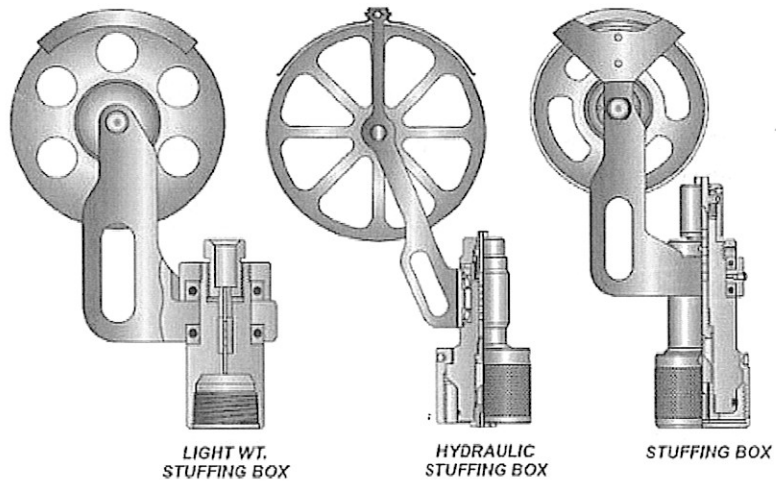




B. SURFACE EQUIPMENT

1. Stuffing Box



What is Stuffing Box

- stuffing box is one the P&E tools.

What is the purpose of stuffing Box

- To ensure sealing of around moving or stationary rods wireline at the upper end of the lubricator during wireline operation.

How to operate Stuffing Box

The stuffing box can be operated either manually or hydraulically without port modification.

What is maintenance required for Stuffing Box

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- change packing
- remove the packing nut ✓
- Remove upper gland.

What is safety precaution required for Stuffing Box

- check the packing whether worn out or not ✓
- check out the correct size of the sleeve

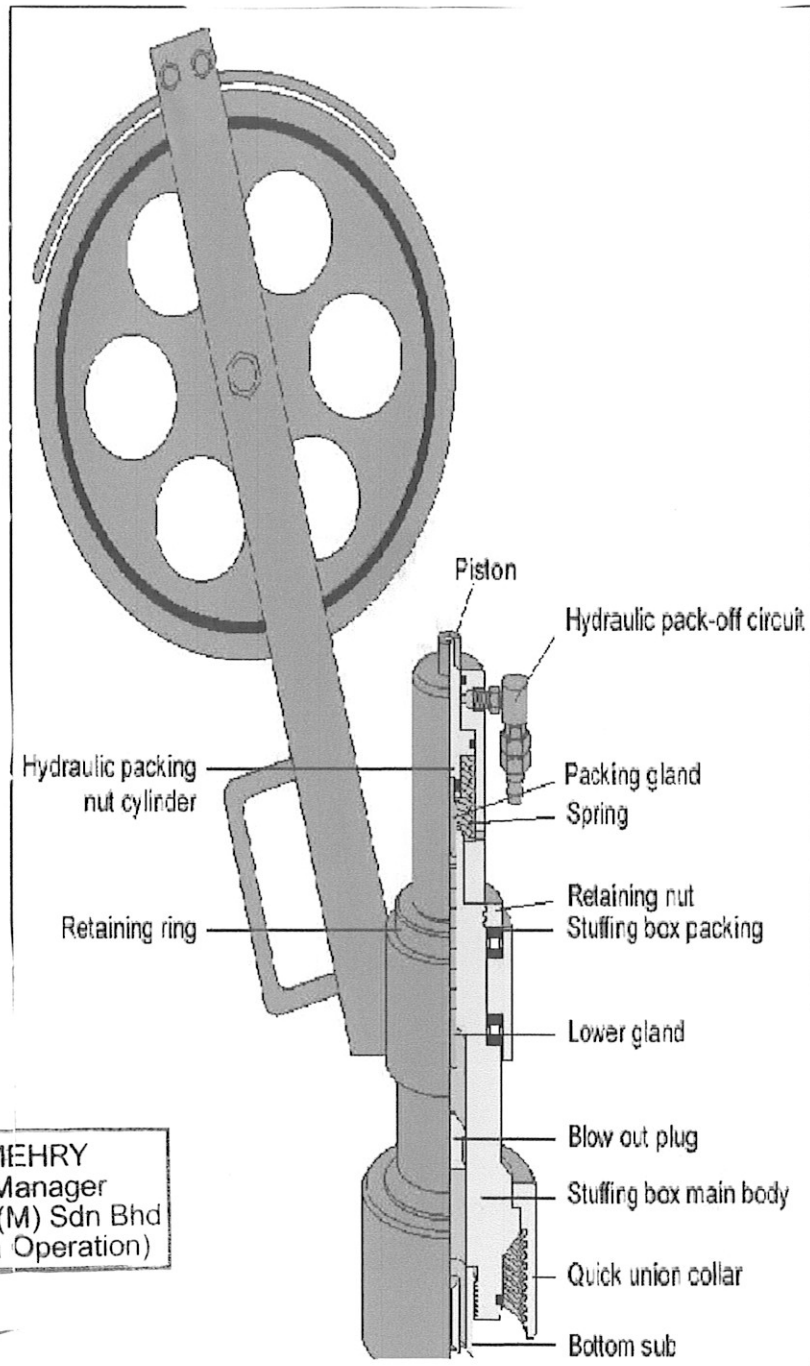
What is potential hazard during handling Stuffing Box ✓

