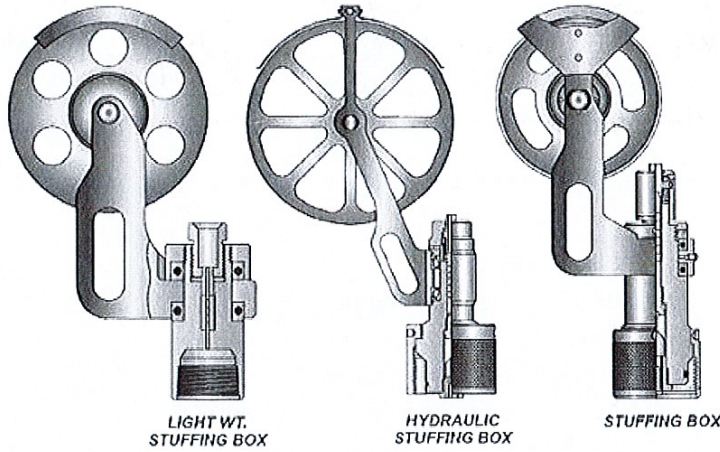




**B. SURFACE EQUIPMENT**

1. Stuffing Box



What is Stuffing Box?  
 \* Stuffing box is one of the PCE tools. ✓

What is the purpose of stuffing Box  
 \* To ensure sealing with crowd moving or stationary solid wireline at the upper end of the tubercator during wireline operations. ✓

How to operate Stuffing Box  
 \* Can be operated either manually or hydraulically without part modifications. ✓

What is maintenance required for Stuffing Box  
 \* Changing packing ✓  
 \* Removed the packing nut ✓  
 \* Removed upper gland ✓

What is safety precaution required for Stuffing Box  
 \* Check the packing whether worn out or not ✓  
 \* Check the correct size the sleeve ✓

*(Signature)*  
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 Dimension Bid (M) Sdn Bhd  
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

**JOB HAZARD ANALYSIS**

LOCATION	DB Labuan Warehouse	DATE	7 March 2022
TASK	Chipping Equipment (Power Pack)	JHA REFERENCE NO.	
WORK SITE	DB Workshop	ASSESSMENT TEAM	SAIDED EYES@YAW

Job Step	Potential Hazard	Control Measures
<ul style="list-style-type: none"> <li>• Toolbox Meeting</li> </ul>	<ul style="list-style-type: none"> <li>• Not fully understand the job details before starting the process</li> <li>• Crowded / clash of work at workshop area.</li> <li>• Other personnel not aware surrounding working area.</li> <li>• Unauthorized personnel entering working area.</li> <li>• COVID19 virus infection.</li> </ul>	<ul style="list-style-type: none"> <li>• Raise questions during meeting</li> <li>• Inform the hazards involved at place of work</li> <li>• Barricade working area to prevent any unauthorized personnel to enter</li> <li>• Social distancing. Wear mask at crowded places. Wash hand &amp; sanitize hand.</li> </ul>
<ul style="list-style-type: none"> <li>• Arrange Power Pack to work area using forklift</li> </ul>	<ul style="list-style-type: none"> <li>• Dropped object (static &amp; dynamic)</li> <li>• Forklift incident.</li> <li>• Poor visibility due to bad weather.</li> <li>• Fatigue &amp; dehydration.</li> <li>• Rushing during do the job.</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect the lifting gears/sling before use</li> <li>• Authorized personnel using the forklift.</li> <li>• Stop work during bad weather condition.</li> <li>• Take 5 minute to rest &amp; drink more water.</li> <li>• Do time arrangement properly.</li> </ul>
<ul style="list-style-type: none"> <li>• Chipping equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Skin injury &amp; fume inhalation from painting (chemical exposure)</li> <li>• Hand/finger injury</li> <li>• Hearing impairment</li> </ul>	<ul style="list-style-type: none"> <li>• Wear proper PPE (impact glove and ear plug/muff &amp; face shield) during the job</li> </ul>
<ul style="list-style-type: none"> <li>• Housekeeping</li> </ul>	<ul style="list-style-type: none"> <li>• Slip, trip &amp; fall</li> <li>• Time management</li> <li>• Fatigue</li> <li>• Working area not secured.</li> </ul>	<ul style="list-style-type: none"> <li>• Eliminated any potential hazard of slip, trip &amp; fall</li> <li>• Supervision, planning &amp; time management</li> <li>• Take 5 to rest &amp; drink more water.</li> <li>• Wear proper PPE.</li> </ul>

Work Activity Participants			
Name	Position	Perform Job Before?	Signature
HENRIKEN	SE	YES	
SAIDEP IANS	SE	YES	

This JHA created by		
Name	Discipline	Position




WORK ACTIVITY RESPONSIBILITY	JHA SUBMITTED BY	JHA ACCEPTED BY
Work Leader	Receiving Authority (Supervisor)	Approving Authority (SHO)
Name: HENRIKEN	Name: <b>LEONARD RAEYONG</b>	Name: FADZLIN MOHAMAD IBRAHIM
Signature: 	Signature: Maintenance Manager	Signature: 
Date: 24/03/2022	Date: <b>Dimension Bid (M) Sdn Bhd</b>	Date: 24/3/2022

24 MAR 2022 Labuan Warehouse Slickline Services 





LOCATION	DB LABUAN WAREHOUSE	DATE:	
TASK	LIFTING USE FORKLIFT EQUIPMENT POWER PACK	JHA REFERENCE NO.	
WORK SITE	WORKSHOP AREA	ASSESTMENT TEAM	

JOB STEP	POTENTIAL HAZARD	CONTROL MEASUREMENT	RESULT
TOOL BOX MEETING	DIDN'T FOCUS DURING MEETING. CROWDED/CLASH AT WORK AREA. UNAUTHORIZED PERSONNEL. OTHER PERSONNEL NOT AWARE SORROUNDING WORKING AREA.	FOCUS AND TAKE NOTE DURING MEETING. RAISE QUESTION DURING MEETING OR DURING Q&A. BARRICADE WORKING AREA OR PUT IT ARE SIGNAGE.	ACCEPTABLE
LIFTING USE FORKLIFT	USING EXPIRED OF SLING. FORKLIFT INCIDENT. DROP OBJECT. PINCH POINT. FATIGUE. ROUTE FOR FORKLIFT/POTHOLES.	CHECK THE CONDITION OF SLING AND EXPIRED DATE BEFORE USING. AUTHORIZED PERSONNEL FOR FORKLIFT. DON'T STAY NEAR DURING LIFTING ACTIVITY. WEAR PROPER GLOVE SUCH IMPACT GLOVE. MANAGE THE TIME PROPERLY TO AVOID WORK RUSHING. BRING THE FORKLIFT CAREFULLY WHILE MOVING.	ACCEPTABLE
LIFTING EQUIPMENT	FORKLIFT CONDITION. SLING CONDITON. LIFTING AREA	CHECHK BEFORE USING THE FORKLIFT IN A GOOD CONDITION. CHECK THE SLING BEFORE USE. MAKE SURE UNOBSTRUCTED LIFTING AREA BEFORE START THE LIFTING ACTIVITY.	ACCEPTABLE



