SLICKLINE ASSISTANT WORKBOOK

IMPORTANT NOTE:

1. Your point of reference to complete this workbook may be obtained from the following
   - Training Manual and any other training materials provided together with this workbook
   - Your Trainer, Assessor (Slickline Operator), Verifier (FSM) or senior colleagues
   - SOP / Quality Procedures & Processors
2. The completion of this Workbook is a joint effort and responsibility between you and your assessor therefore you have the obligation to request from your assessor to be assessed upon your completion of each topic
3. The completion of this Workbook is part of the MANDATORY requirements which you must fulfill to qualify for a promotion
4. Your training program is mostly self-driven, including this Workbook. It requires individual initiatives, dedication and commitment to complete the process.

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DATE OF JOIN	1 November 2022
CONTACT NO.	0138012291
RECEIVED DATE	23 NOV 2022
DATE COMPLETED	27/1/2023

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27/1/23

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INTRODUCTION

CORPORATE PROFILE

Dimension Bid is a Malaysia-based International Well Intervention and Perforation Services company, specializing in Slickline Intervention, Cased Hole Electric Line Logging, Coiled Tubing Services and Braided Line Fishing. Established in 1994 and home-grown, Dimension Bid has developed into a full-fledged intervention service company, having more that 20 years of experience in providing services to National Oil Companies and Multi-National Oil Companies domestically and internationally. Our footprint is located across Malaysia, South East Asia and Central Asia, reflecting our ambition to be a truly global Well Intervention Solutions Partner.

THE GROWTH

Growing from strength to strength our list of client includes Sarawak Shell, ExxonMobil, PCSB and Talisman-Energy Malaysia Limited, ROC Oil, just to name a few. Our involvement expanded from production drilling operations

OUR TEAM

From a humble beginning of 18 employees in 1997, Dimension workforce has now grown to over 200 employees. we believe in realizing full potential of every employee - reason for substantial investment allocated to train everyone, both locally and abroad, in order to achieve the expected high performance and professionalism.

MISSION

To enrich client's business through our expertise in providing an integrated, high-value added solutions in the oil and gas industry.

VISION

To be a Solution Partner of choice to our clients.

THE PHILOSOPHY

Continuous pursuit of excellence in anything we do.

PUBLIC COURSE RECORDS

1. Offshore Safety Orientation

Date Training	Venue	Expiry Date

2. Sea Survival

Date Training	Venue	Expiry Date

3. Basic Fire Fighting

Date Training	Venue	Expiry Date

4. H.U.E.T

Date Training	Venue	Expiry Date

5. Permit to Work

Date Training	Venue	Expiry Date

6. IWCF

Date Training	Venue	Expiry Date

7. Public Courses

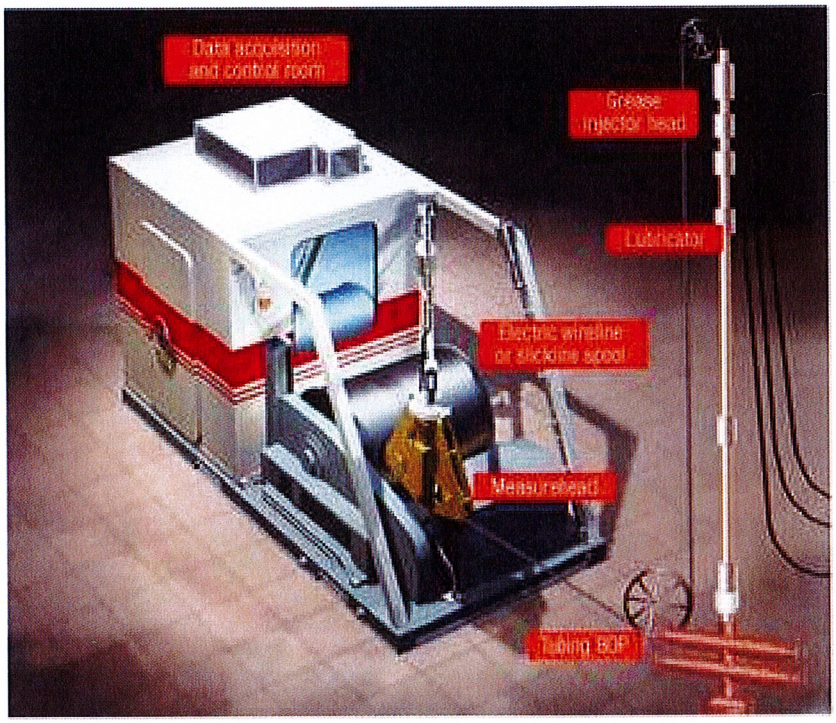
Date Training	Training Topic	Venue

8. In-house Training

Training Date	Training Category	Training Subject / Title

Training Category: HSE / Technical Presentation / PCE / Surface Equipment / Tools

Module 1: Basic of Wireline - Equipment and Operation



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Module 1: Basic of Wireline - Equipment and Operation

	DESCRIPTION	THEORY & ASSIGNMENT		
		DATE	ASSESSED & APPROVED BY	VERIFIED & APPROVED BY
A	**Basic Safety**			
1	PPE	27 JAN 2023	ABRAHAM HSSE OFFICER	
2	Responsibilities	27 JAN 2023		
3	Policies	27 JAN 2023		
4	Hazard ID & Incident Report	27 JAN 2023		
5	Operational Safety	27 JAN 2023		
B	**Surface Equipment Familiarization**			
1	Stuffing box	30/1/23		
2	Lubricator			
3	Blow Out Preventer (BOP)			
4	X-Mass Tree			
5	Wireline Reel Skid Unit (Single Drum & Double Drum)			
6	Odometer			
7	Weight Indicator (200 lbs and 4000 lbs)			
8	Spooling Device			
9	Control Panel			
10	Huskel pump			
11	Power Pack (Electrical & Diesel)			
12	Air Compressor			
13	Drum			
C	**Downhole Equipment Familiarization**			
1	Basic Toolstring	30/1/23		
2	Pulling / Running Tools			
3	Wireline Wire			
4	Inspection / Maintenance of Tools			
D	**Rig-up Wireline Surface Equipment**			
1	Wireline Mast	30/1/23		
2	Lubricator Assembly			
3	Operating the BOP			
4	Make Rope socket and Toolstring Configuration			
5	Toolstring Configuration			
6	Operate the Control Panel and Huskel Pump			
7	Service of basic wireline tools			

Comment:

A. Wireline Operation Basic Safety Protection

1. Personal Protective Equipment

1.1 What is definition of Person Protective Equipment

- Personal Protective equipment is protective clothing such as safety helmet (safety footwear, hand gloves, harness and goggles) to minimize exposure to a variety of hazards

1.2 List out all compulsory PPE required to be worn while perform job offshore

- Coverall
- safety helmet
- goggles
- impact hand gloves
- safety tools
- life jacket - (boat transfer)
- Hearing protection device

1.3 List the area where the PPE should be worn while working

- Hazardous area at working place
- work site at platform
- PPE zone

1.4 List the PPE should be worn while doing maintenance at tools and equipment

- coverall, safety helmet, goggles, hand gloves and safety boots

1.5 PPE should you wear while working in mercury and H_2S are

- Chemical protective cloting, chemical boots, chemical safety goggle chemical gloves chemical boots and respiratory protection.
- Wear H_2S detector device.

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2. Responsibility

2.1 Employee Responsibilities towards Health, Safety and Environmental (HSE)

- employee have a duty to take care of their own health and safety that of others who may be affected be your action at work must sure safe working practice are set up and followed
- expect the environment, making rational use of natural ~~resource~~ resources and taking steps to prevent polution

2.2 What are the safety precautions to be taken during tool maintenance at warehouse?

- keep area clean and organized
- wear appropriate PPE
- use the right tool
- be aware of your surrouding

2.3 When should we do housekeeping?

- before and after work

2.4 Why housekeeping is important?

- good housekeeping can help control or eliminate work place hazard

2.5 How should you react while seeing somebody committing into unsafe act/behavior?

- approach the personal stop her/he from doing the unsafe act and explain the consequences ~~that~~ that might caused from the act
- raise stop card

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3. Policies

3.1 List down all DB policies in regards to HSE

- Stop work
- Drug and alcohol
- driving
- PPE
- Harrasment in workplace
- Smoking
- HSSE

3.2 What is HSE Policies

- HSE policy is written statment by employer showing the company commitment to the protection, health and safety of employes and to public

3.3 What is the purpose of 'STOP WORK' policy?

- a policy design to provide employes and contracted workes a responsibility and obligation to stop any works when observing unsafe condition or act that may result into an undersired event

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4 Hazard ID and Incident Reporting

4.1 How can we report hazard or unsafe act?

- observe
- action
- finding / report
- agreed solution - follow up if necessary

4.2 If there is an incident happened at workplace what should we do?

- Stop work
- Report immediately within 24 hours
- write report
- forward the report to HSE Officer, HSE manager, FSM, GM

4.3 What is the incident reporting process?

- stop work
- report near miss
- report must be made via written report
- forward the report to HSE ~~offshore~~ officer, HSE manager, FSM, GM.