- leakage in packed stuffing box.
- Wireline breaks.

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Draw & name each part of stuffing box



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2. Lubricator

What is Lubricator

Lubricator is a vital piece of equipment designed to enable the wireline tool string to be introduced or retrieved from a wellbore under pressure.



.What is the purpose of Lubricator

- lubricator is a vital piece of equipment designed to enable the wireline tool string to be introduced or retrieved for a wellbore under pressure.

How to operate Lubricator

- using chain block
- wireline mast
- crane / ginpole

What is maintenance required for Lubricator

- check if any cracks
- visually inspection at the regular intervals.

What is safety precaution required for Lubricator

- lubricator should be x-rayed
- lower section has a part to bleed off.

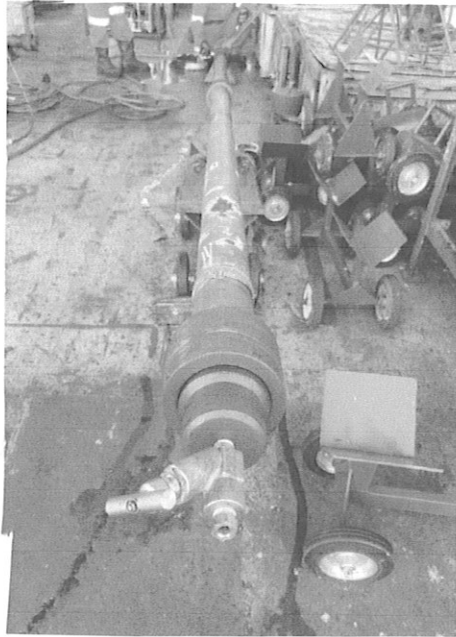
What is potential hazard during handling Lubricator

- Drop object
- pinch point
- Back injuries.

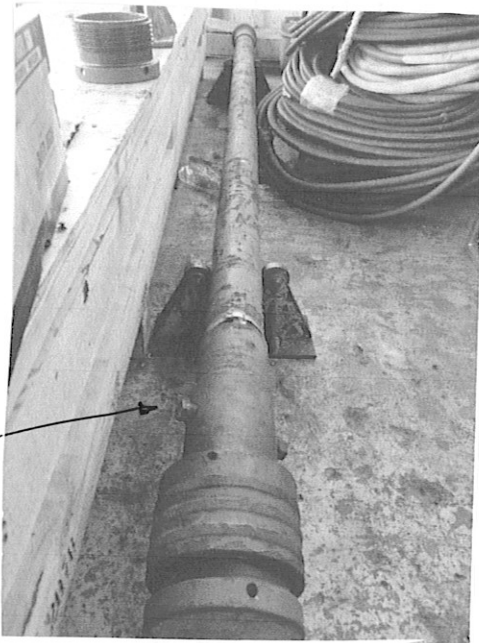
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Draw & name each part of Lubricator



