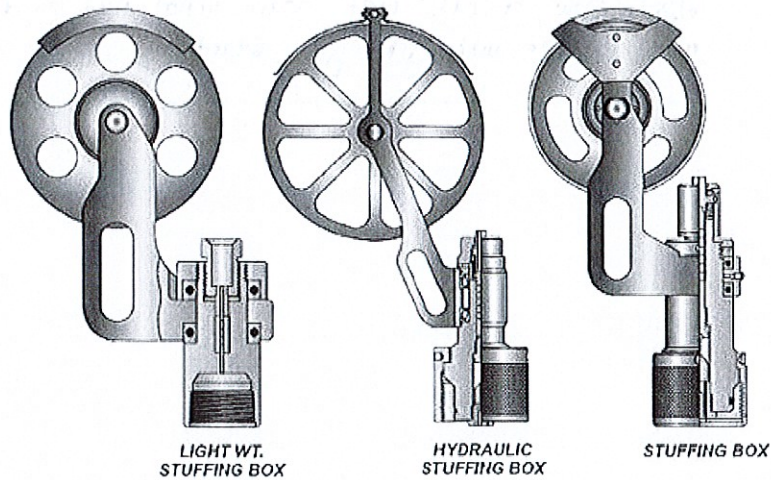




B. SURFACE EQUIPMENT

1. Stuffing Box

50 DEC 2021



What is Stuffing Box

- Stuffing box is a one of the PCE component
- Primary Barrier.

What is the purpose of stuffing Box

- Stuffing box is specifically designed to seal around solid wireline to confine wellbore fluids and gas within the surface pressure equipment.
- Hold pressure while in wireline operation.

How to operate Stuffing Box

- Use hydraulic hand pump or Control Panel.
- Packing nut
- RSU
- operator must be near with the control panel or hand pump.

What is maintenance required for Stuffing Box

- Service upper gland, lower gland, packing, O-ring, Bop Plunge,
- Do hydro test once a year.

What is safety precaution required for Stuffing Box

- Make sure stuffing box in good condition and certified and should be visually checked.

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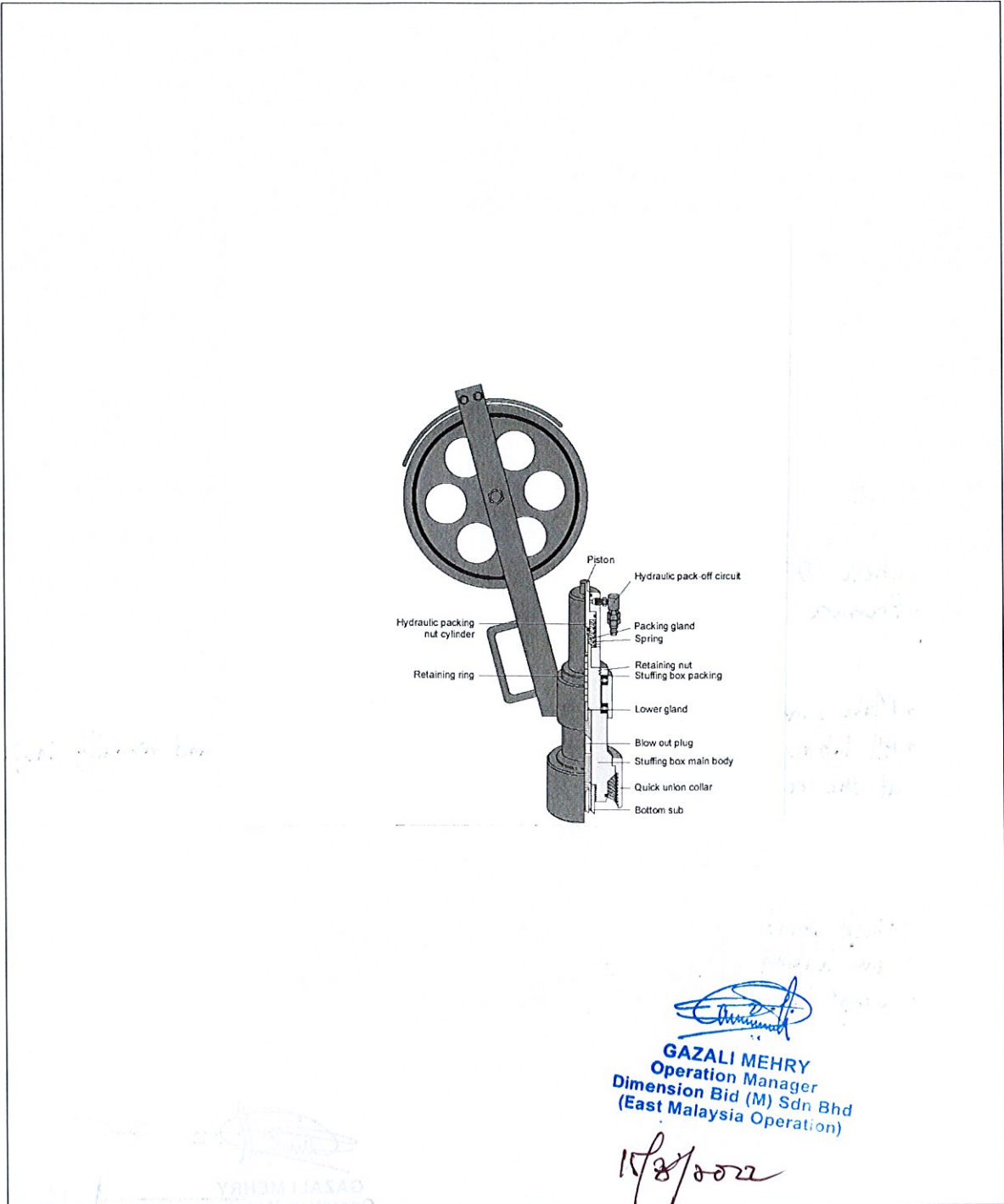
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What is potential hazard during handling Stuffing Box

→ Pinch Point

→ Drop Object

Draw & name each part of stuffing box





2. Lubricator

What is Lubricator

A term applied to the assembly of pressure control equipment use one slickline operation to house the following toolstring in the preparation for running into the well or retrieval of the toolstring on completion of the operation

What is the purpose of Lubricator

- Release pressure
- Hold pressure

How to operate Lubricator

Connect to Stuffing Box, Blow out pressure, L TV, Pump in Tee to make complete Lubricator Assy.

