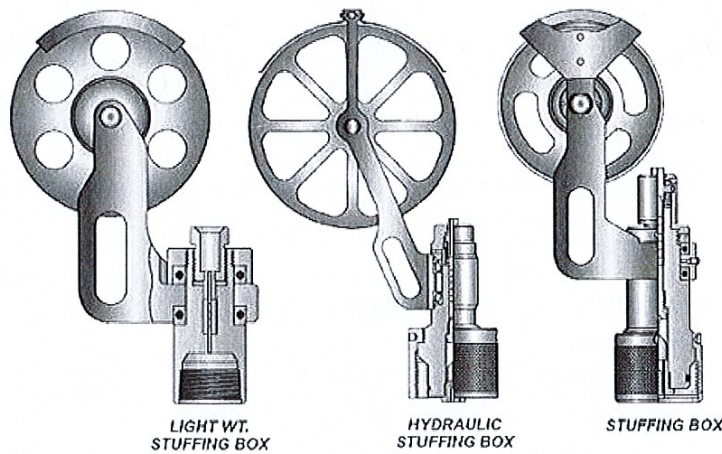




B. SURFACE EQUIPMENT

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 off sand moving or stationary solid wireline at the upper end of the lubricator during wireline operations. ✓

How to operate Stuffing Box

* Can be operated either manually or hydraulically without port 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. ✓

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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 EVES@YAW

Job Step	Potential Hazard	Control Measures
Toolbox Meeting	- Not fully understand the job details before starting the process - Crowded / clash of work at workshop area. - Other personnel not aware surrounding working area. - Unauthorized personnel entering working area. - COVID19 virus infection.	- Raise questions during meeting - Inform the hazards involved at place of work - Barricade working area to prevent any unauthorized personnel to enter - Social distancing. Wear mask at crowded places. Wash hand & sanitize hand.
Arrange Power Pack to work area using forklift	- Dropped object (static & dynamic) - Forklift incident. - Poor visibility due to bad weather. - Fatigue & dehydration. - Rushing during do the job.	- Inspect the lifting gears/sling before use - Authorized personnel using the forklift. - Stop work during bad weather condition. - Take 5 minute to rest & drink more water. - Do time arrangement properly.
Chipping equipment	- Skin injury & fume inhalation from painting (chemical exposure) - Hand/finger injury - Hearing impairment	Wear proper PPE (impact glove and ear plug/muff & face shield) during the job
Housekeeping	- Slip, trip & fall - Time management - Fatigue - Working area not secured.	- Eliminated any potential hazard of slip, trip & fall - Supervision, planning & time management - Take 5 to rest & drink more water. - Wear proper PPE.

Work Activity Participants			
Name	Position	Perform Job Before?	Signature
HENRIKEN	SE	YES	
SAIDEP IVE	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: LEONARD RAEYONG		Name: FADZLIN MOHAMAD IBRAHIM
Signature: 	Signature: Maintenance Manager		Signature: 
Date: 24/03/2022	Date: Dimension Bid (M) Sdn Bhd		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 CONDITON 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	QE	YES	
SAIDED EYES	SE	YES	
MARYIN	SE	YES	

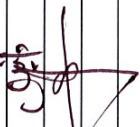
This JHA created by		
Name	Discipline	Position
FAKHRUL HAZIM	SLICKLINE	MT

WORK ACTIVITY RESPONSIBILITY		JHA SUBMITTED BY
Work Leader	Receiving Authority (Supervisor)	
Name:- HENRIKEN	LEONARD KALYONG Maintenance Manager	
Signature:- 	Signature: Dimension Bid (M) Sdn Bhd	
Date:- 24/03/2022	Date:- Labuan Warehouse	
	24 MAR 2022	
	Slickline Services	

JHA ACCEPTED BY	
Approving Authority (SHO)	
Name:- FADZLIN MOHAMAD IBRAHIM	
Signature:- 	
Date:-	
	24/3/2022

LOCATION	DB LABUAN WAREHOUSE	DATE:	
TASK	PAINTING SKID EQUIPMENT	JHA REFERENCE NO.	
WORK SITE	WORKSHOP AREA	ASSESSMENT 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
HEMIEK	SE	YES	
SKIDED BUS	SE	YES	
		YES	

This JHA created by		
Name	Discipline	Position
FAKHRUL HAZIM	SLICKLINE	MT

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

FATIGUE AT WORKPALCE

PRESENT BY
SAIDED EVES
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, myagia, and burnout syndrome.