NON-ported



blind screw

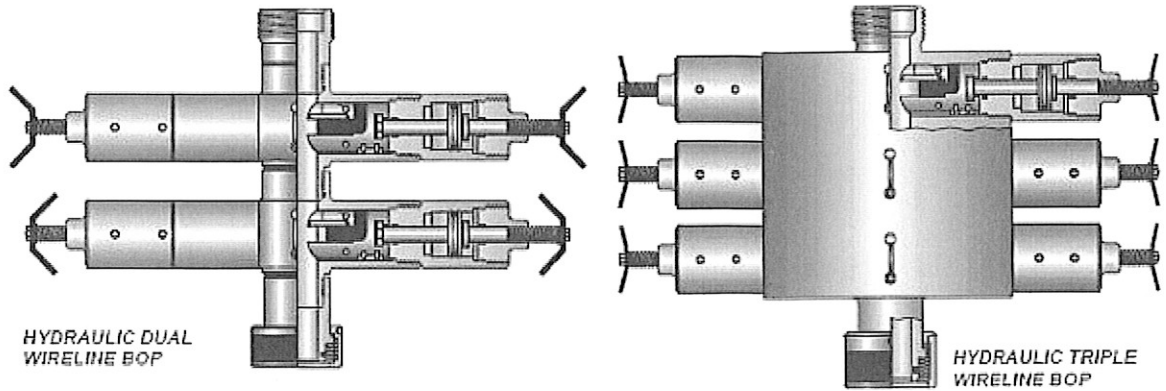
Ported

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3. Blowout Preventer (BOP)



What is BOP

- Bop is a PCE tools. Installed at top of x-nas tree below lubricator
 (Bop also known as Wireline Valve)

What is the purpose of BOP

- Act as a barrier, used to seal control and monitor oil and gas wells to prevent blow out.

How to operate BOP

- manual & hydraulically
 • RSU and mast unit.

What is maintenance required for BOP

- must be service and need to be pressure tested (yearly)

What is safety precaution required for BOP

- Ensure the has enlarged diameter below the ram to prevent it being blow out during testing.

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What is potential hazard during handling BOP

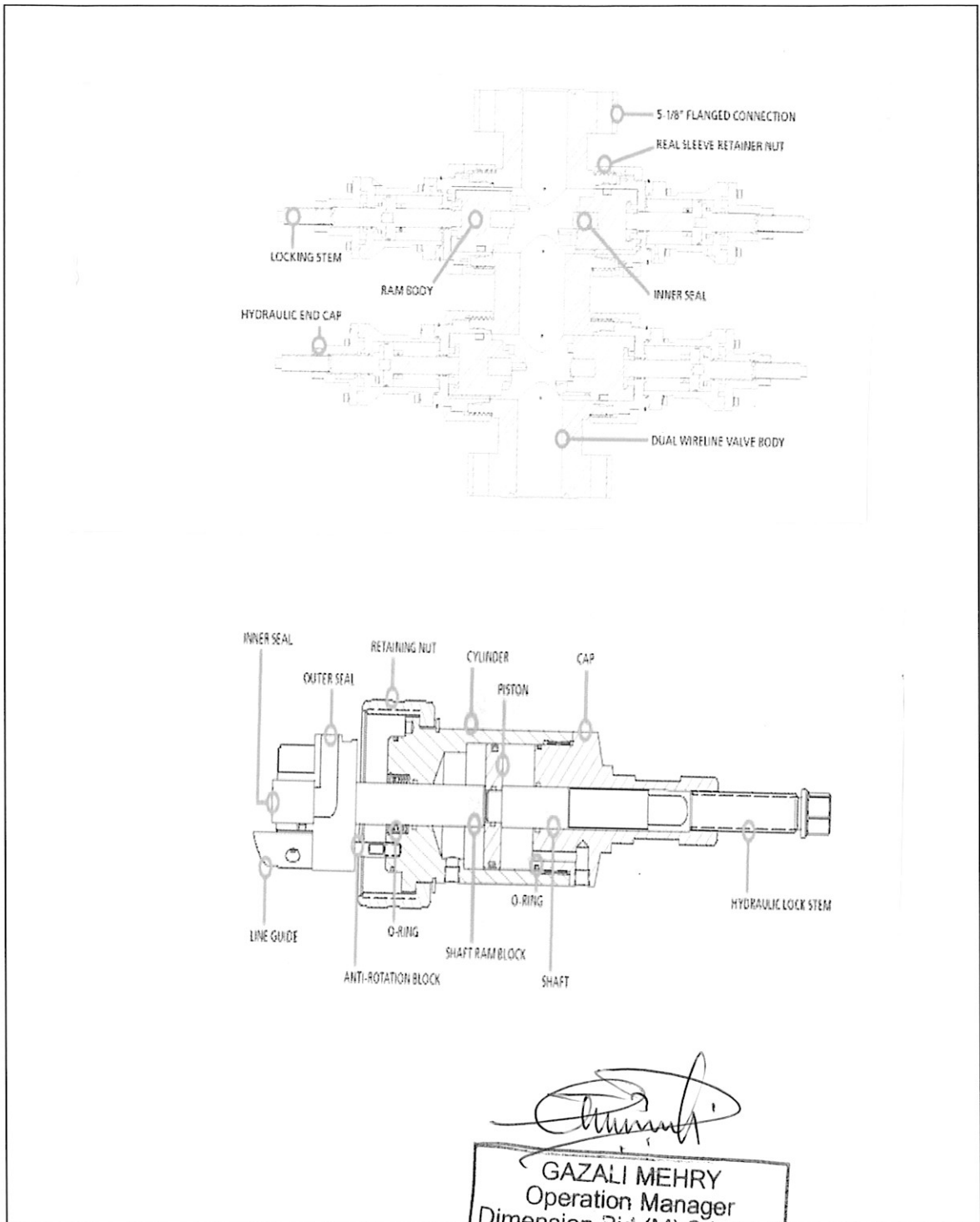
- pinch point
- drop object
- Back injury

