						
1	Provide Wood Group Wagners (WGW) SOP's	SH																			13/09/11	13/09/11	
2	Ensure Toolbox meetings are documented on noted form, date and time entered, for each and every toolbox meeting	ST/SH																			13/09/11	13/09/11	
B	Safety Management System Improvement Items																						
3	Develop WestSide bridging document linking to WGW and all subcontractors involved with rig operation	RJC/DC																			20/09/11	26/09/11	Draft bridg finalised as
4	Provide evidence of contractors SafeOp and P&G Legislation compliance - commence	RJC/DC																			13/09/11	13/09/11	
5	Review WGW SOP's determine if any SOP's are required to be developed to ensure all routine work activities	MS																			19/09/11		Part of the audit in pr
6	Review WestSide and WGW Management of Change process, ensure process is implemented to engineering changes to plant etc.	RJC/DC																			19/09/11		Commence

7	Develop specific Site Safety Manager training competency matrix and commence delivery of training	DC																			19/09/11	Commence	
8	Review JSA system in order to improve and ensure the system is more robust	MS																			19/09/11	23/09/11	
9	Provide WGW SOP Training Records (including details of trainer qualifications)	DC																			20/09/11		Training re
10	Update drilling crew competency matrix. Determine gaps and set action plan to address skill gaps.	DC																			19/09/11		Commence
11	Provide maintenance crew competency matrix (Compare trade qualifications etc. with assigned maintenance tasks)	DC/RJC																			29/09/11		Commence
12	Provide evidence of contractors SafeOp and P&G Legislation compliance - complete	RJC/DC																			30/09/11		SafeOP con progressing
c	Rig Recovery Items																						
13	Provide Inspectorate with current Hydraulic Schematics for rig	RC																			14/09/11		Pending hy from OEM
14	Perform rig stabilising risk assessment (all risk assessments to be lead by G2 trained risk assessor)	MS																			14/09/11	15/09/11	
15	Perform rig move risk assessment (from current position to Brisbane repair workshop)	MS																			14/09/11	15/09/11	
17	Perform rig transportation (from site to repair location) risk assessment	ITAC																			22/09/11	22/09/11	
18	Develop JSA's and SWP's for each task as per developed risk assessments	ST/SH																			15/09/11	15/09/11	
19	Provide risk assessments, JSA's and SWP's to P&G Inspectorate for review and comment	RJC																			15/09/11	15/09/11	
20	Obtain Inspectorate 'go ahead' for commencement of works as per risk assessments, JSA's and SWP's and commence works	RJC																			20/09/11	20/09/11	
21	Perform rig move to Sydney repair workshop	RC																			23/09/11	23/09/11	
d	Rig Repair / Return to Service Items (Dates dependent on Rig Recovery Action completion timing)																						
23	Relocate rig to Sydney workshop (Schramm repairer)	RC																			30/09/2011		
24	Coordinate hydraulics investigation requirements with P&G Inspectorate (hydraulics to be inspected by 3rd party, process to be approved prior to commencing removal of hydraulics)	RJC																			30/09/2011		Insurer to a hydraulics i work with \\\nInspectorat
25	Commence rig repairs	RC																			TBD		
26	Inspect rig for full compliance (by competent entity, Moduspec, PSI or other Deedi approved entity)	RC/RJC																			TBD		
27	Obtain approval from P&G Inspectorate to return to drilling operations	RJC																			TBD		

Legend
DC
MS
RC
RJC
SH
ST

Section 78B(2) RTI Act

- Original plan Completion timing
- Revised Completion timing

Keen to get your comments, particularly in regards to the root cause investigation and if you are satisfied with the arrangements.