3. Diminished productivity

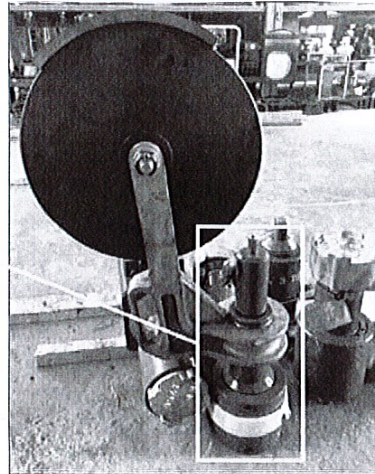
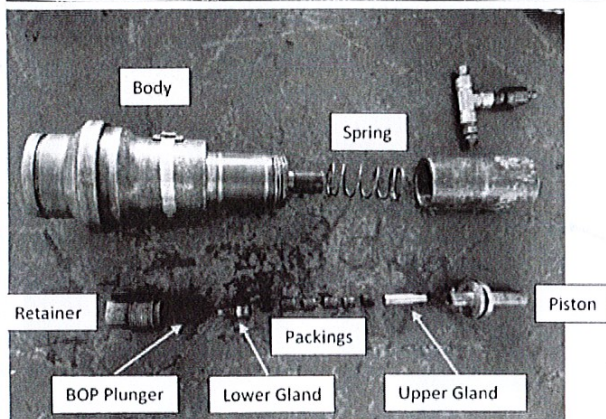
No matter how strong the workforce, if they are tired from being overworked, it will affect their productivity and performance.



What is potential hazard during handling Stuffing Box

*leakage or packed Stuffing Box
A wireline breaks.*

Draw & name each part of stuffing box



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2. Lubricator

What is Lubricator

enables -
manoeuvre
Lubricator enables the wireline tools string and equipment to be inserted or removed from well under pressure.
It has 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 snobs
Crane / snipe / mast

What is maintenance required for Lubricator

Inspection on the body lips / magnets
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

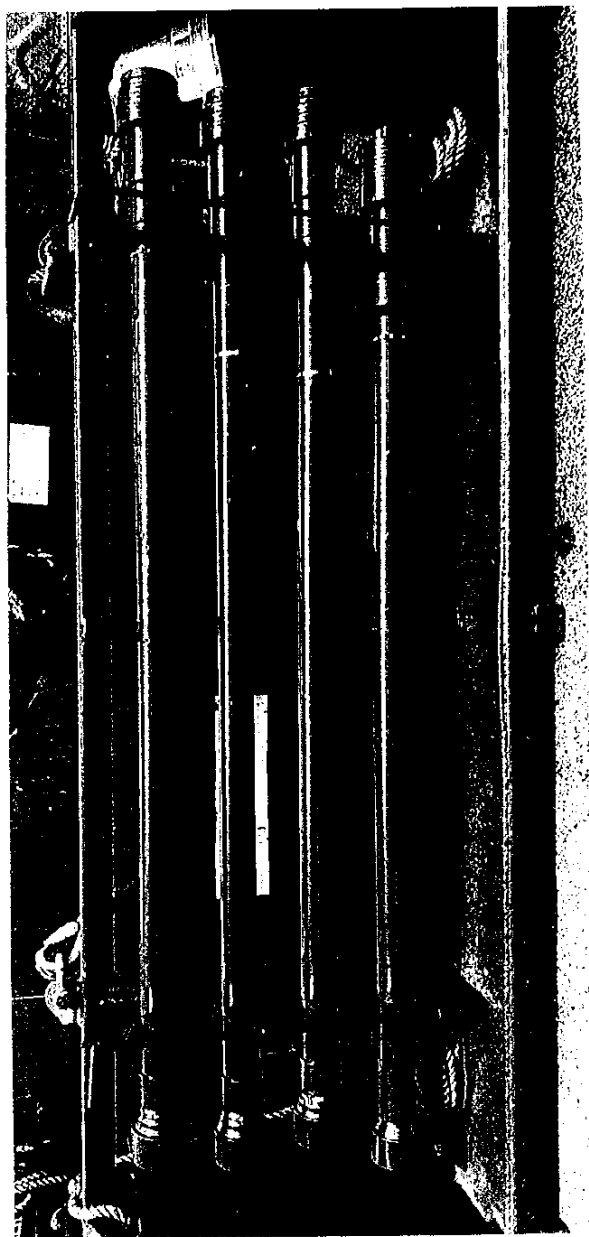
Wire tracking can cause by wire cutting inside well
Deep O/S
Spool joint.