Work Activity Participants			
Name	Position	Perform Job Before?	Signature
HENRIKEN	SE	YES	
SAHDED EYES	SE	YES	
MARBYNY	SE	YES	

This JHA created by		
Name	Discipline	Position
FAKHRUL HAZIM	SLICKLINE	MT



WORK ACTIVITY RESPONSIBILITY	JHA SUBMITTED BY	JHA ACCEPTED BY
Work Leader Name:- HENRIKEN Signature:-  Date:- 24/03/2022	Receiving Authority (Supervisor) <b>LEONARD KALYONG</b> Maintenance Manager Signature:  Date:- 24 MAR 2022 Labuan Warehouse Slickline Services	Approving Authority (SHO) Name:- FADZLIN MOHAMAD IBRAHIM Signature:-  Date:- 






LOCATION	DB LABUAN WAREHOUSE	DATE:	
TASK	PAINTING SKID EQUIPMENT	JHA REFERENCE NO.	
WORK SITE	WORKSHOP AREA	ASSESTMENT TEAM	

JOB STEP	POTENTIAL HAZARD	SONTROL MEASUREMENT	RESULT
TOOL BOX MEETING	DON'T UNDERSTAND THE JOB DETAIL TO DO. UNAUTHORIZED PERSONNEL. OTHER PERSONNEL NOT AWARE SORROUNDING WORKING AREA.	RAISE QUESTION DURING MEETING OR DURING Q&A. BARRICADE WORKING AREA OR PUT IT ARE SIGNAGE. INFORM THE HAZARDS INVOLVE AT AREA WORKPLACE.	ACCEPTABLE
PAINTING EQUIPMENT	FUME INHALATION FROM PAINTING (CHEMICAL EXPOSURE). LUNG DIESASE.	WEAR PROPER PPE SUCH RESPIRATORY TO AVOID INHALING THE SMELL OF PAINT DURING PAINTING ACTIVITY.	ACCEPTABLE
PAIN APPLICATION	INHALE FUMES POSSIBLE HAND INJURY DURING OPENING PAINT CAN. SKIN DAMAGE. BACK OR SHOULDER INJURY.	WEAR RESPIRATORY MASK. USE SOMETHING TO OPEN THE PAINT CAN. USE THE RIGHT GLOVE DURING PAINT THE EQUIPMENT. USING THE RIGHT MANUAL HANDLING OR TECHNIQUE DURING LIFTING THE ITEM.	ACCEPTABLE



Work Activity Participants			
Name	Position	Perform Job Before?	Signature
HENRIKSEN	SE	YES	
SKIDED ERS	SE	YES	

This JHA created by		
Name	Discipline	Position
FAKHRUL HAZIM	SLICKLINE	MT

WORK ACTIVITY RESPONSIBILITY	JHA SUBMITTED BY	JHA ACCEPTED BY
<b>Work Leader</b> Name:- HENRIKSEN Signature:-  Date:- 24/03/2022	<b>Receiving Authority (Supervisor)</b> Name:- <b>LEONARD RAEYONG</b> Signature:- Maintenance Manager Date:- 24 MAR 2022 Labuan Warehouse Slickline Services 	<b>Approving Authority (SHO)</b> Name:- FADZLIN MOHAMAD IBRAHIM Signature:-  Date:- 24/3/2022



# FATIGUE AT WORKPALCE

PRESENT BY  
SAIDED EYES  
SYAIFUL



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# **How To Recognize Fatigue in A Worker**

## **1.Lapse of concentration/alertness**

It is uncommon for people to experience lapses in concentration and alertness when they are tired.

## **2. A prevailing state of sleepiness and drowsiness**

When you observed a worker with a sleepy look in their eyes, it could be an indication of fatigue.

## **3.Difficulty in remembering details.**

Difficulty in remembering simple basic things such as the time of day when they finished their work, what tasks were completed and who they are working with is a sign that fatigue could be a factor.

## **4. lack of motivation to complete tasks at hand.**

When the body lack energy, it is difficult for a person to work up the desire to get things done.



# **Consequences of Fatigue at Workplace**

## **1. Increased risks of incidents and injuries**

Fatigue workers are less aware of their surroundings and do not notice hazards and are prone to safety violations.

## **2. Increase health risks**

A lack of sleep can also lead to increased risk of health problems such as heart disease, obesity, diabetes and even cancer as well as longer term adverse health outcome such as chronic fatigue syndrome, myalgia, and burnout syndrome.

## **3. Diminished productivity**

No matter how strong the workforce, if they are tired from being overworked, it will affect their productivity and performance.

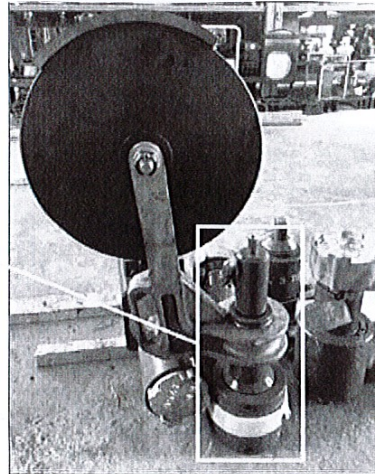
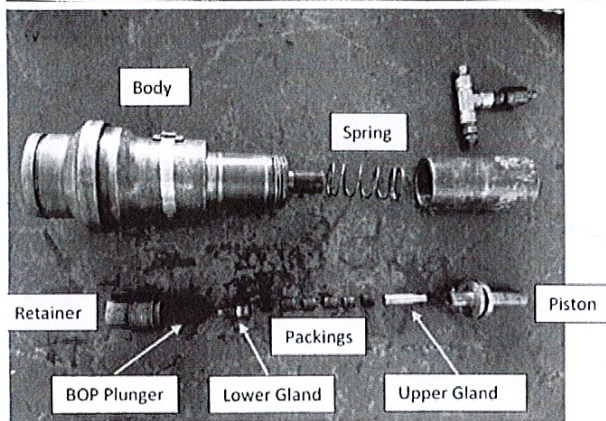




What is potential hazard during handling Stuffing Box

*leakage on packed Stuffing Box  
A wireline breaks.*

Draw & name each part of stuffing box



*[Signature]*  
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*GAZALI MEHRY  
Operation Manager  
Dimension Bid (M) Sdn Bhd  
(East Malaysia Operation)*

2. Lubricator

What is Lubricator

enables -  
nearbenorkon

\* Lubricator enables the wireline tools string and equipment to be inserted or removed from well under pressure.

\* Long high pressure pipe fitted to the top of wellhead or X-Mas tree.

What is the purpose of Lubricator

\* Lubricator enables the wireline tool string and equipment to be inserted or removed from well under pressure.

How to operate Lubricator

- \* By using chain block
- \* Wireline mast
- \* Crane / simple mast

What is maintenance required for Lubricator

- \* Inspection on the body NPS Composites
- \* Partial inspection.

What is safety precaution required for Lubricator

- \* Lubricator should be inspected.
- \* The selected pressure rating/limit.
- \* Lower section has a pump to bleed off.

