



SLICKLINE ASSISTANT WORKBOOK

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DATE OF JOIN	18/07/2022
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RECEIVED DATE	8/8/2022
DATE COMPLETED	

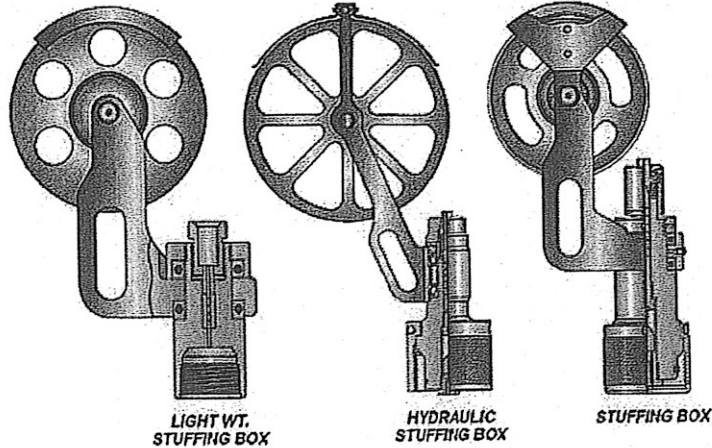

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B. SURFACE EQUIPMENT

1. Stuffing Box



What is Stuffing Box

At Primary Pressure Barrier

What is the purpose of stuffing Box

Allow the wire to enter the well under pressure

How to operate Stuffing Box

can be operate manually or hydraulic without part modification.

What is maintenance required for Stuffing Box

- check the packing are not worn, the check for wear and freedom of vertical movement for BOP Plunger, and also make sure bearing free spinning.

What is safety precaution required for Stuffing Box

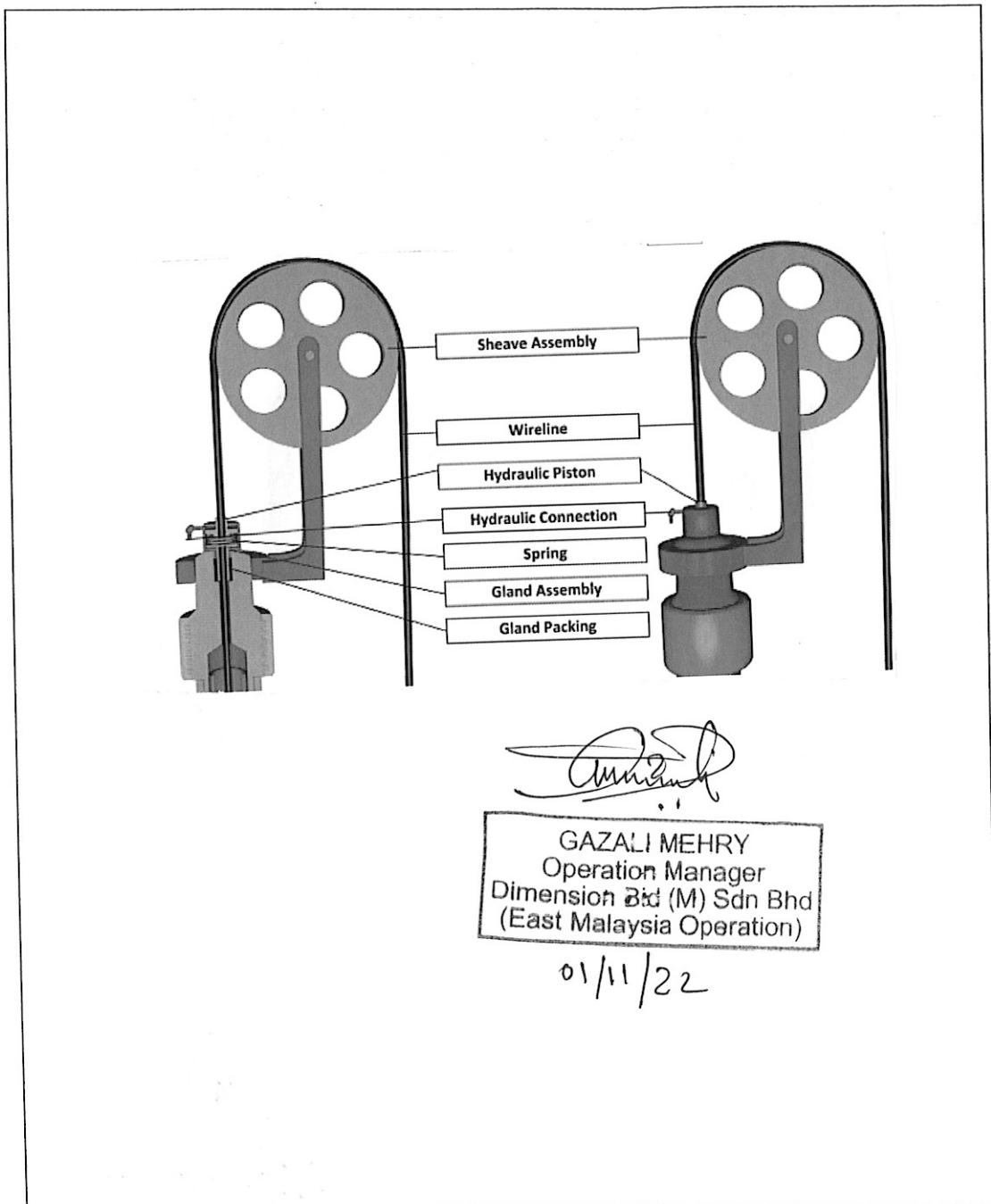
- check out correct size of the sheave.
- check the packing worn out or not.

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What is potential hazard during handling Stuffing Box

- wireline breaks
- leak in packing stuffing box.

Draw & name each part of stuffing box





2. Lubricator

What is Lubricator

Lubricators also known as risers, are series of connection of pipe.

What is the purpose of Lubricator

Allow Tools through the Lubricator with under pressure, during open and close the wellhead.

How to operate Lubricator

The tools through the lubricators and enter the Bop while Bop ram are open and through the x-mastree, and wellhead to the tubing well.

What is maintenance required for Lubricator

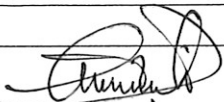
- check the box thread if there any damage
- check the O'ring at the pin if O'ring worn just change with the new ones.

What is safety precaution required for Lubricator

- The pin and box size
- if the needle valves on the lower section, was leaking replace the valves.

What is potential hazard during handling Lubricator

near miss → Probability Lubricator will fall during rig up, and hit our finger.