4.4 What is the purpose of Hazard Hunt? And how does that help to be safe?

- to be always aware and more careful in avoiding any accident happen,

4.5 Please explain what is Near Miss

near miss is an accidents where no property was damaged and no personnel injury were sustained

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4.6 In case of emergency,

a) Firstly what should you do?

stop work, report to HSE officer, shout for help and raise the alarm

b) Where is DB assembly point (Base)?

outside the main gate

4.7 Where can you find the emergency contact Number?

Meeting room, Pantry, Smoking area

5. Operational Safety

5.1 How to prevent an accident before executing certain job or activities

tool box talk must be done and all works involved at the activities must pay attention and discuss about the hazard and how to prevent them

5.2 What is the purpose of Safety Morning Meeting

to help workers and customers safe and to create awareness or encourage active participation concerning on specific topic

5.3 What is the purpose of briefing and Debriefing

- Briefing provide the info needed to direct employe resource this info also used for meeting response in order to obtain available info

5.4 What is Permit To Work (PTW)

PTW system used to ensure the work is done safety and efficiently - a document procedure that authorise certain people to carry out specific work within a specific time frame

5.5 Explain what do you understand from Job Safety Analysis and how does this help you to be safe?

JSA is a technique to identify the danger of specific task in order to reduce the risk of injury to the workers

5.6 What are the safety precautions to be taken during tool maintenance at warehouse?

- Keep area of workplace clean and organized
- wear appropriate PPE
- supervised by team leader
- provide training

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5.7 What are the safety precautions to be taken during topping up the fuel into Power Pack Tank?

- wear appropriate ppe, use caution and fill tank slowly to avoid spilling fuel
- avoid any spark at workplace
- Diesel Container must have flamable logo
- No Smoking while perform task

5.8 What is work permit & why do we need them?

- work Permit is to ensure the work is done safely
- work permit is the permission to take job
- warning of pobible hazards
- to avoid all precaution needed for the job to be done safely

5.9 When do we apply the work permit

- before do ~~certaine~~ certain job

5.10 What are the safety precautions to be taken during test lubricator and BOP?

- barricade the workplace
- test the lubricator and bop at ~~test~~ test bay
- attend JSA

5.11 What are the safety precautions to be taken during test Control Panel?

- barricad from Peace
- maintain no lifting to all hoses connection be guided by competent person
- attend JSA

5.12 Why JSA, Risk Assessment and Job Plan need to be discussed among the team member? How does that work?

- to ensure the member aware of activity procedure and risk so thus the team member will work in accordance to procedures set out and be careful in avoiding any risk / hazard

5.13 While working, you found that there is something unsafe. What should you do?

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- Stop work immediately report to supervisor and discuss how to solve the unsafe condition act
- raise stop card
- observing
- report to hse manager

5.14 Before performing a hot work, what must you do/ have to ensure the work is safe

- attend the tool box talk and understand the job description properly considering the risk that may be supplied during operation
- barricade the area
- remove flamable/ combustible material.
- proper PPE

Others

1. Please attach the supporting documents that you participated in Dimension Bid's Safety program.

   a) Job Safety Analysis for each activity that you involve during probation period

   - Chipping
   - Painting
   - Lifting
   - Spooling
   - Pressure Test

   b) Hazard Hunt

   c) Safety Talk

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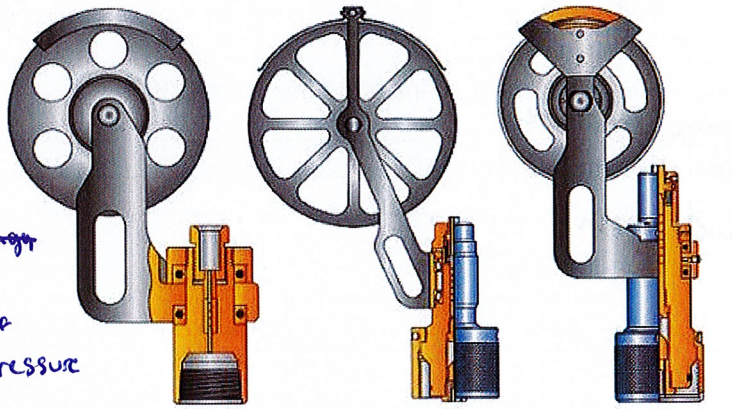
B. SURFACE EQUIPMENT

1. Stuffing Box



* Provide safety feature in case of hydraulic failure
* If wireline ~~breakage~~ breakage internal blow plug seal and flow hold the pressure

What is Stuffing Box

- is a guides the wire from the bottom flow pulley into the top of lubricator rig up

What is the purpose of stuffing Box

- allows the wireline to enter the well under pressure and provide a seal should be wireline break and be blow out of packing.

How to operate Stuffing Box

- can be operate either manually or hydraulically without any part modification

What is maintenance required for Stuffing Box

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- Check the packing to make sure it is not worn at and replace if needed
- Check the sheave bearing for free spinning and do replace the bearing if necessary

What is safety precaution required for Stuffing Box

- Avoid the packing from worn out
- use correct size sheave for the line use

What is potential hazard during handling Stuffing Box

- leakage pressure
- wireline break
- pinch point

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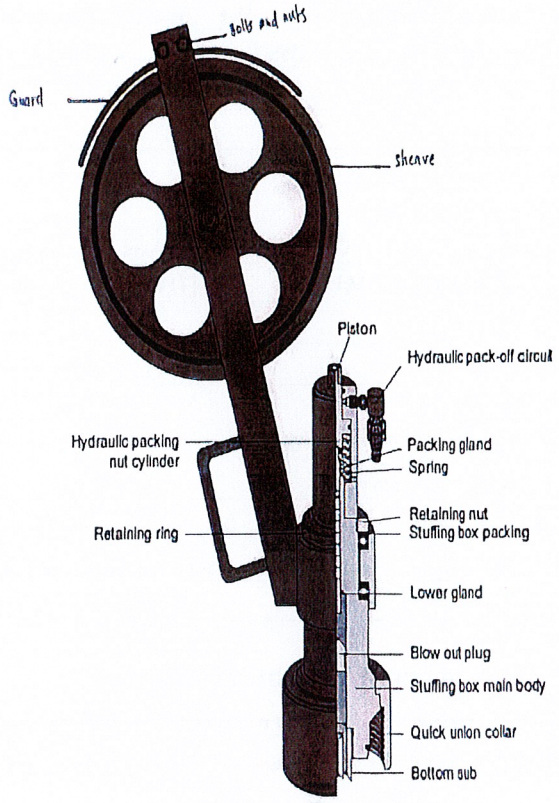
Draw & name each part of stuffing box



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2. Lubricator

What is Lubricator

- lubricators also known as risers are a series of inter-connected lengths of pipe.

What is the purpose of Lubricator

- is to Provide a space for the tool to be Contained in under pressure, when opening and closing the wellhead

How to operate Lubricator

- operate by using the chain blocks wireline mast and crane assembly process until lifting rig up.

What is maintenance required for Lubricator

- General damage and corrosion
- the condition of needle valves on the lower section.
- visual inspection of the internal bore for corrosion and wire tracking.

What is safety precaution required for Lubricator

- check the Quick union condition of oring groove, pin and box sealing surface condition and the size of pin

What is potential hazard during handling Lubricator

- Back injury may occur due to heavy weight objects
- Lack of Condition may cause the lubricator to stop and can cause injury

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Draw & name each part of Lubricator

NOW Ported

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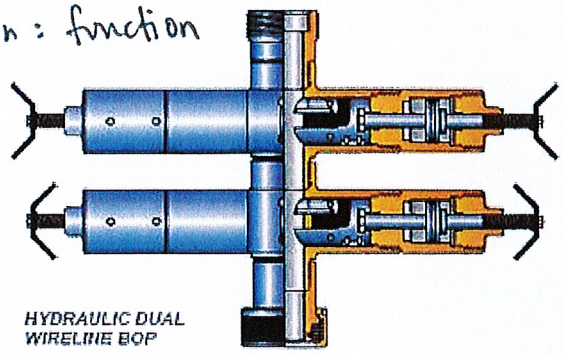
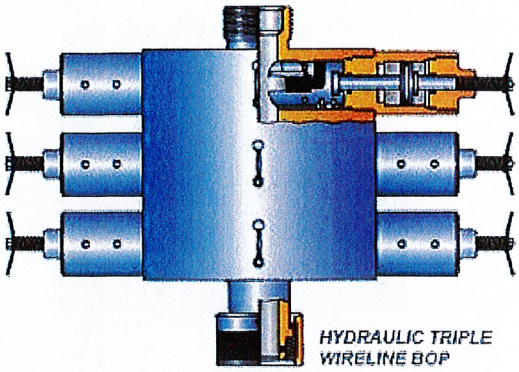
3. Blowout Preventer (BOP)

* emphasize on : function
- inner seal
- outer seal
- blind ram
- guider


HYDRAULIC DUAL WIRELINE BOP


HYDRAULIC TRIPLE WIRELINE BOP

What is BOP
- to seal the line * ensure Pressure to be isolated with out Cutting wire

What is the purpose of BOP
- Enable the well pressure to be isolated without cutting the wire by closing master valve.
- allow slickline work under the well pressure on surface equipment, while wire in the well bore

* How to operate BOP
- manual and hydraulic hydraulically
- RSV and panel unit

What is maintenance required for BOP
1). wash down
2). initial inspection - remove rams, cylinders and inspect.
3). Grease up and rebuild
4.) function and Pressure test at working pressure
5.) Check lifting gear and record last certification type and date.