Regards

Russell Churchett
HSE Manager



Direct: 07 3020 0905

Section 78B(2) RTI Act

Office: 07 3020 0900

Fax: 07 3020 0999 Email: russell.churchett@westsidecorporation.com

Web: www.westsidecorporation.com

Address: Level 8, 300 Queen Street, Brisbane QLD 4000

Postal: GPO Box 1121, Brisbane QLD 4001

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TXD180 Mast Fall Event: P&G Inspector Findings: Forward Action Plan		Responsibility for Completion	13/09/2011	14/09/2011	15/09/2011	16/09/2011	19/09/2011	20/09/2011	21/09/2011	22/09/2011	23/09/2011	26/09/2011	27/09/2011	28/09/2011	29/09/2011	30/09/2011	October	November	December	Completion Due	Actual Completion Date	Comments	
A Tasks already completed																							
1	Provide Wood Group Wagners (WGW) SOP's	SH																			13/09/11	13/09/11	
2	Ensure Toolbox meetings are documented on noted form, date and time entered, for each and every toolbox meeting	ST/SH																			13/09/11	13/09/11	
B Safety Management System Improvement Items																							
3	Develop WestSide bridging document linking to WGW and all subcontractors involved with rig operation	RJC/DC																			20/09/11	26/09/11	Draft bridging document will be finalised as a priority
4	Provide evidence of contractors SafeOp and P&G Legislation compliance - commence	RJC/DC																			13/09/11	13/09/11	
5	Review WGW SOP's determine if any SOP's are required to be developed to ensure all routine work activities	MS																			19/09/11		Part of the SafeOp compliance audit in progress
6	Review WestSide and WGW Management of Change process, ensure process is implemented to engineering changes to plant etc.	RJC/DC																			19/09/11		Commenced
7	Develop specific Site Safety Manager training competency matrix and commence delivery of training	DC																			19/09/11		Commenced
8	Review JSA system in order to improve and ensure the system is more robust	MS																			19/09/11	23/09/11	
9	Provide WGW SOP Training Records (including details of trainer qualifications)	DC																			20/09/11		Training records to be provided
10	Update drilling crew competency matrix. Determine gaps and set action plan to address skill gaps.	DC																			19/09/11		Commenced
11	Provide maintenance crew competency matrix (Compare trade qualifications etc. with assigned maintenance tasks)	DC/RJC																			29/09/11		Commenced
12	Provide evidence of contractors SafeOp and P&G Legislation compliance - complete	RJC/DC																			30/09/11		SafeOP compliance audit progressing
C Rig Recovery Items																							
13	Provide Inspectorate with current Hydraulic Schematics for rig	RC																			14/09/11		Pending hydraulics schematic from OEM
14	Perform rig stabilising risk assessment (all risk assessments to be lead by G2 trained risk assessor)	MS																			14/09/11	15/09/11	
15	Perform rig move risk assessment (from current position to Brisbane repair workshop)	MS																			14/09/11	15/09/11	
17	Perform rig transportation (from site to repair location) risk assessment	ITAC																			22/09/11	22/09/11	
18	Develop JSA's and SWP's for each task as per developed risk assessments	ST/SH																			15/09/11	15/09/11	
19	Provide risk assessments, JSA's and SWP's to P&G Inspectorate for review and comment	RJC																			15/09/11	15/09/11	
20	Obtain Inspectorate 'go ahead' for commencement of works as per risk assessments, JSA's and SWP's and commence works	RJC																			20/09/11	20/09/11	
21	Perform rig move to Sydney repair workshop	RC																			23/09/11	23/09/11	
D Rig Repair / Return to Service Items (Dates dependent on Rig Recovery Action completion timing)																							
23	Relocate rig to Sydney workshop (Schramm repairer)	RC																			30/09/2011		
24	Coordinate hydraulics investigation requirements with P&G Inspectorate (hydraulics to be inspected by 3rd party, process to be approved prior to commencing removal of hydraulics)	RJC																			30/09/2011		Insurer to arrange 3rd party hydraulics investigation and work with WestSide and P&G Inspectorate
25	Commence rig repairs	RC																			TBD		
26	Inspect rig for full compliance (by competent entity, Moduspec, PSI or other Deedi approved entity)	RC/RJC																			TBD		
27	Obtain approval from P&G Inspectorate to return to drilling operations	RJC																			TBD		