What is maintenance required for Lubricator

- Coating
- Painting
- Check O-ring
- Pressure Test (Hydro Test)

What is safety precaution required for Lubricator

- Make sure pressure was release before operate.
- All lubricator should be x-ray for confirm no crack and visually inspected at the regular intervals. (MPI)

What is potential hazard during handling Lubricator

- Pinch point
- Gas leaking
- Drop Object

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Draw & name each part of Lubricator



Non - ported

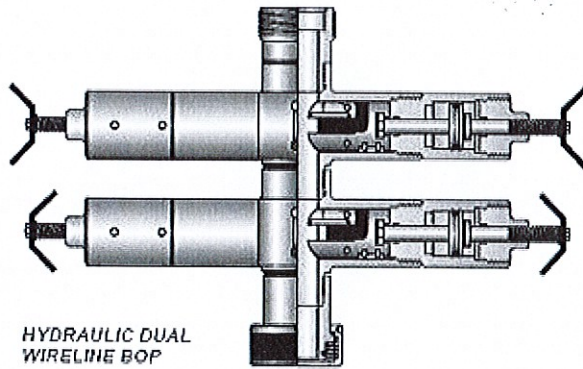
Ported


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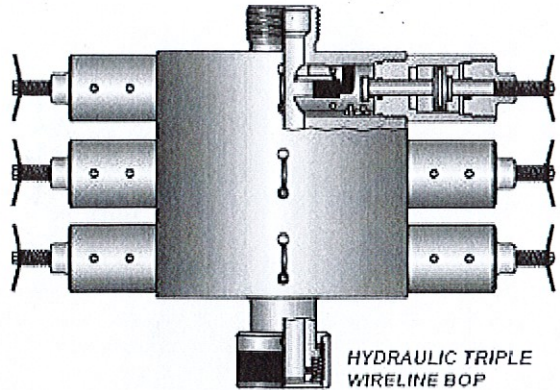
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3. Blowout Preventer (BOP)



HYDRAULIC DUAL WIRELINE BOP



HYDRAULIC TRIPLE WIRELINE BOP

What is BOP

- Designed to provide a positive seal around slickline or cable, place between the wellhead and lubricator assembly.
- Secondary barrier for Wireline Operation.

What is the purpose of BOP

- To enable the well pressure to be isolated without cutting the wire.

How to operate BOP

- Hydraulic Pressure - manual (close only)
- Use control panel
- Reel Skid Unit

What is maintenance required for BOP

- Check inner seal, outer seal, O-ring and check condition of the BOP
- MPI and hydro test.

What is safety precaution required for BOP

- Do function test before operate. to ensure the rams function well.


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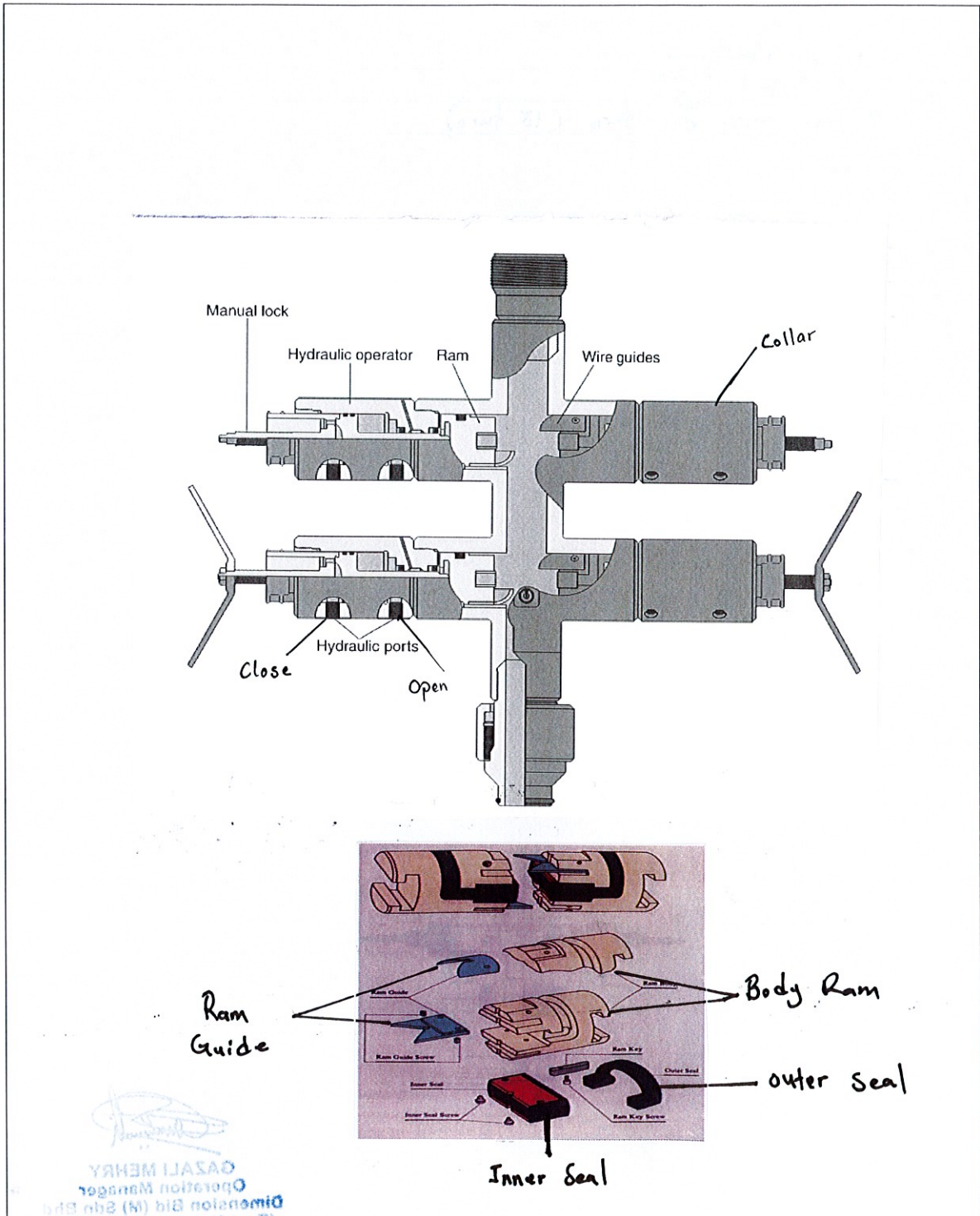
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What is potential hazard during handling BOP

- Wrong Operation ~~technig~~ technique
- Drop Object.

Draw & name each part of BOP





4. X-Mas Tree

What is x-mas tree

- X-mas tree is a series valves installed on the wellhead to control the flow of fluid from the well.

What is the purpose of x-mas tree

- Pressure Monitoring
- Pressure sealing
- Control the flow of well

How to operate x-mas tree

- SWCP
- Well control panel
- Always ~~can~~ count the turn (18 turn)

What is maintenance required for x-mas tree

- Lubrication of valves and actuators.
- Comission and eraction inspection
- Pressure testing of valves.

What is safety precaution required for x-mas tree

- Do not over tighten during opening or closing.