What is safety precaution required for BOP
- to take sure all the O-ring are in good condition to avoid any leakage

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What is potential hazard during handling BOP

- Back injury can happen
- drop Object due to lack of Caution

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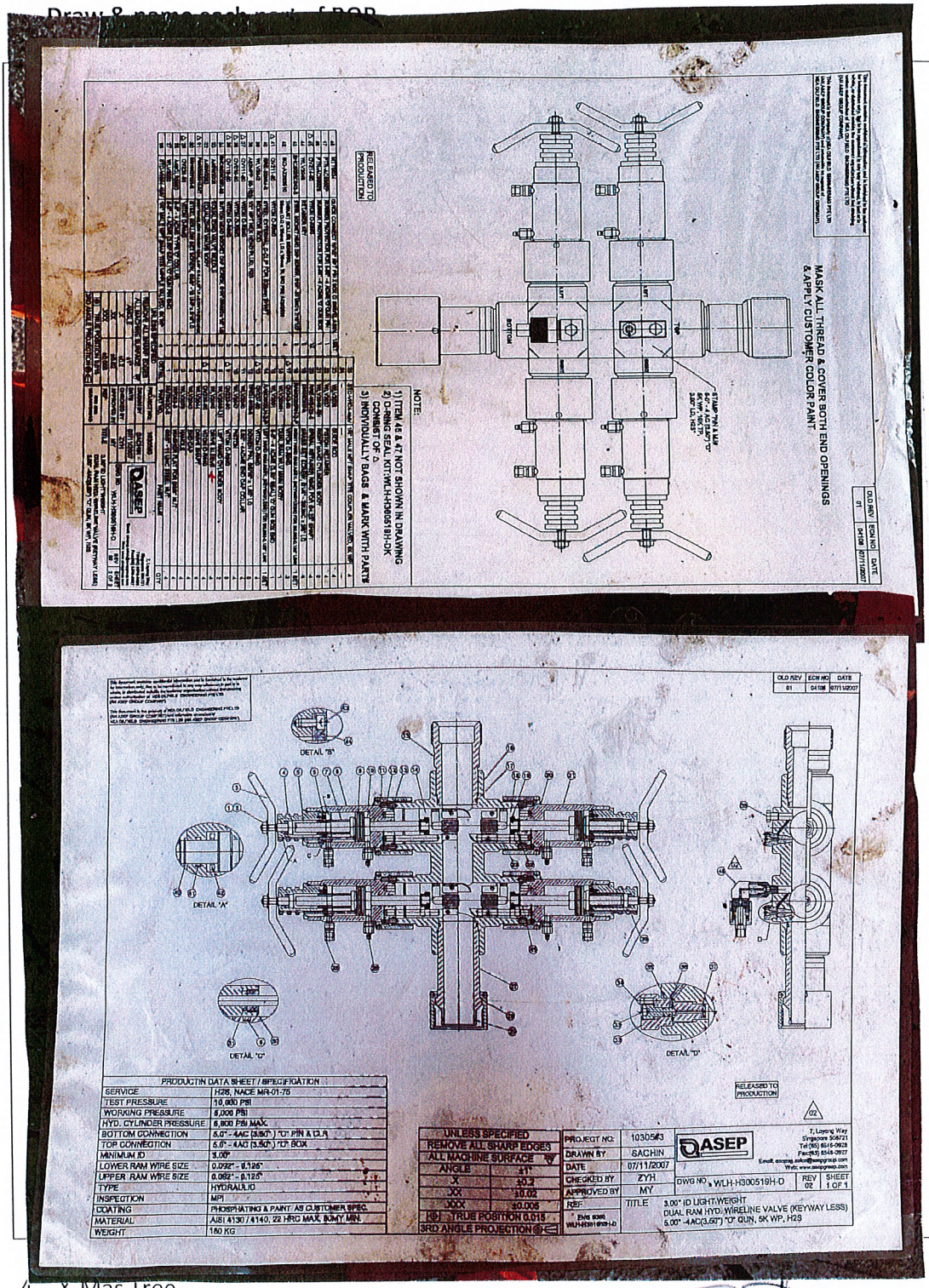
Draw & name each part of BOP



4. X-Mas Tree

What is x-mas tree

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- series of valve installed on the wellhead to control flow of fluids from the well and it is located on top of wellhead
- 3 type : 1, solid Block xmas, 2 composite Block xmas, 3 horizontal xmas tree

What is the purpose of x-mas tree

- to control the flow of fluids from the well

How to operate x-mas tree

- operates with 6 valve : (1) lower master valve (2) upper master valve (3) flow wing valve (4) choke valve (5) kill wing valve (6) swab valve
- manual operates

What is maintenance required for x-mas tree

- visual inspection
- repairs to avoid corrosion
- Part replacement if needed

What is safety precaution required for x-mas tree

- Do not overtighten the valve during opening and closing
- never use the master valve to shut in flowing well except in the emergency situation.

What is potential hazard during handling x-mas tree

- Blow out can happen

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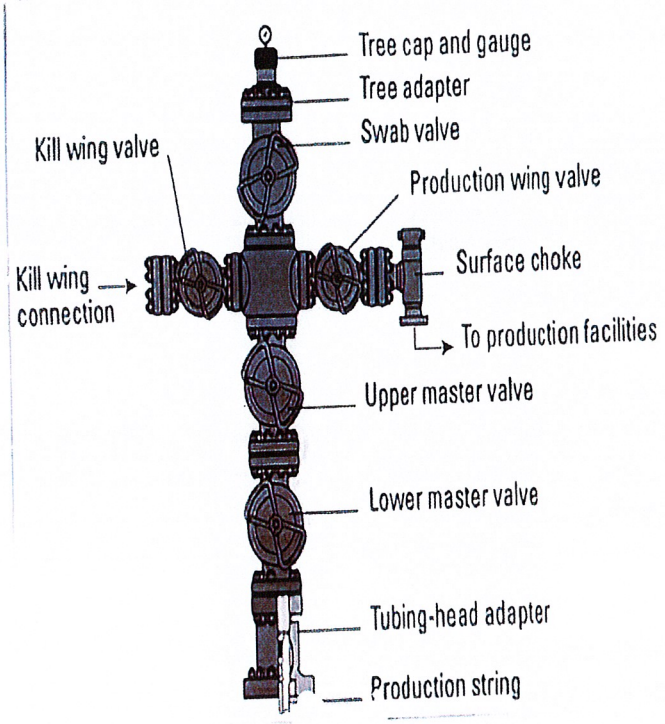
Draw & name each part of x-mas tree



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

What is RSU

- also known as wireline unit or winch

What is the purpose of RSU

- used to carry downhole equipment or tools in and out of the wells

How to operate RSU

- hydraulic power by power pack that provide flow and pressure to hydraulic drum motor
- winch can fit with one or two wireline drum

What is maintenance required for RSU

- Daily inspection such as inspecting pipe work, hoses and fitting.
- Yearly inspection such as renew oil in all gear pot

What is safety precaution required for RSU

- make sure wireline unit is chained to non removable object
- always wear sunglasses and proper handglove