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Legend	DC	Section 78B(2) RTI Act	- Original plan Completion timing
	MS		- Revised Completion timing
	RC		
	RJC		
	SH		
	ST		

Haling Narelle

From: Russell Churchett <russell.churchett@westsidecorporation.com>
Sent: Friday, 16 September 2011 2:52 PM
To: Wright John
Cc: Rasmussen Graham; Ray Cowie
Subject: WestSide TXD180 Ram Removal - For your review
Attachments: 2011 09 16 TXD180 Ram Removal Photos.pptx

John,

Details regarding the proposed hydraulic ram removal only; in comparison to the full mast removal, for your review.

- Schramm (OEM) have advised that a mast removal, on the current site, is not required to remove the hydraulic ram for inspection/investigation
- The hydraulic ram is able to removed easily and safely on site without the need to lift or replace the mast.
- OEM has advised mast removal is a task of significant risk in the field setting in comparison to a mast removal conducted in an appropriately equipped workshop.
- Loss assessors have also advised against a mast removal on site due to the increased risk, in conjunction with the mast removal (on site) being detrimental to the overall repair / recovery of the rig.

In summary:

- We are seeking your acceptance for us to not remove the mast and only perform the hydraulic ram removal.
- As discussed we would schedule the ram removal for next week and provide you/Mick McWilliam as much notice as possible, to enable you to be present for the ram removal if at all possible.
- Additionally, once the rams are removed we will ensure that they remain in the same state/condition as at the time of the event and will ship them to Rockhampton Hydraulics for inspection/investigation as discussed at the teleconference on Tuesday.

Keen to get your response on this matter.

Regards

Russell Churchett
HSE Manager



Direct: 07 3020 0905

Section 78B(2) RTI Act

Office: 07 3020 0900

Fax: 07 3020 0999

Email: russell.churchett@westsidecorporation.com

Web: www.westsidecorporation.com

Address: Level 8, 300 Queen Street, Brisbane QLD 4000

Postal: GPO Box 1121, Brisbane QLD 4001

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Refer to next slide – this slide shows location of rams on rig / comparison to mast.



2 Rams – easily removed in situ (with significantly less risk)

Haling Narelle

From: Russell Churchett <russell.churchett@westsidecorporation.com>
Sent: Friday, 9 September 2011 11:02 AM
To: Rasmussen Graham
Cc: Ray Cowie; Simon Mewing; Gerard McKay;
darren.cowan@woodgroupwagners.com; Steven.hicks@woodgroupwagners.com;
Bob Balkenbush (bob.balkenbush@woodgroupwagners.com); Peter Dingle
Subject: WestSide TXD180 Rig Mast Fall (No Injury) - Initial Written Notification
Attachments: 2011 09 09 TXD1 Rig Mast Fall - Petroleum & Gas Inspector Initial Report.docx

Graham,

Initial notification is attached. Please contact me if there are any further queries.

See you on Monday.

