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.

NAME	MANSYUR BIN WAHYUDDIN
DATE OF JOIN	4 oct 2021
CONTACT NO.	012 8491856
RECEIVED DATE	12 OCT 2021
DATE COMPLETED	

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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
05/12/2021	ONLINE WEB (LEVEL 1)	

7. Public Courses

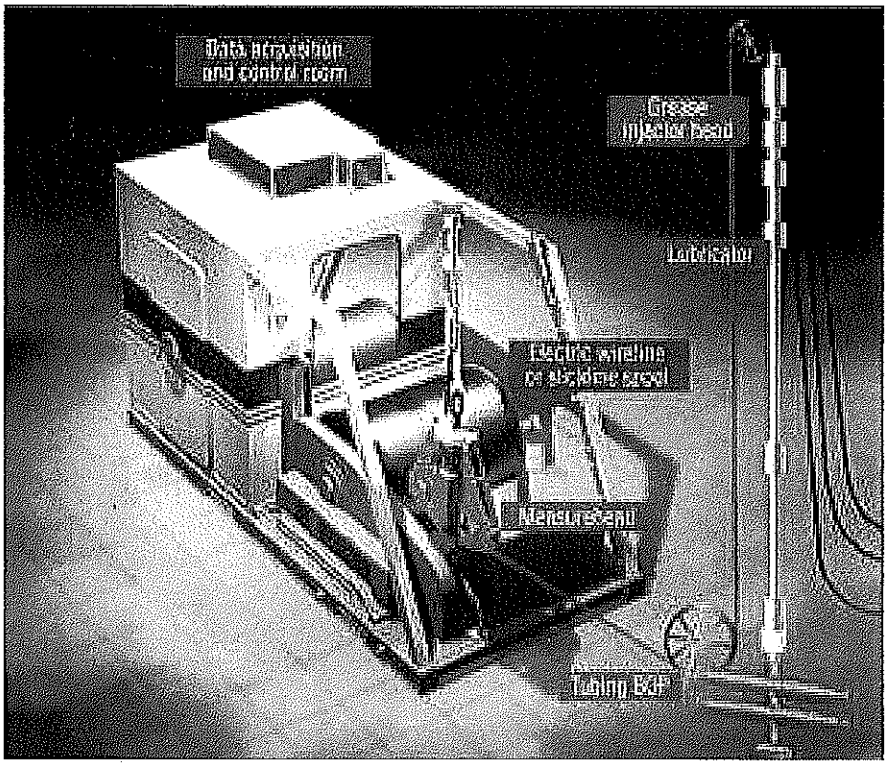
Date Training	Training Topic	Venue

8. In-house Training

Training Date	Training Category	Training Subject / Title
25 Oct 2021	online class	Introduction to well
27 Oct 2021	online class	Slickline
9' Nov 21	online class	PCE Theory
16 Nov 21	online class	PCE Theory
22 Oct 21	online class	Safety Induction
15/12/2021	class	well completion.

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

Module 1: Basic of Wireline - Equipment and Operation



GAZALI MEHRY
Operation Manager
Dimension Bid (M) Sdn Bhd
(East Malaysia Operation)

Module 1: Basic of Wireline - Equipment and Operation

DESCRIPTION		THEORY & ASSIGNMENT		
		DATE	ASSESSED & APPROVED BY	VERIFIED & APPROVED BY
A	**Basic Safety**	21/12/21		
1	PPE	21/12/21		
2	Responsibilities	21/12/21		
3	Policies	21/12/21		
4	Hazard ID & Incident Report	21/12/21		
5	Operational Safety	21/12/21		
B	**Surface Equipment Familiarization**	21/12/21		
1	Stuffing box	21/12/21		
2	Lubricator	21/12/21		
3	Blow Out Preventer (BOP)	21/12/21		
4	X-Mass Tree	21/12/21		
5	Wireline Reel Skid Unit (Single Drum & Double Drum)	21/12/21		
6	Odometer	21/12/21		
7	Weight Indicator (200 lbs and 4000 lbs)	21/12/21		
8	Spooling Device	21/12/21		
9	Control Panel	21/12/21		
10	Huskel pump	21/12/21		
11	Power Pack (Electrical & Diesel)	21/12/21		
12	Air Compressor	21/12/21		
13	Drum	21/12/21		
C	**Downhole Equipment Familiarization**	21/12/21		
1	Basic Toolstring	21/12/21		
2	Pulling / Running Tools	21/12/21		
3	Wireline Wire	21/12/21		
4	Inspection / Maintenance of Tools	21/12/21		
		21/12/21		
D	**Rig-up Wireline Surface Equipment**	21/12/21		
1	Wireline Mast	21/12/21		
2	Lubricator Assembly	21/12/21		
3	Operating the BOP	21/12/21		
4	Make Rope socket and Toolstring Configuration	21/12/21		
5	Toolstring Configuration	21/12/21		
6	Operate the Control Panel and Huskel Pump	21/12/21		
7	Service of basic wireline tools	21/12/21		

Comment:

A. Wireline Operation Basic Safety Protection

1. Personal Protective Equipment

1.1 What is definition of Person Protective Equipment

Equipment that worm to minimize exposure to hazard that cause Serious workplace Injuries and iilness.

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

- coverall
- Impact gloves
- Safety helmet
- Safety glass
- Safety shoes
- ear plugs

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

- onsite offshore and onshore
- workshop warehouse
- Red zone area

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

- coverall
- Safety glove
- Safety shoes
- Safety glass
- Safety helmet

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

- coverall
- H2S detectors
- Respiratory protective Equipment (Full Face)
- Fully PPE

DIMENSION BID (M) SDN BHD

21 DEC 2021

2. Responsibility

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

- Fully responsible of Health, safety and Enviromental to of themselves.
- Fully cooperate with ~~HSSE~~ company HSSE policy. ~~and~~
- cooperate with on site HSSE officer on safety matters.
- Apply ACT card / UCOA card

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

- Ensure the PPE are used all the times.
- use proper techniques whik doing the maintenance.
- All working area ~~are~~ safe while doing maintenance.
- proper tools managment.

2.3 When should we do housekeeping?

Before start working
While start worcing
After working

2.4 Why housekeeping is important?

- reduce hazards at work place
- Improve productivity
- promotes positive behaviors of employee
- Efficient equipment clean up

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

- ~~stop~~ Apply the Stop work policy,
- discuss & and give suggestion of proper safe act
- Inform Team leader / Supervisor

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21 DEC 2021

3. Policies

3.1 List down all DB policies in regards to HSE

- HSSE policy
- Drug & alcohol policy
- Harassment in the workplace policy
- Driving policy
- PPE policy
- Smoking & Vaping policy
- Stop work policy

3.2 What is HSE Policies

- HSE policy is written system by employer to control safety risks to maintain a safe working enviroment to employees and public.
- Committed to providing a safe and healthy workplace and ensuring that all business activities are conducted in a manner that protects enviroment.

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

STOP WORK policy ~~to~~ is designed to all employee and any public that responsible to stop any unsafe condition or unsafe act that can cause any ~~a~~ haz injury or accident and protect Enviroment.

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21 DEC 2021

4 Hazard ID and Incident Reporting

4.1 How can we report hazard or unsafe act?

- report to supervisor or the safety department or management.
- use one of safety program which is Hazard Hunt.

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

- Stop work
- take control at the scene and try restore order
- Assure first aid call for supervisor or team lead call
- control secondary potential accidents a
- report the incident to the safety management,

4.3 What is the incident reporting process?

- absorb and ~~Indentif~~ Identify the accident direct inform supervisor
- write up the cause ~~and repo~~ and accident happen
- Reporting the accident to the HSE department
- Follow up the report.

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

- Identifying risks, and minimum the accident.
- opening up for discussion and then eliminating
- It to assure all employees comply and understand the work safety and procedure.

4.5 Please explain what is Near Miss

Near misses describe high potential incidents where no property was damaged and no personal injury sustained but where, given a slight shift in time or position, damage or injury easily could have occured.

4.6 In case of emergency,

a) Firstly what should you do?

- Stop work and move to emergency exit and assembly at master station. wait for instruction

b) Where is DB assembly point (Base)?

- outside main gate.

4.7 Where can you find the emergency contact Number?

HSE Board, walkway area, Infomation board, smoking area, meeting Room strategic area.

21 DEC 2021

5. Operational Safety

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

- Attend morning meeting with safety talk
- use proper PPE and fully PPE
- Follow supervisor or team leader Instruction.

5.2 What is the purpose of Safety Morning Meeting

- ~~give refres~~ to give all employees Informed about workplace risks and Safety. Keep people alert and aware of potential hazards in workplace

5.3 What is the purpose of briefing and Debriefing

- briefing = presenting Information or objective direct to other person in order to facilitate task or achieve an aim.
- Debriefing = gathering Information from one to other in order to learn or targeted objective that can be use in sometime.

5.4 What is Permit To Work (PTW)

- written record that authorises specific work at a specific work location for a specific time period
- permit to controling and co-coodinating work to establish and maintain safe working condition.

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

- Procedure that help Integrate accepted safety and health principles and Practices into particular task or job operation. each basic step of the Job is to Identify potential hazards and to recommend the safest way to do job.

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

- Use proper and fully PPE
- supervised by Team leader
- barricade the area.

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

- Wear proper and fully PPE
- fill the oil right way use Funnel oil
- avoid any drop or any sparking
- monitored the level of the fuel tank.

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

- authorising person to carry out the task.
- as the guideline for doing the task
- aware with all hazard included in the task for working safely.

5.9 When do we apply the work permit

- Before starting the job.

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

- Barricade the test area before start.
- Briefing from the team leader.
- all supervised by team leader
- Fully PPE and proper.

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

- ~~no by~~ make sure use Fully PPE and proper
- guide by competent person or team leader
- ~~all~~ always communicate with team lead.

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

- to ensure all member are aware of the task doing, what hazard and How to prevent.
- it will be guide line for team for working safely till the job done.

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

- stop work
- observe the unsafe condition
- intervene
- report to team lead and HSE officer

DIMENSION BI

WIRELINE INTERVENTION | PERFORATION SERVICES

JOB HAZARD ANALYSIS

LOCATION	DB Labuan Warehouse	DATE	8.3.2022
TASK	Coating/painting lubricator	JHA REFERENCE NO.	
WORK SITE	DB Workshop	ASSESSMENT TEAM	Saiful, Shamsul, Fifie, mansyur

Job Step	Potential Hazard	L	S	R	Control Measures	L	S	R	Result
• Toolbox Meeting	• Leak of attention • Conflict during discussion • Don't understand the work • Infected with Covid19 virus				• Pay attention while meeting • Respect each other • Ask question when during meeting. • Use Face mask and keep distance 1 meter.				Acceptance
• preparation	• back injury when do manual lifting. • Hand and fingers injury when preparing lub • Fall and trips while do manual lifting • Drop object when using forklift				• Use Safety helmet • Use back support • Use safety glass • Use safety boots • Use correct manual lifting technique • Buddy system • Authorized Person only use forklift •				Acceptance
• Paint application	• Back injury and shoulders • Skin damage • Eye injury cause of splashing paint • Inhale fumes • Trips and fall cause of spilled paint				• Use safety glass • Use rubber glove • Use correct technique • Use correct mask • Proper arrangement of the paint can • Beware of surrounding while painting				Acceptance

• housekeeping	• trips and fall • fingers injury • environment pollution				• use safety glass • secure equipment and to the original place. • Clean and wash the working area • Disposed the chemical waste properly				

S- SEVERITY			
Lost Time Injury	Major Damage	Major Pollution	High (3)
First Aid Injury	Minor Damage	Minor Pollution	Medium(2)
No injury	No Damage	No pollution	Low (1)

R- RATING			RESULT	
3	6	9	6-9	Unacceptable
2	4	6	3-4	Tolerate
1	2	3	1-2	Acceptable
Low (1)	Medium (2)	High (3)		
Remote	Possible	Probable		
L- LIKELIHOOD				

Work Activity Participants			
Name	Position	Perform Job Before?	Signature
Syaiful	TL	Yes	
Shamsul	TL	Yes	
Fifie	TL	Yes	
Mansyur	TSA	yes	