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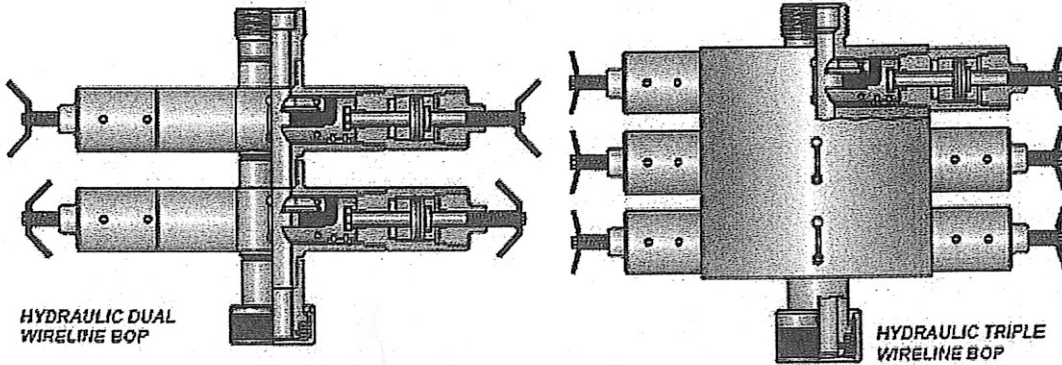
Draw & name each part of Lubricator



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3. Blowout Preventer (BOP)



What is BOP

- Also known as wireline valve, install between tree connection and lower riser section.

What is the purpose of BOP

- Allow slickline work under the well pressure
- Enable the well pressure to be isolated without cutting the wire.

How to operate BOP

What is maintenance required for BOP

Initial inspection - remove rams and cylinder, and inspect all seals and sealing surfaces, make sure all the parts in good condition.

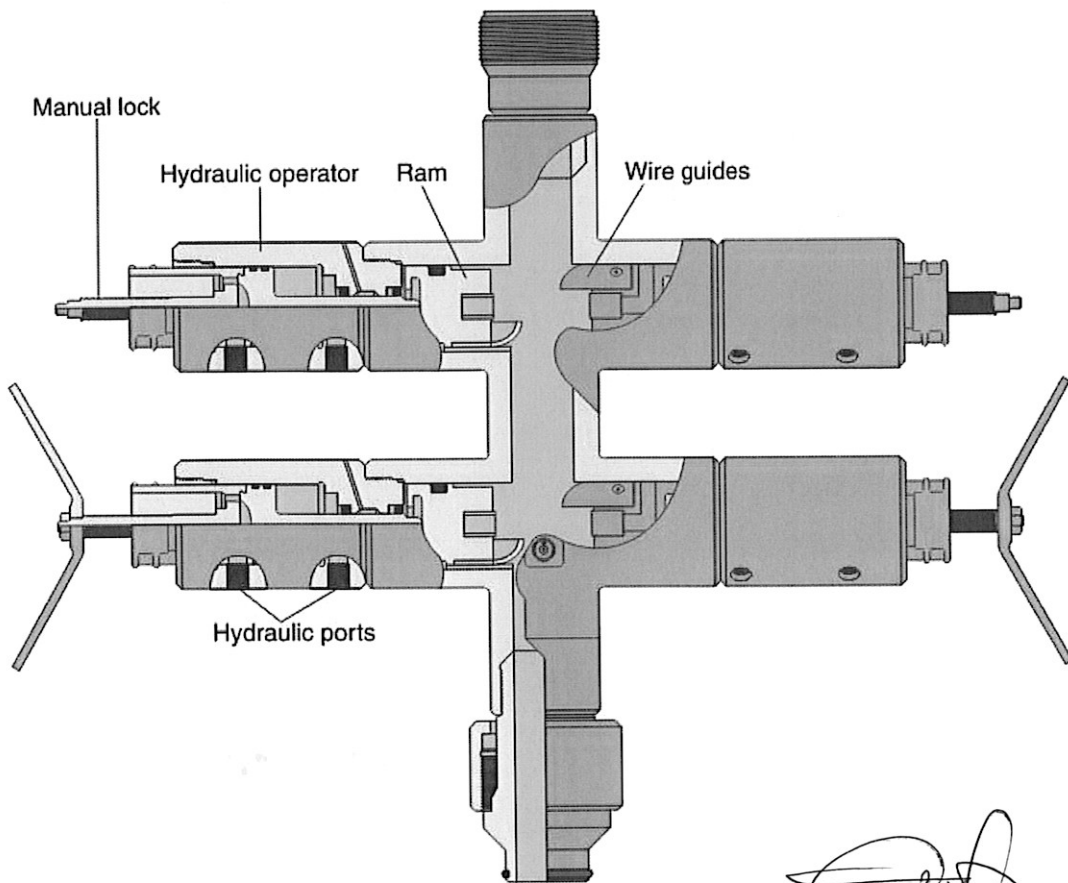
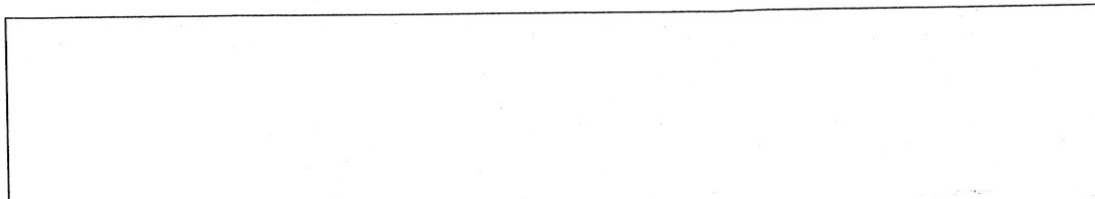
What is safety precaution required for BOP

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What is potential hazard during handling BOP

- Pinch Point
- Drop object
- back injury

Draw & name each part of BOP



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4. X-Mas Tree

What is x-mas tree

series of valves installed on the wellhead.

What is the purpose of x-mas tree

- To control flow of the well fluids, and access for well intervention work.

How to operate x-mas tree

- manually operated
- hydraulic activated.

What is maintenance required for x-mas tree

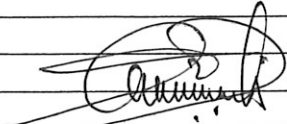
- function test
- pressure test cap and fitting
- cleaning
- Physical inspection - repair → valves, actuator, painting.