Regards

Russell Churchett
HSE Manager



Direct: 07 3020 0905

Section 78B(2) RTI Act

Office: 07 3020 0900

Fax: 07 3020 0999

Email: russell.churchett@westsidecorporation.com

Web: www.westsidecorporation.com

Address: Level 8, 300 Queen Street, Brisbane QLD 4000

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Incident Title:	WestSide TXD180 Rig Mast Fall (No Injury)
Incident Notifier:	Russell Churchett, HSE Manager – WestSide Corporation
Contact Details:	Section 78B(2) RTI Act / 0730200905
Date of Incident:	9 th September 2011
Time of Incident:	~0730
Incident Location:	Meridian 36 (MER36)
Incident Type: P&G Reg Schedule 2	Damage to property that substantially increases the risk of damage to plant or equipment or injury to person. Incident had the potential to, but did not, cause the death of or injury to, a person or damage to plant or equipment.
Incident Description:	<ul style="list-style-type: none"> • WestSide owned, Wood Group Wagners operated TXD180 Drill Rig • Drill rig mast layover planned post hydraulic system maintenance • Pre safety meeting occurred, all people cleared of mast layover area (as per standard procedure) • Bench test and in place circuit testing of hydraulics performed prior to layover • Trial layover of mast to 85 degrees back to 90 degrees, occurred twice to test hydraulics – trial passed • ~0730: Commenced full layover – mast lowered to ~80 degrees • Mast fell to fully lowered position with no apparent hydraulic back pressure (rapid fall to fully lowered position)
Immediate Actions Implemented:	<ul style="list-style-type: none"> • ~0735: Exclusion zone implemented around drill rig • Exclusion zone set to preclude any persons being in area potentially affected by rig shifting due to compromised rig stability • Rig batteries disconnected • Initial report from rig personnel through to WestSide management • ~1000: WestSide management initial investigation commenced with rig personnel • ~1020: P&G Inspector informed via telephone
Current Status:	<ul style="list-style-type: none"> • Exclusion zone in force until further notice / instruction from P&G Inspector • P&G Inspector to commence investigation Monday 12th September • WestSide Drilling & Completions Manager (Ray Cowie) and HSE Manager (Russell Churchett) will ensure to be present at the investigation. • Wood Group Wagners HSE Manager (Darren Cowan) and Field Operations Manager (Bob Balkenbush) are currently en route to site to commence field investigation and report, which will be provided to P&G Inspector in full.

Internal Health, Safety & Environment Training

	WGW Company Induction	JSEA Training	MSDS Awareness	Risk Assessment Training	Isolation & Lockout Training	Environmental Awareness Training	Management of Change Awareness Training	Piper Alpha Disaster DVD	Remember Charlie DVD	Hazard Identification Training	BSO Training	3D Assessment Training	Manual Handling Awareness	Noise Awareness & Hearing Conservation	Slips, Trips & Falls Awareness	Heat Stress Awareness	Fire Fighting Awareness	Hand Safety Awareness	Working at Heights Awareness	DROPS Awareness
Senior Toolpusher Rig Manager		27/07/2011	27/07/2011	27/07/2011	07/05/2011	04/05/2011										07/05/2011	27/03/2011			
HSE&T Coordinator					12/05/2011	12/05/2011										12/05/2011	27/03/2011			
Toolpusher Rig Manager					16/06/2011	04/05/2011										16/06/2011	27/03/2011			
Night Tool Pusher		03/08/2011	03/08/2011	03/08/2011	16/06/2011	16/06/2011										16/06/2011				
Driller 2		21/06/2011	21/06/2011		16/06/2011	16/06/2011										16/06/2011				
Driller 2		03/08/2011	03/08/2011	03/08/2011	06/06/2011	06/06/2011										06/06/2011				
Driller 2		30/07/2011	30/07/2011	30/07/2011	05/06/2011	05/06/2011										05/06/2011				
Driller 1		27/07/2011	27/07/2011	30/07/2011	05/06/2011	05/06/2011										05/06/2011				
AD/Derrickman		21/06/2011	21/06/2011		16/06/2011	16/06/2011										16/06/2011	27/03/2011			
AD/Derrickman		27/07/2011	27/07/2011	30/07/2011	05/06/2011	05/06/2011										05/06/2011				
AD/Derrickman		30/07/2011	30/07/2011	30/07/2011	06/06/2011	06/06/2011										06/06/2011				
AD/Derrickman		03/08/2011	03/08/2011	03/08/2011	16/06/2011	16/06/2011										16/06/2011	27/03/2011			
Motorman/Senior Floor Hand		03/08/2011	03/08/2011	03/08/2011	06/06/2011	06/06/2011										06/06/2011				
Motorman/Senior Floor Hand		30/07/2011	30/07/2011	30/07/2011	30/07/2011	30/07/2011										30/07/2011				
Motorman/Senior Floor Hand		21/06/2011	21/06/2011		16/06/2011	16/06/2011										16/06/2011	27/03/2011			
Motorman/Senior Floor Hand		27/07/2011	27/07/2011	30/07/2011	06/06/2011	06/06/2011										06/06/2011				
Lease Hand		21/06/2011	21/06/2011		16/06/2011	16/06/2011										16/06/2011	27/03/2011			
Lease Hand		27/07/2011	27/07/2011	30/07/2011	05/06/2011	05/06/2011										05/06/2011				
Lease Hand		03/08/2011	03/08/2011	03/08/2011	16/06/2011	16/06/2011										16/06/2011	27/03/2011			
Lease Hand		30/07/2011	30/07/2011	30/07/2011	30/07/2011	30/07/2011										30/07/2011				
Mechanic		03/08/2011	03/08/2011	03/08/2011	12/05/2011	12/05/2011										12/05/2011	27/03/2011			
Mechanic		21/06/2011	21/06/2011	31/07/2011	23/06/2011	25/06/2011										25/06/2011				