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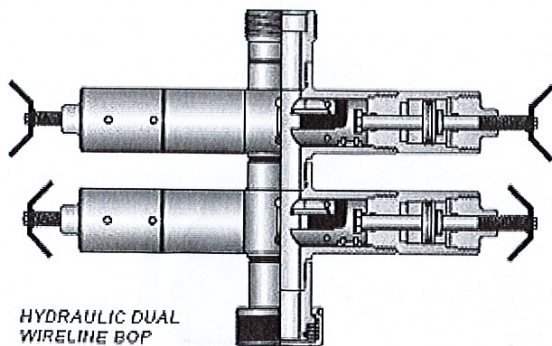


Draw & name each part of Lubricator

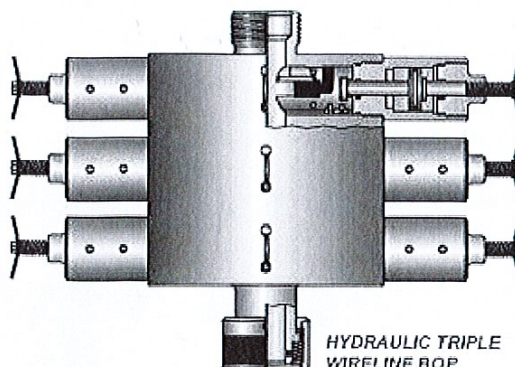




3. Blowout Preventer (BOP)



HYDRAULIC DUAL
WIRELINE BOP



HYDRAULIC TRIPLE
WIRELINE BOP

What is BOP

* BOP is a piece of equipment installed at the top of a well to prevent blowouts.