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Draw & name each part of BOP



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4. X-Mas Tree

What is x-mas tree



x-mas tree is a series of valve installed on wellhead to control flow of fluid 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.

How to operate x-mas tree

- manually operated
- hydraulically activated

What is maintenance required for x-mas tree

- physical inspection - painting / repair = replacement of part.
- pressure test
- function test
- cleaning

What is safety precaution required for x-mas tree

- Do not over tighten the valve during opening / closing - many types have shear pin between handle, which will shear if excessive force is applied to protect the valve internal components.
- never use master valve to shut in the flowing well (use subs / wings valve)

What is potential hazard during handling x-mas tree

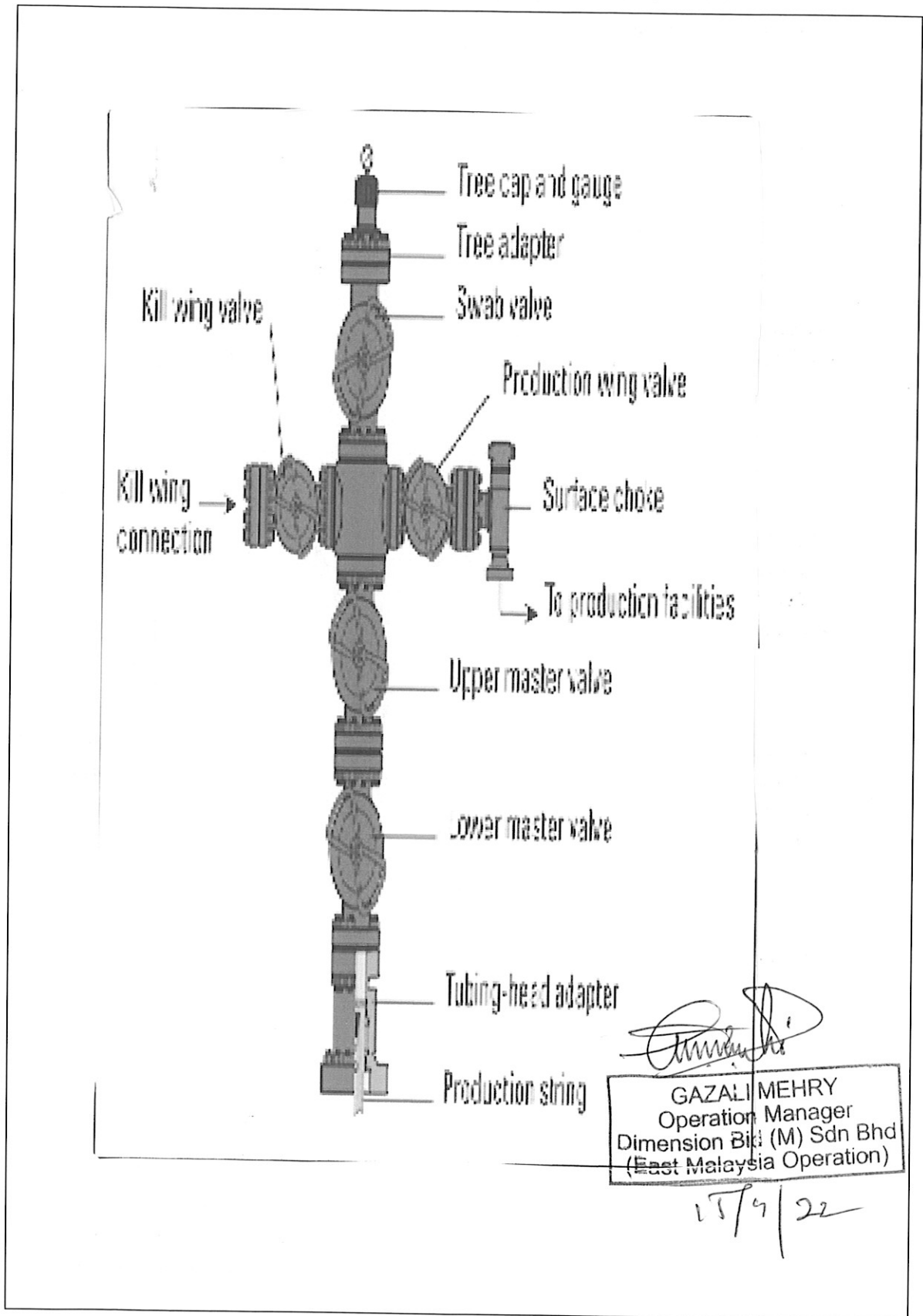
- blow out

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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

- Zone 2 certified equipment with associated sensors.
- Combine with safety device, weight indicator / depth counter.

What is the purpose of RSU

- To spool the wire in and out of well which to lower down and retrieve down hole tool.

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

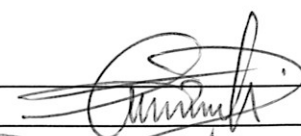
- Check the hand brake system
- Ensure gear in a neutral position.
- Check device chain tension.

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

- wire break
- pinch point
- rotating drum winch.