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External Health, Safety & Environment Training

	Confined Spaces	Drivers Licence	Well Control	Well Control - Supervisor	Working at Heights	Gas Testing Certification	Applied First Aid (HLTFA301B)	CPR	Self Contained Breathing Apparatus (SCBA)	Use of a Portable Fire Extinguisher	Low Voltage Rescue (LVR)	Incident Investigation (Taproot)	Permit to Work - Work Party Member	Permit to Work - Permit Authoriser	Forklift Licence	Dogging	Conduct Lifting Operations	Lock Screw Training	Advance 4WD Training	Certificate IV OHS	Course in Site Safety Health Representative (formerly S1, S2, S3)
Senior Toolpusher Rig Manager	19/06/2009	31974666 MC, RE 09/02/2014		22/10/2010	22/06/2009		31/07/2010	31/07/2010		27/03/2011				12/11/2009	13/01/1999			02/08/2010	25/03/2009		
HSE&T Coordinator	17/04/2009	80813410 MR, UD 09/06/2016			06/04/2009		13/11/2010	13/11/2010	09/08/2010					01/08/2010	09/06/2009			02/08/2010		08/12/2010	
Toolpusher Rig Manager	12/02/2010	11817373 C, RE 08/01/2014 SUS	03/09/2011		11/05/2009	12/02/2010	26/07/2010	26/07/2010		27/03/2011		29/09/2006	08/02/2010	08/02/2010	11/12/1999	08/07/2006		02/08/2010			
Night Tool Pusher																					
Night Tool Pusher				03/06/2011														02/08/2010			
Driller 2	14/04/2009	A16197 HC 25/11/2011	13/11/2009		28/03/2007	14/04/2009	25/11/2008		14/04/2009	27/03/2011				17/09/2010				19/12/2010			
Driller 2	07/04/2009		10/08/2009		29/01/2007	07/04/2009	12/08/2010	12/08/2010	07/04/2009	12/08/2010				12/08/2010				02/08/2010			
Driller 2	12/02/2010	89699310 MC, RE 09/02/2014			25/02/2011	12/02/2010	26/07/2010	26/07/2010					08/02/2010					02/08/2010	14/02/2010		
Driller 1	09/09/2008	89126081 C, R 22/12/2010					12/08/2010	12/08/2010	09/09/2008					18/08/2010				28/11/2010	17/08/2005		
AD/Derrickman	10/02/2011	22666805 HR 16/07/2012			11/02/2011	10/02/2011				27/03/2011			11/05/2010					27/02/2011			
AD/Derrickman	05/03/2009				21/07/2008	05/03/2009	25/07/2008		05/03/2009				05/06/2011								
AD/Derrickman	05/02/2009		17/10/2008		04/02/2009	04/02/2009	27/07/2010	27/07/2010		04/02/2009	05/12/2006					19/07/2006		02/12/2010	03/02/2009		
AD/Derrickman	24/02/2011	67944112 C 19/05/2012			25/02/2011	24/02/2011			02/10/2009	27/03/2011				08/12/2010				08/12/2010			
Motorman/Senior Floor Hand	24/02/2011				25/02/2011	24/02/2011	23/09/2010	23/09/2010					23/09/2010					28/11/2010			
Motorman/Senior Floor Hand	24/02/2011	94509964 HC 24/12/2010			25/02/2011	24/02/2011	12/08/2010	12/08/2010					09/08/2010		06/04/2009			09/12/2010			
Motorman/Senior Floor Hand	10/02/2011	61996425 C, RE 08/11/2011			11/02/2011	10/02/2011				27/03/2011				04/11/2010				02/12/2010			
Motorman/Senior Floor Hand														16/05/2011							
Lease Hand		91419574 C 26/11/2011								27/03/2011				30/04/2011				27/02/2011			
Lease Hand	24/02/2011				25/02/2011	24/02/2011								22/10/2010				09/12/2010			
Lease Hand	10/02/2011	88519238 HR 02/11/2014			11/02/2011	10/02/2011				27/03/2011				28/02/2011				28/02/2011			
Lease Hand																					
Mechanic	10/02/2011	33483468 HC, R 21/01/2014			11/02/2011	10/02/2011				27/03/2011				04/11/2010				24/11/2010			
Mechanic		5408CL HR 26/08/2011			27/08/2009		19/08/2009							08/02/2010				17/10/2009			