What is potential hazard during handling RSU

- wire brake can happen
- pinch point

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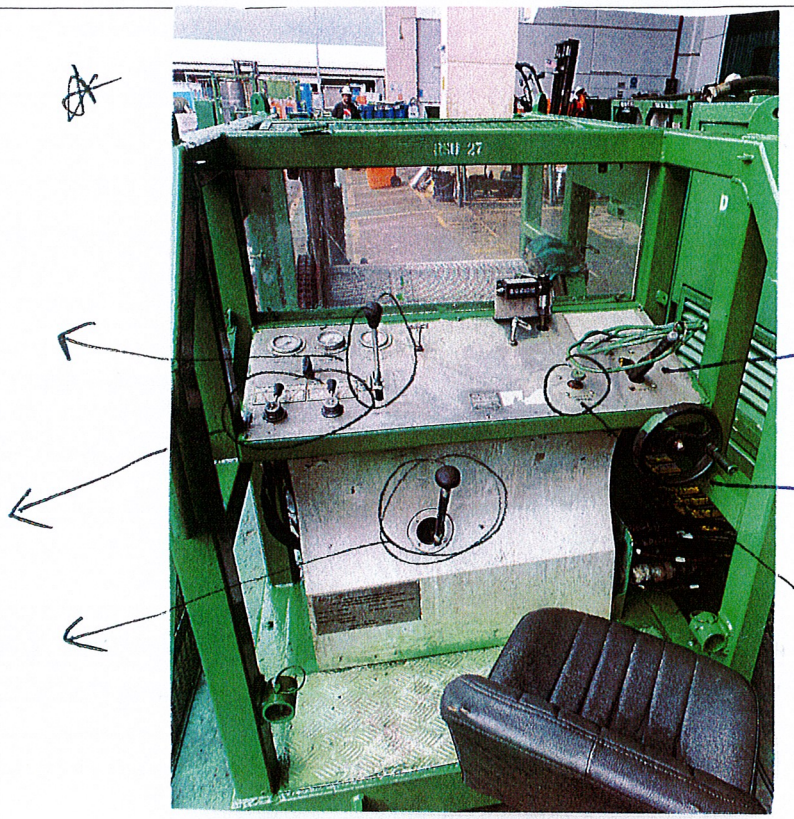
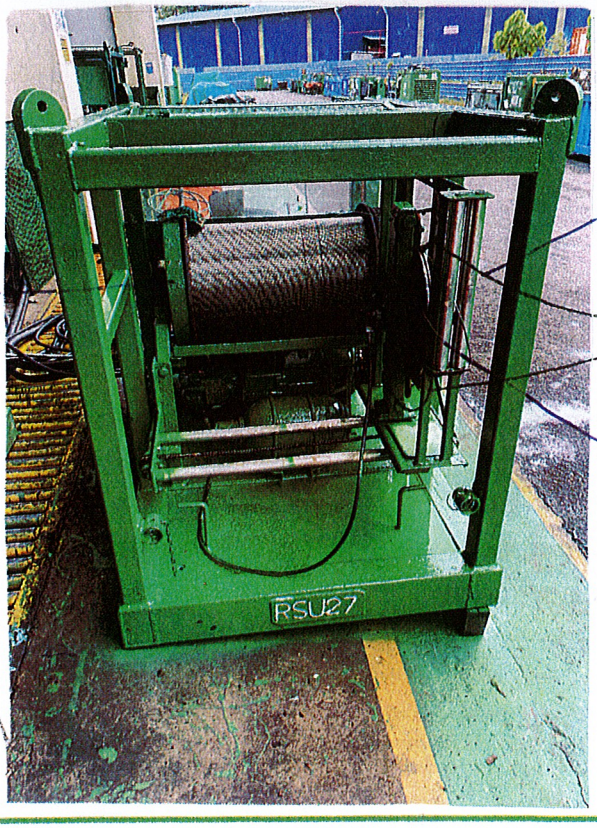
Draw & name each part of RSU





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6. Odometer

What is Odometer

- also known as depth counter and depth indicator

What is the purpose of Odometer

- use to indicate wireline toolstrings depth in the hole in feet at meters unit

How to operate Odometer

- Connecting the odometer hose to the right angle drive the Put odometer at SSU to be monitor

What is maintenance required for Odometer

by checking the counter head either it is free to rotate at zero

- include odometer cable check & grease during mtce

What is safety precaution required for Odometer

- wear Proper PPE
- grease cable to prevent stuck while ops.

What is potential hazard during handling Odometer

- beware teh the sharp objects at the pinch point that can cause hand injury

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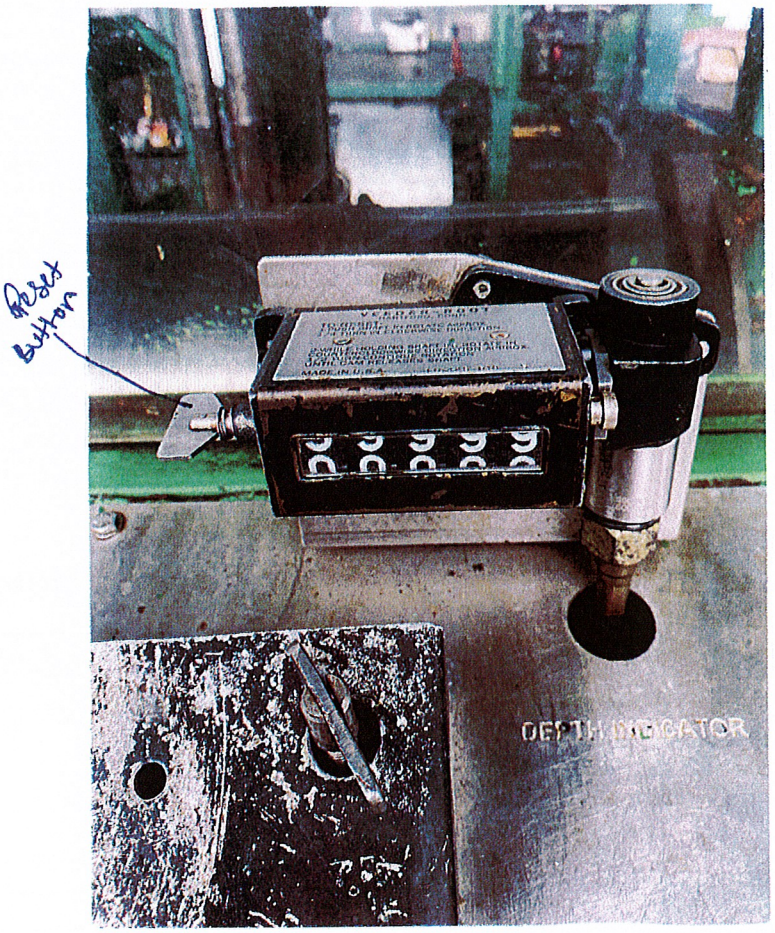
Draw & name each part of Odometer



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7. Weight indicator

What is Weight Indicator

- to allow the total weight of the tool string hung at the end of the wire to be read and effected by weight indicator

What is the purpose of Weight Indicator

- to determine the total weight of tools hung in the tubing in 90°

How to operate Weight Indicator

- make sure already servile before operate
- attache weight indicator in front of near seat operator

What is maintenance required for Weight Indicator

- Check for leaks around the hose and priming check valve assembly
- check the level of clear glycerin vibration dampening fluid inside the gauge face should be nearly full.

What is safety precaution required for Weight Indicator

- make sure indicator glass didn't broke or leak
- always make sure the weight indicator always on servicr before operate

What is potential hazard during handling Weight Indicator

- make sure body indicator or didn't have any sharpness object

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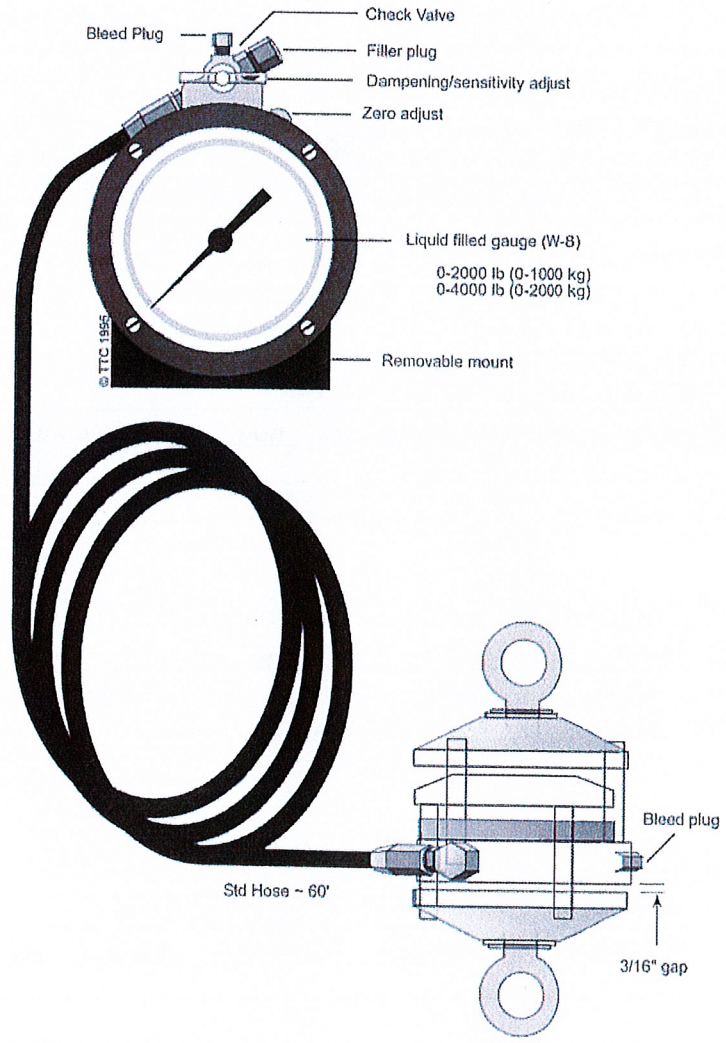
Draw & name each part of Weight Indicator



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8. Spooling Device

What is Spooling Device

- generally are configured with removable drum that allow transport spools to be insert, allowing the new string to be spooled into reel