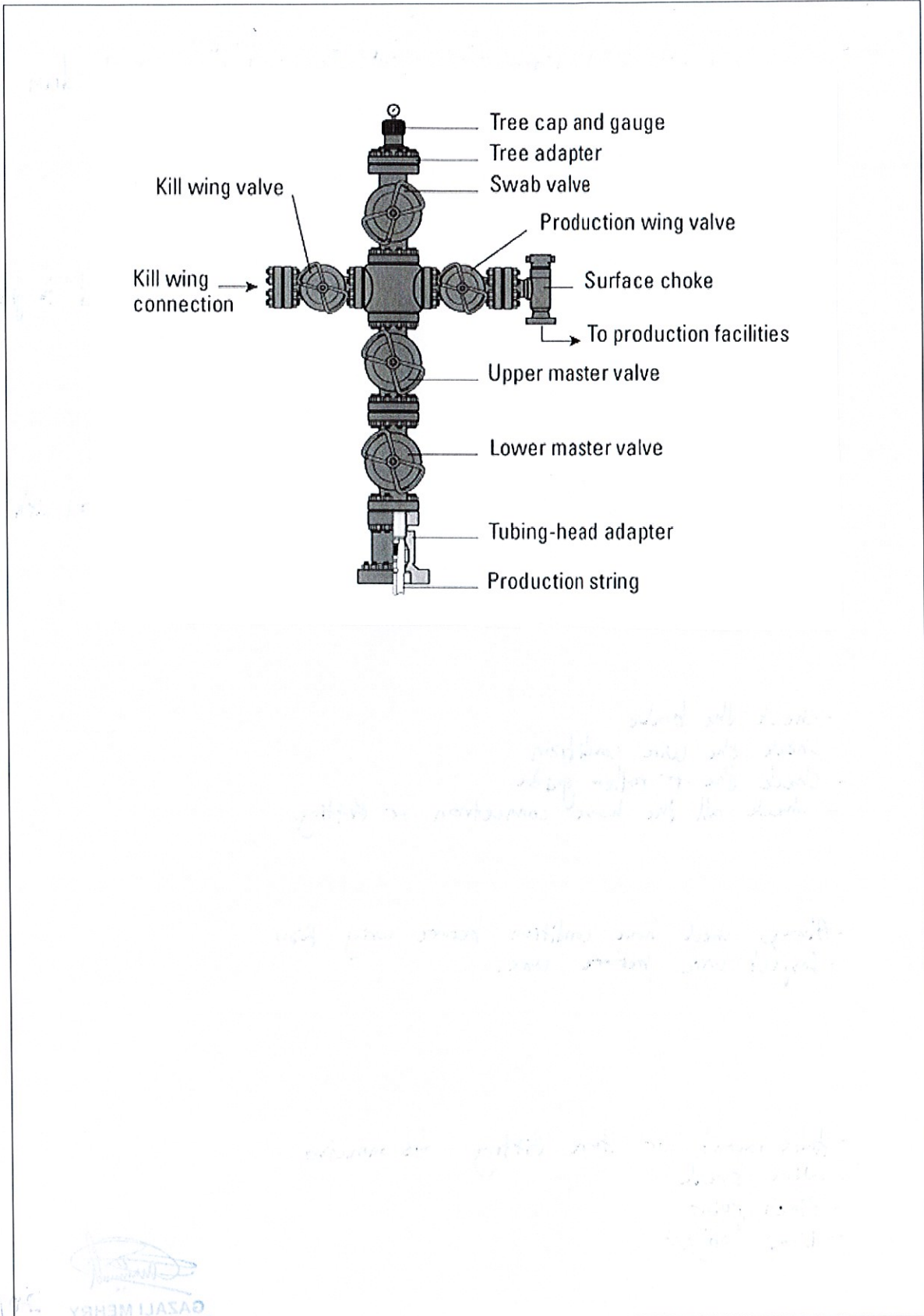
What is potential hazard during handling x-mas tree

- Pinch Point
- Back Injury
- Gas leak


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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

Unit that have a drum that contain wire and a panel to control the drum direction and speed.

What is the purpose of RSU

Contain a drum which have a wire to lower drum our tools and to pull the well accessories.

How to operate RSU

- Introduce the hydraulic power to ~~run~~ run the RSU and Control with lever.

What is maintenance required for RSU


- check the brake
- check the wire condition
- check the roller guide
- check all the hose connection or fitting.

What is safety precaution required for RSU

- Always check hose condition before using RSU
- Inspect wire before use.

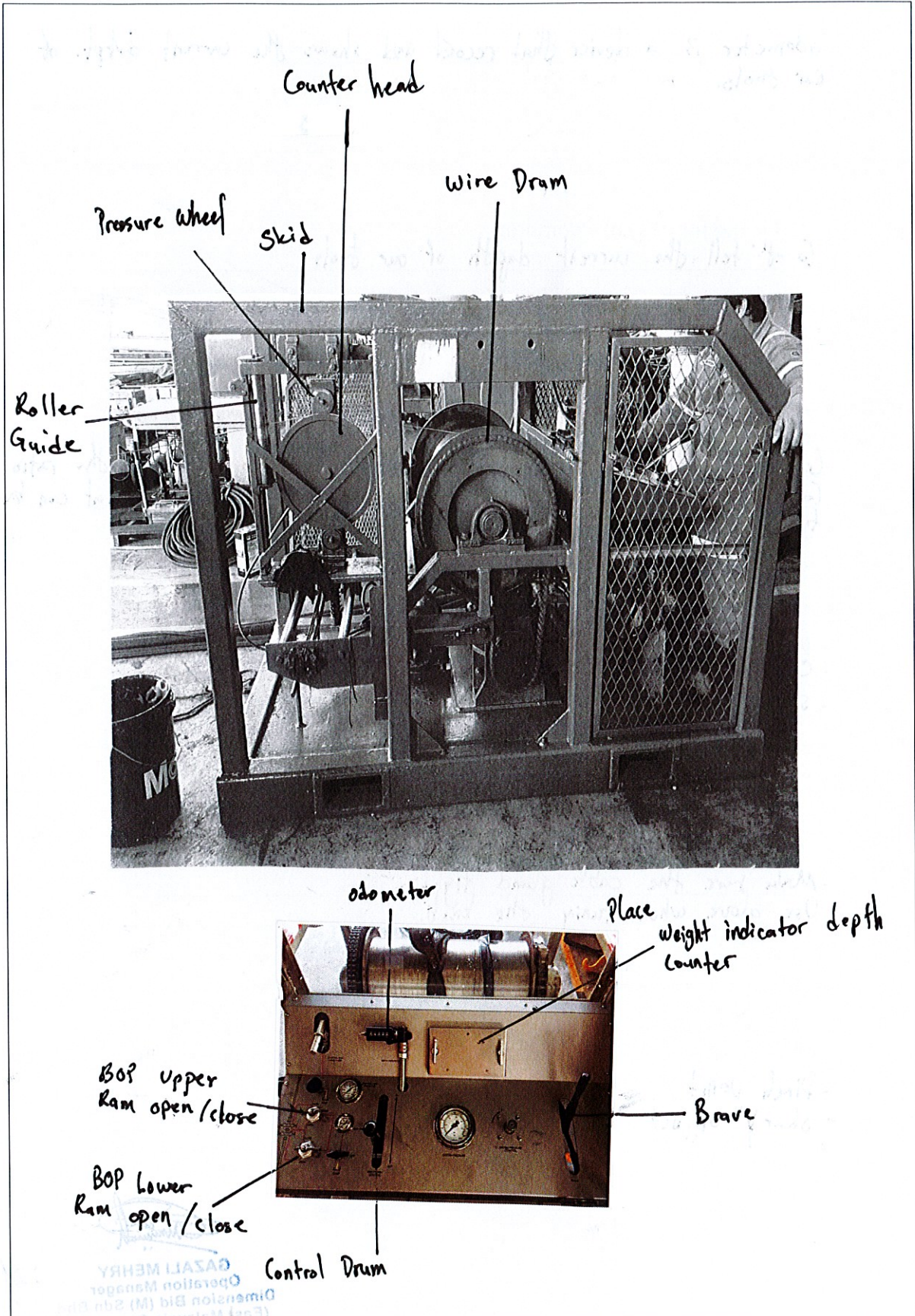
What is potential hazard during handling RSU