This JHA created by		
Name	Discipline	Position
FADZLIN	HSSE	HSSE OFFICER

WORK ACTIVITY RESPONSIBILITY	JHA SUBMITTED BY	JHA ACCEPTED BY
Work leader	**Receiving Authority (Supervisor)**	**Approving Authority (SHO)**
Name:-	**Name:-** LEONARD RAEYONG	**Name:-** FADZLIN MOHAMAD IBRAHIM
Signature:-	**Signature:-**	**Signature:-**
Date:-	**Date:-** 24 MAR 2022	**Date:-** 24/3/2022

Maintenance Manager
Dimension Bld (M) Sdn Bhd
Labuan Warehouse
Slickline Services

DIMENSION BIC
WIRELINE INTERVENTION | PERFORATION SERVICES

JOB HAZARD ANALYSIS

LOCATION	DB Labuan Warehouse	DATE	3.3.2022
TASK	Chipping	JHA REFERENCE NO.	
WORK SITE	DB Workshop	ASSESSMENT TEAM	Saiful, Shamsul, Fifie, mansyur

Job Step	Potential Hazard	L	S	R	Control Measures	L	S	R	Result
• Toolbox Meeting	• Leak of attention • Conflict during discussion • Don't understand the work • Infected with Covid19 virus				• Pay attention while meeting • Respect each other • Ask question when during meeting. • Use Face mask and keep distance 1 meter.				Acceptance
• Chipping Job	• Hand injury • Eyes injury • Back injury and body ache • Ear damage due to noise while chipping • Flying object • Fall down while chipping above area • Inhale iron dust				• Using impact glove • Use safety glass • Use ear plug • Use safety helmet • Proper manual lifting technique • Proper posture while do chipping • Barricade area • Use ladder • Use dust mask				Acceptance
• Housekeeping	• Hand/finger injury. • Inhale iron dust • Back injury				• Use hand glove • Use dust mask • Proper manual lifting technique				Acceptance

S- SEVERITY			
Lost Time Injury	Major Damage	Major Pollution	High (3)
First Aid Injury	Minor Damage	Minor Pollution	Medium(2)
No injury	No Damage	No pollution	Low (1)

R- RATING			RESULT	
3			6-9	Unacceptable
2	4		3-4	Tolerate
1	2	3	1-2	Acceptable
Low (1)	Medium (2)	High (3)		
Remote	Possible	Probable		
L- LIKELIHOOD				

Work Activity Participants			
Name	Position	Perform Job Before?	Signature
Syaiful	TL	Yes	
Shamsul	TL	Yes	
Fifie	TL	Yes	
Mansyur	TSA	yes	

This JHA created by		
Name	Discipline	Position
FADZLIN	HSSE	HSSE OFFICER

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

DIMENSION BI
WIRELINE INTERVENTION | PERFORATION SERVICES

JOB HAZARD ANALYSIS

LOCATION	DB Labuan Warehouse	DATE	
TASK	Perform lifting of DHT TOOLS using forklift	JHA REFERENCE NO.	
WORK SITE	DB Workshop	ASSESSMENT TEAM	MANSYUR

Job Step	Potential Hazard	L	S	R	Control Measures	L	S	R	Result
• Toolbox Meeting	• Leak of attention • Conflict during discussion • Don't understand the work • Infected with Covid19 virus				• Pay attention while meeting • Respect each other • Ask question when during meeting. • Use Face mask and keep distance 1 meter.				Acceptance
• preparation	• back injury when do manual lifting. • Hand and fingers injury when preparing tools • Fall and trips while do manual lifting • Non Authorized person • unfunctional forklift • Drop object				• Use Safety helmet • Use back support • Use safety glass • Use safety boots • Use correct manual lifting technique • Buddy system • Authorized person use forklift only • Check the forklift condition • Use valid and good condition sling				Acceptance
• Lifting job	• Back injury and shoulders • Drop object while lifting • Hand injury • Property damage • Forklift accident • Work conflict • Broken sling				• Use safety glass • Authorized person • Use correct technique • Proper arrangement of the tools • Aware to other about the job • Beware of surrounding while lifting • Completed person				Acceptance

• housekeeping	• trips and fall • fingers injury				• use safety glass • secure equipment and to the original place. • Place the forklift on the safe and proper place				

S- SEVERITY			
Lost Time Injury	Major Damage	Major Pollution	High (3)
First Aid Injury	Minor Damage	Minor Pollution	Medium(2)
No injury	No Damage	No pollution	Low (1)

R- RATING			RESULT	
3			6-9	Unacceptable
2	4		3-4	Tolerate
1	2	3	1-2	Acceptable
Low (1)	Medium (2)	High (3)		
Remote	Possible	Probable		
L- LIKELIHOOD				

Work Activity Participants			
Name	Position	Perform Job Before?	Signature
ahsom	TL	Yes	
mansyur	Tsa	Yes	

This JHA created by		
Name	Discipline	Position
mansyur	slickline	tsa

WORK ACTIVITY RESPONSIBILITY	JHA SUBMITTED BY	JHA ACCEPTED BY
Work leader	**Receiving Authority (Supervisor)**	**Approving Authority (SHO)**
Name:- AZREEM@ASOM BIN ABDULLAH	**Name:-** LEONARD HALTONG	**Name:-** FADZLIN MOHAMAD IBRAHIM
Signature:-	**Signature:-**	**Signature:-**
Date:- 24/3/2022	**Date:-** 24 MAR 2022	**Date:-** 24/3/2022
Senior Toolman Dimension Bld (M) Sdn Bhd Labuan Warehouse Slickline Services	Maintenance Manager Dimension Bld (M) Sdn Bhd Labuan Warehouse Slickline Services	

Auditors Daily ACT Commitment YTD. (Jan 2022)

#	Timestamp	Name	Department/ Company	Position	Finding Location (If required)	Observation (Note: Please tick whichever appropriate)	Category	Description of Observation	Discussion and Agreed Action	Follow Up Required? Yes / No? If Yes, please write the suggestion below	Follow up target date? (If required)
3	1/10/2022 15:46	mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe Condition	Corrective Action	slippery floor with hydraulic oil	clean with degresher	no	no
6	1/11/2022 16:42	mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe ACT	Corrective Action	unproper using adjustable hand tools as hammer	use the hammer	no	no
7	1/12/2022 20:15	mansyur wahyuddin	SLS	tsa	Workshop	Unsafe Condition	Corrective Action	put handtools over hand that can cause drop objects	put at the right place and safe	no	no
8	1/13/2022 17:09:40	mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe ACT	Corrective Action	stand infront of forklift while lifting activities	Ask to move aside	no	no
9	1/14/2022 16:47:08	mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe ACT	Corrective Action	do not use glove While handling wireline mast cable	use glove while doing job	no	no
10	1/17/2022 17:20:32	mansyur bin wahyuddin	SLS	tsa	smoking area	Issue/Concern	Corrective Action	Do not throw cigarette butt on the bin	throw it correctly	no	no
11	1/17/2022 17:21:49	mansyur bin wahyyuddin	SLS	tsa	Workshop	Unsafe ACT	Corrective Action	Put hand near the rotary equipment	Remove the hand	no	no
12	1/18/2022 16:57:41	mansyur bin wahyuddin	SLS	taa	Workshop	Unsafe Condition	Corrective Action	Slip floor	clean the floor	no	no
13	1/19/2022 16:32:39	mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe ACT	Corrective Action	While lifting put hand on/ hold the equipment under lift	remove hand/ do not hold equipment by hand. use tagline	no	no
16	1/20/2022 16:54:06	mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe Condition	Corrective Action	poor housekeeping after doing job	do housekeeping	no	no
17	1/20/2022 16:55:34	mansyur bin wahyuddin	SLS	tsa	Workshop	Positive Observation	Positive	apply buddy system and good communication while doing heavy lifting	keep good practices	no	no
18	1/24/2022 16:49:06	mansyur bin wahyuddin	SLS	tsa	Workshop	Positive Observation	Positive	Good housekeeping	good cleaning procedure on oil floor on the floor	no	no

Timestamp	Name	Department/Company	Position	Finding Location (if required)	Observation (Note: Please tick whichever appropriate)	Category	Description of Observation	Discussion and Agreed Action	Follow Up Required? Yes / No? If Yes, please write the suggestion below	Follow up target date? (If required)
2/7/2022 16:57	Mansyur bin wahyuddin	SLS	TSA	Workshop	Unsafe Condition	Corrective Action	do not use safety helmet	Use safety helmet	no	no
2/7/2022 16:59	Mansyur bin wahyuddin	SLS	TSA	Workshop	Unsafe ACT	Corrective Action	moving heavy equipment alone	use buddy system while moving heavy equipment or using lifting equipment	no	no
2/8/2022 16:37	Mansyur bin wahyuddin	SLS	TSA	Workshop	Unsafe Condition	Corrective Action	poor housekeeping Slippery floor with oil and cotton rag on floor	clean and do housekeeping	no	no
2/9/2022 17:24	Mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe Condition	Corrective Action	Improper storage of extension socket	do proper housekeeping and storage	no	no
2/9/2022 17:28	Mansyur bin wahyuddin	SLS	TSA	smoking area	Issue/Concern	Corrective Action	Cigarettes butt on the floor.	proper disposal on bins	yes	10/2/2022
2/10/2022 16:36	Mansyur bin wahyuddin	SLS	TSA	Workshop	Unsafe ACT	Corrective Action	DO NOT USE CHEMICAL GLOVE WHILE HANDLING CHEMICAL LIQUID.	Use rubber glove	no	no
2/10/2022 16:44	Mansyur bin wahyuddin	SLS	TSA	Workshop	Unsafe Condition	Corrective Action	improper hose on the floor can cause trap and fall	Do proper arrangement for the hose	no	no
2/14/2022 17:08:53	Mansyur bin wahyuddin	SLS	Tsa	Workshop	Near Miss	Corrective Action	Burnt extension socket cauce of overload power use.	need to be replace by using the new heavy duty extension wire and socket	yes	15/2/2022
2/14/2022 17:11:43	Mansyur bin wahyuddin	SLS	Tsa	Workshop	Unsafe ACT	Corrective Action	improper use of hand tools	use hand tools properly	no	no
2/18/2022 15:46:34	Mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe Condition	Corrective Action	forklift blade not set properly while parking	set up properly	no	no
2/24/2022 14:01:27	Mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe Condition	Corrective Action	unproper sling placement while do lifting	Replace the sling properly	no	no
2/25/2022 16:49:42	Mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe Condition	Corrective Action	unpin shackle use while using for lifting operation	Use safety pin for the shackle.	no	no
2/25/2022 16:54:52	Mansyur bin wahyuddin	SLS	TSA	Office Main Building	Unsafe ACT	Corrective Action	stand on unstable thing	change stand placement	no	no
2/28/2022 15:56:48	Mansyur bin wahyuddin	SLS	Tsa	Workshop	Unsafe ACT	Corrective Action	put hand on pinch point	remove hand	no	no
2/28/2022 15:58:28	Mansyur bin wahyuddin	SLS	Tsa	Workshop	Unsafe ACT	Corrective Action	stand on line of fire while lifting operation	Change position out line of fire	no	no