What is the purpose of Spooling Device

- to hold the reel drum during spooling process
- Control the tensing of line as it is spooled

How to operate Spooling Device

- assemble the reel the setup is almost the same with normal operation, which weights indicator and loop pulley are needed
- brake lever wire help to control the line tension

What is maintenance required for Spooling Device

- brake maintenance
- ~~Ellogaw~~ always check the hydraulic system

What is safety precaution required for Spooling Device

- make sure to check the gluss in good condition before start the jobs
- bolts and nuts are in good condition

What is potential hazard during handling Spooling Device

- pinch points
- wire parted
- high double operation

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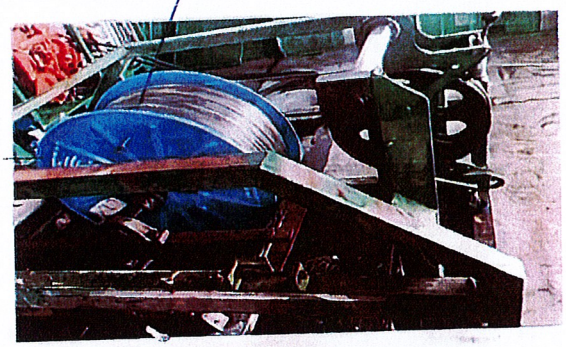
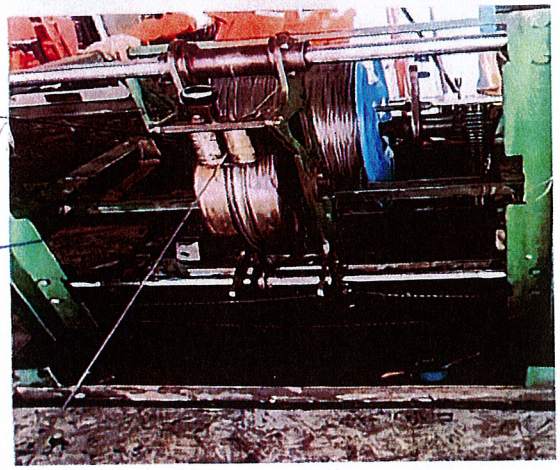
Draw & name each part of Spooling Device





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9. Control Panel

What is Control Panel

- are used to operate a number of valves normally operated in slickline operation.

What is the purpose of Control Panel

- to operate bop ram
- " " 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 hydraulic level through the level indicator
- disassembly air, filter and clean thoroughly
- renew hydraulic tank and return after disassembly hydraulic pump check for corrosion and wear

What is safety precaution required for Control Panel

- use sunglasses proper before/after operate control panel
- wear handglove that suit when to hold ring panel or maintenance

What is potential hazard during handling Control Panel

- hand injured / pitch point when handling
- always secure air hose connected to control panel / Hose burst

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Draw & name each part of Control Panel

10. Huskel Pump

What is Huskel Pump
- is an air driver pump

What is the purpose of Huskel Pump
- to drive the hydraulic or water in control panel or test pump

How to operate Huskel Pump
- Operate from the knob or regulator a the panel
- its function allow the hydraulic piston to passing fluid into drive section

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

What is safety precaution required for Huskel Pump
- check o-ring condition
- make sure connection tubing is in good condition

What is potential hazard during handling Huskel Pump
- pitch point
- tubing burst

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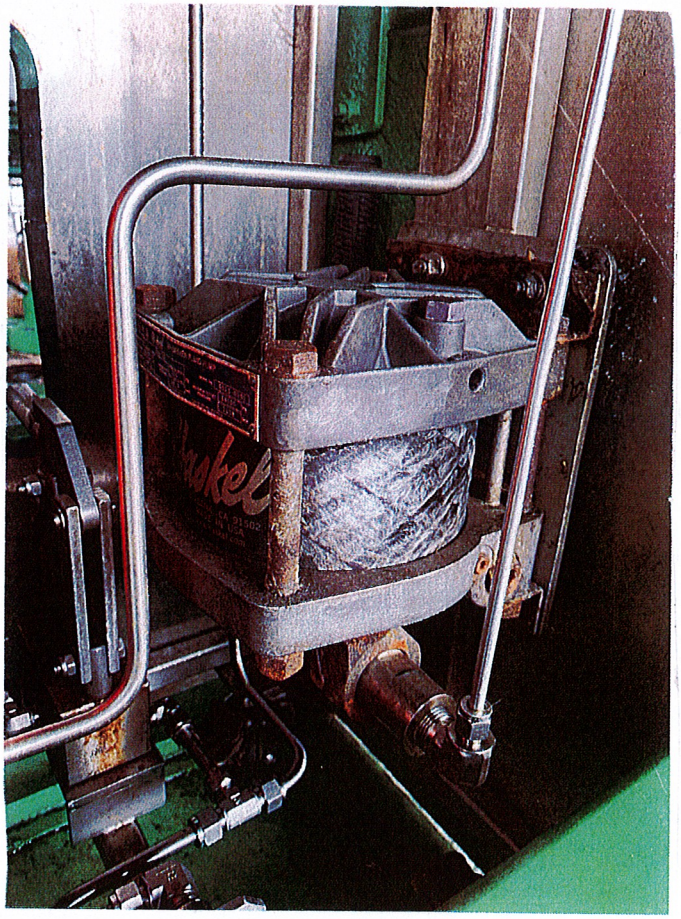
Draw & name each part of Huskel Pump



- Should be located in PTU

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11. Power Pack

What is Power Pack

- to supply hydraulic power for wireline mast and RSU

What is the purpose of Power Pack

- Power Pack Unit is an open loop hydraulic single piece Configuration which are used to Power up RSU and wireline mast.

How to operate Power Pack

1) Set diesel Cut Off valve to 'start' position, 2) Pump the Powerpack until the Pressure reache 2,500 PSI, 3) Pull and hold inlet over speed shutdown valve. 4) Step on the foot throttle starter switch. 5) keep and continue holding the inlet over speed shutdown valve until Oil pressure is built 6). release the inlet Overspeed shutdown valve

What is maintenance required for Power Pack

- dismantle all gauges to send Calabrate [3rd party)
- Wash flame trape and whole body Power Pack
- Change all filter
- Check radiator if any leaks & have send to 3rd Party.

What is safety precaution required for Power Pack

- Put Tanzo tape every hoses Connection prevens rusty
- always wear Proper Sunglasses and handglove

What is potential hazard during handling Power Pack

- Sharp object
- Hand injury

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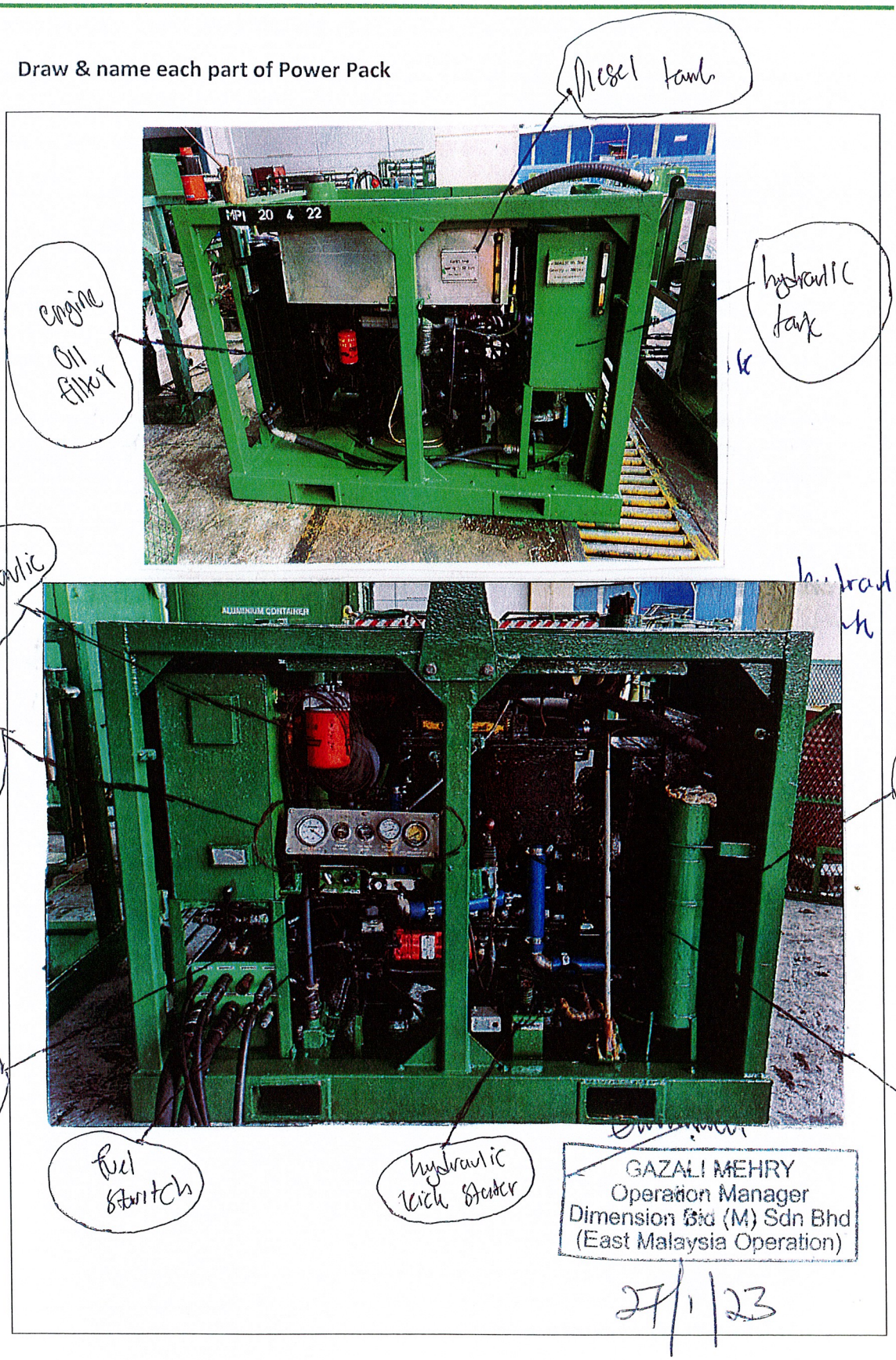
Draw & name each part of Power Pack