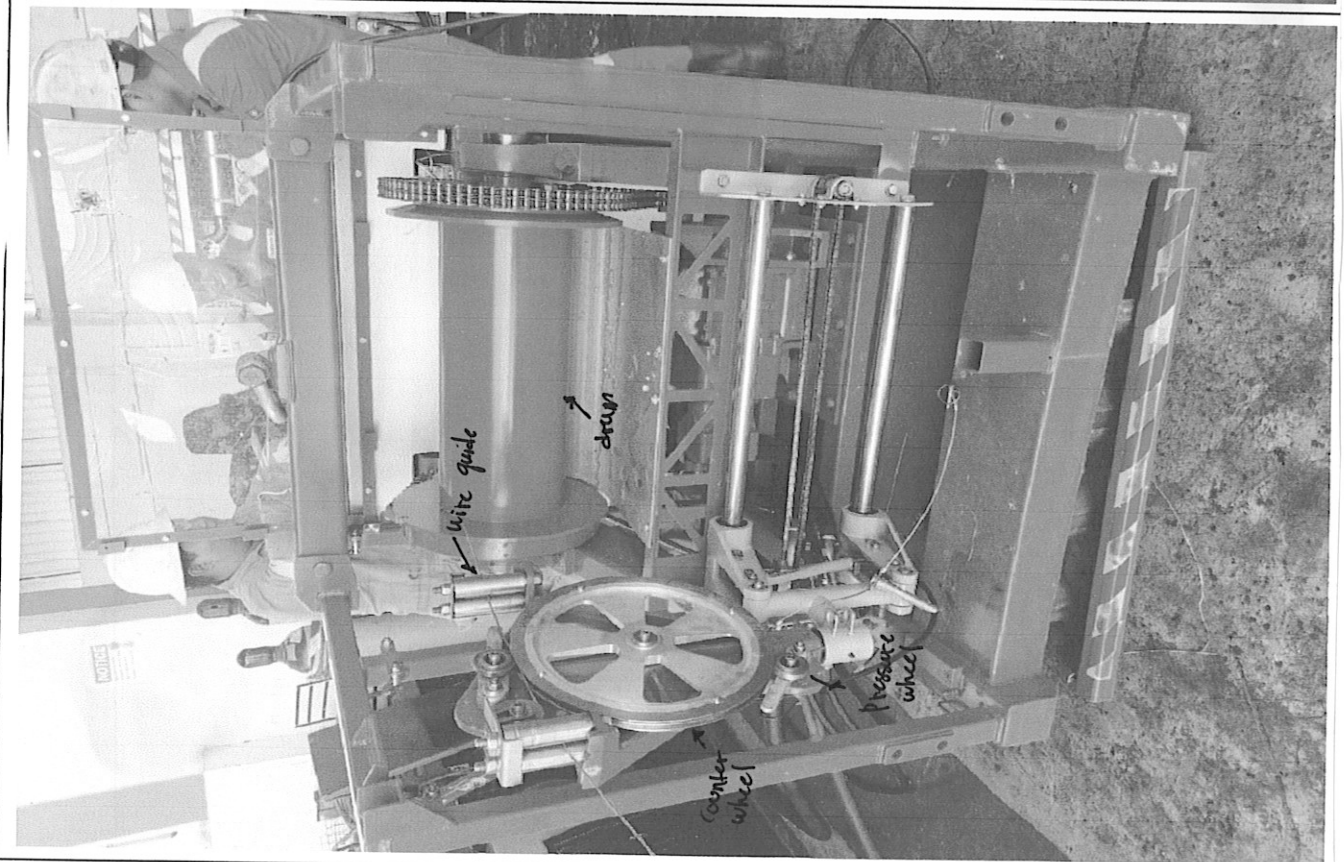
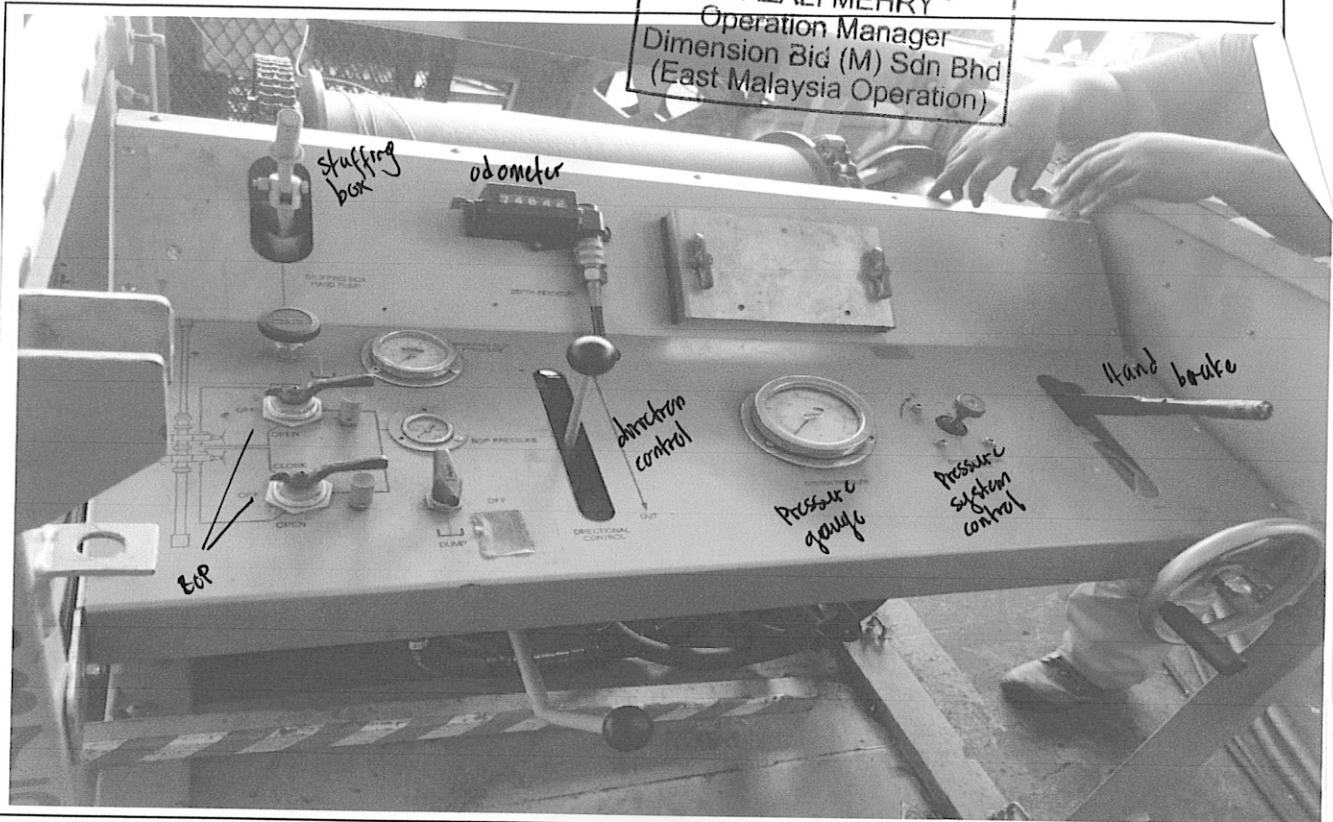

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Draw & name each part of RSU

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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 wellbore during wireline operation.

How to operate Odometer

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

What is maintenance required for Odometer

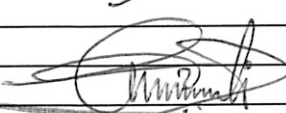
- check if counter head is free to rotate

What is safety precaution required for Odometer

- wear appropriate PPE

What is potential hazard during handling Odometer

- sharp edges
- pinch point


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Draw & name each part of Odometer

Push and Turn to Reset button

connect to angle drive that placed at RSU.