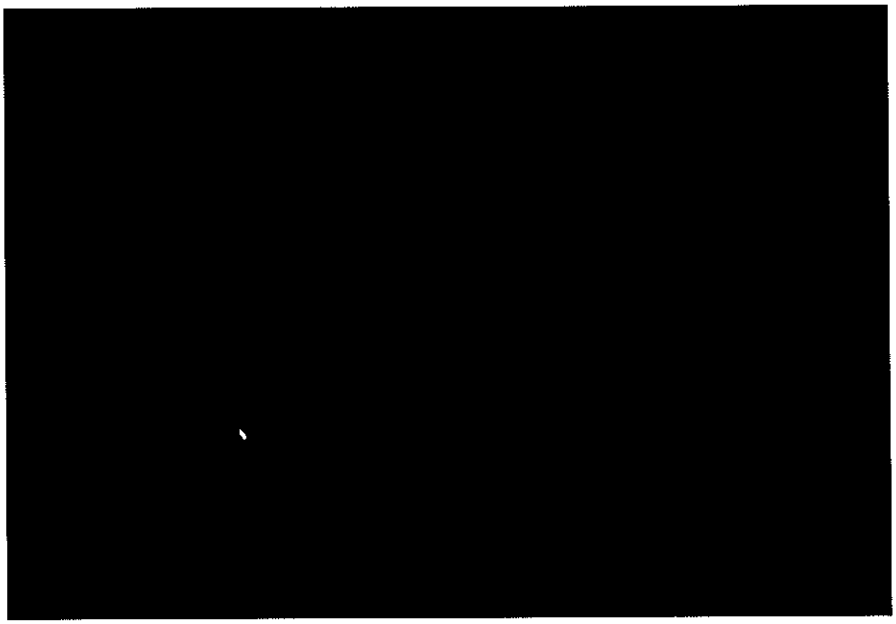
#	Timestamp	Name	Department /Company	Position	Finding Location (If required)	Observation (Note: Please tick whichever appropriate)	Category	Description of Observation	Discussion and Agreed Action	Follow Up Required? Yes / No? If Yes, please write the suggestion below	Follow up target date? (If required)
3	3/8/2022 9:00	Mansyur bin Wahyuddin	SLS	Tsa	Workshop	Unsafe Condition	Corrective Action	leaking workshop roof near Pce area	need to be repair	yess	9/3/2022
7	3/10/2022 16:38	mansyur wahyyuddin	SLS	tsa	Workshop	Unsafe Condition	Corrective Action	blocked walkway	do housekeeping	no	no
9	3/10/2022 16:40	Mansyur bin wahyuddin	SLS	Tsa	Workshop	Unsafe ACT	Corrective Action	put hand on line of fire while do hammering Job	remove hand.	no	no
34	3/18/2022 16:49:54	Mansyur bin wahyuddin	SLS	tsa	Workshop	Unsafe ACT	Corrective Action	Wrong tools use while hammering	use hammer	no	no
42	3/22/2022 10:58:23	mansyur bin wahyuddin	SLS	tsa	Workshop	Safety Suggestion	Corrective Action	there are mosquitoes in the workshop	need to do fogging asap	yes	24/3/2022

WORKPLACE STRESS

PRESENTED BY

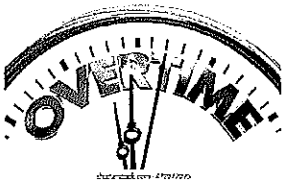
MANSYUR

EXSAN



CAUSES OF STRESS

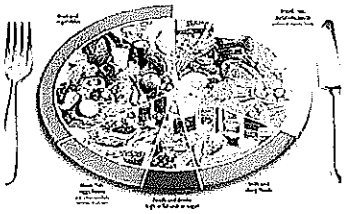
- Overload works
- Over working hours
- 24/7 technology
- Workplace environments
- Work/Life obligations
- Health related concerns
- Harassments



STRESS LEAD TO

- Job burnout
- Anxiety
- Depression
- Insomnia
- Hypertension
- Frequent illness
- Exhaustion
- Unhealthy behaviours

HOW REDUCE STRESS



- Balance responsibility & authority necessary for tasks
- Set reasonable limits & timelines
- Recognize a job well done
- Eat a balanced and nutritious diet starting with breakfast
- Get a good night's sleep
- Seek professional help
- Keep moving – Exercise 30 minutes a day
- Express your feelings – you're not alone

Malaysian Mental Health Association
MMHA

"JIKA MASALAH TIADA JALAN KELUAR MAKA KITA YANG KELUAR JALAN-JALAN"

5.14 Before performing a hot work, what must you do/ have to ensure the work is safe Briefing
- Apply the Hot Permit work
- dis toolbox briefing
- barricade working area
- debriefing

DIMENSION BID (M) SDN BHD 309033-H

21 DEC 2021

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

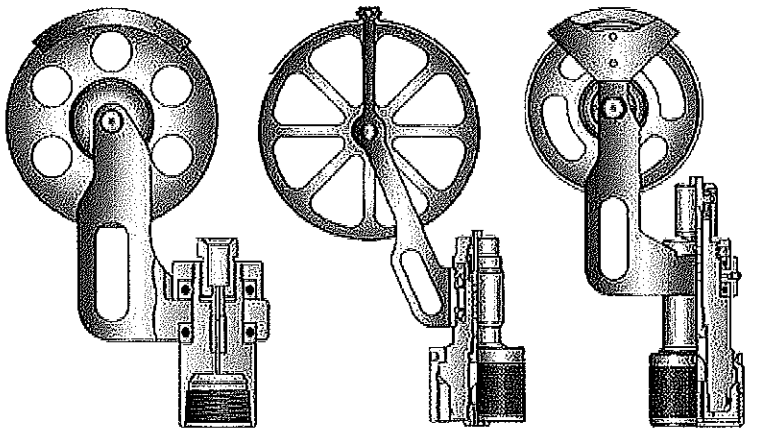
      - Chipping
      - Painting
      - Lifting
      - Spooling
      - Pressure Test

   b) Hazard Hunt

   c) Safety Talk

B. SURFACE EQUIPMENT

1. Stuffing Box



What is Stuffing Box

- is the primary pressure barrier of slickline.
  One of PCE Equipment. positioned at the uppermost point of the PCE string.

What is the purpose of stuffing Box

to Allows the wireline to Enter well under pressure and provide seal should be wireline break and be blow out of packing.

How to operate Stuffing Box

- can be operate by manual or by liquid control.
- packing work as break that hold the wire

What is maintenance required for Stuffing Box

- change the packing, upper and lower gland and Bop plunger.
- check for the condition of the other part. such as Sheave, Body, piston

What is safety precaution required for Stuffing Box

- check the right and correct size wire use at stuffing box.
- check the packing function or not

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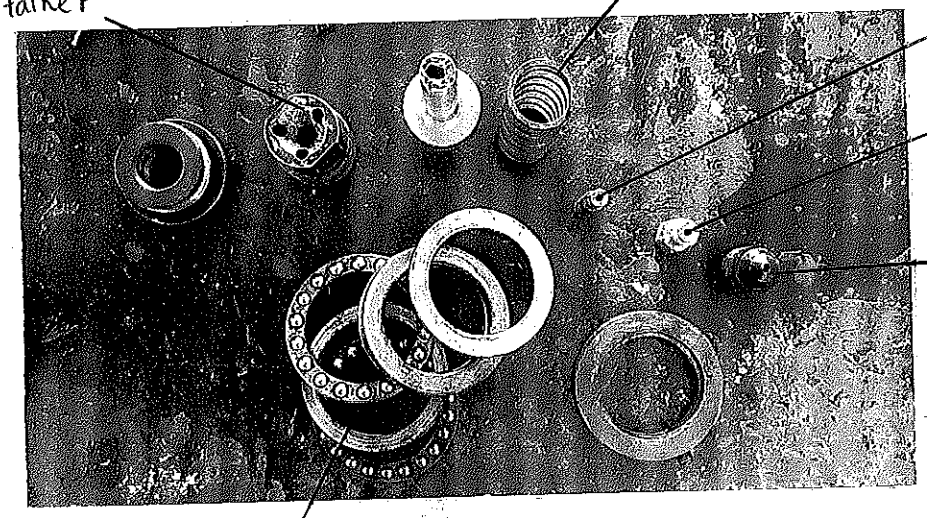
What is potential hazard during handling Stuffing Box

- pinch point
- wire breaks
- back pain due to ~~ha~~ heavy of stuffing box

Draw & name each part of stuffing box



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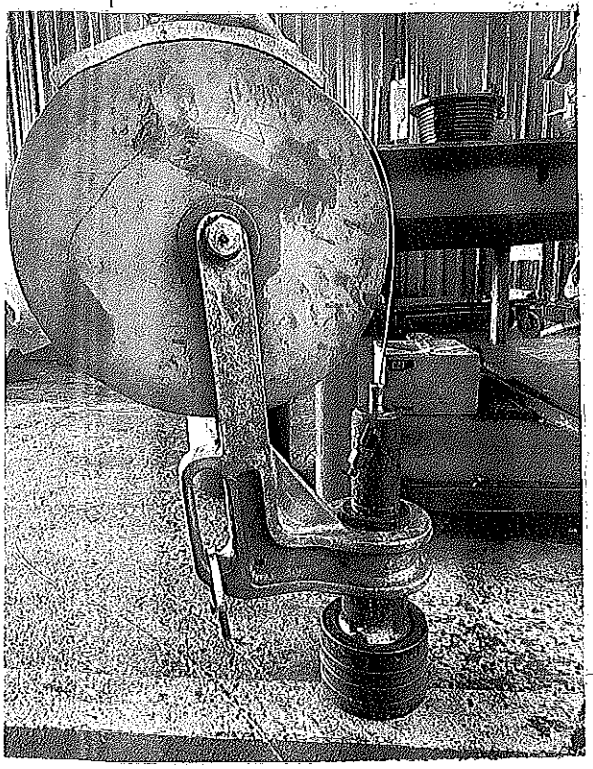
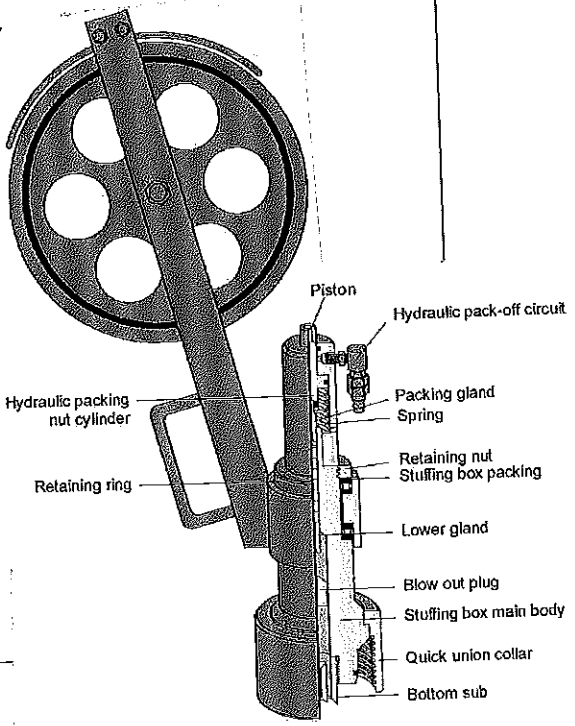


stuffing box
Elmar 16" sheave
0.108", 0.125"
wire use

4400 SWL
lbs

20" sheave
0.140
5000 lbs

18"
125" wir
140" wire



2. Lubricator

What is Lubricator

- lubricator or riser are a series of inter-connected lengths of pipe.
- positioned between stuffing box and BOP
- there are No ported and non-ported
- have 2 feet, 4 feet and 8 feet length.

What is the purpose of Lubricator

provide a space for ~~st~~ tool string to be contained in under pressure when open and close well.

How to operate Lubricator

- use chain block
- crane
- wireline mast

What is maintenance required for Lubricator

- body inspection and body pressure Hold test
- Inspection of magnetic particle Inspection.
- painting ~~protecti~~ protection.
- o-ring and connection in good condition.

What is safety precaution required for Lubricator

- fit to work by Hold pressure
- have a mpi certificate
- Lower section have bleed off
- o-ring in good condition.