12. Air Compressor

What is Air Compressor

- is an open loop hydraulic system unit which is used to supply compressed air to control panel where is no supply on site

What is the purpose of Air Compressor

- to supply air pressure for SWCP, CP and WCP.

How to operate Air Compressor

- keep diesel cutoff valve in start position
- recoil spring starter by turning on clock wise direction until the indicator turn red - start engine by pulling and holding inlet overspeed shut down valve and releasing the spring starter
- keep ang constrave holding the inlet overspeed shut down valve until oil pressure is built

What is maintenance required for Air Compressor

- dismantle all gauge to send calabrate
- wash body and flame trap
- change all filter and oil compressor
- change radiator (if necesary)

What is safety precaution required for Air Compressor

- use ear plug before operate air compessor
- use propere ppe ~~to~~ when operate compressor

What is potential hazard during handling Air Compressor

- air connection can blow if didnt tight
- ear can damage if didnt use ear muf or ear plug

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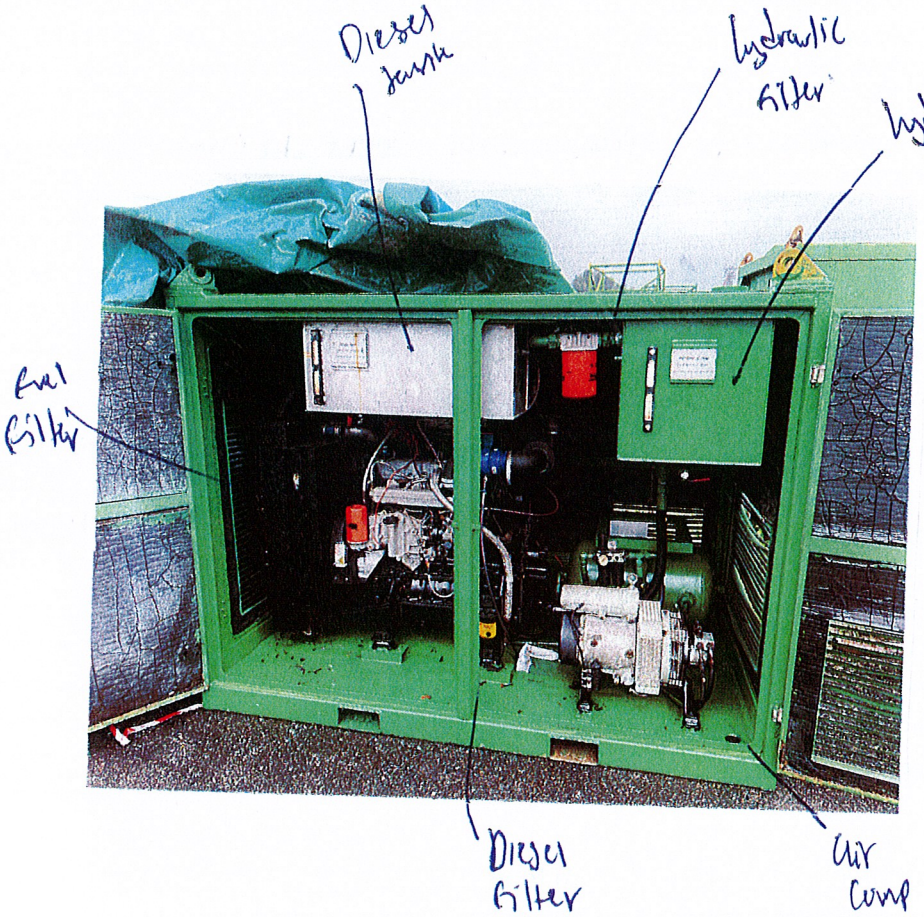
Draw & name each part of Air Compressor



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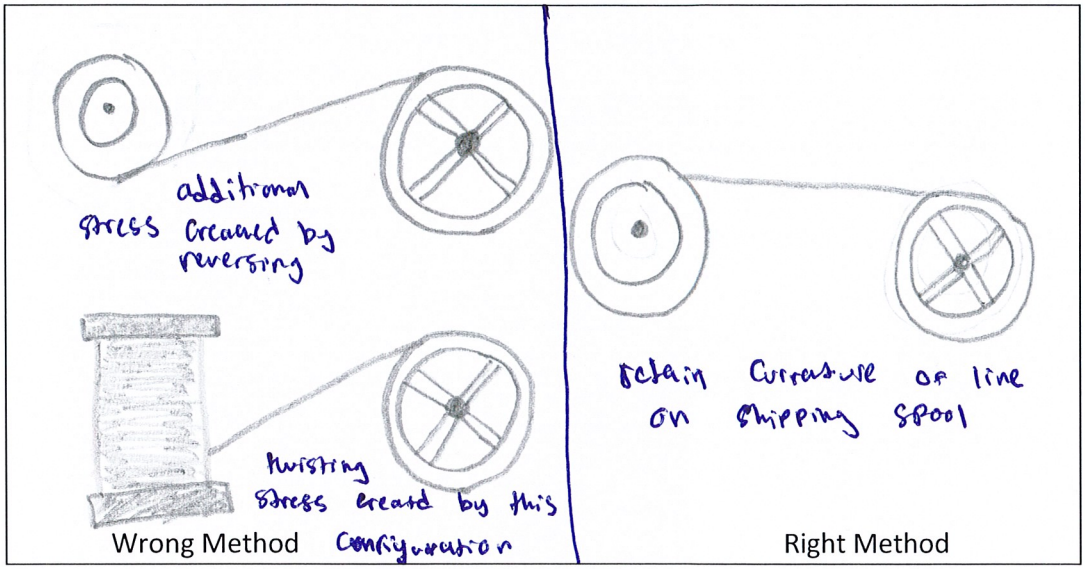
13. Drum

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 it there have any brown or damage

What is safety precaution required for Drum

- use tagline or push pull stick
- make sure using the safety glasses and ~~wear~~ use PPE

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What is potential hazard during handling Drum

- rotating
- pinch points
- back injury

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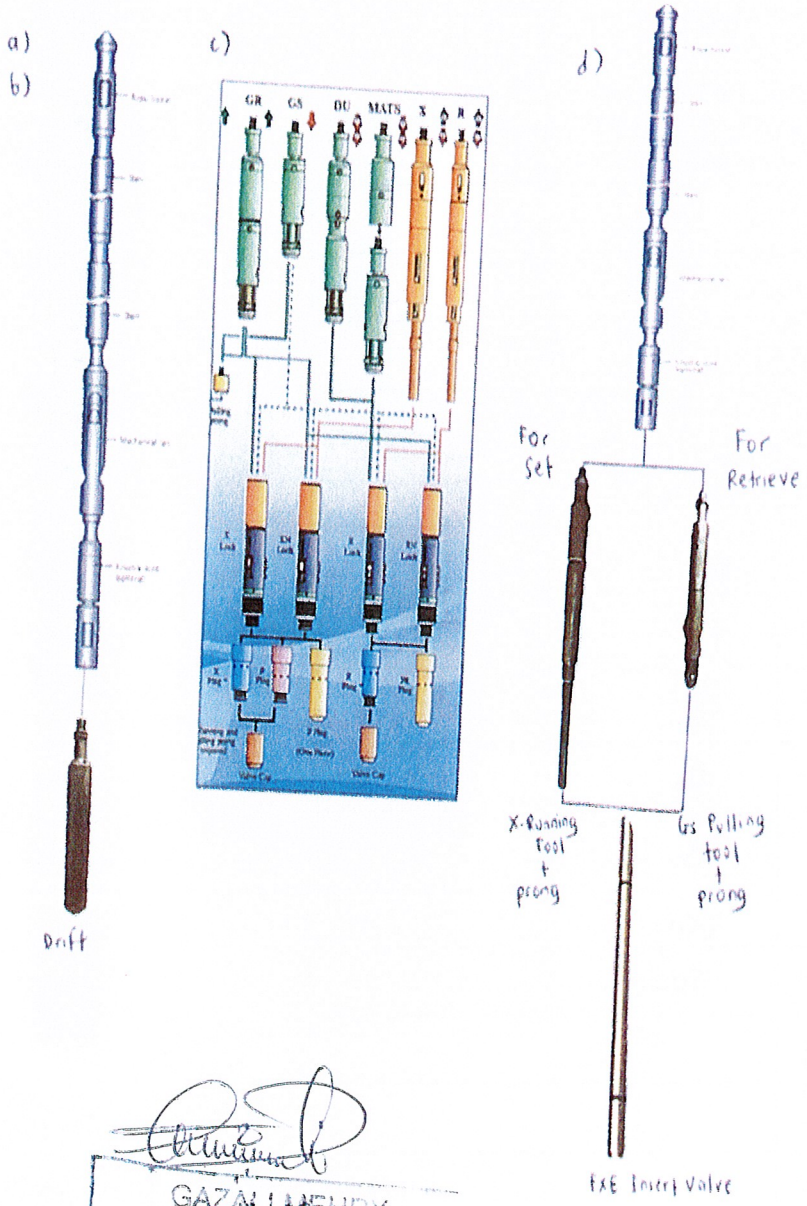
Please draw/sketch the toolstring configuration for:

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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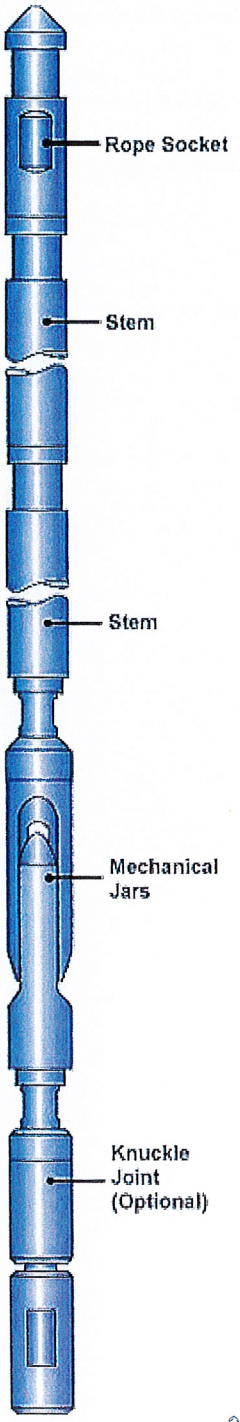
C. DOWNHOLE EQUIPMENT

1. List out all basic running and pulling tools

No.	Items
1	X-Line
2	JK 1
3	GAS
4	JK
5	SB
6	
7	
8	
9	
10	RB
11	RS
12	SS
13	SD
14	GR
15	GS
16	JDC
17	JUC
18	
19	
20	

Running tool

Pulling tools



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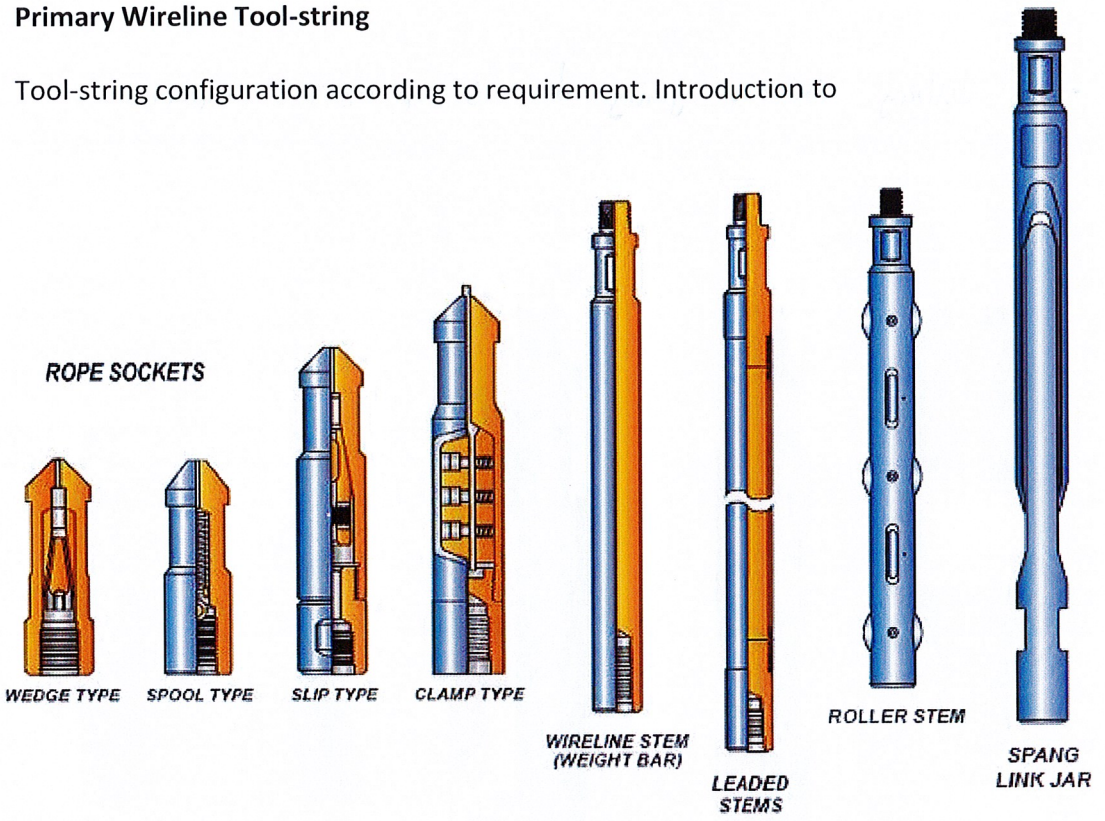
Primary Wireline Tool-string

Tool-string configuration according to requirement. Introduction to



a) Rope sockets

- Provides ameans for connecting to the wireline tool string

b) Stem lead

- Steam lead is used instead of conventional stem when additional weight per foot on given O.D is required

c) Tungsten stem

- tungsten stem Provides extra weight and heaviest
- assist operator to overcome the effect of function, fluid viscosity and pressure within wellbore

d) Roller stem

- to reduce friction against tubing ID caused by the tool string sliding on tubing wall in high deviated well

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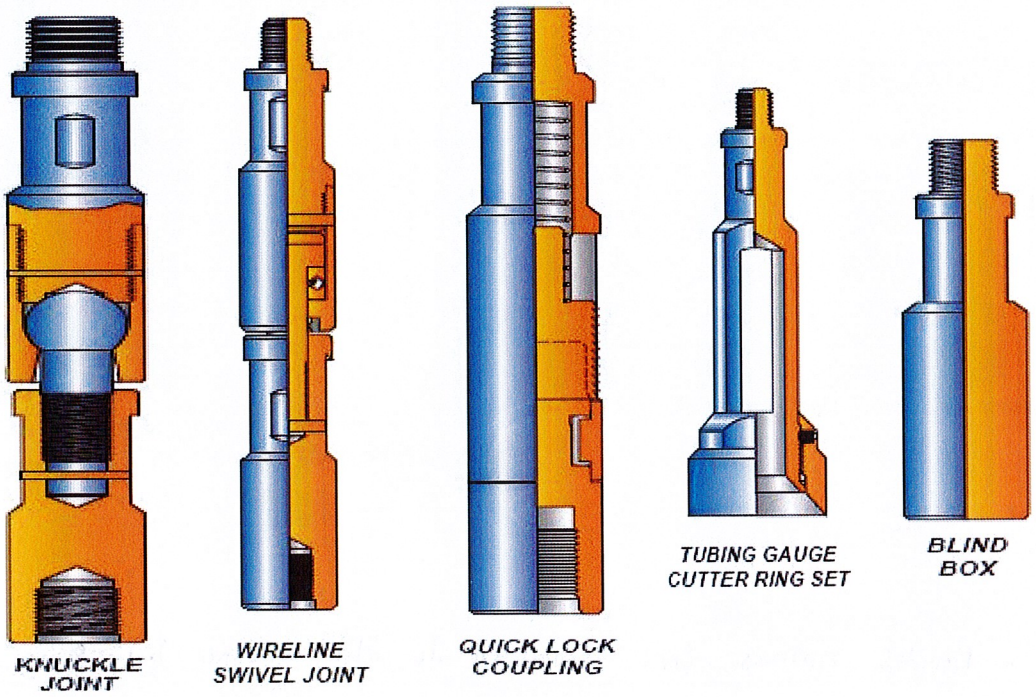
e) Jars