What is potential hazard during handling Lubricator

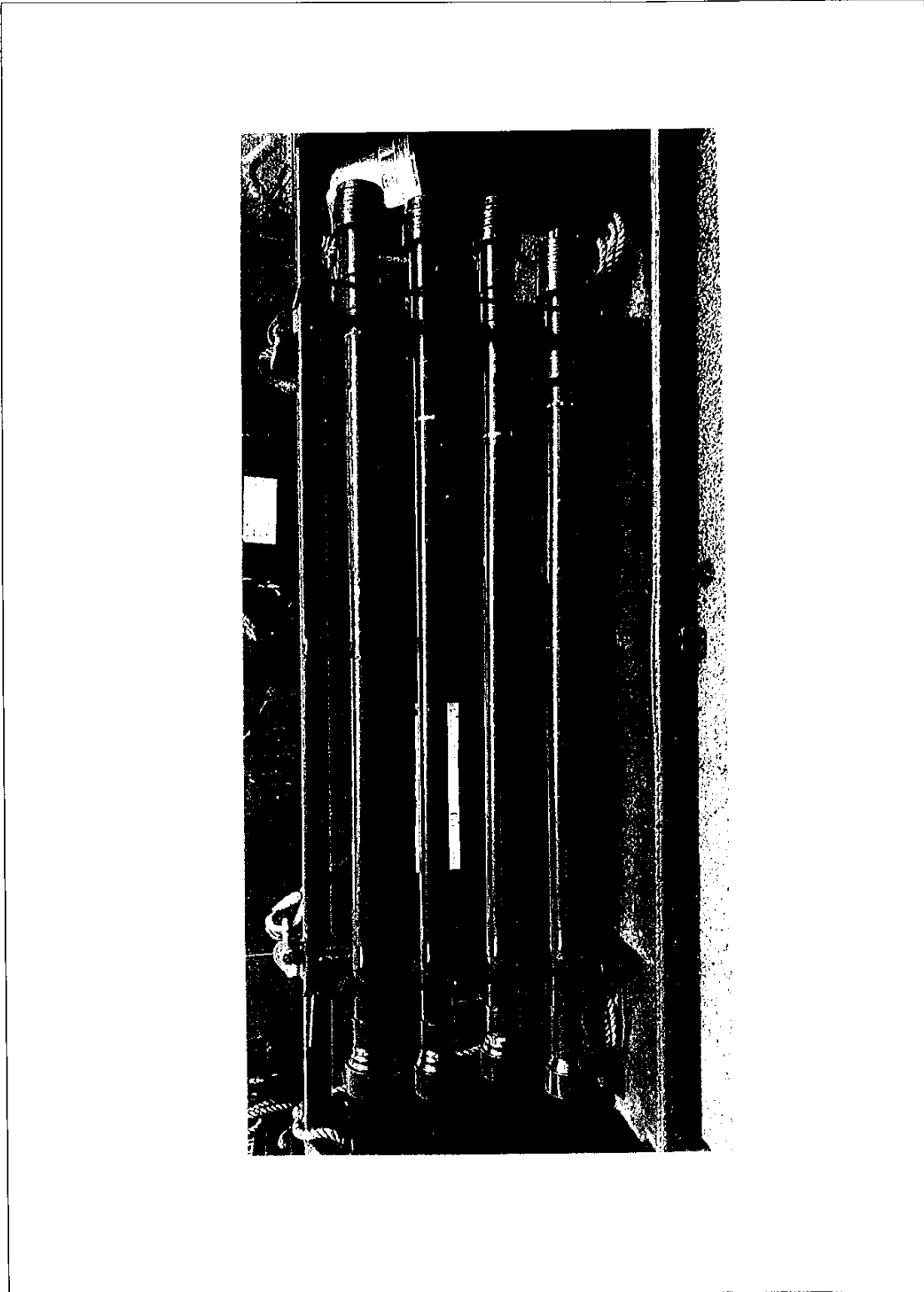
- \* Wire tracking can cause by wire cutting inside well
- \* Deep object.
- \* Spinel fault.

  
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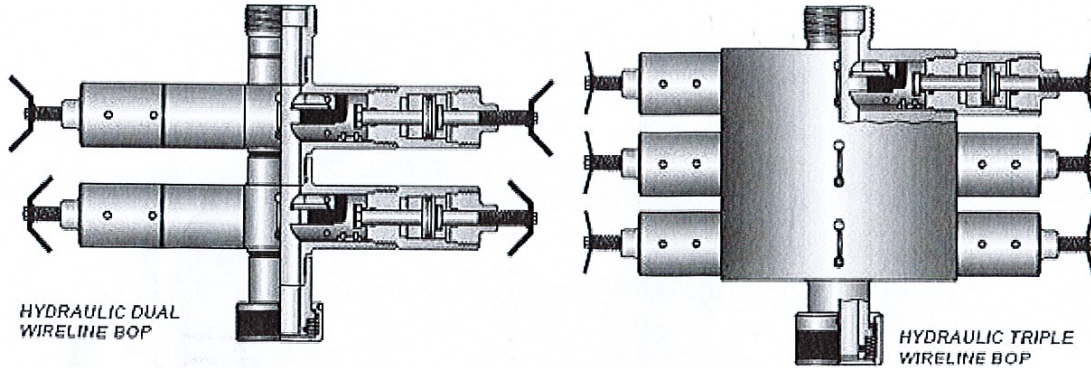


**Draw & name each part of Lubricator**





3. Blowout Preventer (BOP)



What is BOP

\* BOP is a piece of pipe. Installed at the top of x-mas tree below indicators

What is the purpose of BOP

\* Acts as a barrier, used to seal, control and monitor oil & gas wells to prevent blowout.

How to operate BOP

\* manually & hydraulically  
\* RSV and mast unit.

What is maintenance required for BOP

\* must be serviced and need to be pressure tested.

What is safety precaution required for BOP

\* Ensure the rod has enlarged diameter below the ram to prevent it being blown out during testing.