What is safety precaution required for x-mas tree

- Do not 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 components.
- never use master valve to shut in the flowing well (use wing valve, swab valve instead)

What is potential hazard during handling x-mas tree

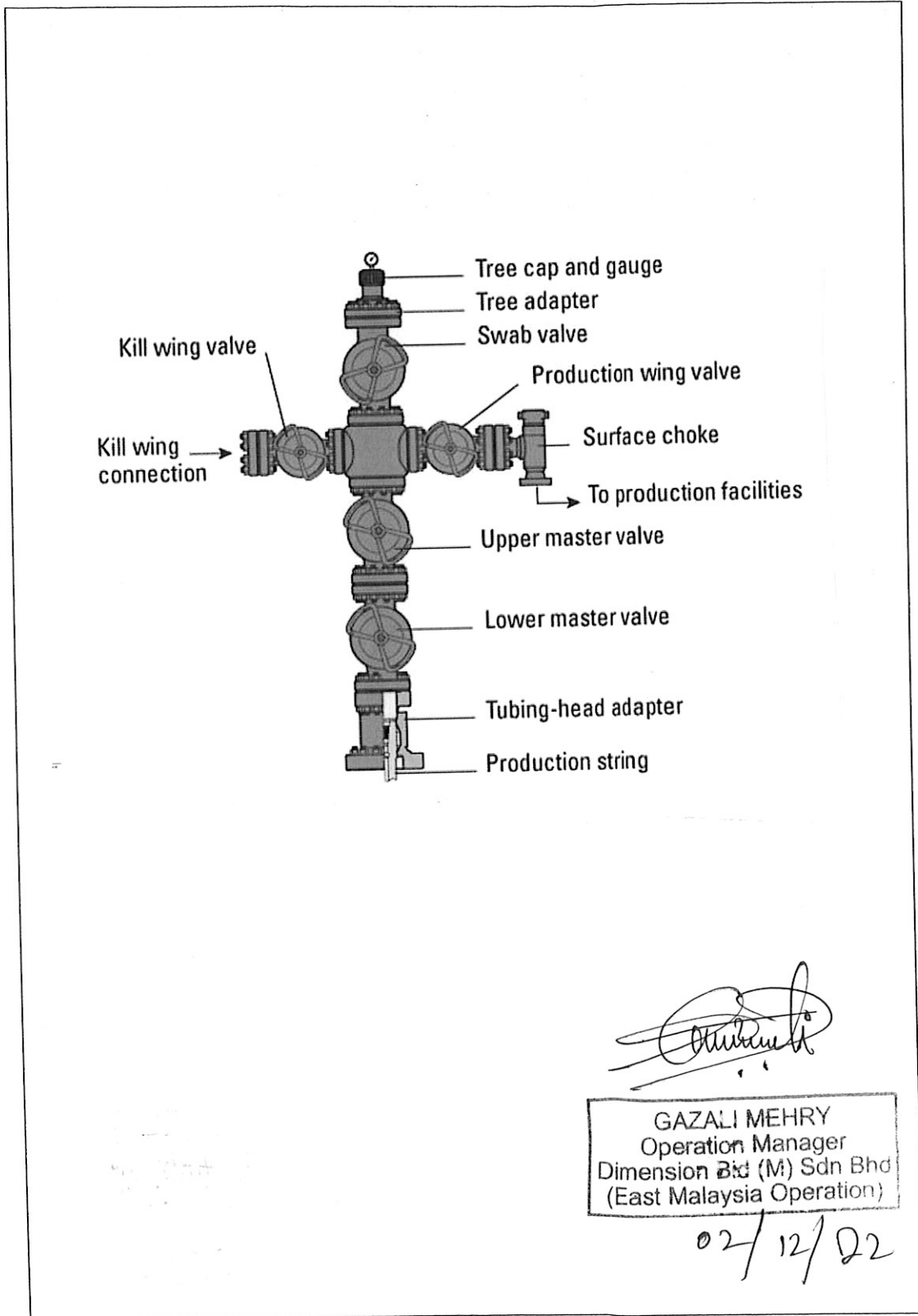
- Blow out.


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Draw & name each part of x-mas tree



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

What is RSU

- RSU is Reel skid unit.
- Zone 2 certified equipment.

What is the purpose of RSU

- To spool in and spool out wire.

How to operate RSU

- By using Power Pack and winch hydraulic system
- Transmission of hydraulic hose via hose between Power pack.

What is maintenance required for RSU

- Check device chain tension.
- Check the hand brake system.
- Ensure gear in a natural position.

What is safety precaution required for RSU

- Be careful with the wire/rotating drum winch when running, because it might break.

What is potential hazard during handling RSU

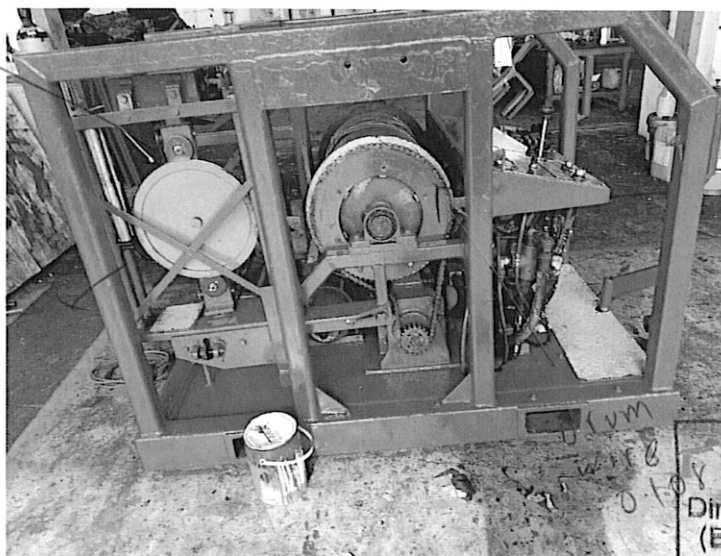
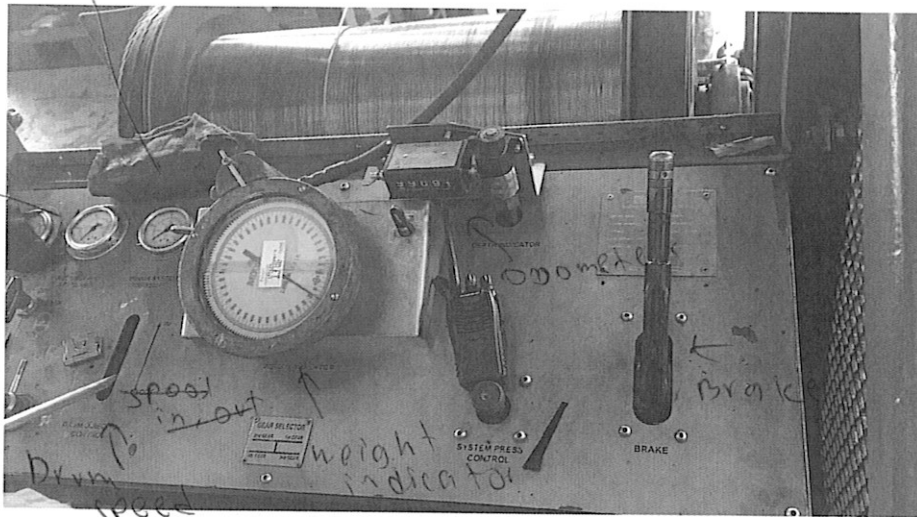
- Pinch point
- ~~wire~~ wire break.
- rotating drum winch



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Draw & name each part of RSU



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6. Odometer

What is Odometer

- counter depth
- is type with 2 pressure wheels and guide roller either side of counter head.

What is the purpose of Odometer

- used for measuring depth of wire in well bore during wireline operation.