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7. Weight indicator

What is Weight Indicator

The device that is ~~seal~~ 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 point of contact of two different fluid.

How to operate Weight Indicator

- using hydraulic system.

What is maintenance required for Weight Indicator

- check the hose connection and change if there is any leak.
- Refill with W-15 fluid with YA 2- pump.

What is safety precaution required for Weight Indicator

- Do not crash the hose

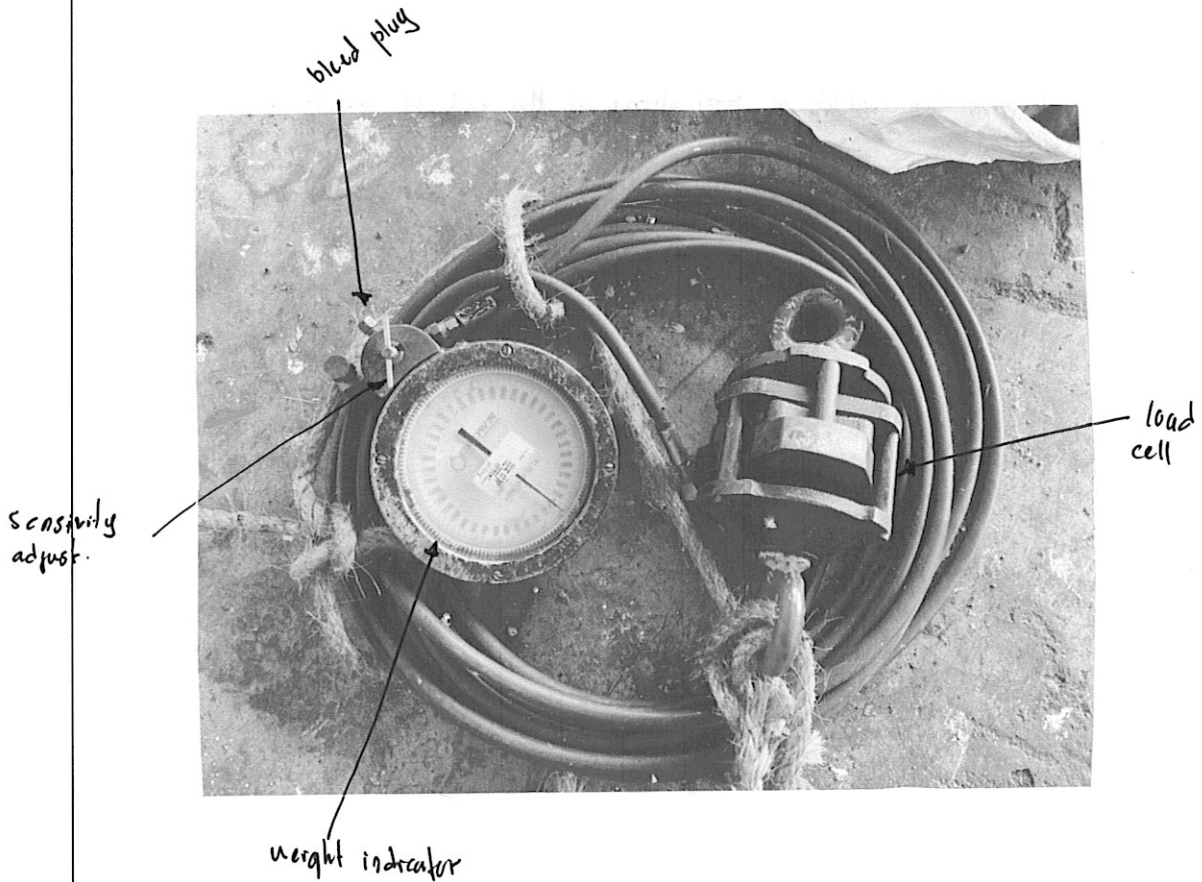

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What is potential hazard during handling Weight Indicator

- Drop
- if not give attention to weight indicator, might be the resulted tension and will cause wireline to break.

Draw & name each part of Weight Indicator





8. Spooling Device

What is Spooling Device

- Generally are configured with removable drum that allow transport spool to be inserted, allowing the new string to be spool spooled into reel.

What is the purpose of Spooling Device

- to hold the reel down during spooling process.
- control the tension of the line as it is spool spooled.

How to operate Spooling Device

- Brake lever will help to control the line tension.
- Assemble the reel the setup is almost the same with normal operation, which weight indicator and key pulley are needed.

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.
- Bolt and nut (sheft) are in good condition.