What is potential hazard during handling Lubricator

- pinch point
- back pain
- dropping of object
- ~~bleeding~~

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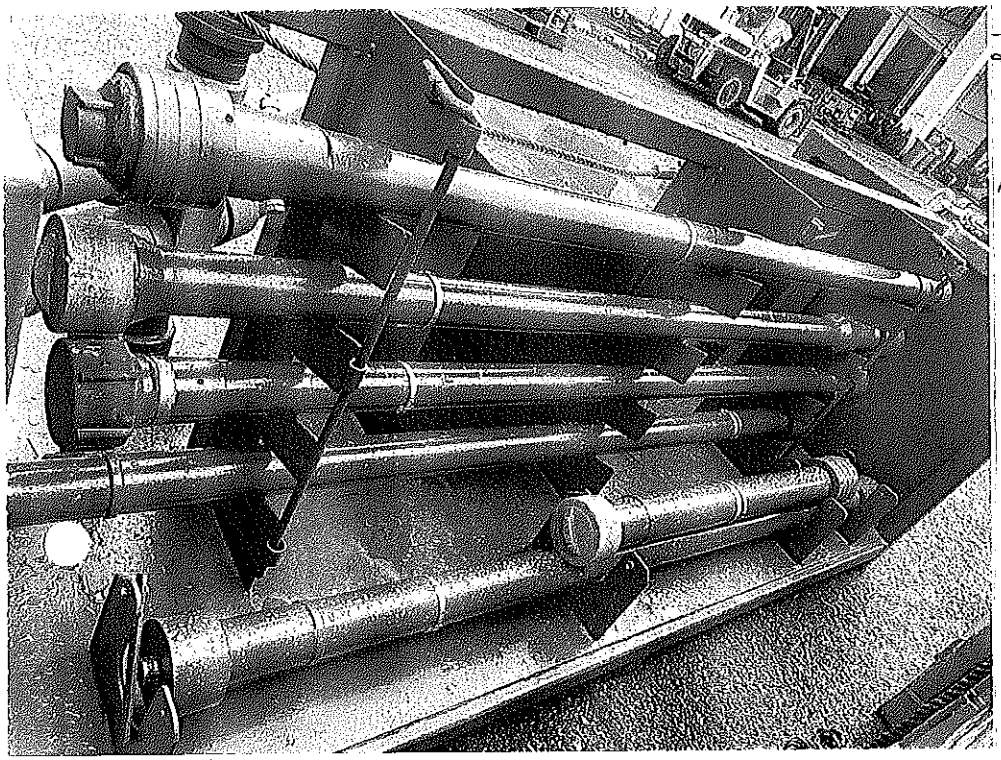
Draw & name each part of Lubricator



* Size available
  2ft, 3ft, 4ft and 8ft
* working pressure
  (3000, 5000, 10000, 15000 psi)
* Lower section usually bigger compared the upper
* ~~Lowermost most use ported section~~
* 1st fitting - monitor pressure lubricator
  2nd fitting - bleed off pressure end of operation

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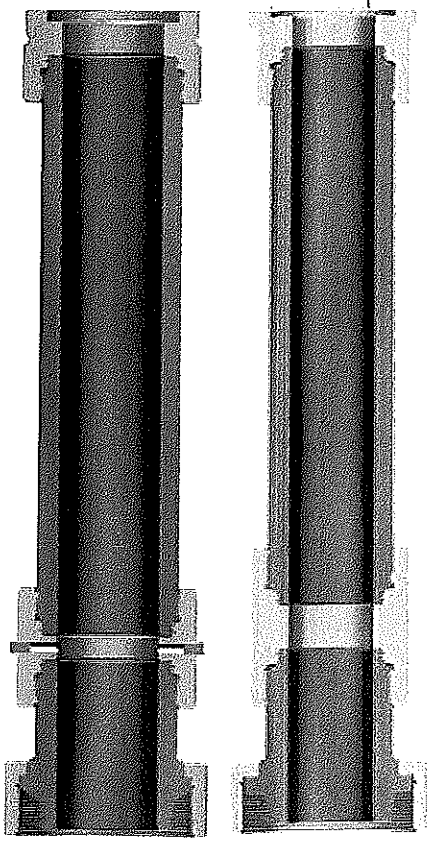
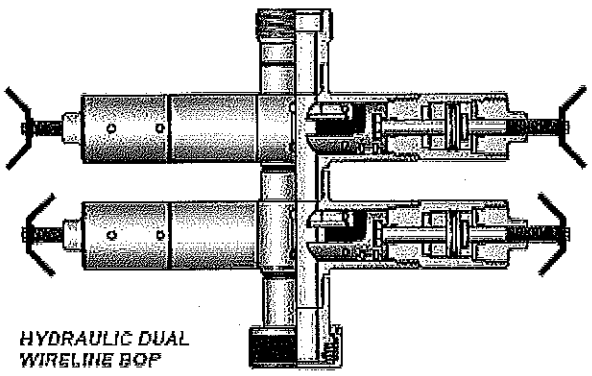
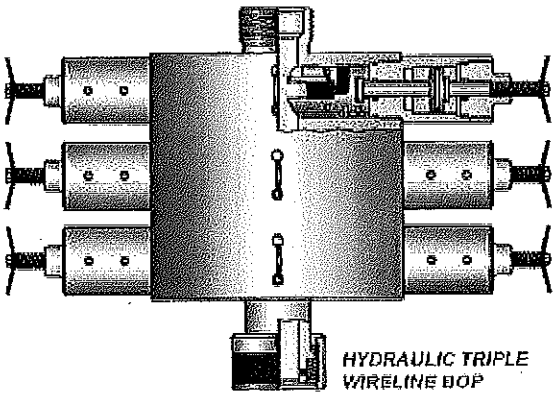


Ported Non-ported

3. Blowout Preventer (BOP)


HYDRAULIC DUAL WIRELINE BOP


HYDRAULIC TRIPLE WIRELINE BOP

What is BOP
- know secondary barrier of slickline.
- mechanical or hydraulic force applied to close or open ram
- psi install between the tree connection & lower lubricator

What is the purpose of BOP
- to isolated the well pressure
- ~~to control~~ Allow slickline work under well pressure.
- secondary barrier ~~of~~ of slickline

How to operate BOP
~~by~~ manually or by hydraulically
- RSU and mast unit

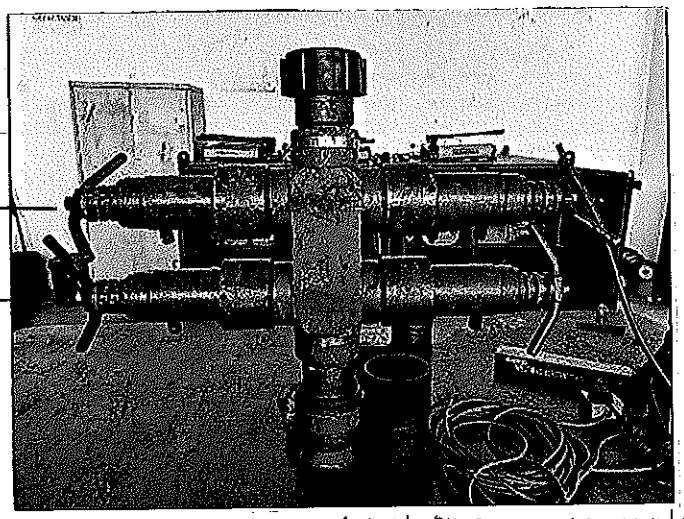
What is maintenance required for BOP other part of in Bop condition
* Corrective maintence - change o-ring, check ~~inner~~ ram condition
Preventive maintence - greasing, painting, wash

What is safety precaution required for BOP
- Use fully ppe.
- Ensure the ram is function open and close

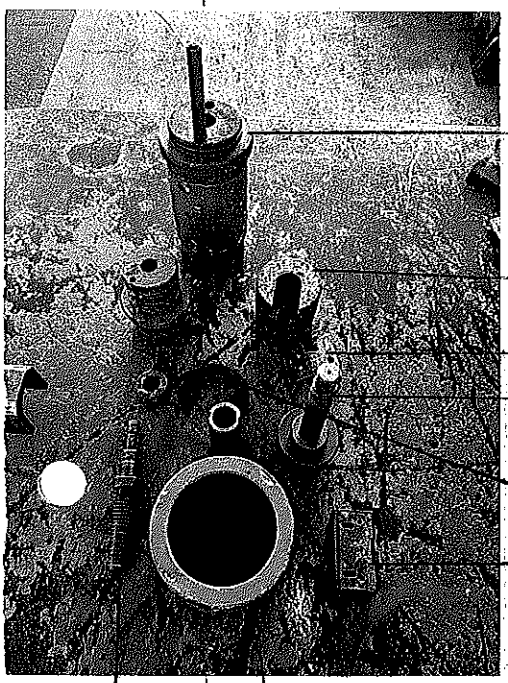
What is potential hazard during handling BOP

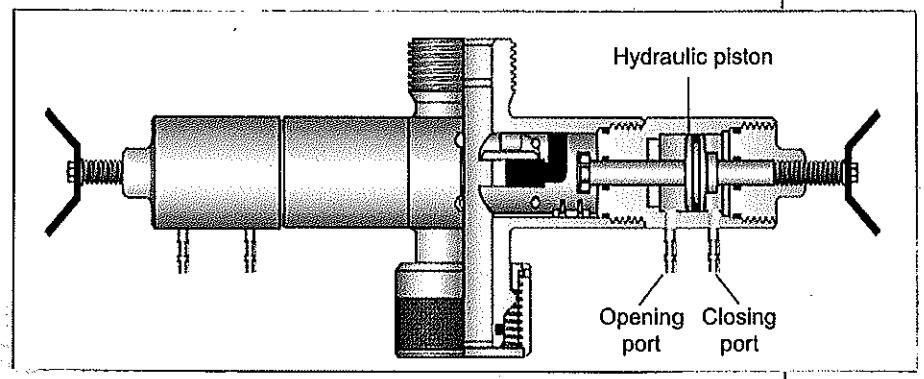
- back pain
- pinch point
- drop object

Draw & name each part of BOP



* Dual ram BOP
- know as secondary barrier upper arms for slickline.
- Hold pressure below only
- use hydraulically to operate lower arms open and closing also can be manually in positid pressure.
- To Equalizing pressure well and lubricators.
- working pressure 5000psi / test pressure 10000psi





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4. X-Mas Tree

What is x-mas tree

* X-mas tree equipment that controls the flow produced by a well.
* ~~Install~~ Vertical Assembly of valves with gauges and choker that allow for adjustments in flow control as well.

What is the purpose of x-mas tree

* control the flow produced by a well

How to operate x-mas tree

* manually operated and hydraulically

What is maintenance required for x-mas tree

* physical Inspection
* Pressure test
* function test
* Corrective maintenence
* protective maintence.

What is safety precaution required for x-mas tree

* Do not over tighten the valves while open & close
* ~~Never~~

What is potential hazard during handling x-mas tree

* Blow out
* Pinch point
* never use master valve to shut the well, use swap / kill wing valve.

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Draw & name each part of x-mas tree

1 Lower Master Valve (*LMV*)

- *Manual, NOT working valve optimum conditions*

2 Upper Master Valve (*UMV or SSV*)

- *Emergency valve*

3 Flow Wing Valve (*FWV*)

- *Permits passage of well fluids to CV.*

4 Choke Valve (*CV*)

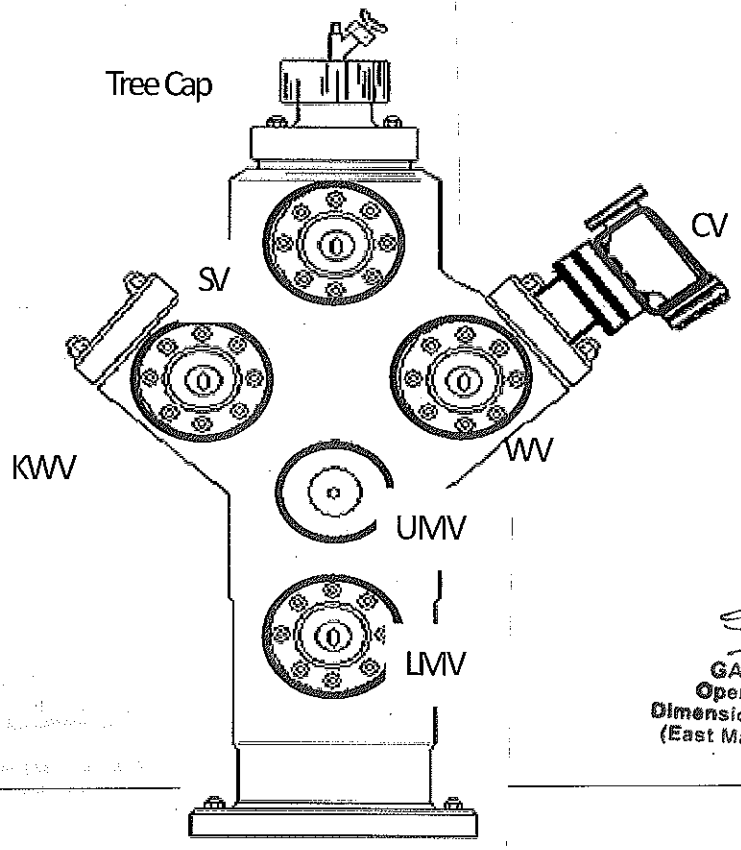
- *Restrict, control or regulate flow of well fluids*

5 Kill Wing Valve (*KWV*)

- *Permits entry of kill fluids into tubing or equalize*

6 Swab Valve (*SV*)

Permits entry of well interventions.