What is the purpose of BOP

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

How to operate BOP

* manually & hydraulically
* RST 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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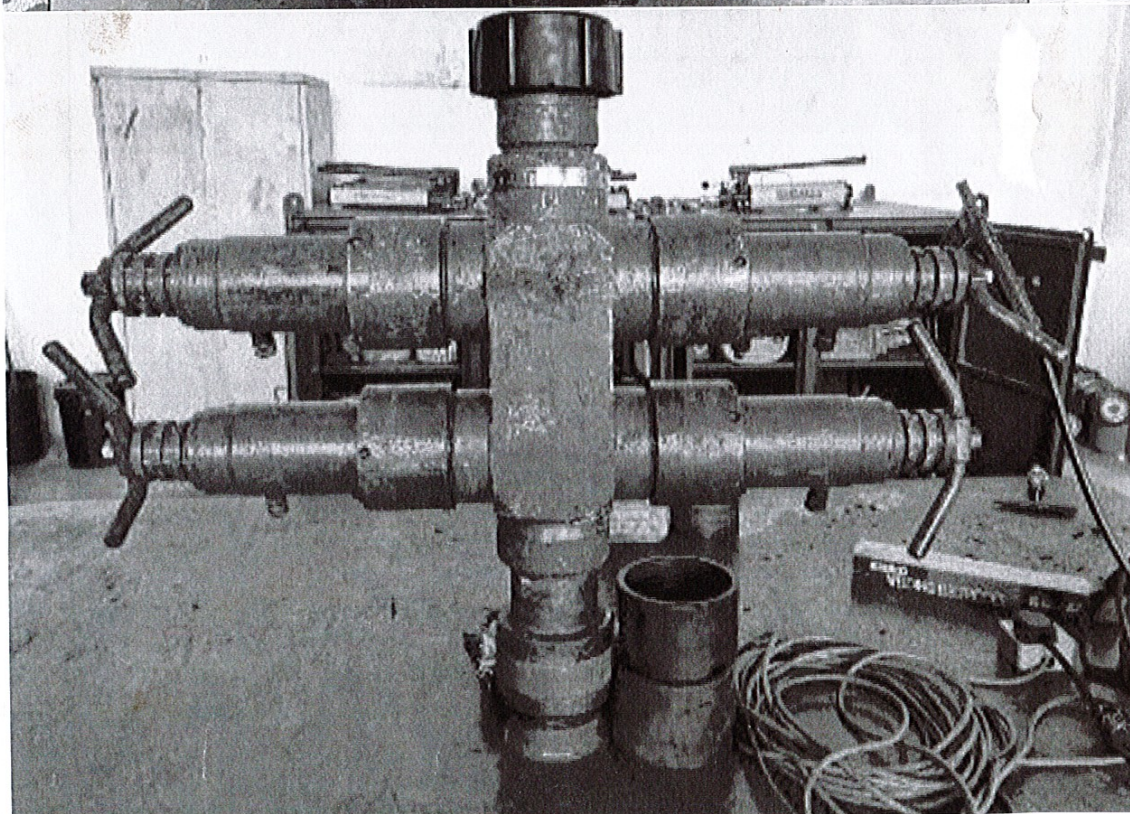
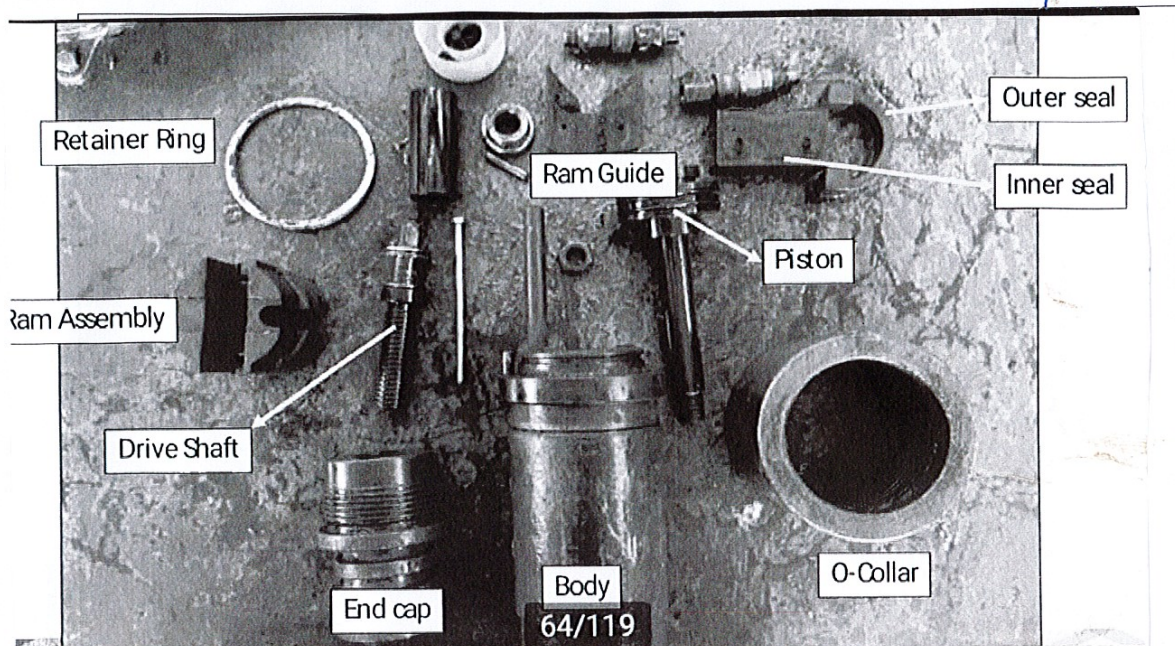
What is potential hazard during handling BOP

** Pinch point
* Drop Object*

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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.
- * Such valves are 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 components.
- * Never use matters valve to shut in the flowing well / use swab/wing valves instead.