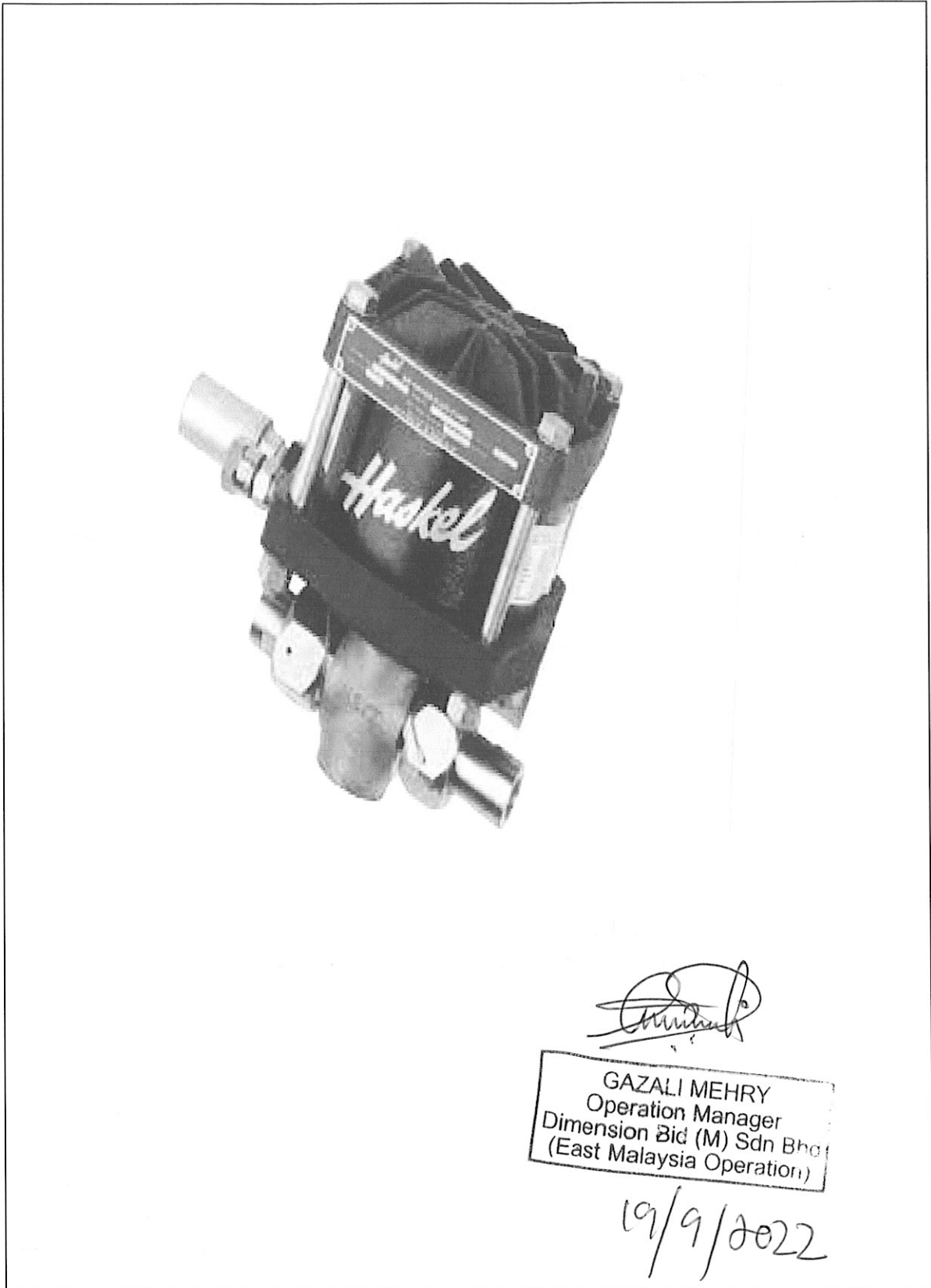
What is potential hazard during handling Spooling Device

- Pinch point
- wire parted


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Draw & name each part of Huskel Pump





11. Power Pack

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 PSO.

How to operate Power Pack

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

What is maintenance required for Power Pack

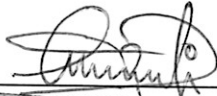
- check oil level - check any leaking.
- check water level
- check diesel level
- check condition of belting

What is safety precaution required for Power Pack

- wear appropriate PPE
- 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

- Hose burst
- Hand injury
- Rotating fan.



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What is potential hazard during handling Drum

- rotating

- Pinch point

- Back injury

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