How to operate Odometer

- connect hose to right angle drive and put the odometer to Rsv for monitoring.

What is maintenance required for Odometer

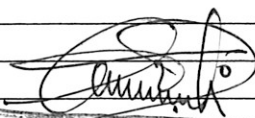
- check if counter head is free to rotate.

What is safety precaution required for Odometer

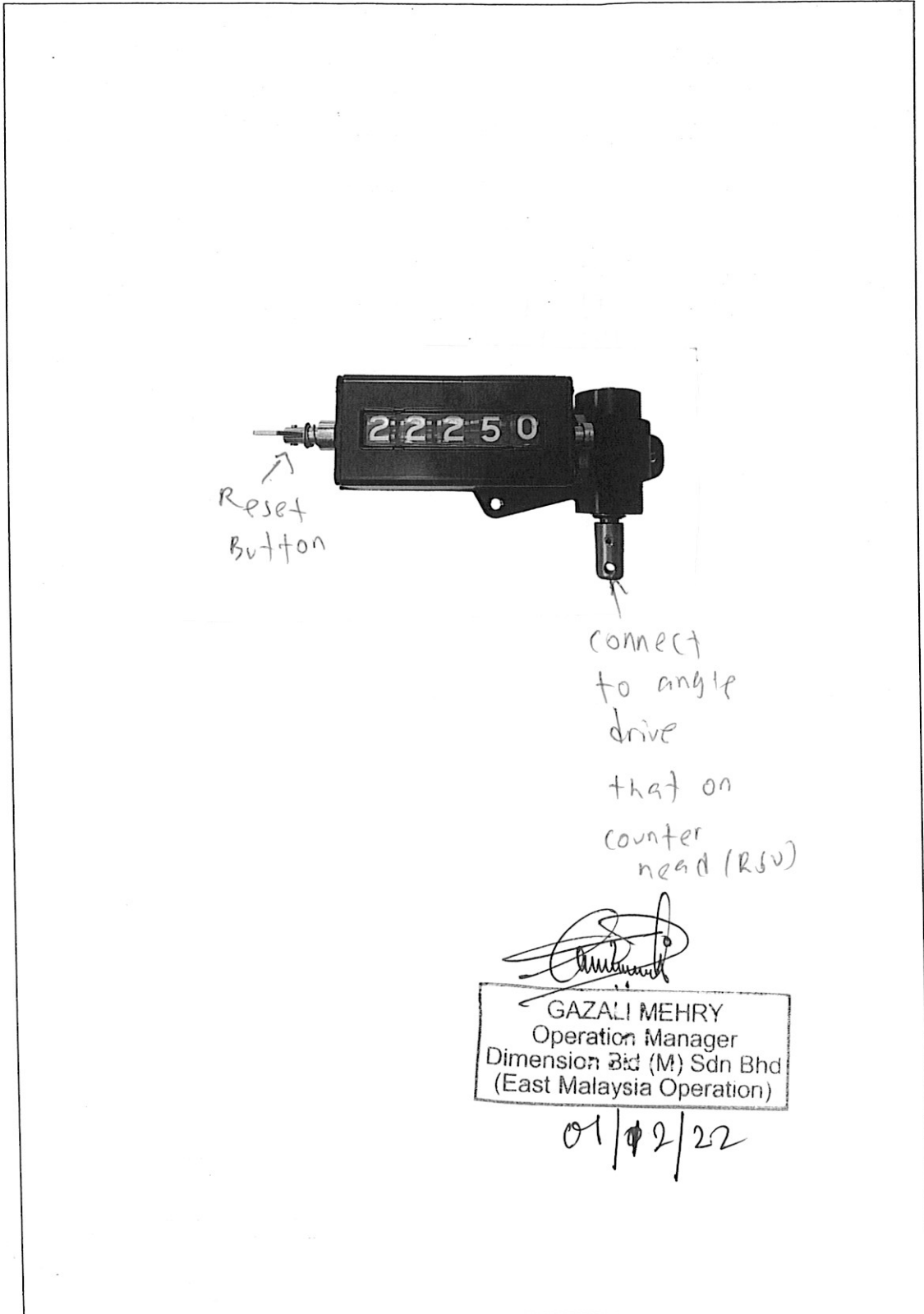
- wear full PPE.

What is potential hazard during handling Odometer

- sharp edges
- pinch point


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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
wing a rubber hose filled with hydraulic hose

What is the purpose of Weight Indicator

- To estimate the point of contact of two fluids.
- To determine the weight of tool string at the
end of wireline.

How to operate Weight Indicator

- using hydraulic system.
- Refill the WIS fluid

What is maintenance required for Weight Indicator

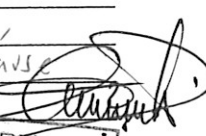
- Refill the WIS fluid -
- check the hoses connection and damage if
any leakage

What is safety precaution required for Weight Indicator

- The DOB not crash the hose.

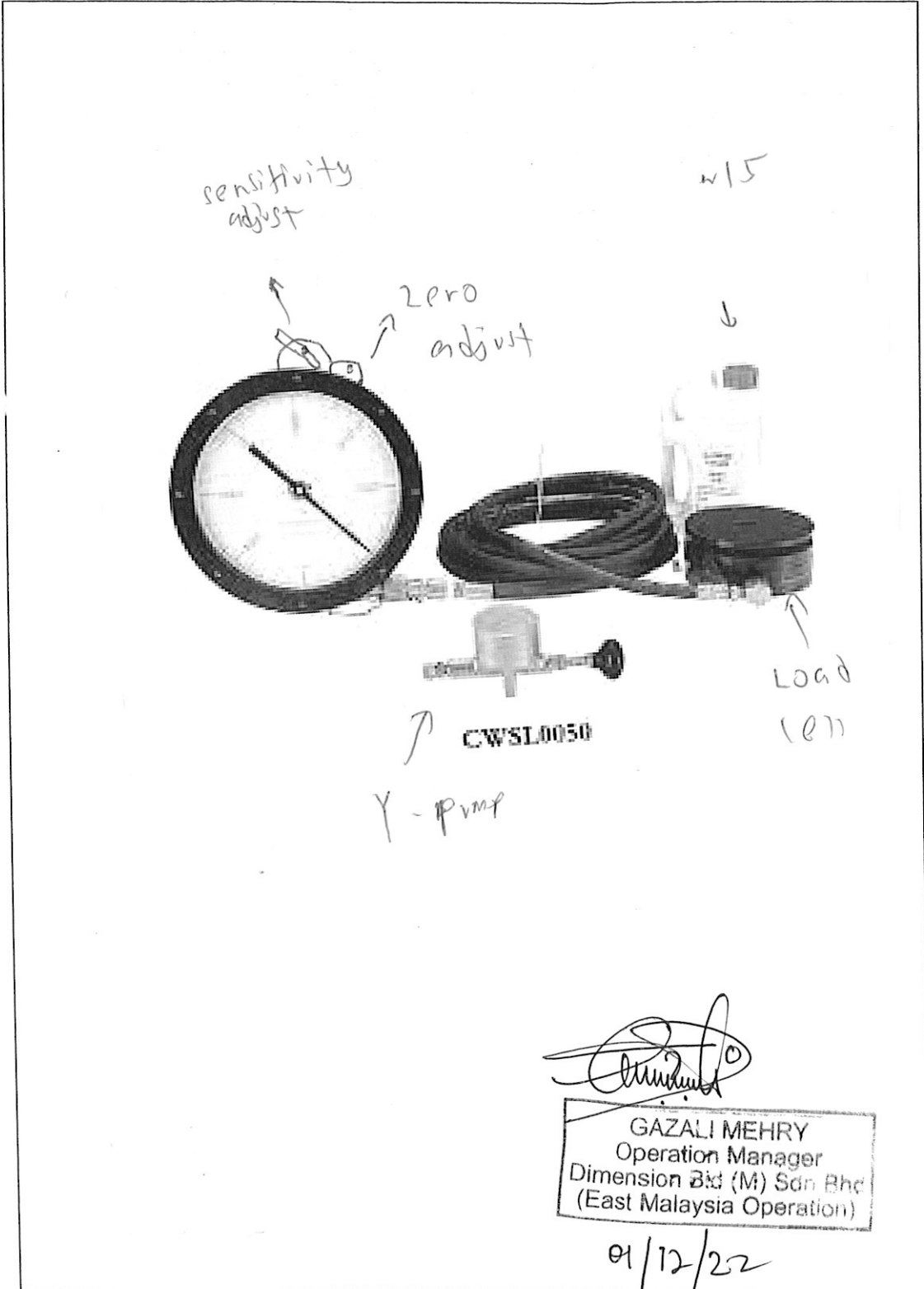
What is potential hazard during handling Weight Indicator