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

What is RSU

* Equipment that build with drum to put wire.
* have safety device, weight indicator & depth counter
* zone 2 certified equipment

What is the purpose of RSU

* spool in and out the wire which is to lower down and retrieve down Hole tools.

How to operate RSU

* by powerpack and a winch (hydraulic system)
* connected via hose of hydraulic between powerpack and RSU

What is maintenance required for RSU

* check of the condition of the brake function
* function of gauge calibrated with the running drum
* Drum condition & emergency break supply
* check device chain

What is safety precaution required for RSU

* When running the RSU, make sure it running properly and be careful of breaking wire.

What is potential hazard during handling RSU

* Pinch joint
* wire break

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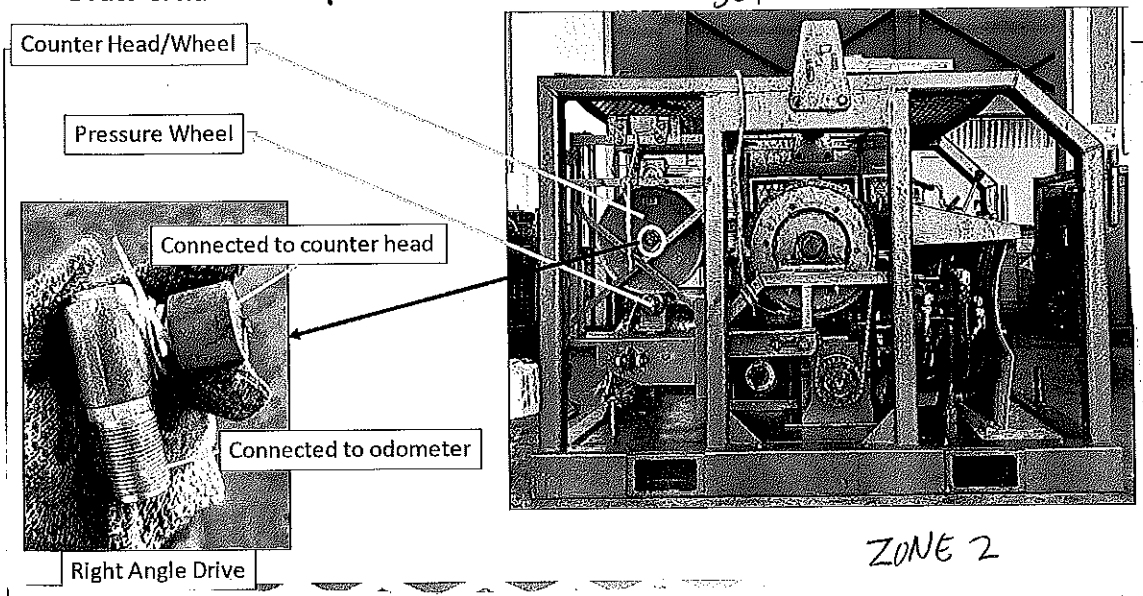
Draw & name each part of RSU

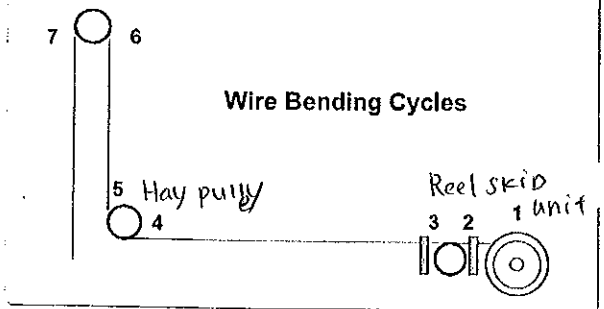
SOP



ZONE 2

* to lower and rise tool strings.
* use hydraulic hose to operated supply power by power pack.
* working pressure 2000 psi to 2500 psi

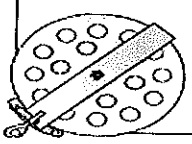
* drum can be 2 or single
  - do 2 drum which have 2 difference wire sa'iz.
* 300 lbs to 400 lbs wire tension



Wire Bending Cycles

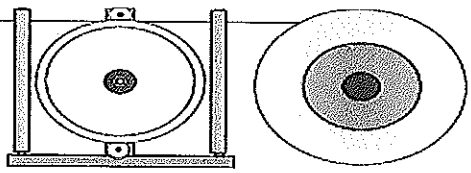
Min. diameter of counter when for wire:

- **0.108" : 13"**
- **0.125" : 15"**



Wire can be wrapped around* a counter wheel provided it is at least as large as the minimum diameters stated above.

* For extensive jarring operations it is recommended that line is not wrapped round counter.



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6. Odometer

What is Odometer

* measure the depth as counter device.

What is the purpose of Odometer

* use to measuring the depth of the wire in well bore during operation

How to operate Odometer

* connect the hose to right angle drive and put the odometer for KSU for monitoring.

What is maintenance required for Odometer

* check the counter wheel is free to rotate
* Check the direction of the rotation
* Check the odometer is fully engaget after zeroing
* Odometer is freely to rotating due the rotation of ~~what~~ system.

What is safety precaution required for Odometer

* pu Fully ppe

What is potential hazard during handling Odometer

* sharp edges
*

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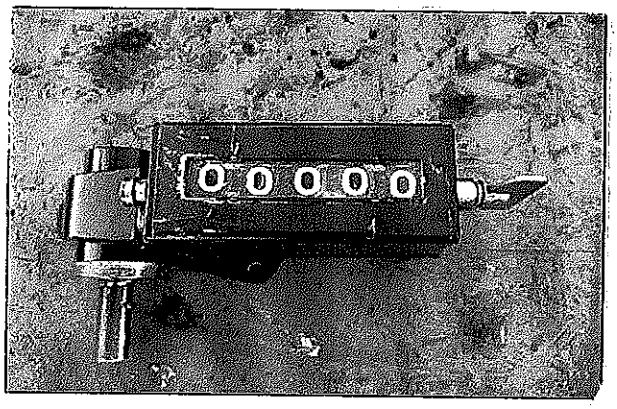
Draw & name each part of Odometer

* work as depth indicate of slickline
* set odometer manually to zero and start reading from tubing hanger.
* Rotation of drum
  - ~~Forth~~ Reel is Rotated forward - wire into well & depth increase
  - Reel is rotated backward - wire out of well & depth decrease.



Set knob
* use to reset the measurement

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7. Weight indicator (2000lbs and 4000 lbs)

What is Weight Indicator

device to measured the total weight hung in

What is the purpose of Weight Indicator

- ~~to~~ ~~to~~ determine the total weight of tools hung in tubing string.
- to estimate the right point that contact with two different fluids.

How to operate Weight Indicator

- connet to the load cell using rubber hose filled with hydraulic oil.
- connected to the hay pulley and xmas tree forming 90° each side

What is maintenance required for Weight Indicator

- check the condition of the gauge and hose.
- make sure the whose wire in good condition

What is safety precaution required for Weight Indicator

- handle with careful
- ~~donot~~ watch out for the gauge from breaking
- not kinked condition of the ~~wire~~ ~~hose~~. connection of the hose to the xmas tree :
- use right weight indicator with right wire tension

What is potential hazard during handling Weight Indicator

- drop object
- back pain
-

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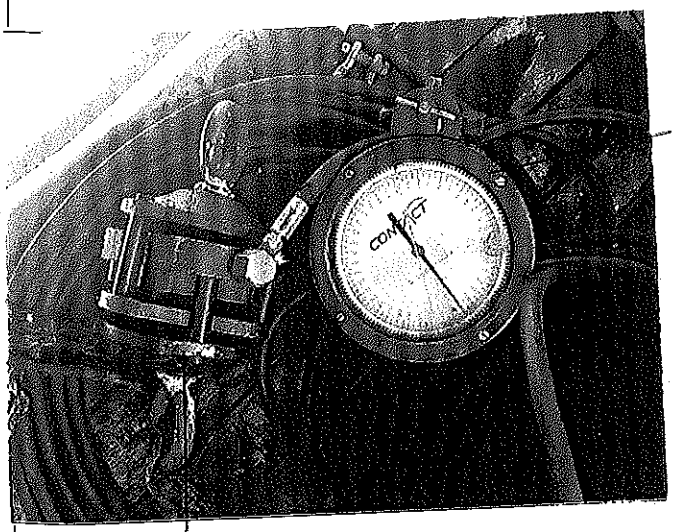
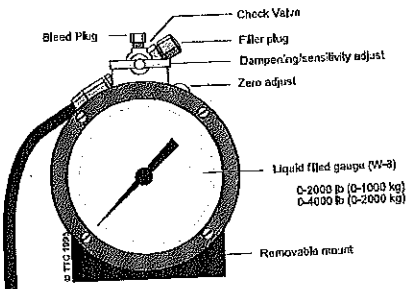
Draw & name each part of Weight Indicator

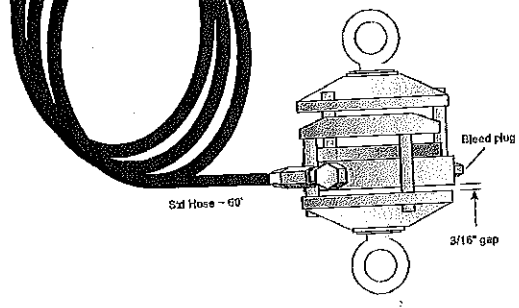
* 2000 lbs for 0.108 * 4000 lbs for 0.125 - 0.140

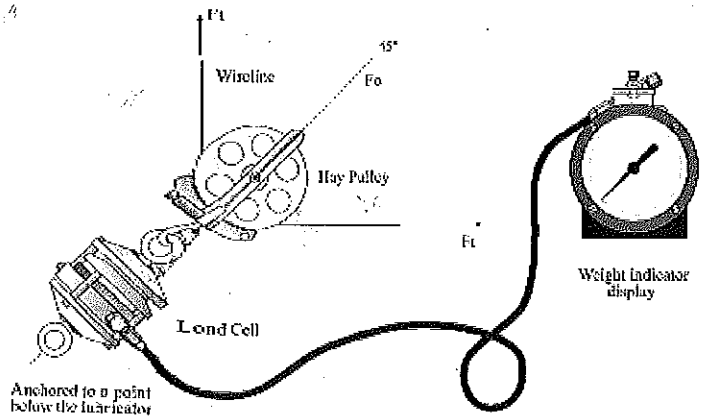


* Determine the total weight of tools hung in.
* rubber hydraulic hose 60 ft connect Load Cell and Gauge
* Y-pump used to refill the WTS fluid to service the weight indicator.

* load cell connected to hay pulley and xmas tree forming a pull 90° each side.
* 6" gauge attached to the Slickline unit







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8. Spooling Device

What is Spooling Device

* an device to spool in and out wire.