What is potential hazard during handling x-mas tree

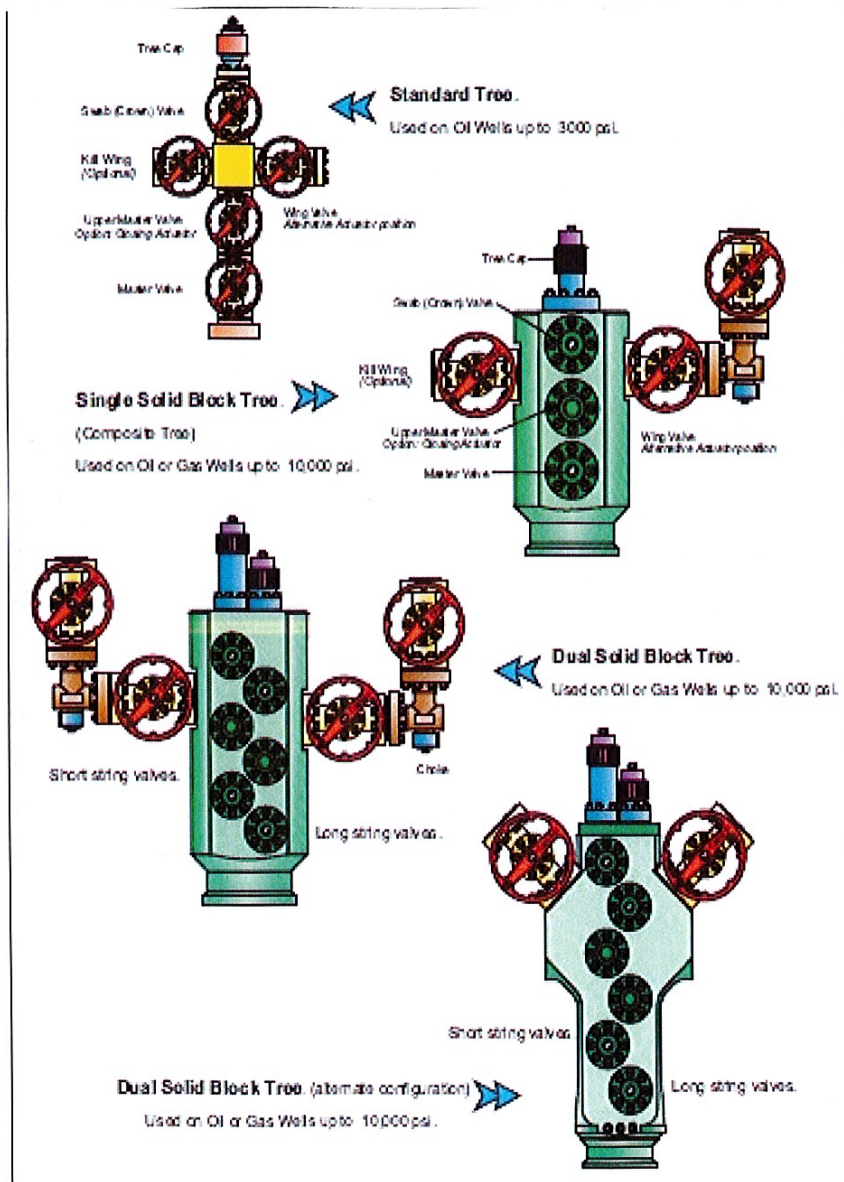
- * Blowout.

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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 2 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

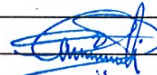
* Ensure gear in a natural position
* Check device chain tension
* Put back on.

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

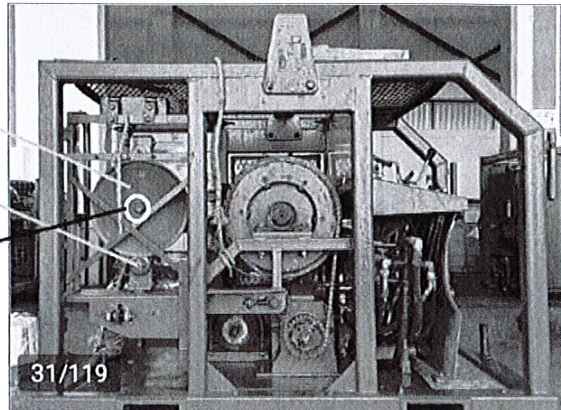
Basic Control ① Drum brake ② Direction lever
③ Hydraulic Control Valve (AA) ④ Weight indicator
Reel skid unit ⑤ odometer.

Counter Head/Wheel

Pressure Wheel

Connected to counter head

Connected to odometer



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.

What is the purpose of Odometer

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

How to operate Odometer

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

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.

What is safety precaution required for Odometer

* wear full PPE.