  
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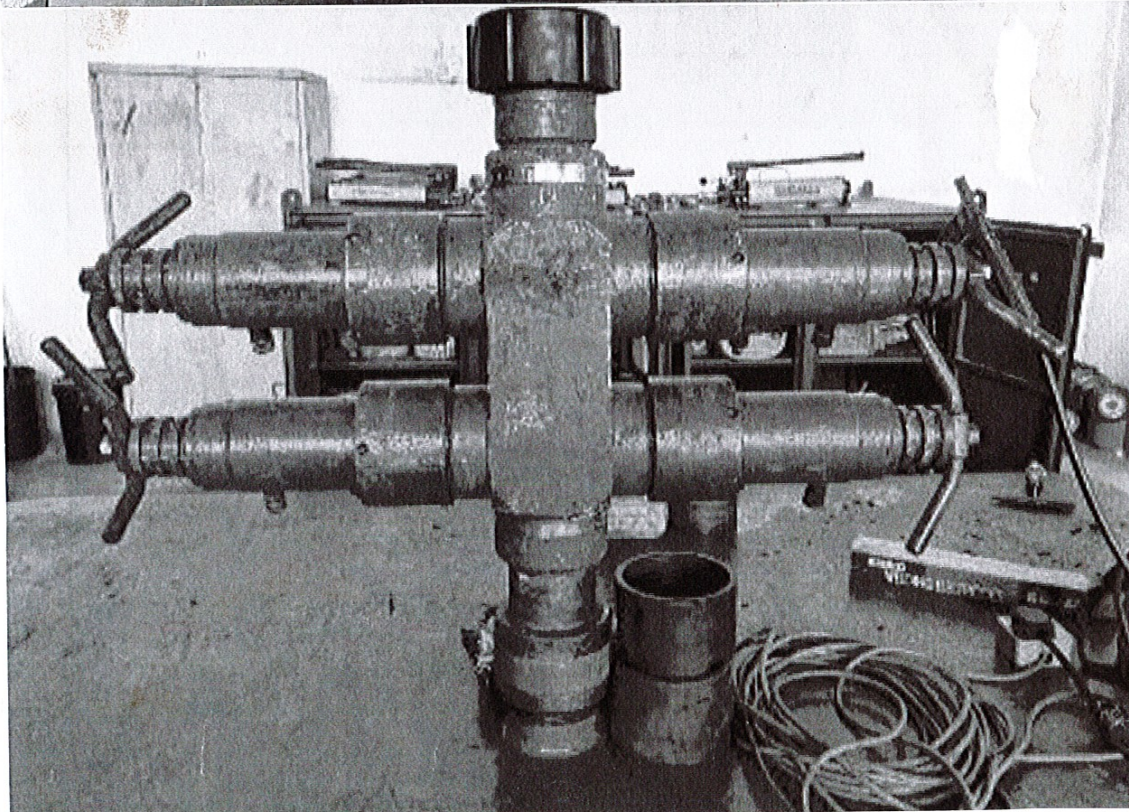
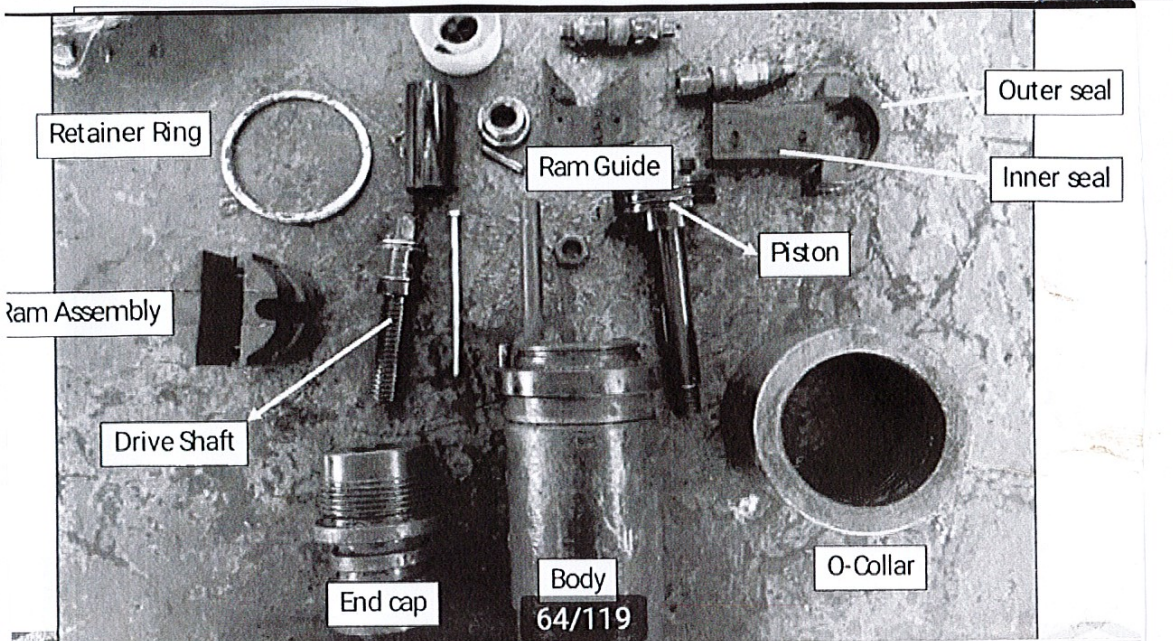
What is potential hazard during handling BOP

*\* Pinch point  
\* Drop objects*

*[Signature]*  
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Draw & name each part of BOP





4. X-Mas Tree

What is x-mas tree

- \* X-Mas Tree is a series of valves installed on wellhead to control flow of fluids from well.
- \* Types consist of single composite tree, single solid block tree, dual solid block tree.

What is the purpose of x-mas tree

- \* To control flow of well fluids or gas during production.
- \* Shut valves is usually used for wireline operations

How to operate x-mas tree

- \* manually operated and hydraulically actuated,

What is maintenance required for x-mas tree

- \* physical inspection
- \* pressure test
- \* function test
- \* cleaning
- \* painting & repair/replacement of parts (valves, actuator, cap fittings)

What is safety precaution required for x-mas tree

- \* Do not over-tighten the valves during opening/closing.
- \* Many types have shear pin between handle & stem, which will shear if excessive force is applied to protect the valves internal component.
- \* Never use matters valve to shut in the flowing well / use swab/wing valves instead.