- Hose Burst or hose fitting disconnected
- Wire break
- Pinch point
- Drop object


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Draw & name each part of RSU





6. Odometer

What is Odometer

Odometer is a device that record and shows the current dept. of our tools.

What is the purpose of Odometer

To tell the current depth of our tools

How to operate Odometer

Connect the odometer to the odometer cable. The odometer have the ratio 1:2. To reset the odometer or zero toolstring there is a knob that can be turn to reset.

What is maintenance required for Odometer

- Clean the cable with WD40
- Spray the ~~tool~~ knob with WD40

What is safety precaution required for Odometer

- Make sure the cable gland tight
- Use glove when tuning the knob.

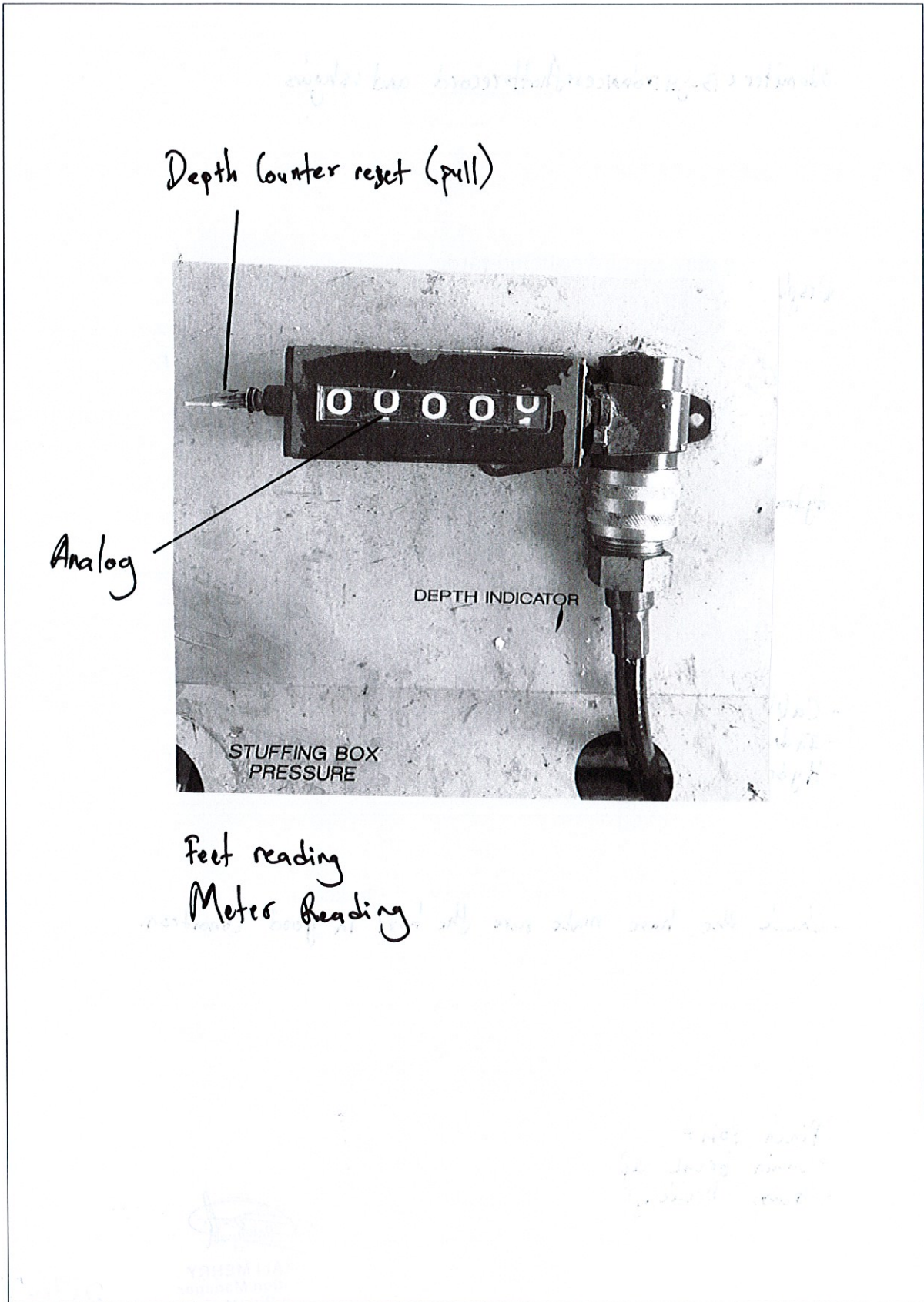
What is potential hazard during handling Odometer

- Pinch point
- Sharp object

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Draw & name each part of Odometer





7. Weight indicator (200 lbs and 4000 lbs)

What is Weight Indicator

A device system used to measure weight.

What is the purpose of Weight Indicator

Display the weight of a toolstring toolstring.

How to operate Weight Indicator

Hydraulic Fluid W-15

What is maintenance required for Weight Indicator

- Calibration
- Indicator hydraulic
- Hydraulic Hose

What is safety precaution required for Weight Indicator

- Check the hose make sure the hose in good condition.