- Drop
- if not give attention to weight indicator,
might be the resulted tension and 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 ~~rem~~ removable drum that allow transport spools to be inserted, allowing the new new string to be spoiled into reel.

What is the purpose of Spooling Device

- to hold the reel drum spooling process
- control the ~~tenstio~~ tension 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 hay pulley are needed.
- Brake lever will help to control the line tension.

What is maintenance required for Spooling Device

- Brake maintenance.
- always check the hydraulic system.

What is safety precaution required for Spooling Device

- make sure to check the glass in good condition before start the job.
- Bolts and nuts (shatti) are in good condition.

What is potential hazard during handling Spooling Device

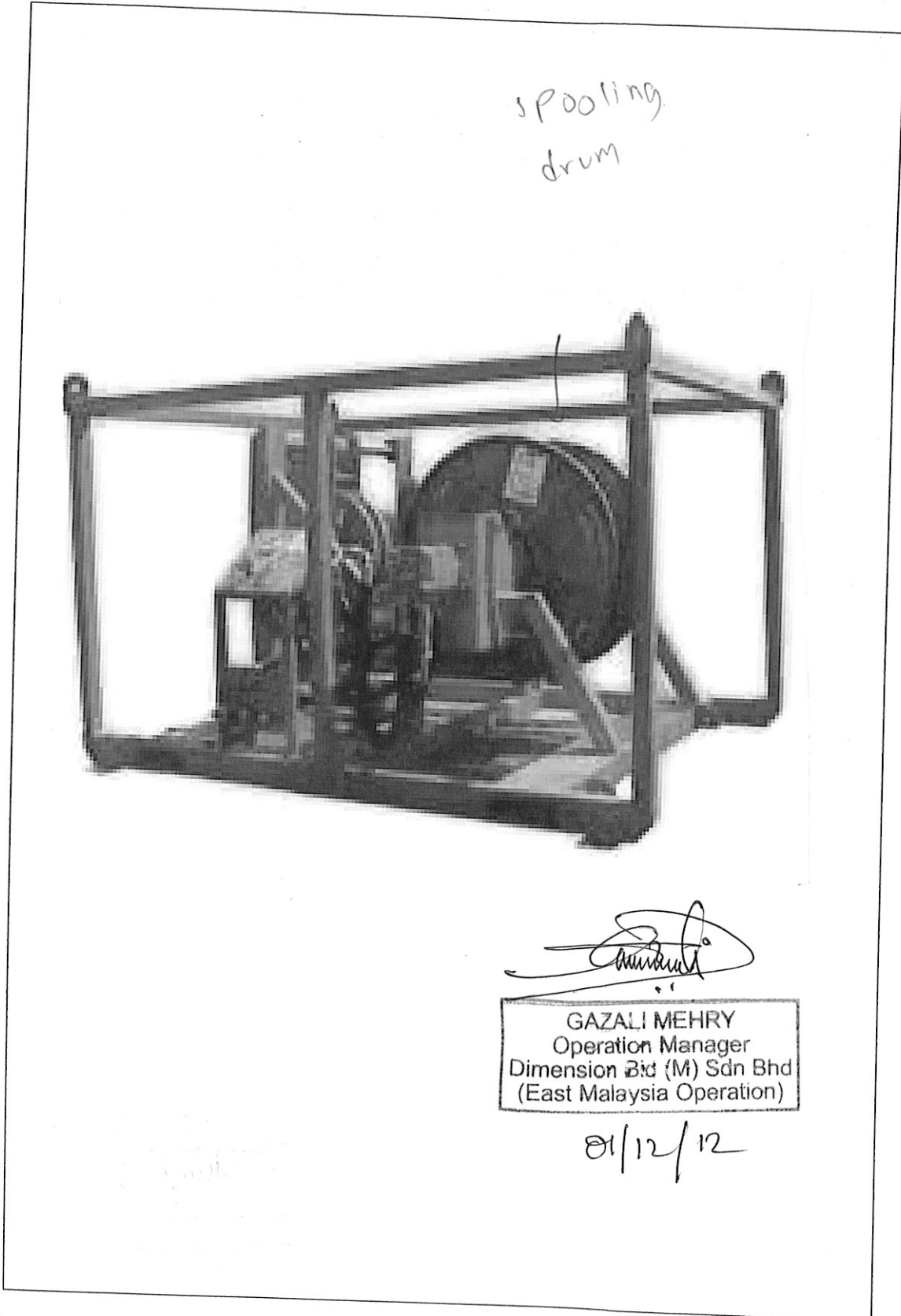
- Pinch point
- wire parted
- High desibel operation.



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Draw & name each part of Spooling Device





9. Control Panel

What is Control Panel

Device used to operate Bop, safety valve and other PCE equipment.

What is the purpose of Control Panel

- To control the PCE equipments:

BOP
Safety valve
stuffing BOX.

How to operate Control Panel

- Connect the control line to the equipment.
- open air supply, use regulator to control pump out
pressurized the line.