What is potential hazard during handling x-mas tree

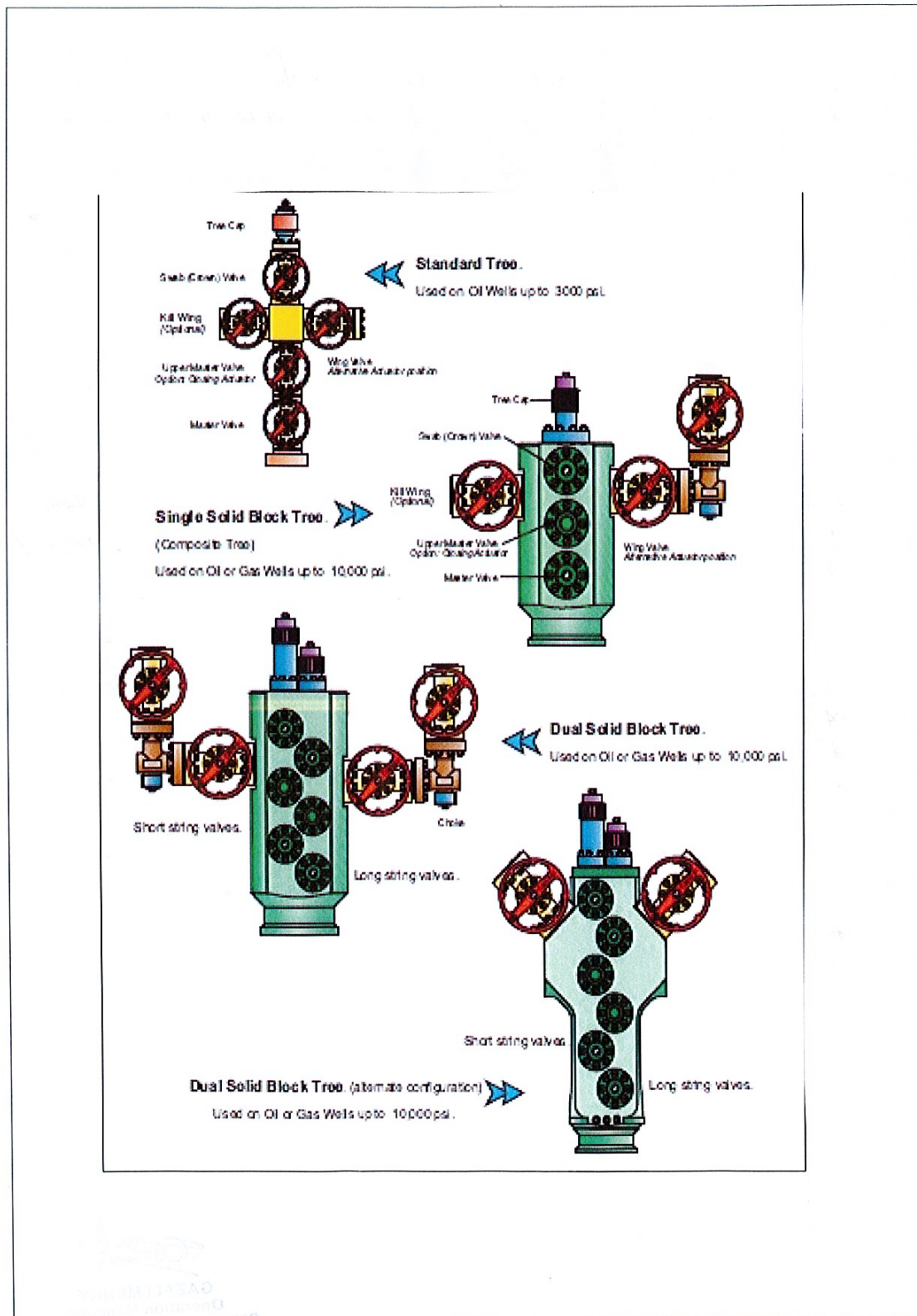
- \* Blowout.

  
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**Draw & name each part of x-mas tree**





5. Wireline Reel Skid Unit (RSU) / Winch – Single Drum and Double Drum

What is RSU

\* Done & Certified equipment with associated sensors  
\* equipped with safety device, weight indicator & depth counter.

What is the purpose of RSU

\* To spooling the wire into and out of well winch  
to lower down and retrieve down hole tools.

How to operate RSU

\* By using powerpack and a winch (hydraulic system)  
\* Transmission of hydraulic hole via hose between powerpack & RSU.

What is maintenance required for RSU

\* Ensure gear in a natural position  
\* Check device chain tension  
\* attend make on.

What is safety precaution required for RSU

\* Be careful with the wire when running,  
because might break.

What is potential hazard during handling RSU

\* pinch point  
\* Wire Breaks.

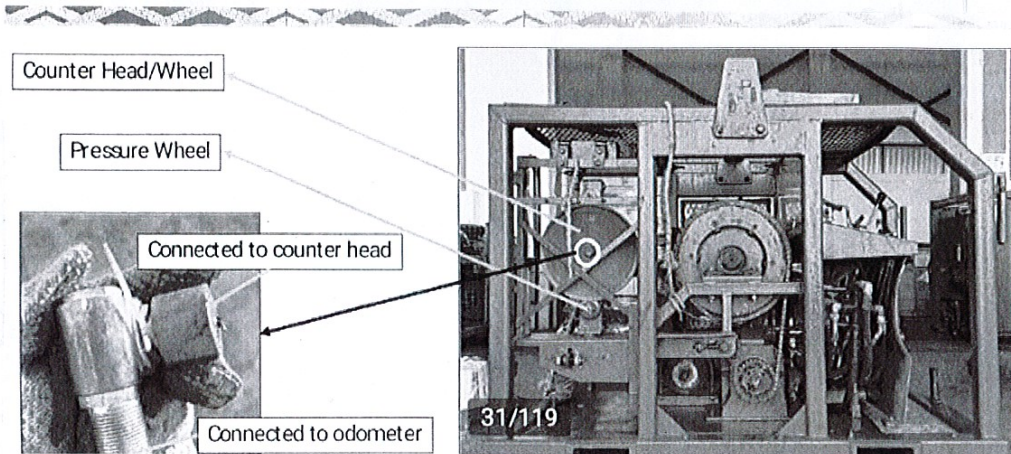
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Draw & name each part of RSU

Basic Control  
 ① Drum brake  
 ② Direction lever  
 ③ Hydraulic Control Valve (AA)  
 ④ Weight indicator  
 ⑤ Odometer  
 Reel skid unit



Note:- working pressure 2,200 to 2800 psi  
 Spooling Tension Wire 300 lbs to 400 lbs  
 Use hydraulic oil to supply power from Power pack

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6. Odometer

What is Odometer

\* Counter depth.

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What is the purpose of Odometer

\* Used for measuring depth of wire in well bore during wireline operations.

---



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How to operate Odometer

\* Connect hose to right angle drive and put the odometer for RSU for monitoring.

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What is maintenance required for Odometer

\* Check if counter lead is free to rotate.  
\* Check if odometer is fully re-engaged after rest.  
\* If depth is not tally, it must be replaced.

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What is safety precaution required for Odometer

\* wear full PPE.

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What is potential hazard during handling Odometer

\* pinch point  
\* sharp edges.