What is potential hazard during handling Weight Indicator

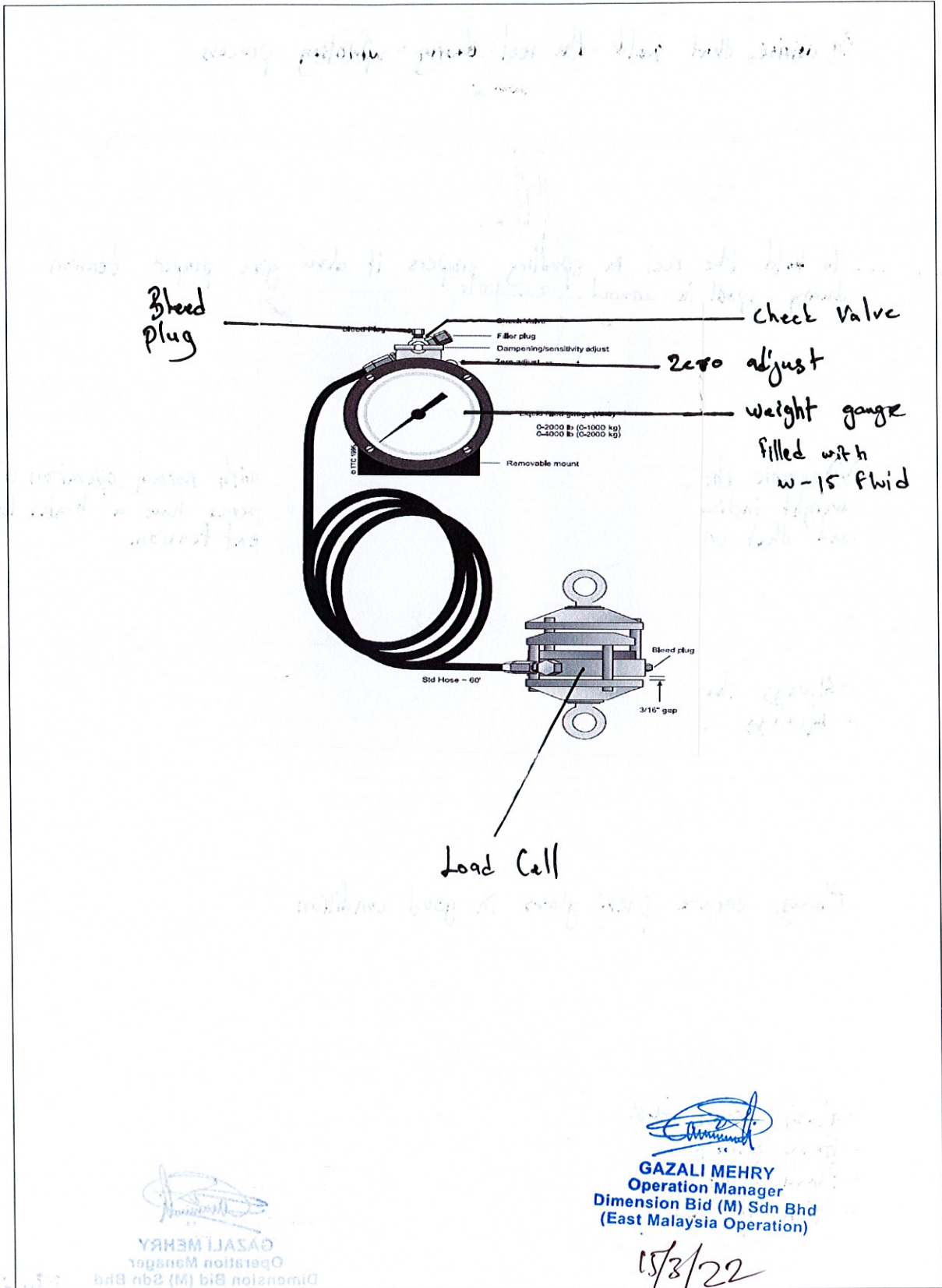
- Pinch point
- Chain break up
- Glass break up


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Draw & name each part of Weight Indicator



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8. Spooling Device

What is Spooling Device

A device that hold the reel during spooling process

What is the purpose of Spooling Device

To hold the reel in spooling properly it also give proper tension during spool in around 300 lbs

How to operate Spooling Device

Assemble the reels. The setup is almost the same with normal operation which weight indicator and hog pulley is needed. Spooling device have a brake lever and that will help to control the line tension. Tension.

What is maintenance required for Spooling Device

- Always check the hydraulic hose
- Always check the brake.