What is maintenance required for Control Panel

check the fluid level of hydraulic oil.
- check filter, and replace it required.
- check the hydraulic hoses for any sign of leakage
or damage.

What is safety precaution required for Control Panel

- Do not tighten or loose the connection when under
pressure.
- Beware of trapped pressure by bleed off fully
connection open.

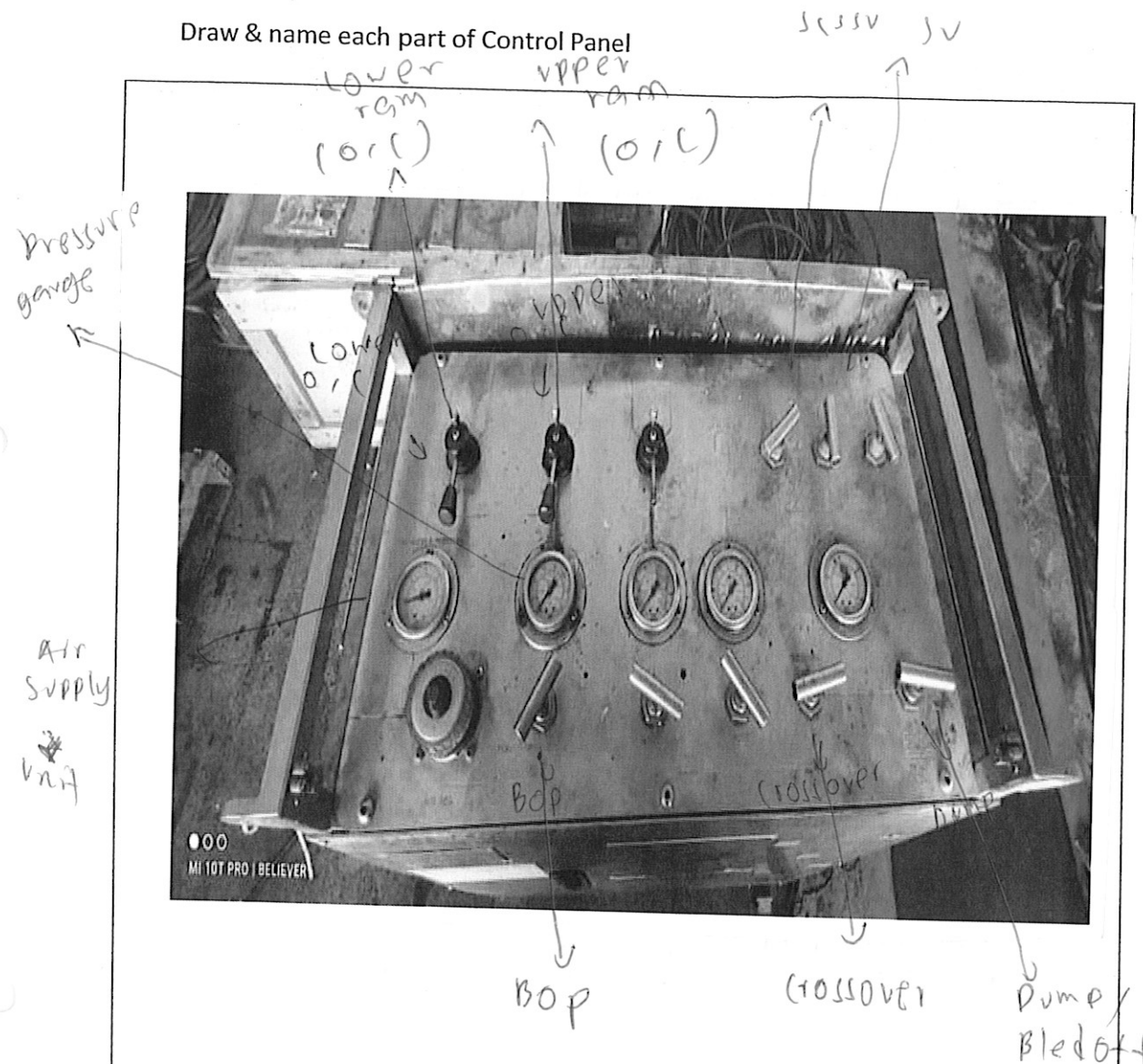
What is potential hazard during handling Control Panel

- connection loosen.
- Hose burst by high pressure.

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Draw & name each part of Control Panel



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10. Huskel Drum

What is Huskel Drum ^{pump}
is an ~~the~~ air driven pump.


What is the purpose of Huskel Drum
to drive the hydraulic oil or water in control panel or test 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 fluids into drive section.

What is maintenance required for Huskel Drum
- check the condition of o-ring.
- service huskel pump.
- hydraulic check valve & liquid seal repair.

What is safety precaution required for Huskel Drum
- check o-ring condition.
- make drive connection tubing is in good condition.

What is potential hazard during handling Huskel Drum
- Pinch point.
- tubing burst.


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Draw & name each part of Huskel Drum



exhaust
port

Air supply
valve

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11. Power Pack (Electrical & Diesel)

What is Power Pack

- Power Pack is hydraulically drive unit powered by diesel engine.
- certified with zone 2 equipment.

What is the purpose of Power Pack

- Provide power to drive hydraulic oil via special hose / hydraulic hose move to drum at winch.
- Provide the power (hydraulic) to RSV.

How to operate Power Pack

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

What is maintenance required for Power Pack

- Check oil level.
- check diesel level.
- check water level.
- check any leaking.
- check condition of belting.

What is safety precaution required for Power Pack

- wear appropriate PPE when changing hydraulic oil / engine oil.
- Beware of rotating fan when engine is running.
- do not open radiator cap while still running power pack.