What is potential hazard during handling Odometer

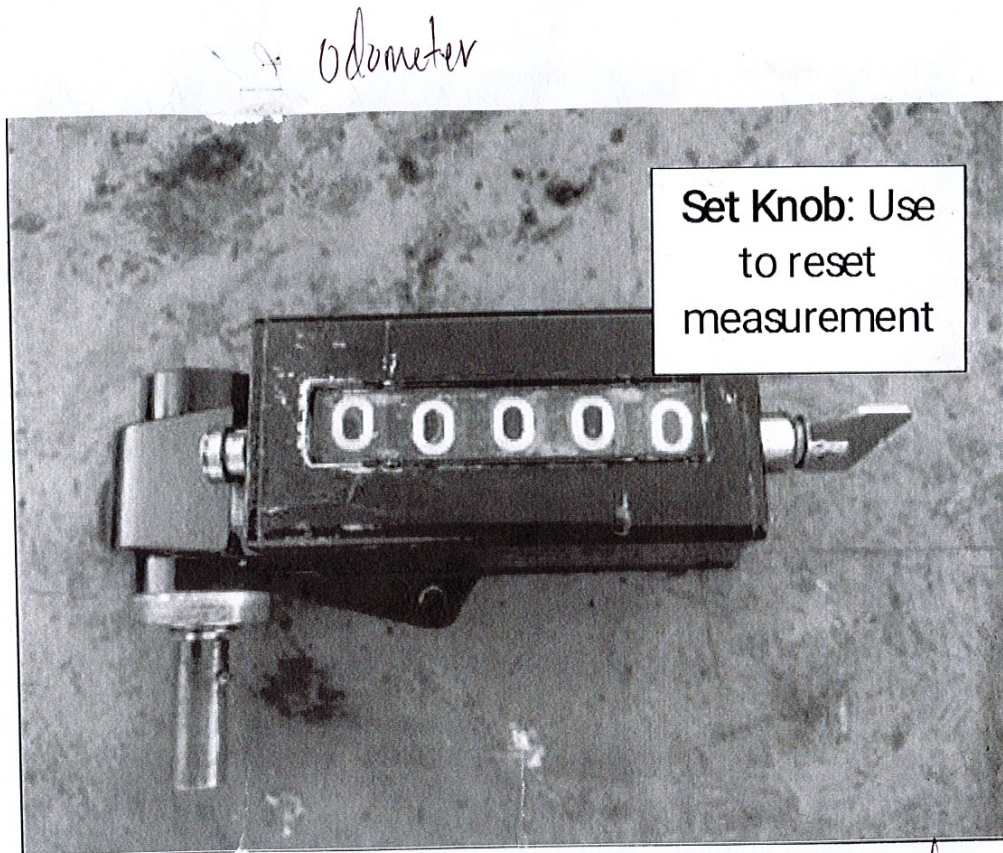
* pinch point
* sharp edger.


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Draw & name each part of Odometer



known as depth Counter @ Depth Measuring device-


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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

What is maintenance required for Weight Indicator

Kinked,
wire break.
* Check the hose and change if there is any leak.
* Refill the w-l 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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8. Spooling Device

What is Spooling Device

* Generally are configured with removable drum that allows transport 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 flexi 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
* worn parts.

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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 equipment.

What is the purpose of Control Panel

* To Control the PLE equipment such as:
- BOP
- safety valve
- Chuffing Box

How to operate Control Panel

* Connect the control line to the equipment
* open air supply use regulator to control pump
BOP 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

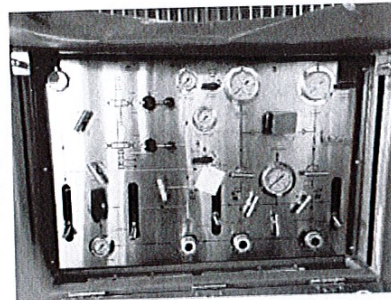
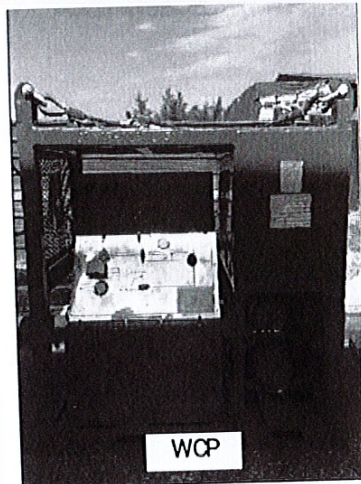
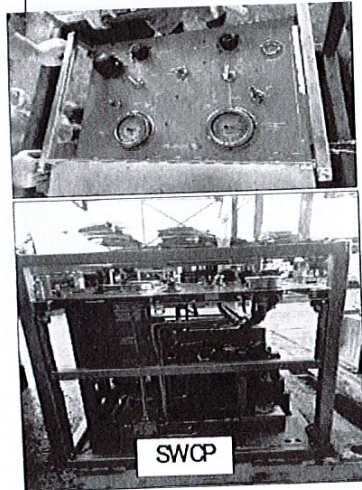
* Connection loose.