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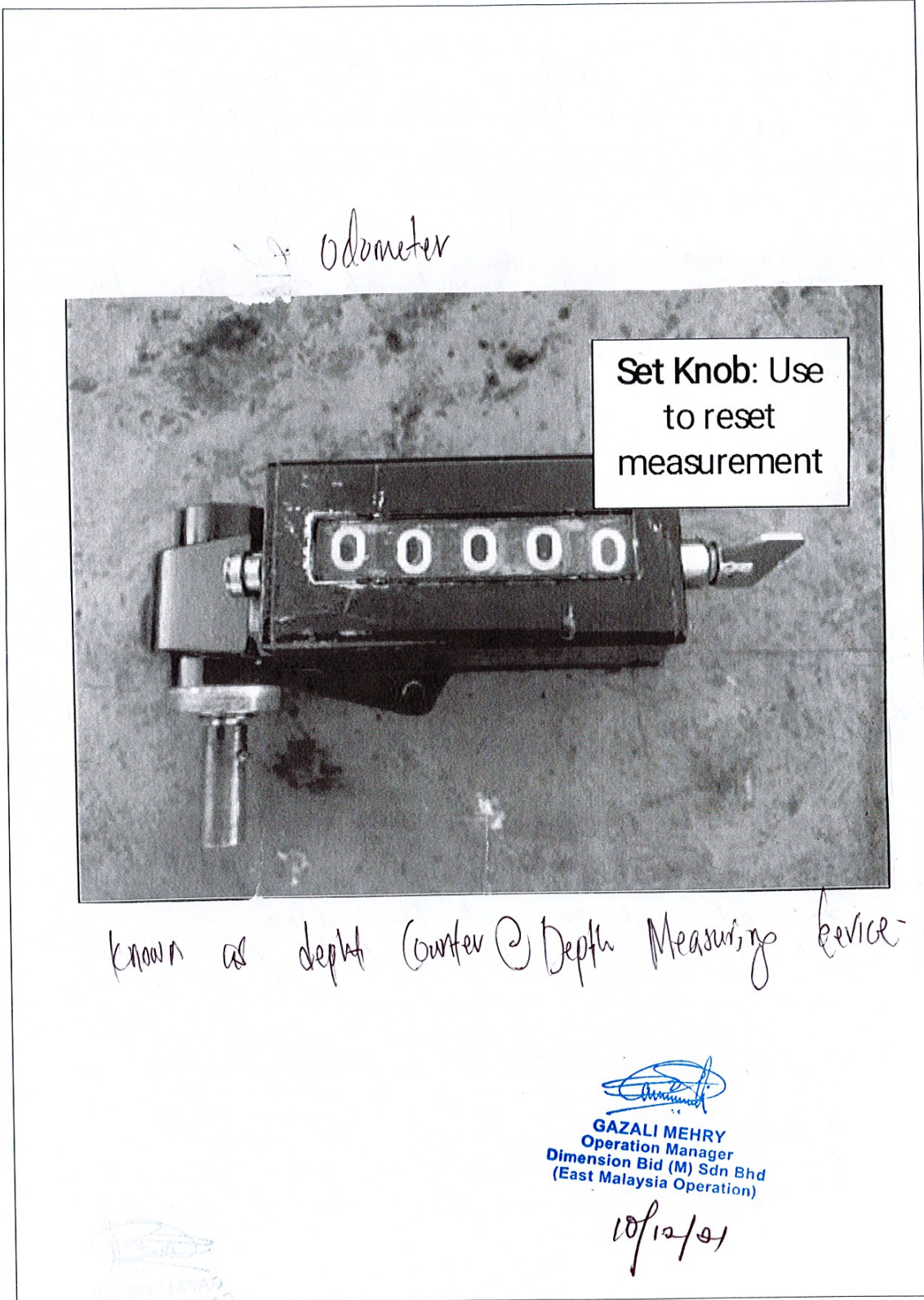
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Draw & name each part of Odometer





7. Weight indicator (200 lbs and 4000 lbs)

What is Weight Indicator

\* the device that is connected to cell indicator using a rubber hose filled with hydraulic hose.

What is the purpose of Weight Indicator

\* to determine the weight of tool string at the end of wireline  
\* To estimate the points of contact of two different fluids in tubing strings.

How to operate Weight Indicator

\* by using hydraulic system

Kinked,  
wire break.

What is maintenance required for Weight Indicator

\* Check the hose and change if there is any leak.  
\* Refill the w-ls fluids with y-pum.

What is safety precaution required for Weight Indicator

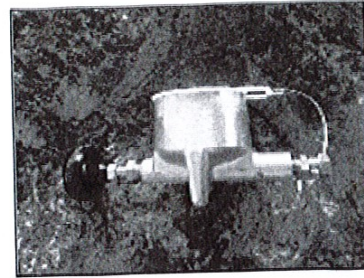
\* Do not crush or cut the hose  
\* enough the load cell so that the hose leaves the cell towards the tree and is not kinked

What is potential hazard during handling Weight Indicator

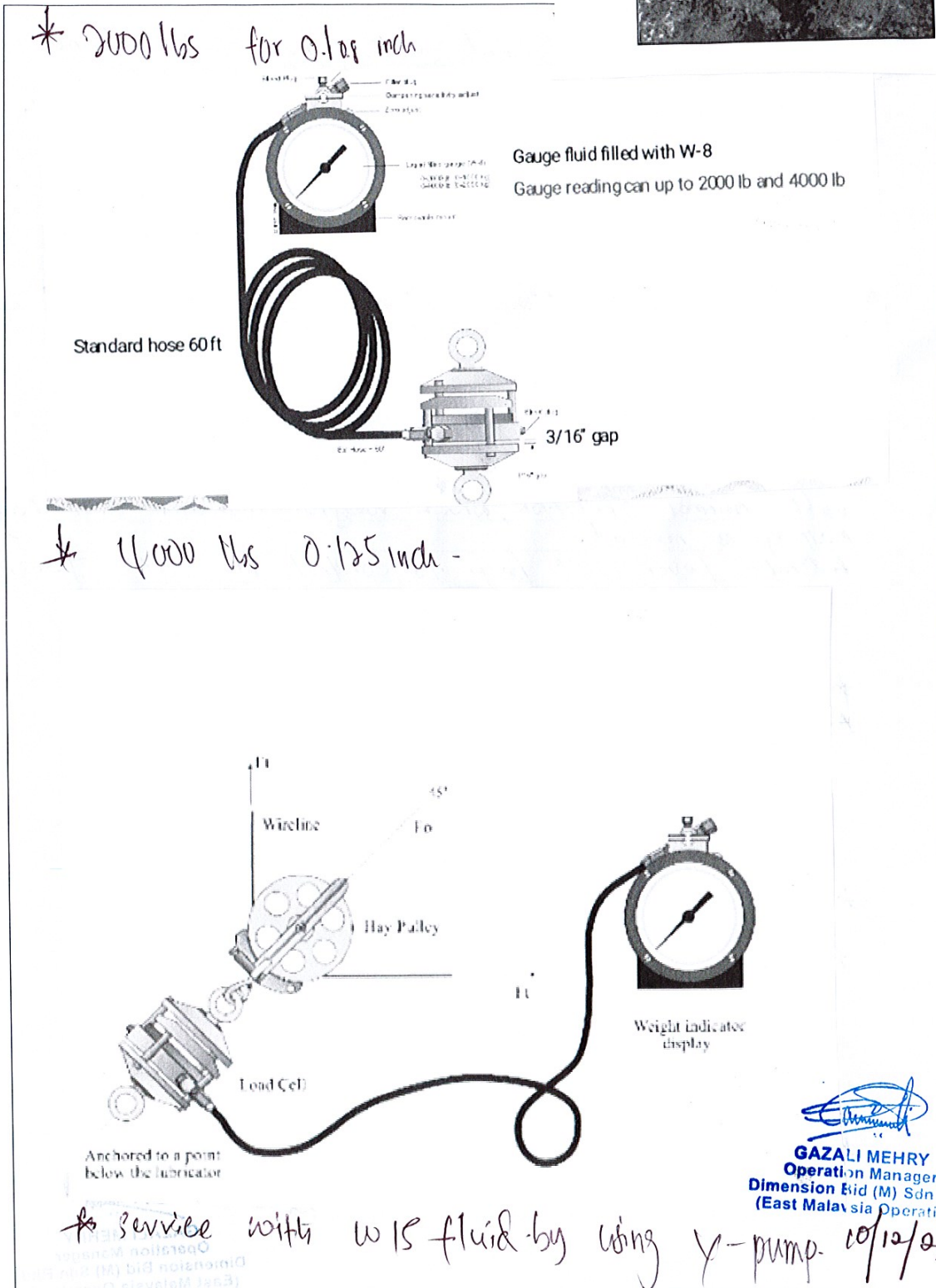
\* Drop  
\* if not give attention to weight indicator might be the resulted tension will cause wireline to break.

