

OPENSHORE

Risk Assessment Vermeer D100x120



Hazards Requiring Attention:

0

AS AT

Wednesday, 11 February 2026

Next Review

Thursday, 11 February 2027

Total Hazards Recorded

64

Critical Risk Hazards

0

High Risk Hazards

0

Moderate Risk Hazards

21

Low Risk Hazards

43

Risk Matrix - Refer Procedure Risk Management

Probability	Low	Minor	Moderate	Major	Critical
Negligible	L2	L3	L4	M5	M6
Unlikely	L3	L4	M5	M6	H7
Possible	L4	M5	M6	H7	H8
Likely	M5	M6	H7	H8	E9
Almost Certain	M6	H7	H8	E9	E10

Vermeer D100x120

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Operation	Entanglement	3	4	H7	Shirts tucked in, sleeves buttoned up, long hair tied back. Keep body parts and loose clothing away from side mounted rack and pinion assembly for the hydraulic rod and drive motor. Keep clear of rotating drill drive chuck, vice and rod assembly at the from and hydraulic track drive unit.	3	2	M5
Operation	Crushing – material falling off plant	4	4	H8	Never overload drill rods in rod cassette	3	1	L4
Operation	Crushing – uncontrolled or unexpected movement of the plant	4	4	H8	Take care with surface conditions when using or moving plant or when heavily loaded	3	1	L4
Risk Assessment	Crushing – plant tipping/rolling	3	5	H8	Do not operate plant on excessive gradients or unstable footings/surfaces	3	1	L4
Operation	Crushing – operation, maintenance, repair	3	5	H8	Disable plant when doing maintenance.	4	2	M6
Operation	Crushing – being thrown off or under plant	3	4	H7	Never place body parts near or under the rear stabilizing legs at the rear of the plant	2	4	M6
Operation	Crushing – Being trapped between plant and materials or fixed structures	3	4	H7	NEVER stand on the plant when its in operation	4	1	M5
Operation	Cutting, stabbing and puncturing – sharp or flying objects	3	4	H7	Be aware of standing too close to the plant when its in operation and when close to fixed obstacles	4	1	M5
Operation	Cutting, stabbing and puncturing – plant testing, inspection, operation, maintenance, repair	4	4	H8	Be aware of fractured or broken drill rods. Inspect drill rods every 500 hrs	3	1	L4
Operation	Cutting, stabbing and puncturing – parts disintegrating	4	4	H8	You must never work on plant until it has been disabled. Only qualified and/or trained personnel to perform maintenance	3	2	M5
Operation	Cutting, stabbing and puncturing – work pieces being ejected	4	4	H8	Be aware of fractured or broken drill rods. Inspect drill rods every 500 hrs	3	1	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Operation	Shearing – between two parts of the plant, or between a part and a work piece or structure	3	4	H7	Be aware of fractured or broken drill rods. Inspect drill rods every 500 hrs	3	1	L4
Operation	Friction – burning due to contact with moving parts or surfaces	4	4	H8	Make sure that body parts don't come into contact with any moving hydraulically driven mechanical components. Keep a safe distance from the plant	4	2	M6
Operation	Striking – uncontrolled or unexpected movement of plant	4	4	H8	Never handle rotating drill rods between drill rod cassette and the drill drive. Signs on the plant show this	5	1	M6
Operation	Striking – plant disintegrating	4	4	H8	Be aware of where moving plant is at all times. Be aware of surface conditions when drilling	4	1	M5
Operation	Striking – pieces being ejected	3	4	H7	Be aware of fractured or broken drill rods. Inspect drill rods every 500 hrs. Be aware under extreme loads	3	1	L4
Operation	Striking – mobility of plant	3	4	H7	Be aware of where moving plant is at all times. Be aware of surface conditions when drilling	4	1	M5
Operation	High Pressure Fluid – contact with fluids due to plant failure or misuse	3	4	H7	Check hydraulic hose(S) before work starts	3	2	M5
Operation	Electrical – plant contacting live electrical conductors	3	4	H7	Locate all services and pot hole to identify depths	5	1	M6
Operation	Electrical – plant working in close proximity to electrical conductors	3	4	H7	Locate all services and pot hole to identify depths	5	1	M6
Operation	Electrical – lack of isolation procedures	3	4	H7	Always follow manufacturers operating instructions through training and education	4	1	M5
Operation	Electrical – testing strike alarm system	3	4	H7	When testing, do not hold the stake	5	1	M6
Operation	Explosion – gases, vapours, liquids, dusts triggered by the operation of plant	3	4	H7	Always refuel using manufacturers recommendations. Make sure battery is not near an ignition source. Locate all underground services	5	1	M6