What is the purpose of Spooling Device

* to operate the spooling process by hold the reel
* control the tension of the wire while spool in and out

How to operate Spooling Device

* As same as the operation process. connee spooling device with Power pack. ~~Assemble~~ &
* make sure there not overlapping
* Brake lever is tool contral the line tension

What is maintenance required for Spooling Device

* Wheel condition
* hydraulic syseem
* connection of the hose
* drum port in good condition

What is safety precaution required for Spooling Device

* Safety flexy glass in good condition.
* Drum in safe and good condition
* breae are function

What is potential hazard during handling Spooling Device

* Pinch point
* wire ported
* breaking wire

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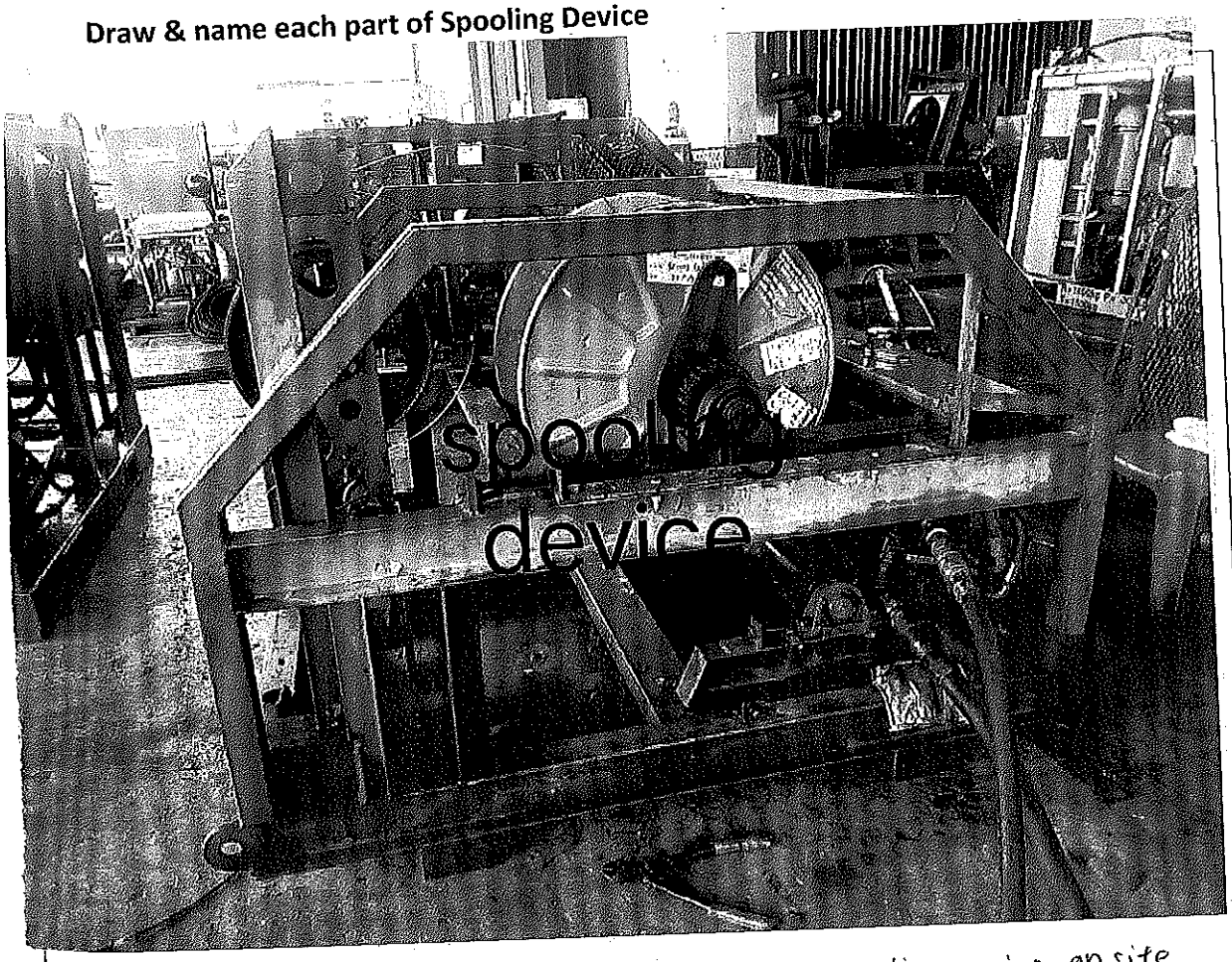
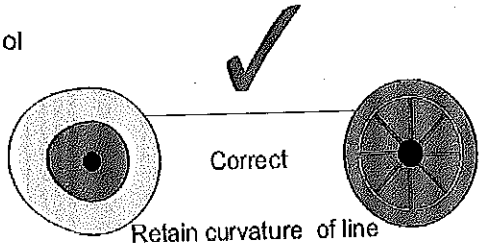
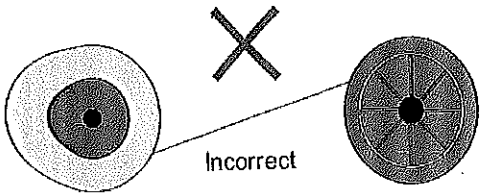
Draw & name each part of Spooling Device



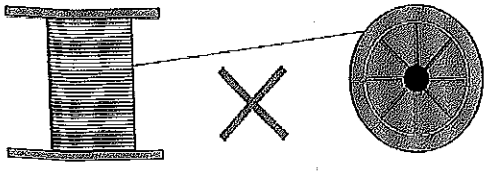
New Wire Spool



Retain curvature of line on shipping spool



Additional stresses applied by reversing curvature.



Twisting stresses applied by changing plane of rotation

Slickline Unit Reel

* spooling wire on site
300 lbs

* spooling wire on workshop
50 lbs

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9. Control Panel

What is Control Panel

* devices to control the BOP, safety valves and other PPE Equipment
- type of control panel
  control panel (CP), SWCP (single well control panel
  well control panel (WCP)

What is the purpose of Control Panel

* control the pressure needed in operation process.
- supply and control pressure for PCE ~~of~~ Equipment master valve, safety valve.

How to operate Control Panel

* connect the control panel to the ~~of~~ Equipment
* air supply connect with the control panel.
* control the air regulator by supply needed pressure to Equipment.

What is maintenance required for Control Panel

* Fluid level and condition of hydraulic oil
* Flow line in good condition, and no leaked
* gauge in needed to calibrated ~~and~~ i
*

What is safety precaution required for Control Panel

* proper connecting the hose with right position
* Beware of over pressure
* Insure there are no trapped pressure when diconnecting ~~the~~ the hose from Equipment
* use safety whip check

What is potential hazard during handling Control Panel

* ~~H~~ Face pain
* looses connection
* Blowout pressure

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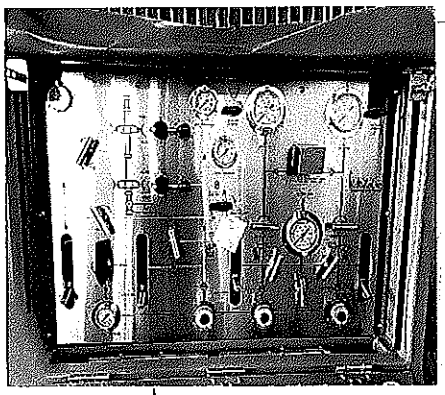
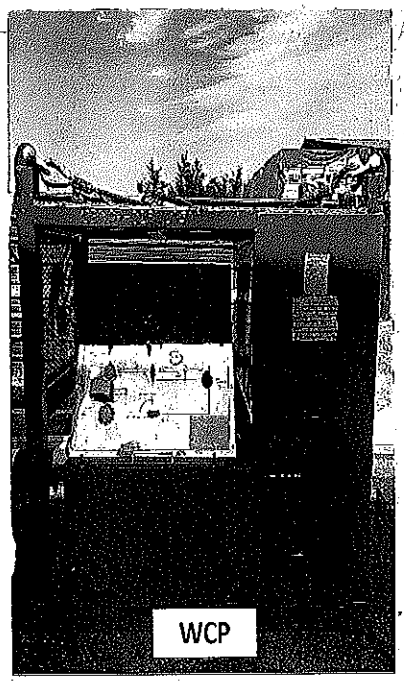
Draw & name each part of Control Panel

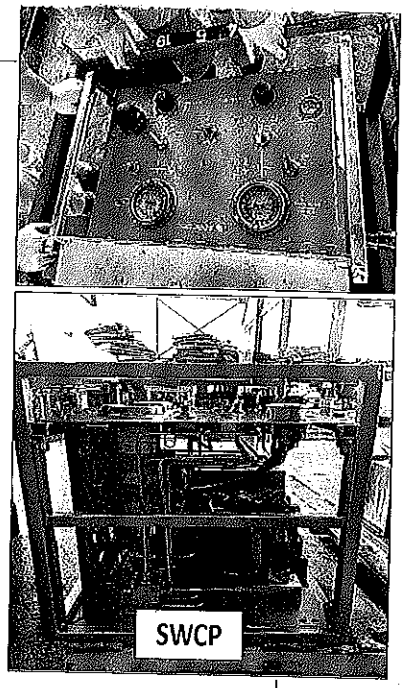


CP

* To operate
UOP ram open/close
position



* To operate BOP
MV and SCSSV



* To operate master
Valve (MV) &
Sub Surface Controlled
Safety Valve (SCSSV)

* working pressure
MV - 2800 psi
Hold test pressure
5000psi

SCSSV
- working pressur
3800 psi

- Hold test pressure
5000psi

* air supply needed
110 - 120 psi

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10. Huskel ~~Drum~~ Pump

What is Huskel ~~Drum~~ Pump

* an device that control the volume needed to pump.

What is the purpose of Huskel ~~Drum~~ Pump

* to drive the hydraulic or water in control panel allow the hydraulic piston to reciprocate without passing fluid into drive

How to operate Huskel ~~Drum~~ Pump

* allow the hydraulic' piston to reciprocate without passing fluid into drive section.
* ~~Contro~~ from knob or regulator at the panel

What is maintenance required for Huskel ~~Drum~~ Pump

* check the function of pump
* service the huskel pump
* check the piston
* condition of the vake

What is safety precaution required for Huskel ~~Drum~~ Pump

* condition of the valve
* be sure the working is in good condition

What is potential hazard during handling Huskel ~~Drum~~ Pump

* pinch point
*

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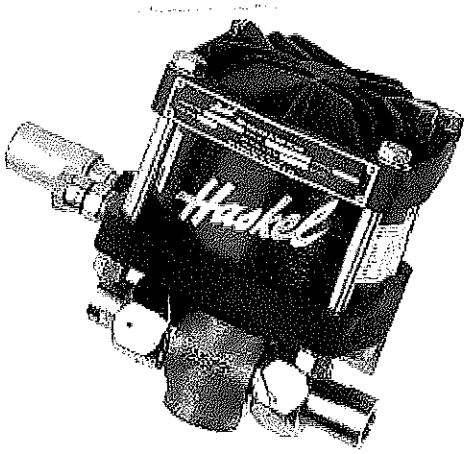
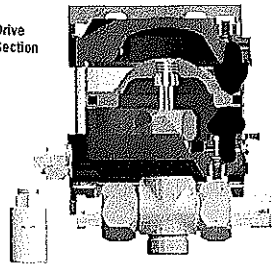
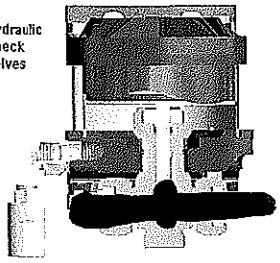
Draw & name each part of Huskel ~~Drum~~ PUMP



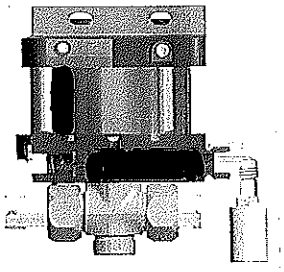
1. Drive Section



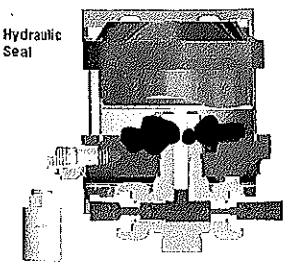
2. Hydraulic Check Valves



3. Drive Cycling Valve



4. Hydraulic Seal



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11. Power Pack (Electrical & Diesel)

What is Power Pack

Equipment the ~~supply~~ producing power to ~~de~~supply to other Equipment
* zone 2 Equipment
* powered by diesel Engine.

What is the purpose of Power Pack

* provide power to drive hydraulic oil via special hose / hydraulic hose will ~~no~~ move the drum at winch.
*

How to operate Power Pack

r by operating several valves that can be adjust speed, power and rotation of drum.

What is maintenance required for Power Pack

- oil level
- water level
- check cooled & fan belt
- Battery fluid level

What is safety precaution required for Power Pack

- be careful with moving fan
- ~~Do not~~ prevent from any sparking that can cause fire
- be aware with the hot are
- use ear safety equipment

What is potential hazard during handling Power Pack

* hearing hazard
* pinch point
* hand injury
* ~~Blow out explo~~

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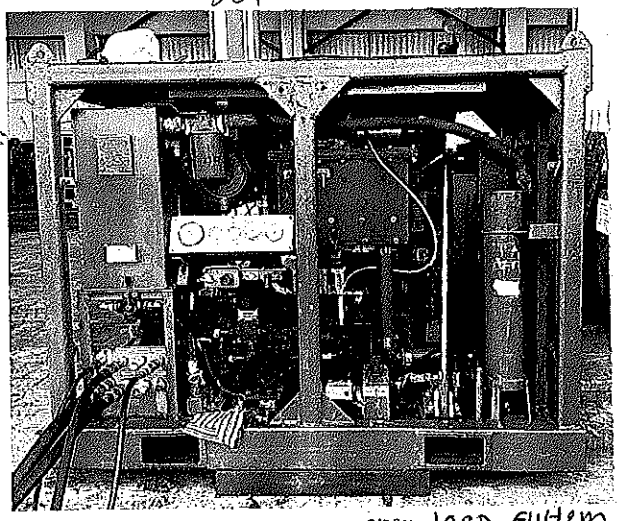
Draw & name each part of Power Pack

SOP



* supply driving hydraulic power to equipment by using diesel Engine.