What is safety precaution required for Spooling Device

Always ensure plexi glass in good condition

What is potential hazard during handling Spooling Device

- Glass break off
- Hose burst
- Pinch point
- Wire parted

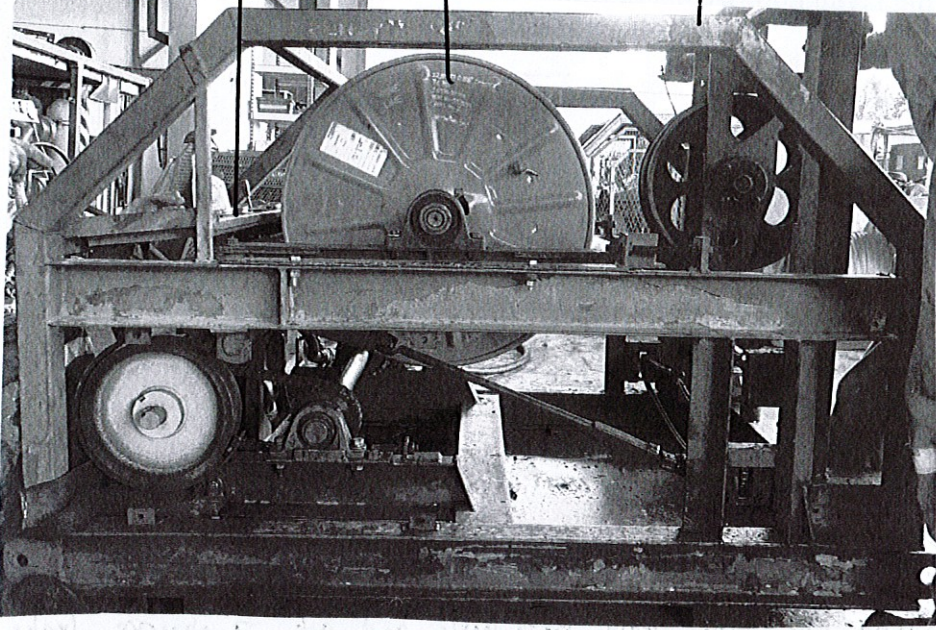

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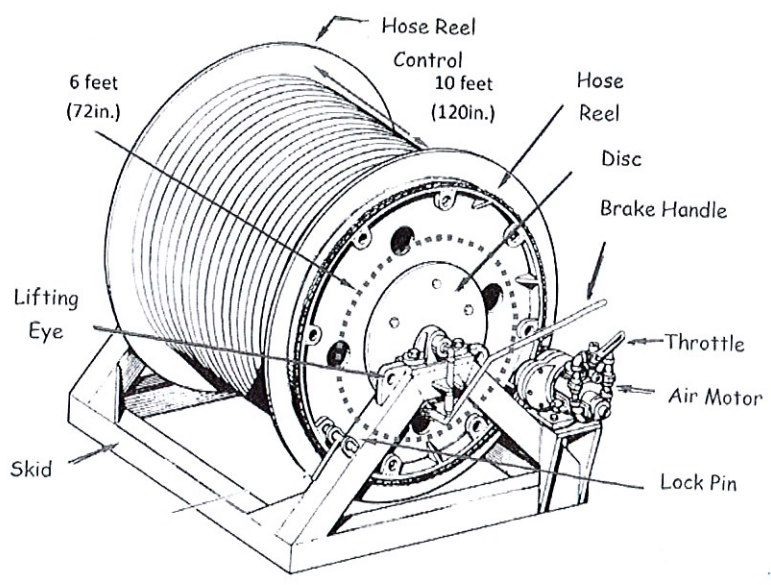


Draw & name each part of Spooling Device

Handwritten notes at the top of the page:
 a) photos of well full spooling rig being going to corner and be
 suitable with low drainage



Handwritten labels for the photograph:
 Control unit
 wire drum
 skid



Labels for the technical drawing:
 Hose Reel
 Control
 6 feet (72in.)
 10 feet (120in.)
 Hose Reel
 Disc
 Brake Handle
 Throttle
 Air Motor
 Lock Pin
 Lifting Eye
 Skid

Signature and stamp:
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9. Control Panel

What is Control Panel

CP have series of pump and gauge that use to control our equipment and the wellhead.

What is the purpose of Control Panel

To control BOP, Stuffing box, ^{Master Valve} / ^{or} safety Valve and SC.SSV

How to operate Control Panel

Connect the control line to the equipment. Open the air supply use the regulator to control pump and pressurized the line.

What is maintenance required for Control Panel

- change the oil
- Clean the panel both, both inside and out to observe leaks.
- Repair and replace components if leak.
- All the gauge gauge need to calibrate with certificate.

What is safety precaution required for Control Panel

- Isolate all the valves and test all the lines.
- Ensure all connection is secured.
- Pressurized CP within the limit.
- Ensure no leaking.

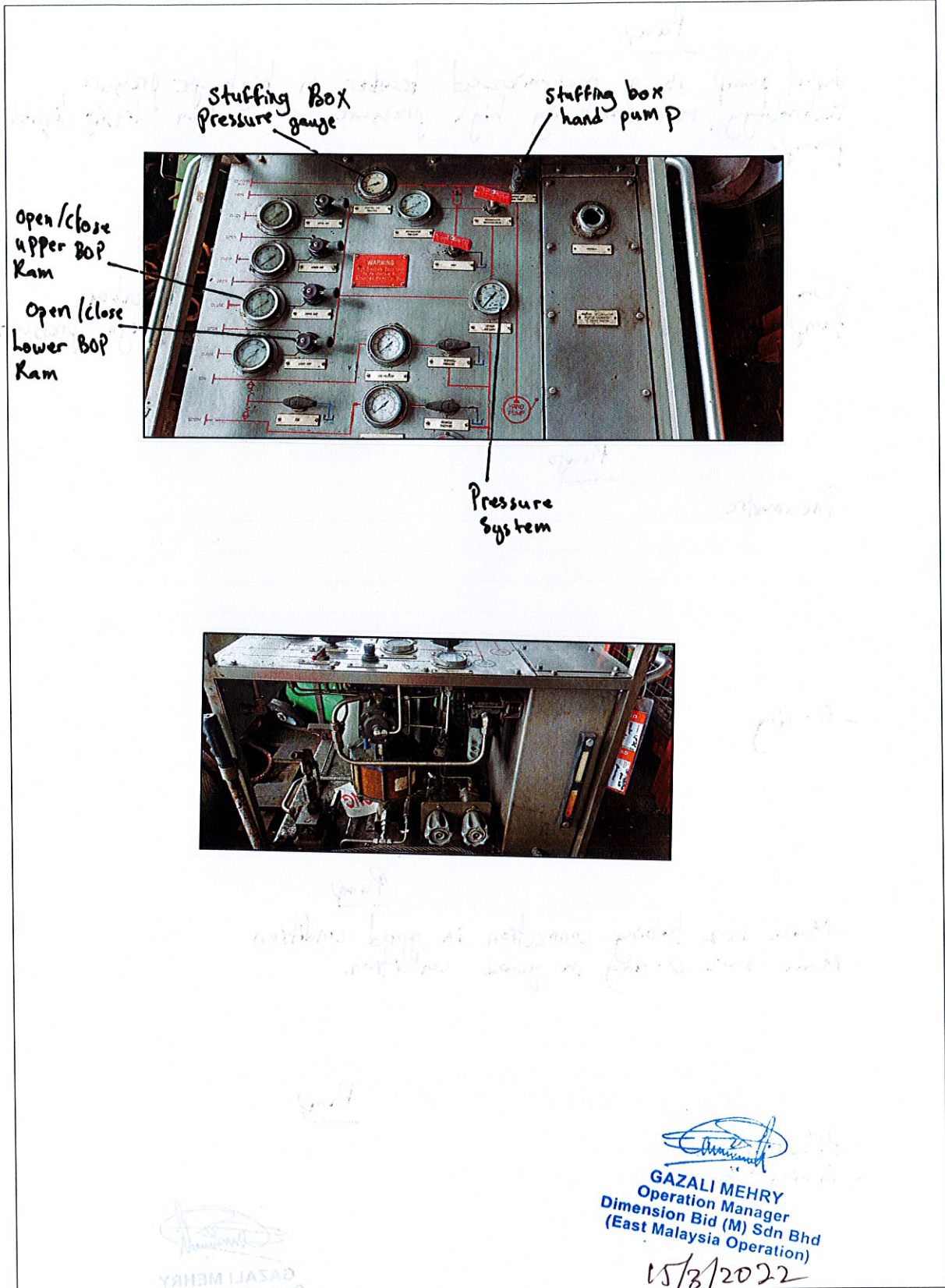
What is potential hazard during handling Control Panel

- Drop object during lifting.
- hose burst.


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Draw & name each part of Control Panel



(Faint mirrored text from reverse side)
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10. Huskel ^{Pump} Drum

What is Huskel ^{Pump} Drum

Huskel pump is a recognized leader in high pressure technology, manufacturing high pressure air driven reciprocating liquid pump.