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Operation	Slips, trips, falls – uneven work surface	3	4	H7	Use caution when mounting and dismounting the operators seat when accessing controls	2	2	L4
Operation	Slips, trips, falls – poor housekeeping	3	4	H7	Make sure good housekeeping practices are maintained at all times	1	3	L4
Operation	Slips, trips, falls – obstacles	3	4	H7	Make sure that there is no debris about the plant	1	3	L4
Operation	Slips, trips, falls – from height. Lack of work platform	4	4	H8	Use caution when mounting and dismounting the operators seat when accessing controls	2	2	L4
Operation	Slips, trips, falls – from height. Lack of stairs	4	4	H8	When servicing the plant, qualified personnel must be aware of these hazards	2	2	L4
Operation	Slips, trips, falls – from height. Lack of guardrails	4	4	H8	When servicing the plant, qualified personnel must be aware of these hazards	2	2	L4
Operation	Slips, trips, falls – from height. Unprotected holes	4	4	H8	When servicing the plant, qualified personnel must be aware of these hazards	2	2	L4
Operation	Slips, trips, falls – from height. Poor floor or walking surfaces or steep surfaces	4	4	H8	When servicing the plant, qualified personnel must be aware of these hazards	2	2	L4
Operation	Ergonomic – repetitive body movement	4	4	H8	Take regular breaks	1	1	L2
Operation	Ergonomic – Constrained body posture	4	4	H8	Use caution when attending to jammed drill rods. Be aware of manual handling procedures when lifting and lowering the large hood when accessing the diesel motor	2	2	L4
Operation	Ergonomic – Design deficiency causing mental or psychological stress	4	4	H8	Correct training on plant use	1	1	L2
Operation	Ergonomic – inadequate lighting	4	4	H8	Sufficient lighting is required at all times	1	1	L2
Operation	Ergonomic – lack of consideration given to human error	4	4	H8	Use caution when attending to jammed drill rods. Be aware of manual handling procedures when lifting and lowering the large hood when accessing the diesel motor. Correct training on plant use	2	2	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
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Operation	Ergonomic – mismatch of the plan with human traits	4	4	H8	Correct training on plant use	2	2	L4
Operation	Suffocation – lack of oxygen	4	4	H8	Never use the plant in a poorly ventilated area	1	1	L2
Operation	High Temp for fire – can anyone come into contact with high temperatures	4	5	E9	A lock is used to house exhaust system, diesel engine and hydraulic pump	1	1	L2
Operation	High Temp for fire – injury by fire	4	4	H8	Correct training on plant refuelling	1	1	L2
Operation	Temperature – exposure to high/low temps	4	4	H8	Correct PPE and training	1	1	L2
Operation	Other hazards – chemicals	4	4	H8	Correct PPE and knowledge of SDS	1	1	L2
Operation	Other hazards – toxic gases	3	4	H7	Correct PPE and knowledge of SDS	1	1	L2
Operation	Other hazards – fumes	3	4	H7	Never use the plant in a poorly ventilated area	1	1	L2
Operation	Other hazards – Dust	3	4	H7	Never use the plant in a poorly ventilated area. Be aware of dusty conditions	1	1	L2
Operation	Other hazards – Noise	3	4	H7	Use correct PPE	1	1	L2
Operation	Other hazards – Vibration	3	4	H7	Take regular breaks	1	1	L2
Equipment Design	Design compliance - Burns	4	4	H8	Engine exhaust is fitted with a guard to prevent injury	1	1	L2
Equipment Design	Design compliance – collision	4	5	E9	Safety beacon is fitted	1	1	L2
Equipment Design	Design compliance – burns, striking	4	4	H8	Hydraulic hoses must be inspected daily before each use though pre-start checklists. Never use any body parts to check for leaks. Always use cardboard to check for leaks	3	2	M5
Equipment Design	Design compliance – entanglement	4	5	E9	Guards must be fully functional	1	1	L2
Equipment Design	Design compliance – incorrect operation. Intuitive controls	4	4	H8	Maintain plant at all times	1	1	L2
Equipment Design	Design compliance – slipping. Access/Egress	4	4	H8	Safe access/egress to work area must be maintained at all times	2	1	L3
Equipment Design	Design compliance – incorrect operation, slipping	4	4	H8	Control levers and foot controls must be kept non-slip	1	1	L2

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Equipment Design	Design compliance – burns, electric shock	4	5	E9	The constraint and cover must be present and fully functional at all times	1	1	L2
Equipment Design	Design compliance – burns striking	4	4	H8	The guard between hydraulic hoses must be in place at all times	1	1	L2
Equipment Design	Design compliance – poor visibility	4	4	H8	Lights must be fully functional. If they fail work must cease immediately	1	1	L2
Equipment Maintenance	Maintenance – incorrect operation	3	4	H7	Manufacturers Manual must be available at all times. JSEA must be completed daily	3	1	L4
Equipment Maintenance	Maintenance – operational malfunction	3	4	H7	Maintain service and maintenance records. Conduct regular inspections	3	1	L4
Equipment Maintenance	Maintenance – burns, striking, hydraulic damage	3	4	H7	Hoses must be free from damage. Daily inspection of hoses	3	1	L4
Equipment Maintenance	Maintenance – operational malfunction	3	4	H7	Minor leaks must be fixed within 14 days. Pre start checklists must be completed to avoid major and minor leaks	2	3	M5
Transport	Transport - Moving the drilling rig off the transporter	3	5	H8	Always remain at a safe distance from plant. Do not enter a work area unless they are in full view of the plant operator. Use a spotter where required.	1	5	M6
Transport	Transport - Crushing injury or body injury from working near plant or machinery	3	5	H8	Ensure correct machinery unloading process is followed and that it is undertaken by a competent person. Ensure that ramps are secured in place and that spotter is engaged	1	5	M6
Transport	Transport - drill falling off transporter	3	5	H8	Inspect transporting lugs for wear and tear. Check chains are tight and dog secured whenever loading machinery onto transporter	1	5	M6