  
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**Draw & name each part of Weight Indicator**





8. Spooling Device

What is Spooling Device

\* Generally are configured with removable drum that allows transfer spools to be inserted allowing the new string to be spooled onto reel.

What is the purpose of Spooling Device

\* To hold the reel during spooling process  
\* Control the tensioning of line as it is spooled.

How to operate Spooling Device

\* Assemble the reel. The setup is almost the same with normal operation, which weight indicator and lay pulley is needed.  
\* Brake lever will help to control the line tension.

What is maintenance required for Spooling Device

\* Brake maintenance  
\* Hydraulic system.

What is safety precaution required for Spooling Device

\* make sure to check the level glass in good condition before start the job.  
\* Belts and sub (shaft) are in good condition.

What is potential hazard during handling Spooling Device

\* High decibel operation  
\* pinch point  
\* wire parted.

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**Draw & name each part of Spooling Device**



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9. Control Panel

What is Control Panel

\* Device used to operate BOP, safety valves and other ppe equipments.

What is the purpose of Control Panel

\* To Control the PLE equipment such as,  
- BOP  
- safety valve  
- Shutting Box

How to operate Control Panel

\* Connect the control line to the equipments  
\* open air supply use regulator to control pump but pressurized the line

What is maintenance required for Control Panel

\* Fluid level of hydraulic oil  
\* Disassemble all filter and replace for new one.  
\* Check the hydraulic hose for any sign of leakage or damage.

What is safety precaution required for Control Panel

\* Do not try to tighten or loose the connection when under pressure.  
\* Beware of trapped pressure by bleed off fully before connection open.

What is potential hazard during handling Control Panel

\* Connection loose.

  
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Draw & name each part of Control Panel



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*Pump*

10. Huskel Drum

*Pump*  
What is Huskel Drum

\* It is an air driven pump.

*Pump*  
What is the purpose of Huskel Drum

\* To drive the hydraulic or water in control panel or test pump.

*Pump*  
How to operate Huskel Drum

\* Operate from the knob or regulator at the panel  
\* its function allow the hydraulic piston to reciprocate without passing fluid into drive section.

*Pump*  
What is maintenance required for Huskel Drum

\* Check the main condition of O-ring  
\* Service huskel pump.  
\* hydraulic check valve & liquid seal repair.

*Pump*  
What is safety precaution required for Huskel Drum

\* Check condition of O-ring  
\* make sure connection tubing is in good condition

What is potential hazard during handling Huskel Drum

\* tubing burst  
\* pinch point.

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Draw & name each part of Huskel <sup>Pump</sup> Drum





11. Power Pack (Electrical & Diesel)

What is Power Pack

- \* hydraulically drive unit powered by diesel engine.
- \* Certified with a zone 2 equipment.

What is the purpose of Power Pack

- \* provide power to drive hydraulic oil via speed of hose/hydraulic hose move to drum at winch.
- \* provide the power (hydraulic) to reel.

How to operate Power Pack

- \* By operating several valves, adjust speed, power and rotation of drum.

What is maintenance required for Power Pack

- \* Check diesel level
- \* Check water level
- \* Battering fluid level
- \* Check oil level


What is safety precaution required for Power Pack

- \* Use rubber glove when changing hydraulic oil.
- \* make sure coolant and radiator hose are fully tighten.
- \* Do not open radiator cap while still fully tighten running power pack

What is potential hazard during handling Power Pack

- \* Hand injury
- \* Fire burst

power pack 2 types < 10V  
hoose power - 84.5  
SOP

  
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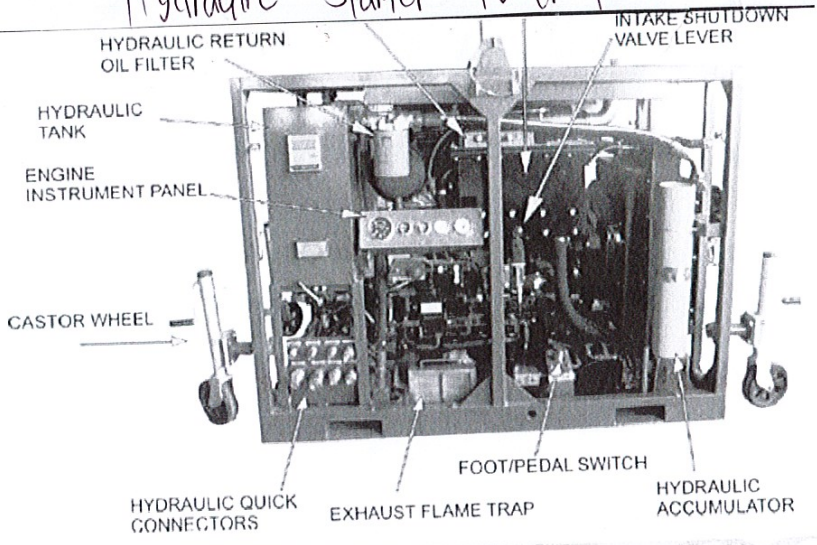
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**Draw & name each part of Power Pack**

- \* Emergency Shutdown -
- ① High coolant temperature  $\rightarrow 100^{\circ}\text{C}$
  - ② High exhaust temperature  $\rightarrow 240^{\circ}\text{C}$

**Hydraulic Starter Power pack.**



- \* Working pressure 2000 psi
- \* Supply driving hydraulic power to equipment (max 7 ksu)
- \* Hydraulic pp(sop) 2 feet long hose
- Supply hose : 1 inch
- Return hose : 1 1/4 inch

*[Signature]*  
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Auto Shutdown System  
 ① Overspeed. (21 rpm) (ota set).  
 ② Coolant temperature 99oc Auto stop.  
 ③ Exhaust temperature more 200<sup>o</sup>C.  
 } Auto emergency shutdown.  
 ④ engine oil pressure 15 l/min. auto stop.



12. Air Compressor

What is Air Compressor

\* A machine that air being compressed driven by diesel engine.

What is the purpose of Air Compressor

\* To supply compressed air for control panel, Test pump and air starter engine.

How to operate Air Compressor

\* Starting procedure is almost same with power pack.  
\* The air compressor usually use the spring starter, to crank the starter rotate the shaft clockwise until indicator fire red.  
\* Release spring to start engine.

What is maintenance required for Air Compressor

\* Change oil compressor  
\* Change filter  
\* Clean fan belt tension.

What is safety precaution required for Air Compressor

\* Ensure safety valve is fully functioning  
\* Make sure hose has no leaking.

What is potential hazard during handling Air Compressor

\* pinch point  
\* hot surface  
\* hose burst.