* hydraulic starter

* working pressur 2000 psi

* hydraulic Hose - 20ft - 25ft
Supply hose : 1"
Return hose : 1 1/4"

open loop system zone 2

* Auto shutdown system
* overspeed - no more than 2100 rpm
* coolant temperature - effect by water temperature 99 degree
* Exhaust Temp - not more then 200 degree
* Engine oil pressure - Low oil temperature 15 psi minimum

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12. Air Compressor

What is Air Compressor

a device that converts power into potential energy stored in pressurized air.

What is the purpose of Air Compressor

* to supply compressed air to unit needed.

How to operate Air Compressor

× same procedure with power pack.
- usually with spring starter
- start by rotate the wheel clockwise till indicator turn red
- release spring to start Engine.

What is maintenance required for Air Compressor

- Change oil compresser
- Charge filter
- ~~use~~ ~~beware~~ Clean the fan belt tension
- Fuel pump need to be care from water

What is safety precaution required for Air Compressor

* Sure the air compressor not over heat
- safety valve fully functioning
- no leak on hose

What is potential hazard during handling Air Compressor

< pinch point
* hot surface
Y hose burst

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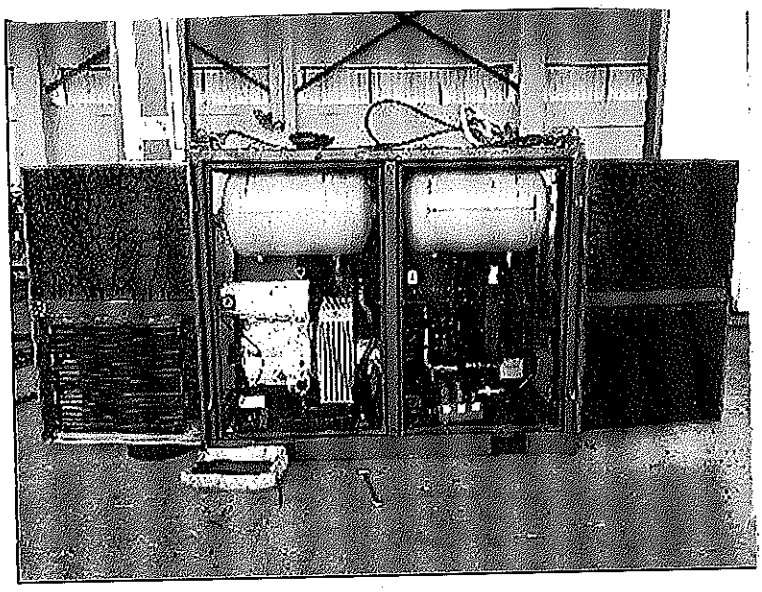
Draw & name each part of Air Compressor



ZONE 2

* supply air power for CP & SWCP via compressed air by using ~~Eng~~ diesal Engine

* working pressure from 110psi to 120psi

* Checklist before operate

- Hydraulic oil
- Engine oil
- Radiator ~~Co~~
- coolant
- spark arrestor
- connection hose

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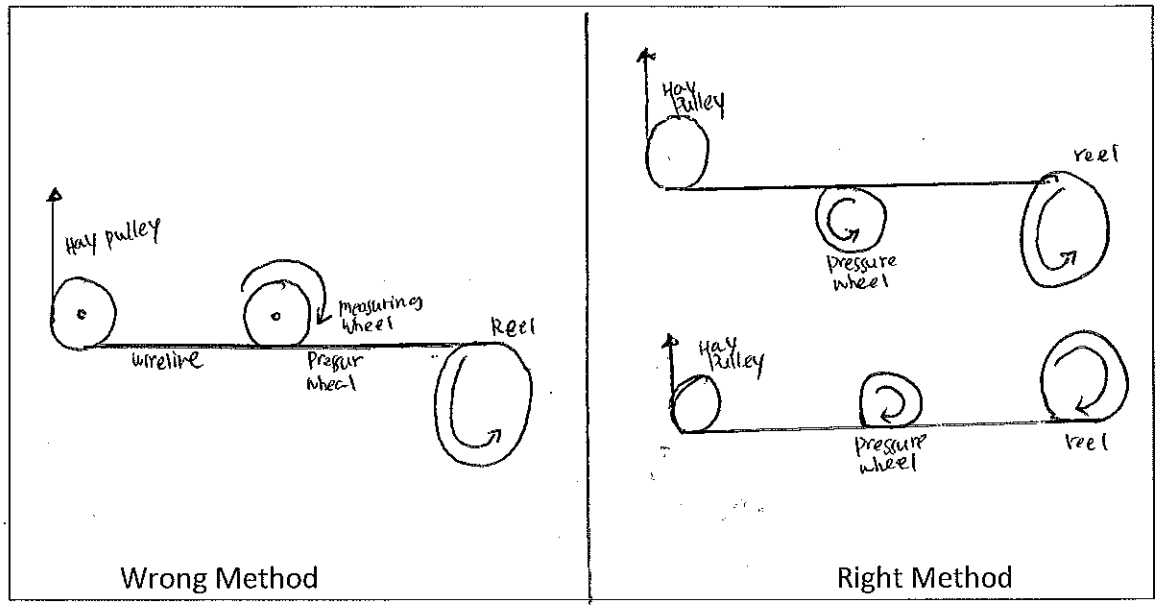
13. Drum

What is the purpose of Drum

devices that place the wire

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



Wrong Method

Right Method

What is maintenance required for Drum

- check the bearing condition
- check the condition of drum
-

What is safety precaution required for Drum

- use fully ppe while handling
- use tagline or push pull stick when moving drum
- use forklift or lifting ~~Eat~~ equipment to move

What is potential hazard during handling Drum

- pinch point
- 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

i. Running 2-7/8" Drift

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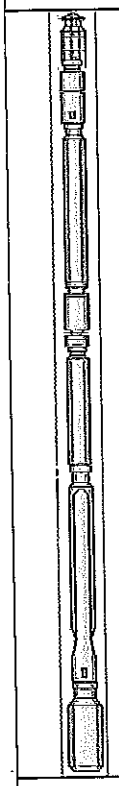
WIRELINE INTERVENTION | PERFORATION SERVICES

Drift Run

Diagram	Description	Connection		OD (inch)	Fishneck (inch)	Length (inch)	Weight (Lbs)
		Pin	Box				
	1-7/8" x 0.108" Rope Socket	1-1/16" SR	1-1/16" SR	1.875"	1.750"	8	8
	1-7/8" Swivel	1-1/16" SR	1-1/16" SR	1.875"	1.750"	12	16
	1-7/8" X 5' Normal Stem	1-1/16" SR	1-1/16" SR	1.875"	1.750"	60	50
	1-7/8" Knuckle Joint	1-1/16" SR	1-1/16" SR	1.875"	1.750"	10	12
	1-7/8" X 2' Normal Stem	1-1/16" SR	1-1/16" SR	1.875"	1.750"	24	30
	1-7/8" X 20" Mechanical Spang Jar	1-1/16" SR	1-1/16" SR	1.875"	1.750"	60	40
	2.78" Drift	1-1/16" SR	1-1/16" SR	2.735"	1.750"	12	18
					Total length (ft)	15.5	
					Total weight (lbs)		174

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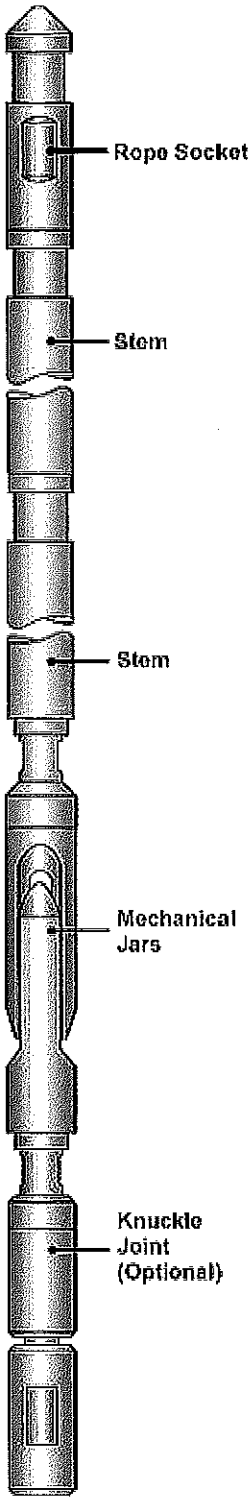
C. DOWNHOLE EQUIPMENT

1. List out all basic running and pulling tools

No.	Items
1	JDC
2	JUC
3	GR
4	GS
5	SB
6	SS
7	RS
8	RB
9	
10	X line running tools
11	R - JR & RN lock mandrel
12	SSJ - XN - test tool
13	A - A SIP lock
14	D - D coller lock
15	JK - B/BK2 side pocket
16	
17	
18	
19	
20	

pulling

Running



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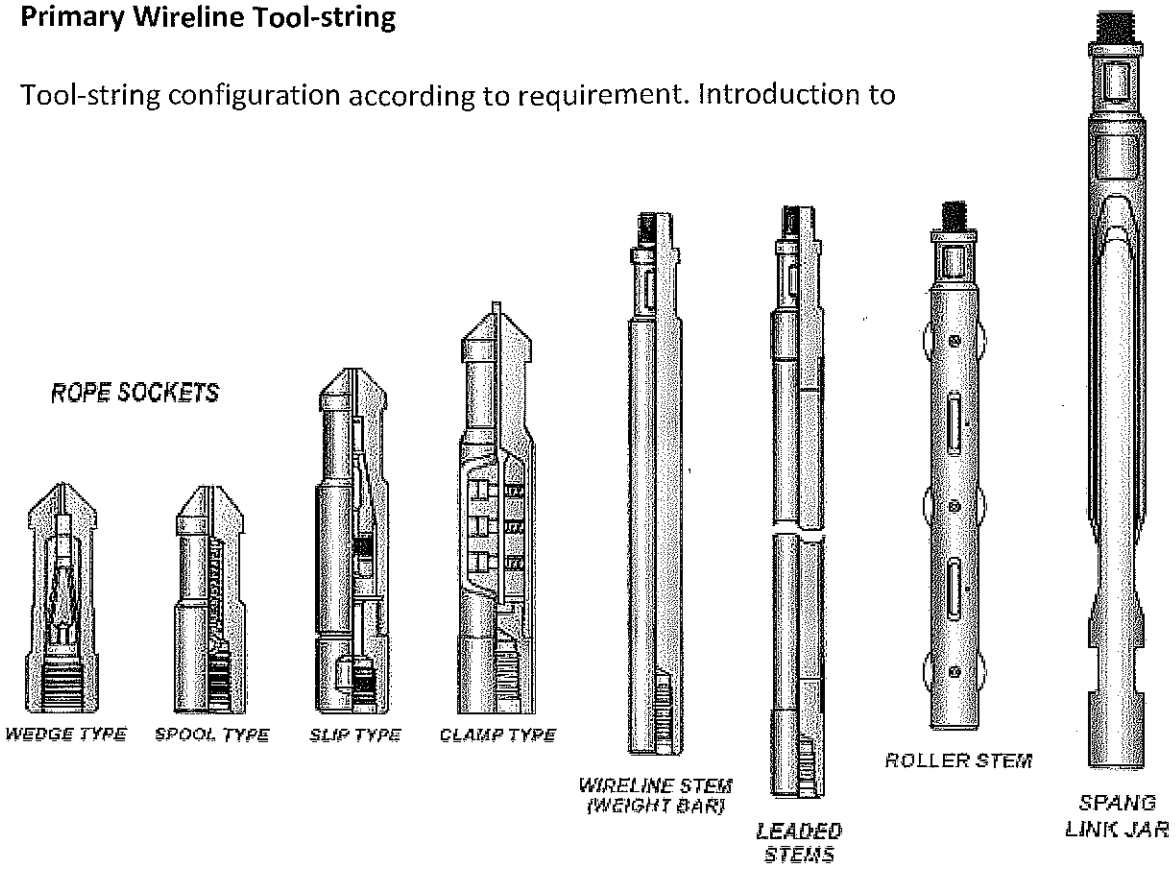
Primary Wireline Tool-string

Tool-string configuration according to requirement. Introduction to



a) rope sockets
- to attach wireline to the tool string.
located top of basic tool string

b) stem lead
provide additional weight per foot instead the normal stem

c) tungsten stem
Extra weight provided to assist operation to overcome the effect of friction fluid, viscocity and pressure in well bore.

d) roller stem
Reduces friction on the wellbore with deviated well.