What is the purpose of Huskel ^{Pump} Drum

- Can hold virtually pressure with no flow or internal leakage.
- Pump non lubricating fluids such as water to very high pressure

How to operate Huskel ^{Pump} Drum

- Pneumatic

What is maintenance required for Huskel ^{Pump} Drum

- O-ring

What is safety precaution required for Huskel ^{Pump} Drum

- Make sure tubing connection in good condition
- Make sure O-ring in good condition.

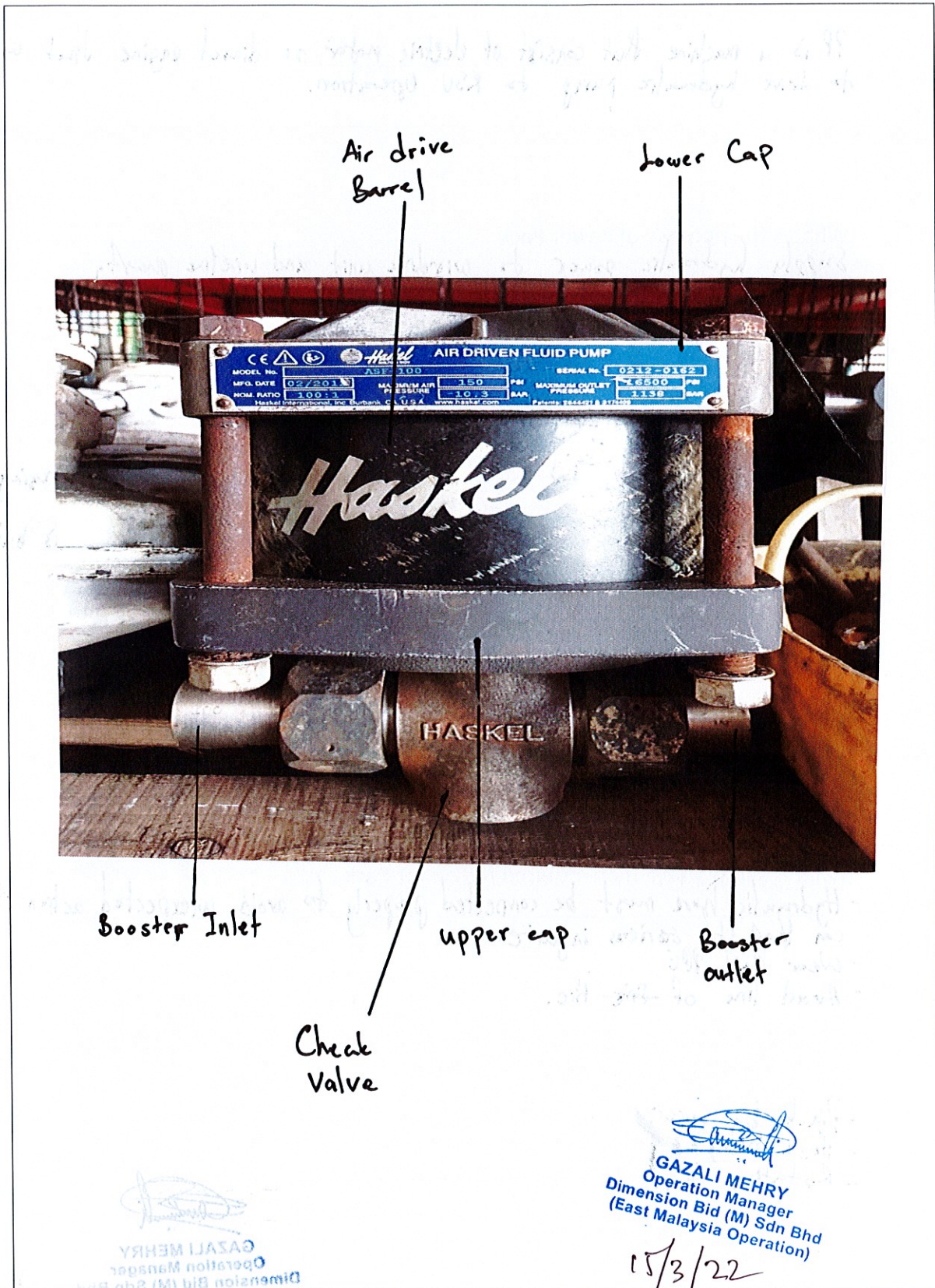
What is potential hazard during handling Huskel ^{Pump} Drum

- Pinch point
- Tubing burst.

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Draw & name each part of Huskel Drum





11. Power Pack (Electrical & Diesel)

What is Power Pack

PP is a machine that consist of electric motor or diesel engine that use to drive hydraulic pump to RSU operation.

What is the purpose of Power Pack

Supply hydraulic power to wireline unit and wireline mast.

How to operate Power Pack

1. Start engine by pulling and hading inlet overspeed shutdown valve and depressing the foot / pedal start start switch.
2. Keep and continue holding the inlet valve (10 second until pressure is built.
3. Release foot / pedal switch and the inlet over speed shutdown valve.

What is maintenance required for Power Pack

- Change engine oil
- Change filter.
- check all gauge
- check leaking
- Check the mpi test.

What is safety precaution required for Power Pack

- Hydraulic hose must be connected properly to avoid unexpected action that can lead to serious injuries.
- Wear full PPE
- Avoid line of ~~fire~~ fire.

What is potential hazard during handling Power Pack

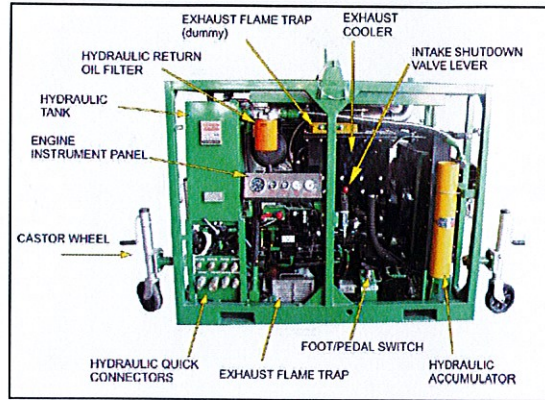
- Pinch by cover.
- Hose burst
- Rotating fan.


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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 have a compressor driven by diesel engine.

What is the purpose of Air Compressor

Supply air to control panel, test pump, air starter engine.

How to operate Air Compressor

The starting procedure is almost same like power pack. The air compressor usually use the spring starter. To crank the starter, rotate the shaft clock wise until indicator turn ~~into~~ to red colour and release the spring to start the engine.

What is maintenance required for Air Compressor

1. Check fan belt tension
2. Change filter
3. Change Compressor oil.

What is safety precaution required for Air Compressor

1. Ensure (PRV) Pressure Release Valve is working.
2. Ensure Engine overspeed functioning.
3. Ensure emergency engine stop functioning.