Air Compressor - 100-130

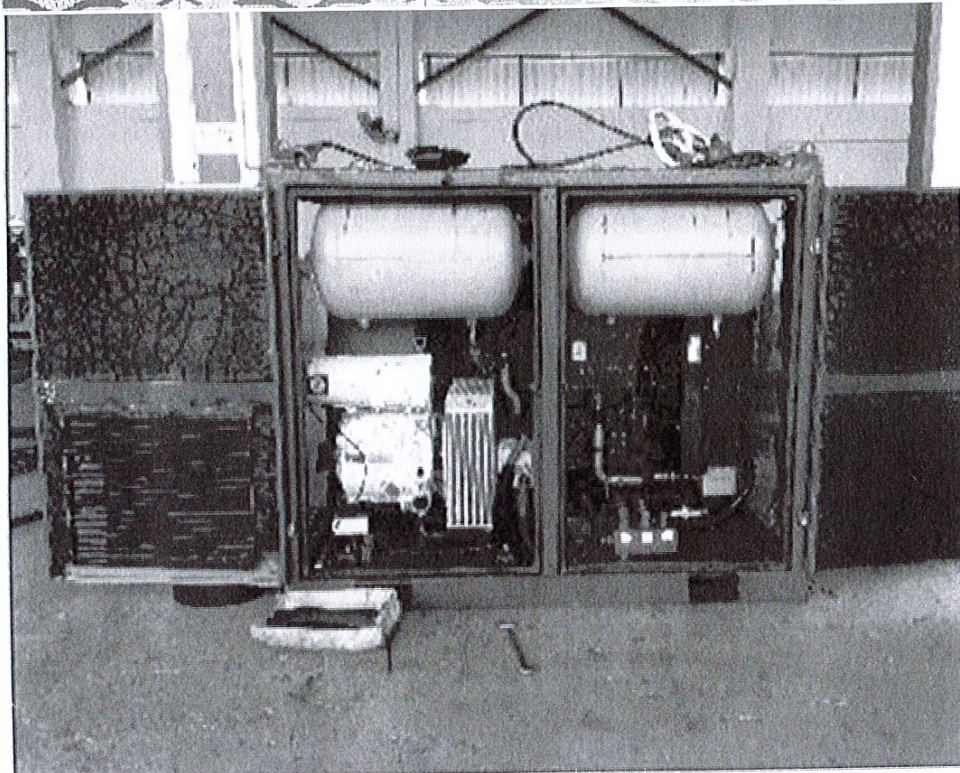
  
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- Draw & name each part of Air Compressor

Air Compressor



- \* Spring starter
- \* Working pressure 100 to 130psi
- \* Zone 2 Certified.

  
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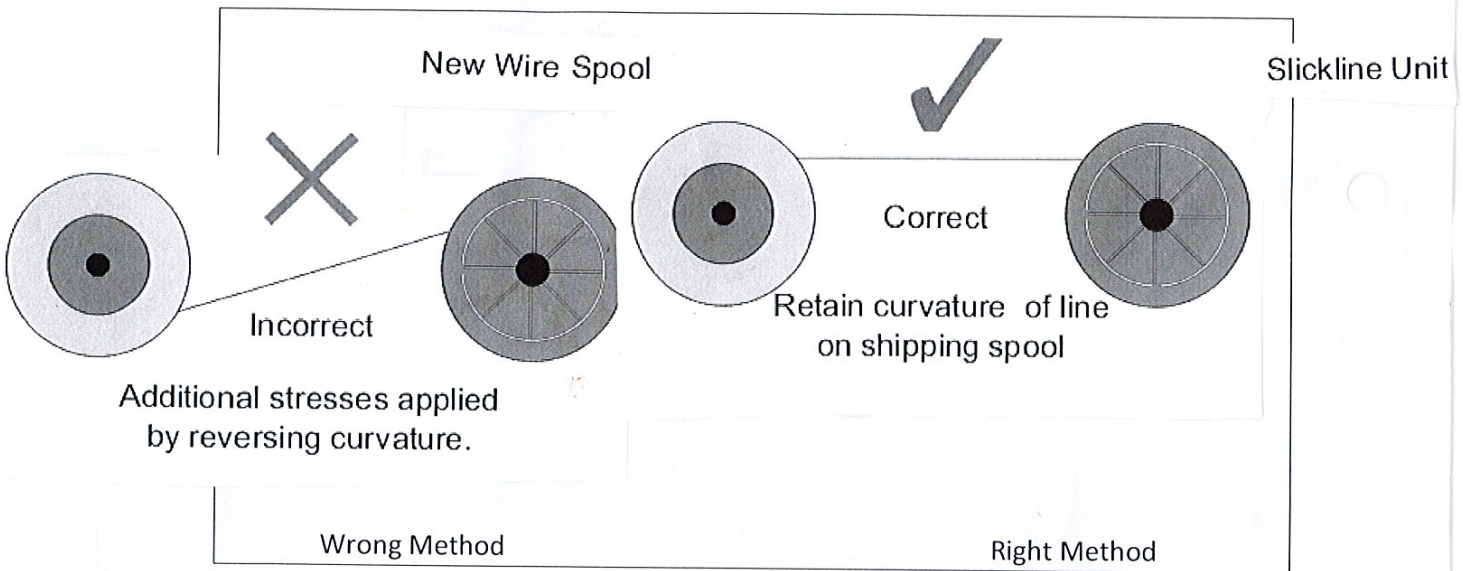
GAZALI MEHRY  
Operation Manager  
Dimension Bid (M) Sdn Bhd  
(East Malaysia Operation)

13. Drum

What is the purpose of Drum

\* to spool the wireline wire

Do the right and wrong wire arrangement from drum to haly pulley



What is maintenance required for Drum

\* Service the drum bearing.  
\* Change if there have any broken or damage

What is safety precaution required for Drum

\* Use tag line or push pull stick  
\* Make sure using safety stone and full ppe.

What is potential hazard during handling Drum

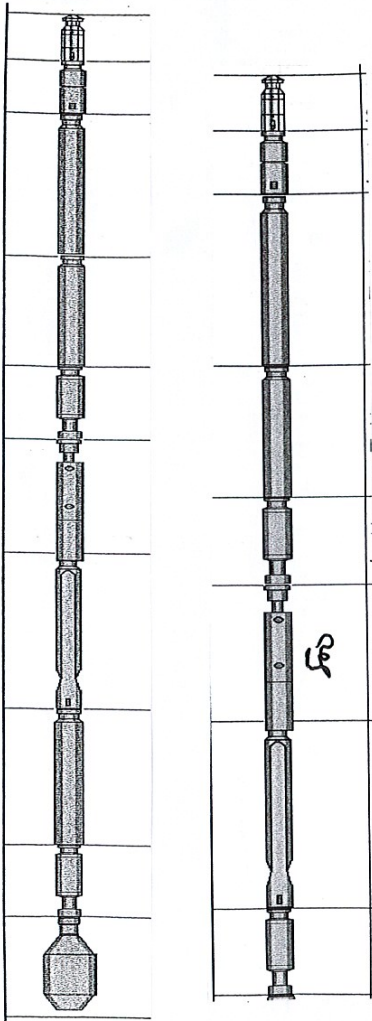
\* Back injury  
\* pinch point.

*[Signature]*  
**GAZALI MEHRY**  
Operation Manager  
Dimension Bid (M) Sdn Bhd  
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Please draw/sketch the toolstring configuration for:

- 1) Drift run/tubing clearance check
- 2) Sinker bar run
- 3) Set and retrieve plug
- 4) Set and retrieve insert valve



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