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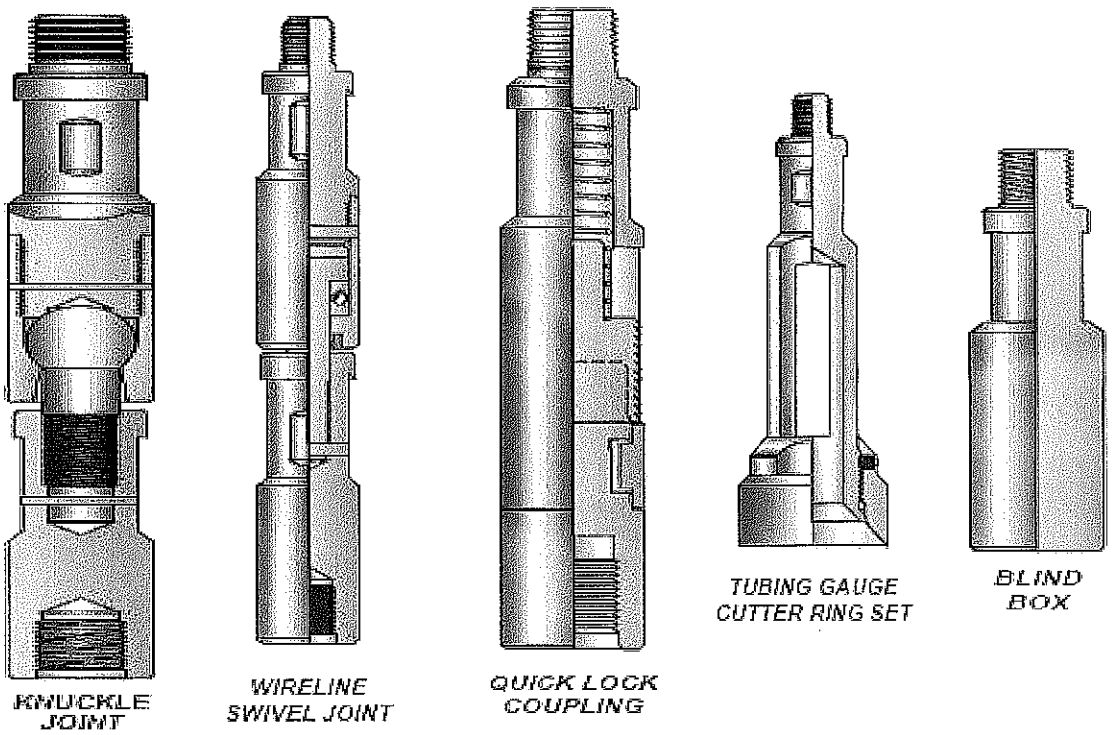
e) jars
to give effective jarring down or up Impacts.



f) knuckle joints,
add flexibility to the tool string and use in deviated well more effective.

g) swivel joints,
to ensure free rotation of down hold tool string.

h) quick-lock coupling
~~Too~~ For speed the assembly and tdiarsembly tool string.

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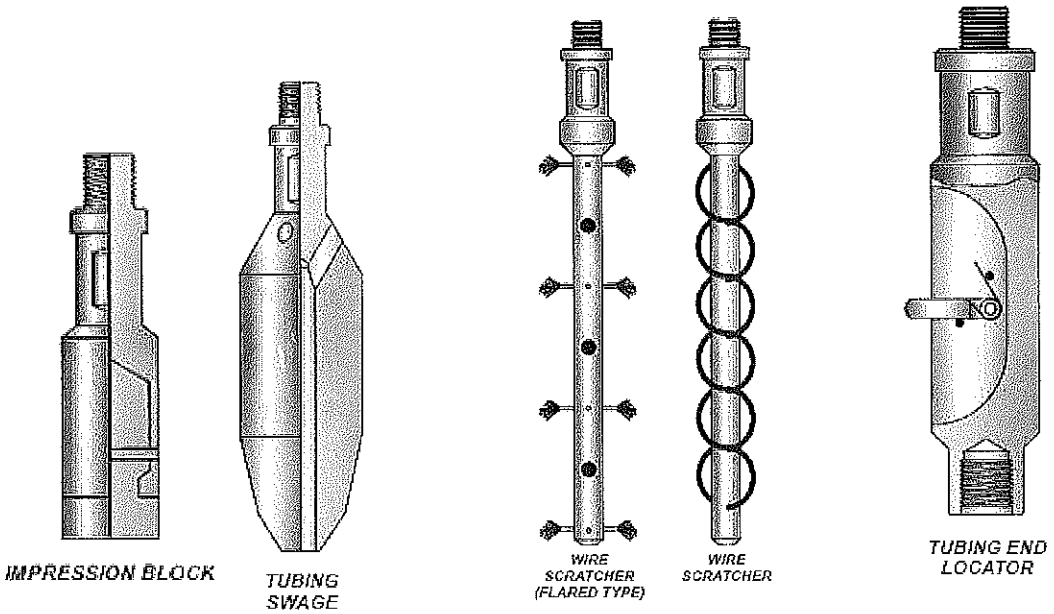
i) gauge cutter,
- to check the tubing free from paraffin and any obstructions.
- grove the ID of tubing

j) Blind Box
used to downward jarring to move obstructions downhole



k) lead impression box
- acts as camera to Slickline
- to obtain the impression of unknown tool ~~string~~ in down hole.

l) swage
- resizeing tubing and locating last wire

m) wire scratcher
- remove paraffin in inner surface of tubing

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n) tubing end locator
locate the End of tubing and measure depth of tubing.

o) wire recover tool
retrieve the wire for fishing operation.

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	1. Wire Tensile test
2. CS Elps	2. Torsion test
3.	3.

E. Why do we need to check on the tools before running in hole (RIH)?
to Ensure the right ~~on~~ tool use and it fully functioning.

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

* report to the town
* Identify the tools type, size
* consult with supervisor wireline
* prepare for fishing plan

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

* Report the problem to town as
* minor & troubleshoot
* major - Request onsite repair by machine
  - request for new Equipment or part

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D. Rig up Wireline Surface Equipment

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

1. Blow out Preventer (BOP)
2. Lubricator
3. Power Pack
4. Wireline mask
5. Cross over
6. Wireline winch
7. Stuffing box
8. Dolley
9. Lubricator clamp
10. Ball valve
11. QTS Quick test sub
12. Generator set
13.

b. Describe how to connect lubricator section

i) Horizontal

Lay down using trolley and stand using sling or rope & connect lubricator to PLE

ii) Vertical

properly & perpectly connect pin to box to union to avoid damaging the oring

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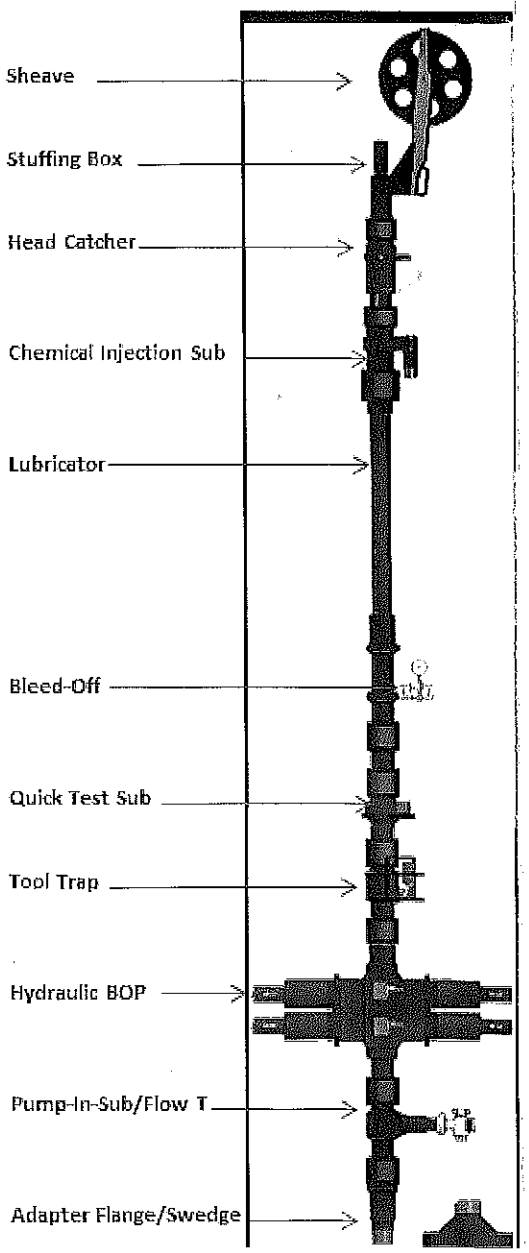
Note: Provide drawing and parts description on separate paper/page

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



SLICKLINE

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

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d. What should weight indicator attached with?

hay pulley and Load cell

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

* Rigging up state to ~~prepare~~ preparing equipment of surface Equipment and PCE.
* Rigging down state to biassembly Equipment end of operation

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

Supply - 1"
return - 1 1/4"

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

- ~~Sat~~ make sure the connection is tight and make sure the lock ring in place

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

* Fully PPE
* lifting procedure
* Rigging up and down procedure

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

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ii. Running to set PXX Plug Body

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Set PXX Plug Body

Diagram	Description	Connection		OD (inch)	Fishneck (inch)	Length (inch)	Weight (Lbs)
		Pin	Box				
	1-7/8" x 0.108" Rope Socket	1-1/16" SR	1-1/16" SR	1.875"	1.750"	8	8
	1-7/8" Swivel	1-1/16" SR	1-1/16" SR	1.875"	1.750"	12	16
	1-7/8" X 5 Normal Stem	1-1/16" SR	1-1/16" SR	1.875"	1.750"	60	50
	1-7/8" Knuckle Joint	1-1/16" SR	1-1/16" SR	1.875"	1.750"	10	12
	1-7/8" X 2 Normal Stem	1-1/16" SR	1-1/16" SR	1.875"	1.750"	24	30
	1-7/8" X 20" Mechanical Spang Jar	1-1/16" SR	1-1/16" SR	1.875"	1.750"	60	40
	2.813" X-LINE R/TOOL	1-1/16" SR	N/A	2.81"	2.31"	12	21
	2.81" PX PLUG BODY	N/A	N/A	2.81"	2.31"	18	31
					Total length (ft)	17.0	
					Total weight (lbs)		208

v. Retrieve PXX Plug Body

DIMENSION BID
WIRELINE INTERVENTION | PERFORATION SERVICES

Retrieve PXX Plug

Diagram	Description	Connection		OD (Inch)	Fishneck (Inch)	Length (Inch)	Weight (Lbs)
		Pin	Box				
	1-7/8" x 0.108" Rope Socket	1-1/16" SR	1-1/16" SR	1.875"	1.750"	8	8
	1-7/8" Swivel	1-1/16" SR	1-1/16" SR	1.875"	1.750"	12	16
	1-7/8" X 6' Normal Stem	1-1/16" SR	1-1/16" SR	1.875"	1.750"	60	50
	1-7/8" Knuckle Joint	1-1/16" SR	1-1/16" SR	1.875"	1.750"	10	12
	1-7/8" X 2' Normal Stem	1-1/16" SR	1-1/16" SR	1.875"	1.750"	24	30
	1-7/8" X 20" Mechanical Spang Jar	1-1/16" SR	1-1/16" SR	1.875"	1.750"	60	40
	3.0" Nom GS	1-1/16" SR	N/A	2.72"	2.313	14	25
					Total length (ft)	15.7	
					Total weight (lbs)		181