What is potential hazard during handling Power Pack

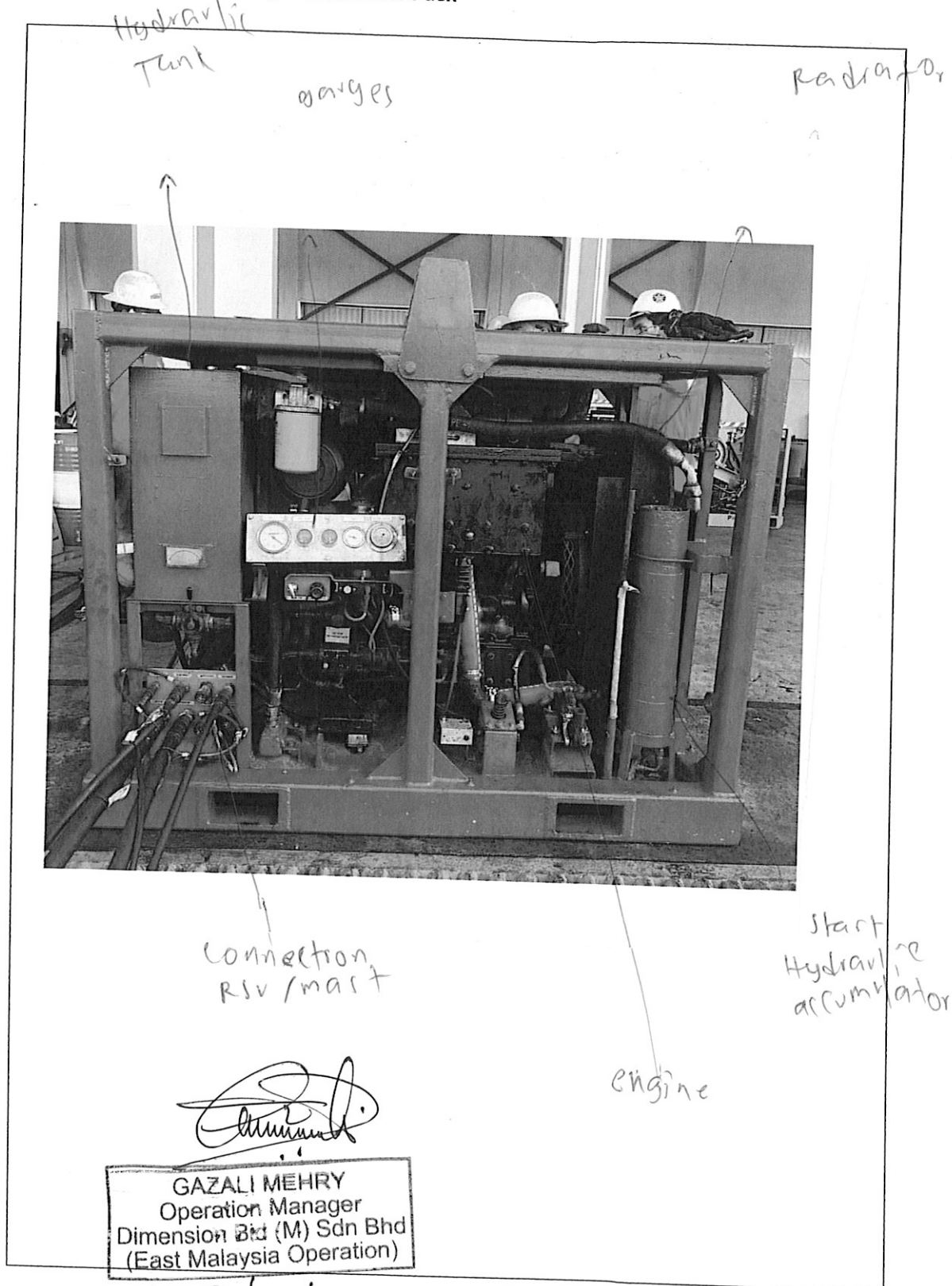
- Hand injury.
- Rotating fan.
- Hose burst.



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Draw & name each part of Power Pack



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12. Air Compressor

What is Air Compressor

- A machine that air being compressed driven by diesel engine.

What is the purpose of 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 turn red. Release spring to start the engine.
- To supply compressed air for control panel test pump and air starter engine.

How to operate Air Compressor

- change filter change oil compressor tarus 427
- check change filter
- check fan belting condition.

starting procedure is almost same with pp. use spring starter. To crank the starter, rotate the shaft clockwise until the indicator turn red. Release spring to start the engine.

What is maintenance required for Air Compressor

- change filter
- change oil compressor tarus 427.
- check fan belting. 427.

What is safety precaution required for Air Compressor

- make sure all hoses connection no leaking
- make sure fan is covered.

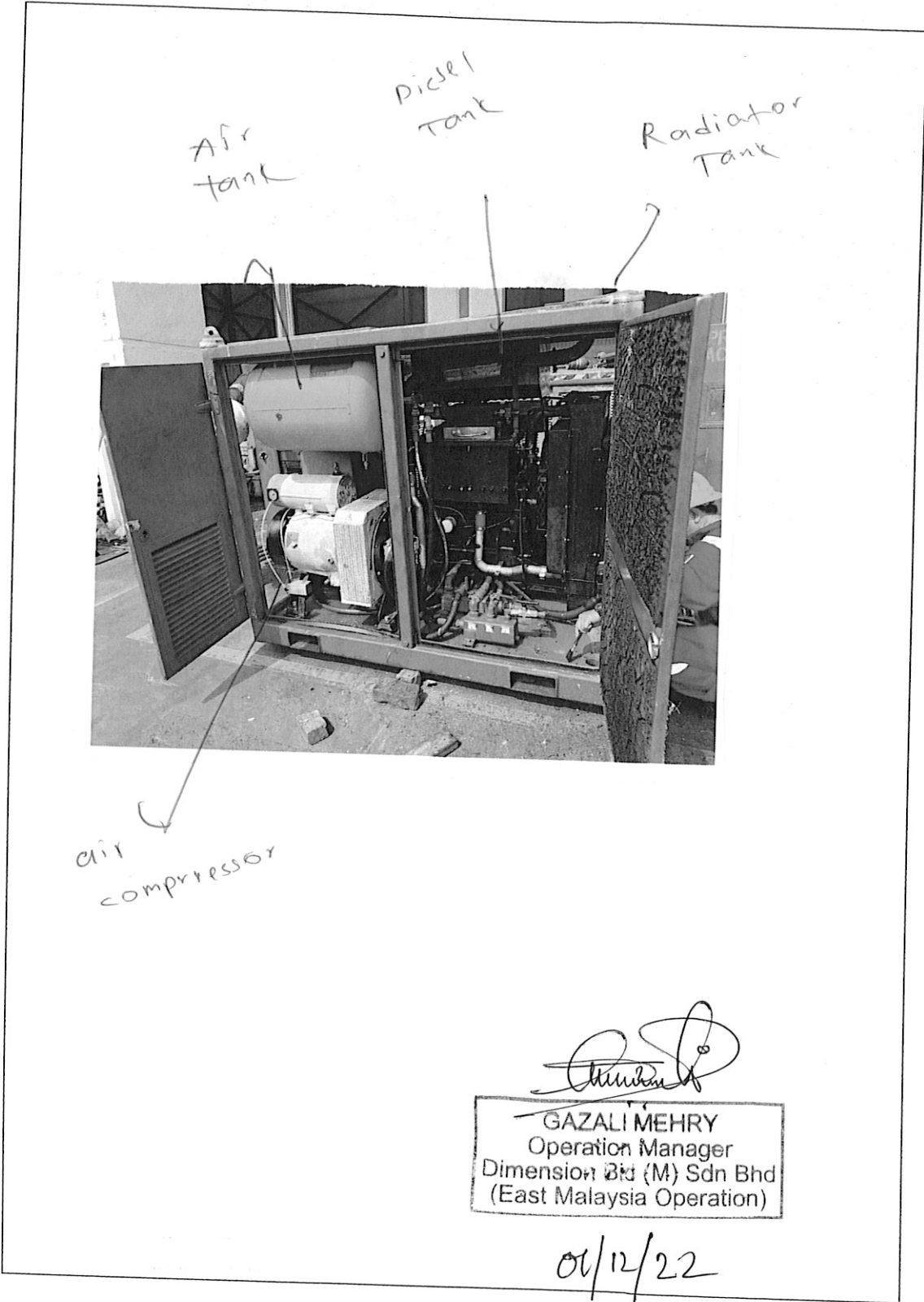
What is potential hazard during handling Air Compressor

- hose burst
- pinch point.
- hot surface.