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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 ^{Pump} 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, turn 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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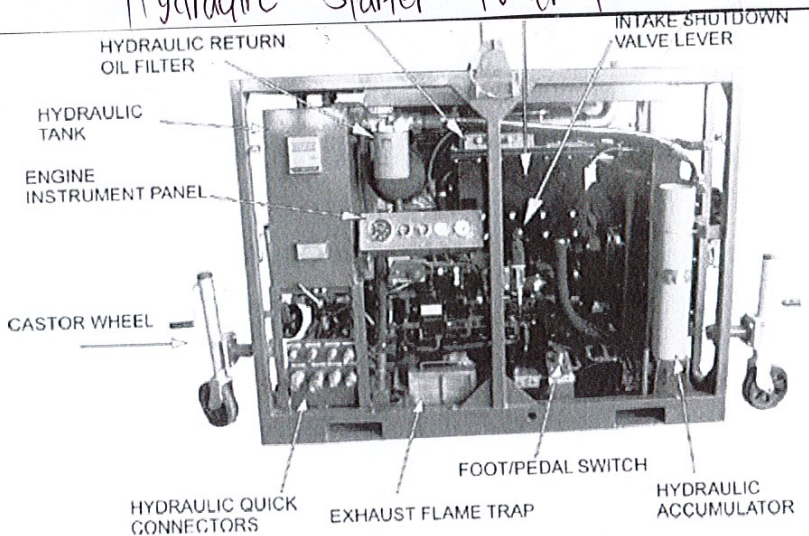


Draw & name each part of Power Pack

* 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 psi)
- * Hydraulic pp(sop) 25 feet long hose
 - Supply hose : 1 inch
 - Return hose : $1\frac{1}{4}$ inch


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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

* 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.

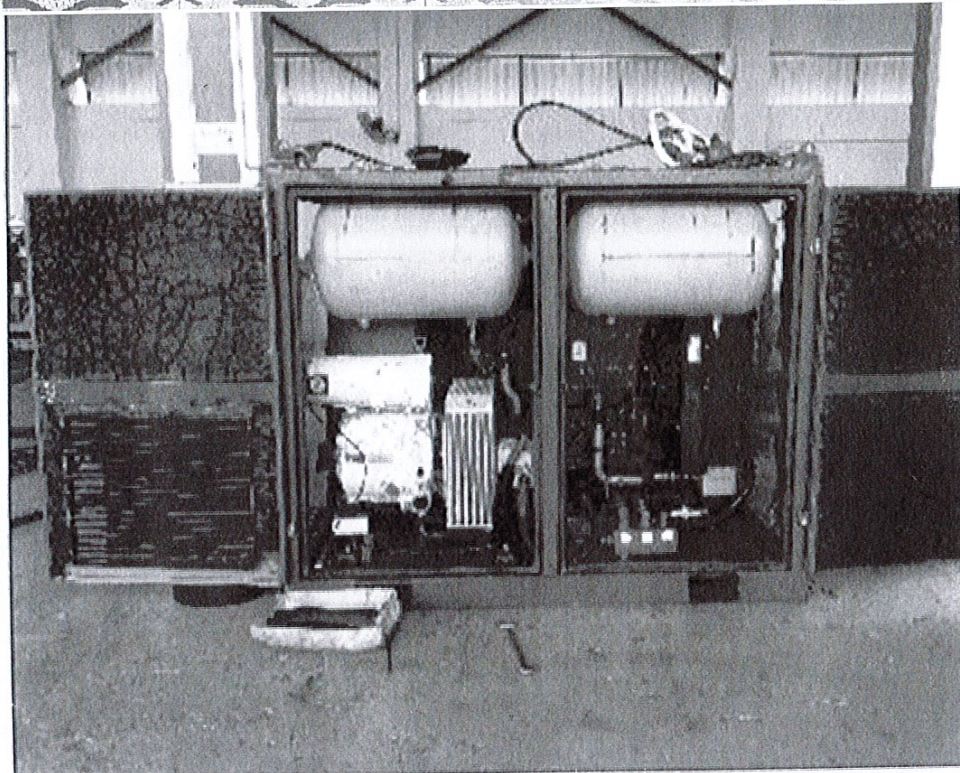

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Draw & name each part of Air Compressor

