

Title	Risk Assessment Exercise					
Target Population	Field Engineers & Field Specialists					
This requirement is applicable to:	✓	JFE		FST		EOT
	✓	FE1	✓	FS1		EO1
	✓	FE2	✓	FS2		EO2
			✓	FS3		EO3
					✓	GEO

Objective:

The objective of this task is to train the employees on how to apply the principles of Risk Management to an actual operational risk situation in CT operations.

Tasks:

- Identify operational risks in a job at location
- Write a risk management plan to safely operate in the face of the identified risk
- Gain an expert comment on the risk whenever required and obtain the appropriate management approval to perform the job.

Please attach a risk management plan as an evidence.

Note:

- Exemptions are exclusively used to obtain "permission" for operations that violated the conditions of safety standard.
- Exemptions are required to be created, documented and communicated across the team to increase awareness on that particular risks.

REQUIRED EVIDENCE:

- 1 Risk Management Plan

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OVERALL SCORE	STRONG			ADEQUATE			IMPROVEMENT NEEDED		
	10	9	8	7	6	5	4	3	2

MENTOR / ASSESSOR's Comments & Recommendation:

Objective met. Task completed

Signature	<i>[Signature]</i>	Assessment Date	<i>13/10/24</i>
Name	<i>KUNG YEE HAN</i>	Position	<i>TECHNICAL ADVISOR</i>


DIMENSION BID

CTS TASK SHEET

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FSM / OM Comments & Recommendation:

Manage to identify risk and reduce the job risk.

Signature		Assessment Date	13/10/24
Name	M. KHAIRUL RIDHWAN AZIZ CTS FIELD SERVICE MANAGE Dimension Bid (M) Sdn Bhd	Position	FSM

DIMENSION BID				Hazard		Risk Control Measure				Residual Risk													
Hazard				Likelihood		Severity		Risk Level		Likelihood		Severity		Risk Level									
Activity Steps				Hazard Description and Worst-Case Scenario without Control Measures		Affected Categories / Severity		Likelihood		Severity		Risk Level		Prevention Measure		Recovery Measure		Likelihood		Severity		Risk Level	
Rig-up & Rig down Pumping Equipment				• Ergonomic • Miss Hammering • Fatigue • Slip/Trip and Fall		• Personnel • Injury • Asset • Coiled tubing equipment damage		1 (Low)		1 (Low)		1 (Acceptable)		• Wear proper PPE • Correct Lifting/Hammering Technique		• Apply First Aid Kit / consult Platform Medic		1 (Low)		1 (Low)		1 (Acceptable)	
Start & Run Equipment				• Noise • Rotating part - Finger Injury		• Personnel • Injury • Asset • Coiled tubing equipment damage		1 (Low)		1 (Low)		1 (Acceptable)		• Wear proper PPE • Rotating part equip with safeguard • No hand placement near the rotating part		• Apply First Aid Kit / consult Platform Medic		1 (Low)		1 (Low)		1 (Acceptable)	
Open / Close Surface Line to Donor Well				• Trapped Pressure • Valve not full close / Open		• Personnel • Injury • Asset • Coiled tubing equipment damage		1 (Low)		1 (Low)		1 (Acceptable)		• Ensure to monitor the Gauge pressure		• Apply First Aid Kit / consult Platform Medic		1 (Low)		1 (Low)		1 (Acceptable)	
Open well :- Bleed Tubing Head Pressure (if possible)				• Trapped Pressure • Valve not full close		• Personnel • Injury • Asset • Coiled tubing equipment damage		1 (Low)		2 (Medium)		2 (Acceptable)		• Bleed-off Circulating / THP (if possible) • Ensure to monitor the Gauge pressure • Ensure to monitor the Gauge pressure		• Apply First Aid Kit / Consult Platform Medic • All the crew ready for evacuation, familiar to route and gather at muster station		1 (Low)		2 (Medium)		2 (Acceptable)	
				• Blow-up		• Personnel • Injury • Asset • Coiled tubing equipment damage		1 (Low)		2 (Medium)		2 (Acceptable)		• Bleed-off Circulating / THP (if possible) • Ensure to monitor the Gauge pressure • Initiate initial pumping pressure slight higher than SITHP (if pressure unable to be bleed)				1 (Low)		1 (Low)		1 (Acceptable)	
				• Overpressure during pressure test treating line		• Personnel • Injury • Asset • Coiled tubing equipment damage		1 (Low)		2 (Medium)		2 (Acceptable)		• Toolbox meeting before start the operation to communicate about the hazard and all the crew understand their roles and responsibilities		• Apply First Aid Kit / See Platform Medic		1 (Low)		2 (Medium)		2 (Acceptable)	

Pumping Activity - Apply initial pumping pressure slightly higher than SITHP.	<ul style="list-style-type: none">• Pumping pressure exceed MAWOP for casing/tubing	Personnel <ul style="list-style-type: none">• Injury Asset <ul style="list-style-type: none">• Coiled tubing equipment damage• Production tubing platform damage	1 (Low)	1 (Low)	1 (Acceptable)	<ul style="list-style-type: none">• MASTP during pumping operation including MAWOP limitation (if there is communication between casing and tubing).• Overpressure shutdown (OPSD) at pump to be set at 80% MASTP	<ul style="list-style-type: none">• All the crew ready for evacuation, familiar to route and gather at muster station• Spill kit available at pumping / Flowback unit	1 (Low)	1 (Low)	1 (Acceptable)
	<ul style="list-style-type: none">• Hydrocarbon fluid - spill cause fire incident	Personnel <ul style="list-style-type: none">• Injury Asset <ul style="list-style-type: none">• Coiled tubing equipment damage• Platform equipment damage	1 (Low)	1 (Low)	1 (Acceptable)	<ul style="list-style-type: none">• Ensure to check/monitor the surface pumping line throughout the operation.• Ensure spill kit and fire extinguisher is readily available at flowback pumping unit.• Platform fire emergency system is in working condition		1 (Low)	1 (Low)	1 (Acceptable)
	<ul style="list-style-type: none">• Formation Damage- Pumping Pressure exceed the formation fracture pressure- Pumping Fluid induces damage into formation properties	Asset <ul style="list-style-type: none">• Formation fracture damage causes collapse to nearby producing/injector zone	1 (Low)	1 (Low)	1 (Acceptable)	<ul style="list-style-type: none">• MASTP calculation must be based on given fracture gradient provided by SE• Overpressure shutdown (OPSD) at pump to be set at 80% MASTP• sea water/injection water be treated with oxygen scavenger, corrosion inhibitor and microbioxide.• All return fluid to be filtered using filtration unit to minimized risk of unwanted solid plugging and damage into formation.	<ul style="list-style-type: none">• Cease pumping fluid into well.• Bleed off surface treating pressure.	1 (Low)	1 (Low)	1 (Acceptable)
S- SEVERITY										
Lost Time Injury	Major Damage	Major Pollution	High (3)							
First Aid Injury	Minor Damage	Minor Pollution	Medium (2)							
No Injury	No Damage	No pollution	Low (1)							
				R- RATING						
				3	4	5	6	7	8	9
				2						
				1	2			3		
				Low (1)	Medium (2)			High (3)		
				Remote	Possible			Probable		
				L- LIKELIHOOD						
Muhammad Hafiz	Kun-Yee Han		Aliif Amirul Adenan		Petronas PCSB					
Operation Engineer	Technical Advisor		General Manager							