- to delivery effective jaring down or up ~~impact~~ impact



f) Knuckle joints,

- is design for flexibility/ running smoothly into a devicated tubing string/ high angle hole

g) Swivel joints,

- to ensure free rotation of downhole tool string assemble even when the tool string is held in significant tension

h) Quick-lock coupling

safe and strong method of tool coupling

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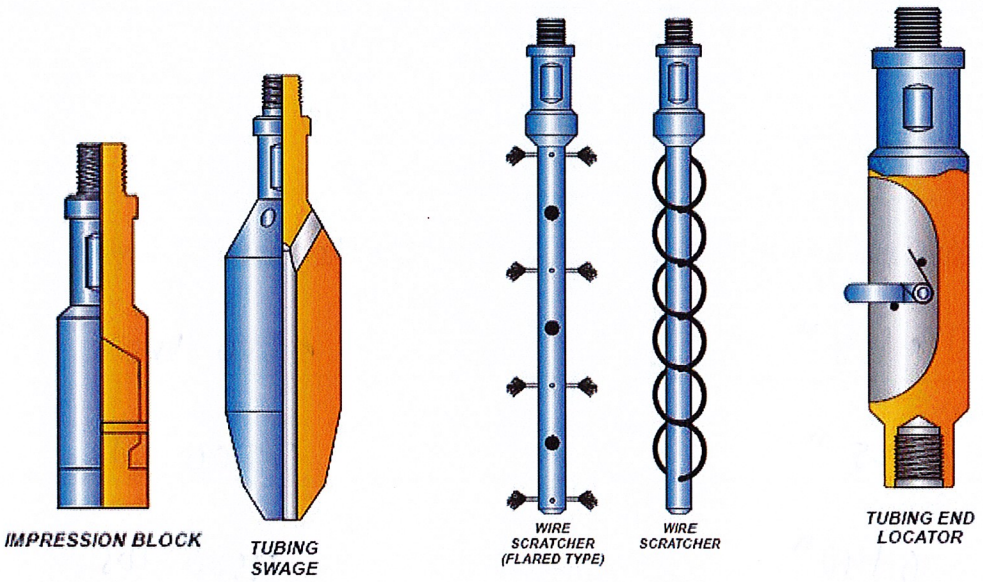
i) Gauge cutter,

- used to gauge the id of tubing in which it is run act as tubing Clearance
- remove paraffin / asphaltene on inner surface of tubing

j) Blind Box

- used in fishing operation when heavey downward jaring action is required



k) Lead impression box

- use in fishing operation and act as bottom hole camera
- to obtain the impression of unknown tools within tubing string

l) Swage

- repair light collapse / dent in tubing
- used to remove large obstacles

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m) Wire scratcher
- to remove paraffin in inner surface of bag

n) Tubing end locator
- to look end of tubing and measure depth of tubing end at completion

o) Wire recover tool
to fish/ retrieve free wire

Fill up below Table

A. Size of Wire that use at DB	B. Breaking point of each wire
1. 0.108"	1. 2500 lbs
2. 0.125"	2. 3300 lbs
3. 0.140"	3. 4500 lbs
C. Type of wire used at DB	**D. How to test if wire is good or not**
1. Zeron ~~ar~~	1. wire pull test
2. ~~eips~~ ZAPP	2. tension test
3.	3.

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E. Why do we need to check on the tools before running in hole (RIH)?

to ensure tool string is fully functioning

F. What do we need to do if the tool is damage or lost in hole?

- Stop work and return to town
- Consult with wireline supervisor
- Prepare fishing Plan

G. What do we need to do if equipment failed to work?

- report for town immediately
- minor trouble shoot
- mejor - request for mechanic / technician
- request for equipment (if equipment fail to function after repair).

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D. Rig up Wireline Surface Equipment

a. List out all surface equipment (Surface and Pressure Gauge)

1.	~~Power pack~~	Generator
2.	~~Reel Unit unit~~	air Compressor
3.	~~Air Compressor~~	Power Pack
4.	~~Generator~~	Reel Unit unit
5.	Stuffing box	
6.	hydraulic mast	
7.	Lubricator	
8.	Cross over	
9.	BOP	
10.	QTS	
11.	Ball valve	
12.	Swep	
13.	Hay Pulley	

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b. Describe how to connect lubricator section

i) Horizontal

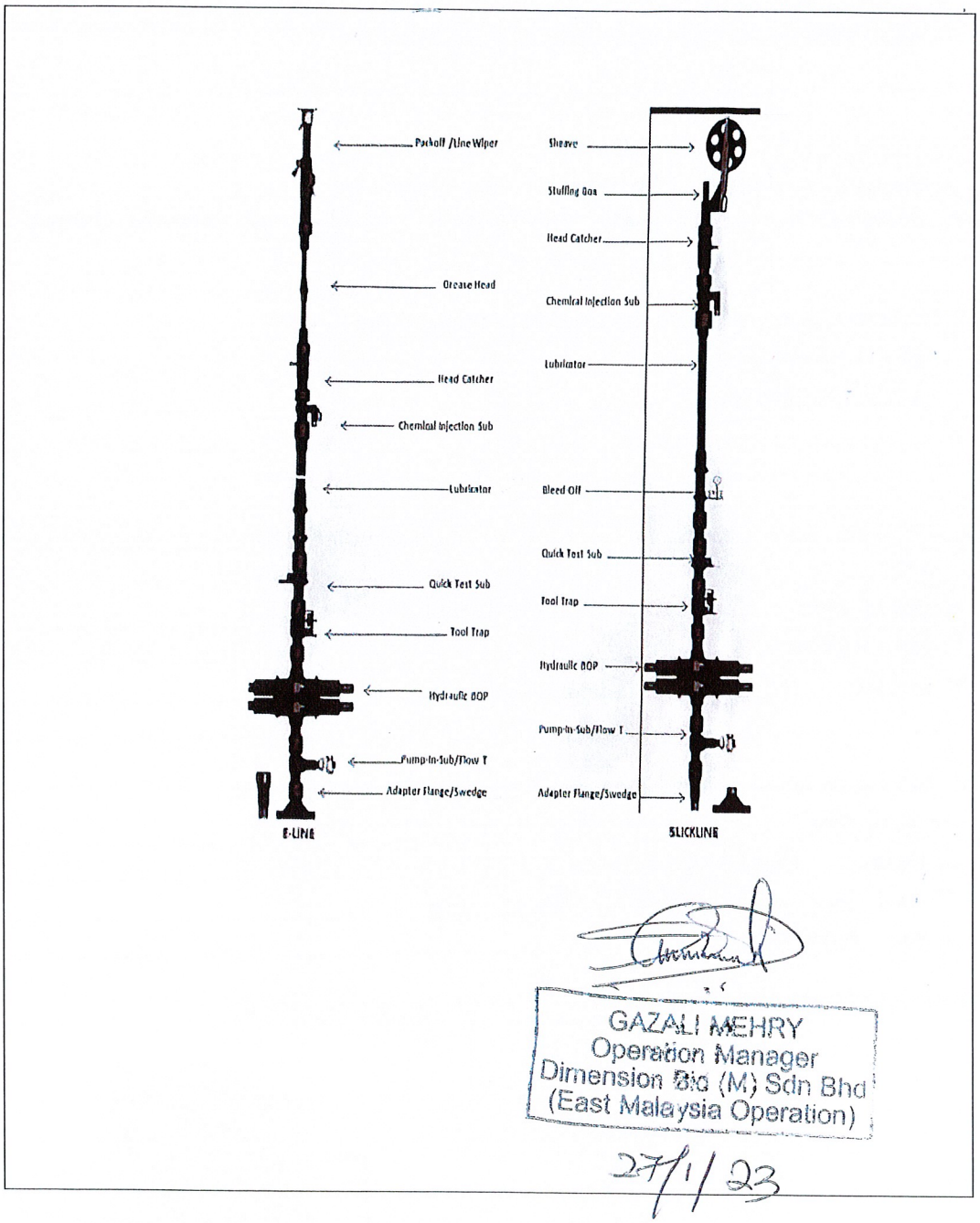
- Lay down using trolley and Stand using Sling or rope to connect lubricator to other tool

ii) Vertical

- put to box perfectly to avoid ~~damage~~ damage the oring

Note: Provide drawing and parts description on separate paper/page

c. Sketch the equipment required while rigging up from x-mas tree until stuffing box



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Note: Provide drawing and parts description on separate paper/page

d. What should weight indicator attached with?

- load cell
- hey pulley

e. What is the meaning of rigging up and rigging down?

- Rig up : Prepare equipment for operation
- Rig down : dismantle equipment ready for demob /move to othe location

f. What is power pack hose size used at Dimension Bid?

1" : Supply
1 1/2" = return

g. What are the safety precautions required upon completed hook up hydraulic hose to RSU

- make sure connection is properly connected
- No leaking
- make sure the lock nut is in place

h. List out the safety precaution while rigging up and rigging down

- full PPE
- follow procedure
- tool box talk before start job
- no pushing.

Note: Provide drawing and parts description on separate paper/page

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