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Draw & name each part of Air Compressor



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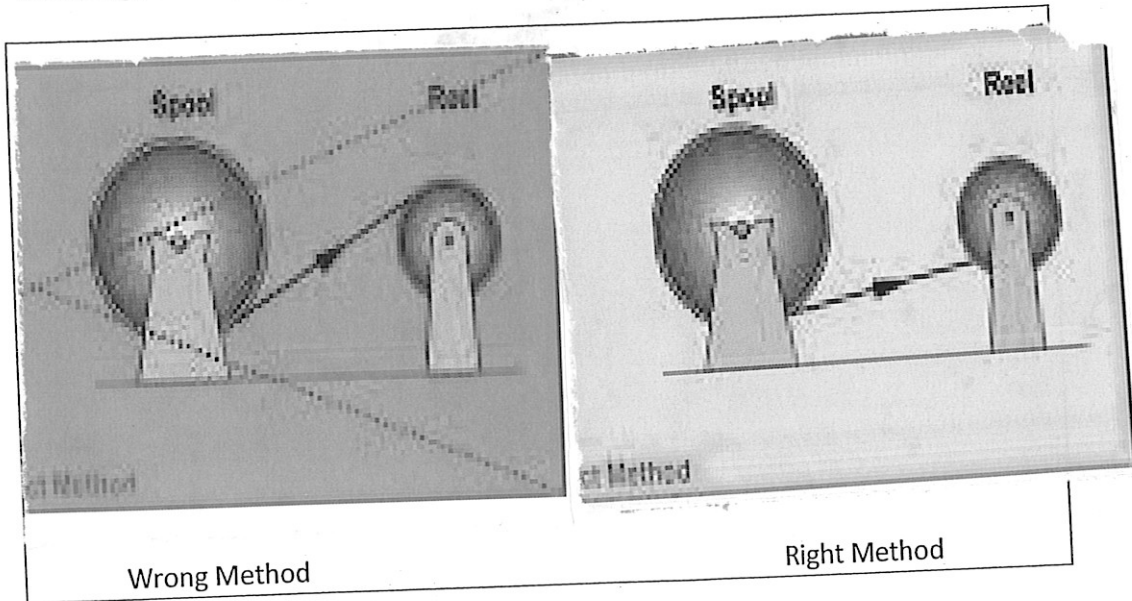
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13. Drum

What is the purpose of Drum

- To spool the wireline wire

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



What is maintenance required for Drum

- make sure to service and always check 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 the safety glasses and appropriate PPE

What is potential hazard during handling Drum

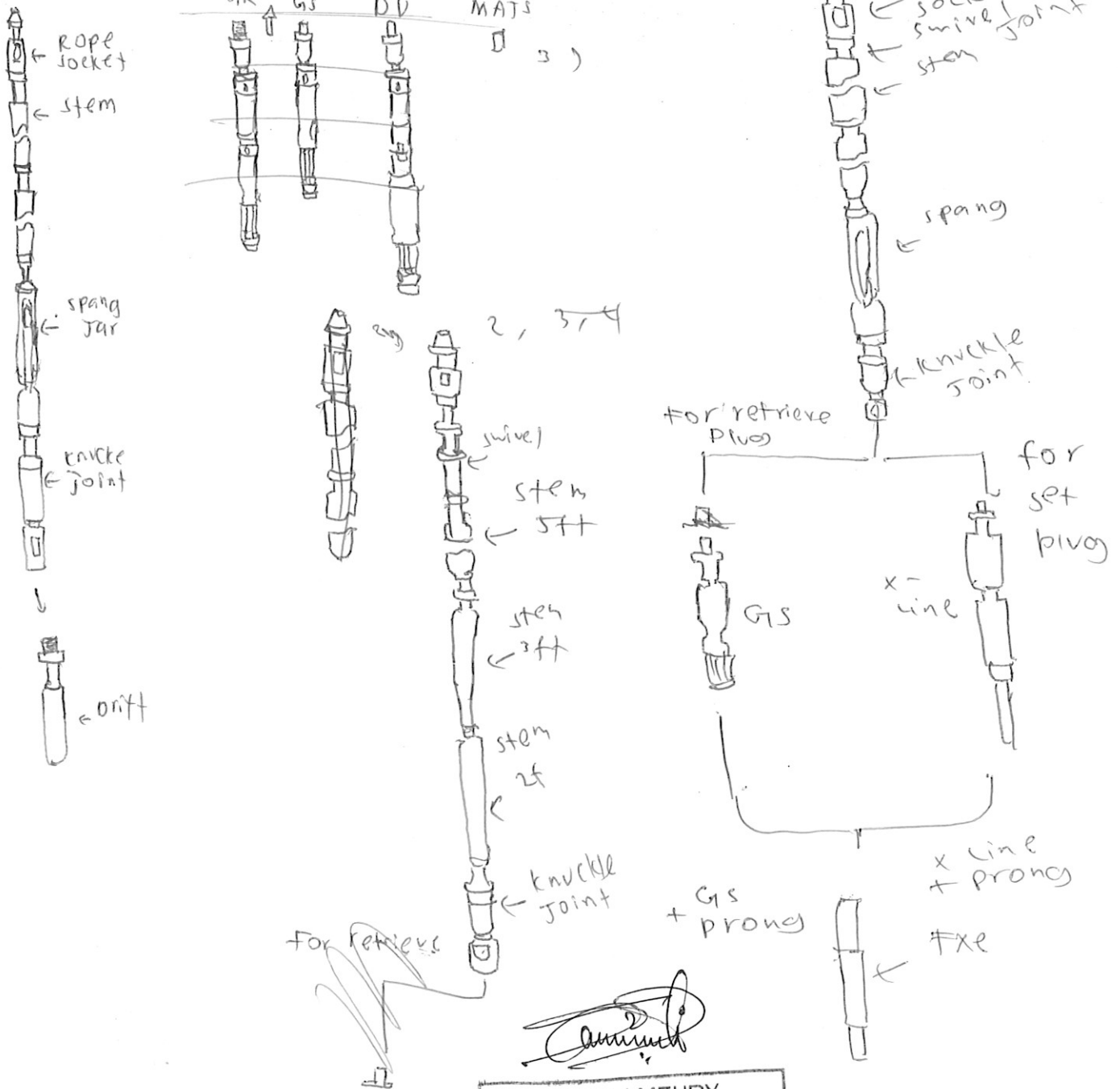
- Pinch Point
- Rotating
- Back injury.

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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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