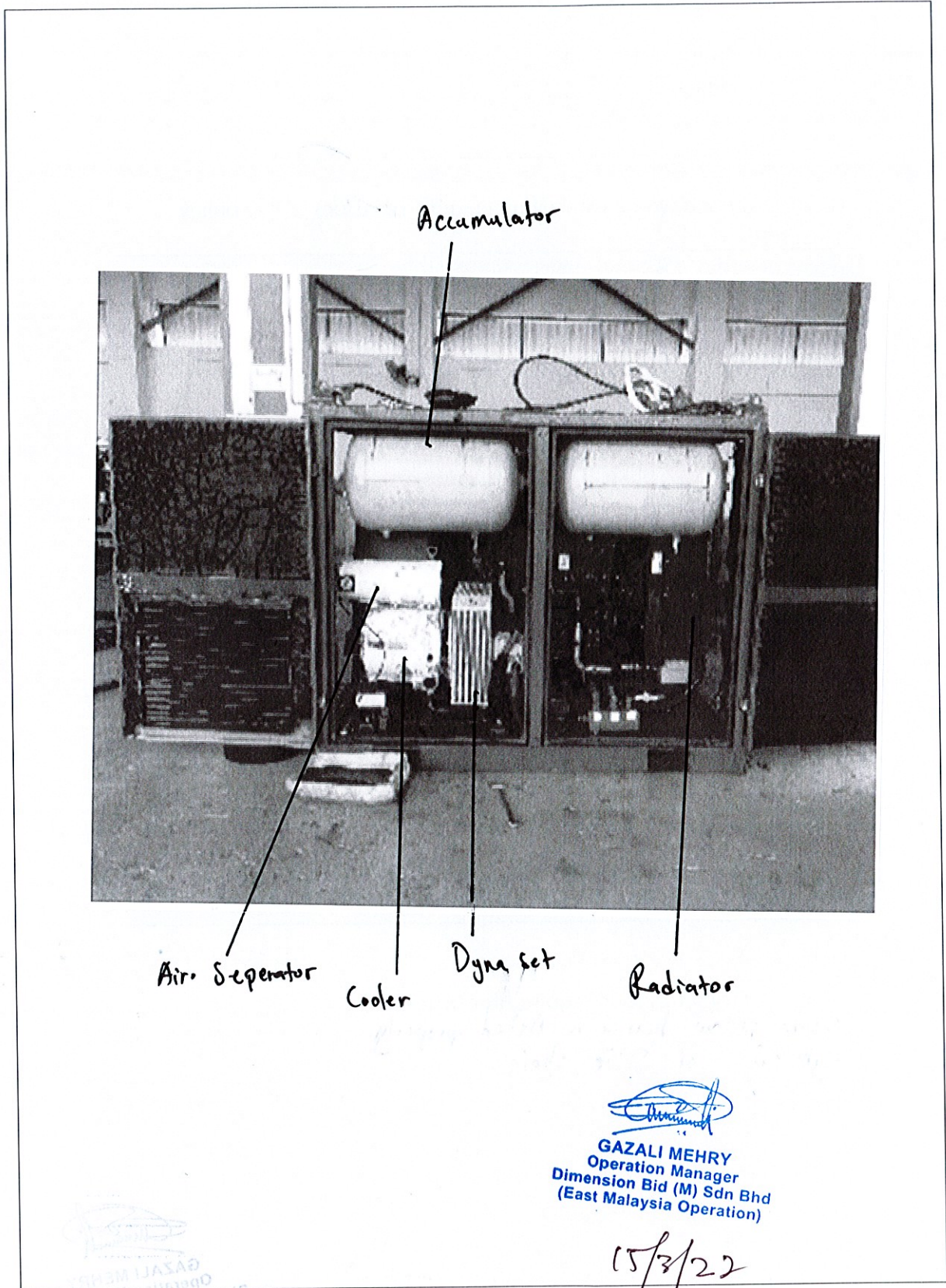
What is potential hazard during handling Air Compressor

1. Hose burst
2. Pinch point.
3. Rotating equipment.


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Draw & name each part of Air Compressor

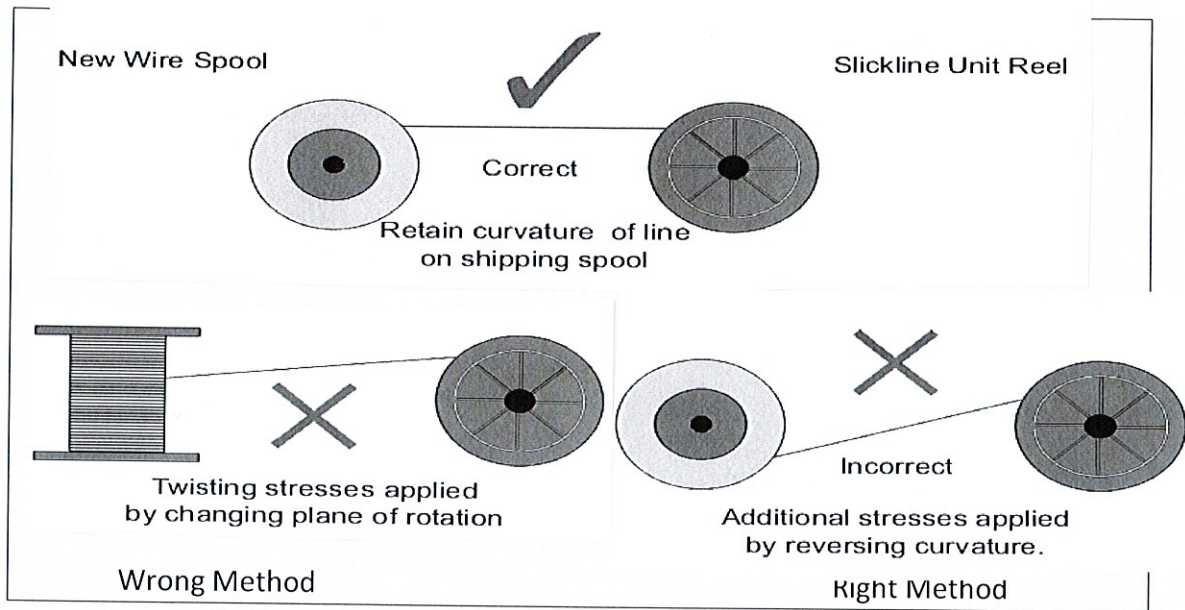


13. Drum

What is the purpose of Drum

To store wire.

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



What is maintenance required for Drum

1. Grease pillow bearing
2. Daily check the drum
3. Check the sprocket.
4. Check drive chain.

What is safety precaution required for Drum

- Ensure pillow bearing is fitted properly
- Right Size of Drive chain

What is potential hazard during handling Drum

1. Wire break.
2. Bolt ported due to excessive drum wobbling wobbling.


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