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Petex Rotary Drilling Units

	Rotary Drilling (unit 1) -Lesson 1	Rotary Drilling (Unit 1) -Lesson 2	Rotary Drilling (Unit 1) - Lesson 3	Rotary Drilling (Unit 1) Lesson 4	Rotary Drilling (Unit 1) Lesson 5	Rotary Drilling (unit 1) Lesson 6	Rotary Drilling (unit 1) Lesson 7	Rotary Drilling (unit 1) Lesson 8	Rotary Drilling (unit 1) Lesson 9	Rotary Drilling (unit 1) lesson 10	Rotary Drilling (unit 2)- Lesson 1	Rotary Drilling (unit 2)- Lesson 2	Rotary Drilling (unit 2)- Lesson 3	Rotary Drilling (unit 2)- Lesson 4	Rotary Drilling (unit 2)- Lesson 5	Rotary Drilling (unit 3)- Lesson 1	Rotary Drilling (unit 3)- Lesson 2	Rotary Drilling (unit 3)- Lesson 3	Rotary Drilling (unit 4)	
Senior Toolpusher Rig Manager																				
HSE&T Coordinator	20/01/2006																			
Toolpusher Rig Manager	22/04/2005										1/10/2005					1/10/2005			15/06/2006	
Night Tool Pusher																				
Night Tool Pusher																				
Driller 2	27/07/2005										1/05/2006					4/12/2006			5/05/2006	
Driller 2	13/02/2007										6/01/2009						5/11/2008	14/10/2008	5/05/2009	
Driller 2																				
Driller 1																				
AD/Derrickman																				
AD/Derrickman	2/09/2008	2/09/2008	20/07/2009	20/07/2009		10/08/2009	6/01/2009	6/01/2009	39819	21/11/2007						8/09/2008				
AD/Derrickman	10/08/2006																			
AD/Derrickman	14/09/2009										10/11/2009					10/11/2009			22/04/2009	
Motorman/Senior Floor Hand	15/08/2011	15/08/2011	15/08/2011	15/08/2011																
Motorman/Senior Floor Hand																				
Motorman/Senior Floor Hand																				
Motorman/Senior Floor Hand	15/08/2011		15/08/2011																	
Lease Hand																				
Lease Hand	15/08/2011	15/08/2011	15/08/2011	Pending																
Lease Hand	15/08/2011	Pending	15/08/2011	15/08/2011																
Lease Hand																				
Mechanic	11/08/2011	11/08/2011	11/08/2011	11/08/2011																
Mechanic	15/08/2011																			

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