Air Compressor



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


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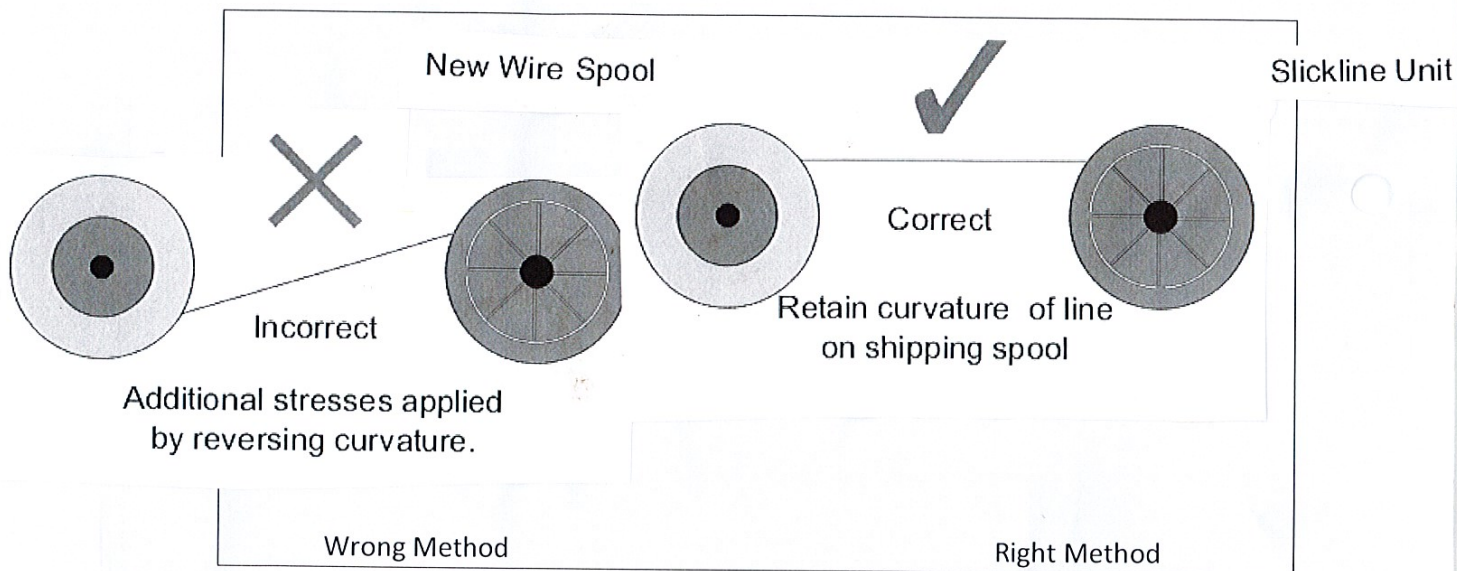
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13. Drum

What is the purpose of Drum

* to spool the wireline wire

Do the right and wrong wire arrangement from drum to 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.

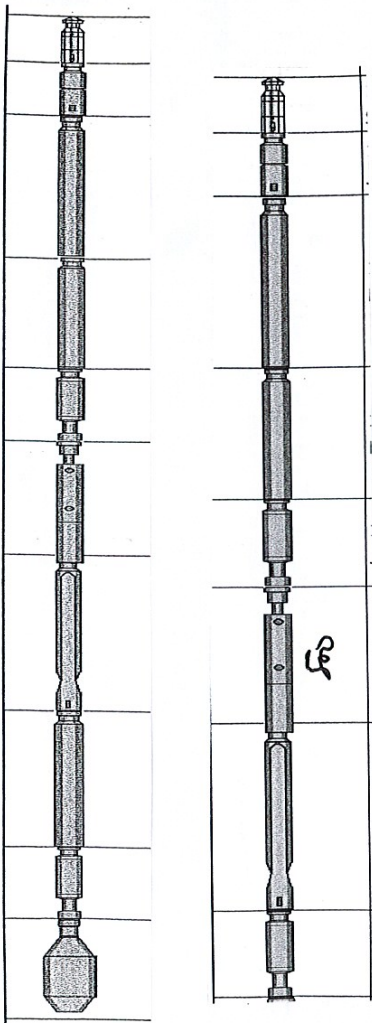

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Please draw/sketch the toolstring configuration for:

- 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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