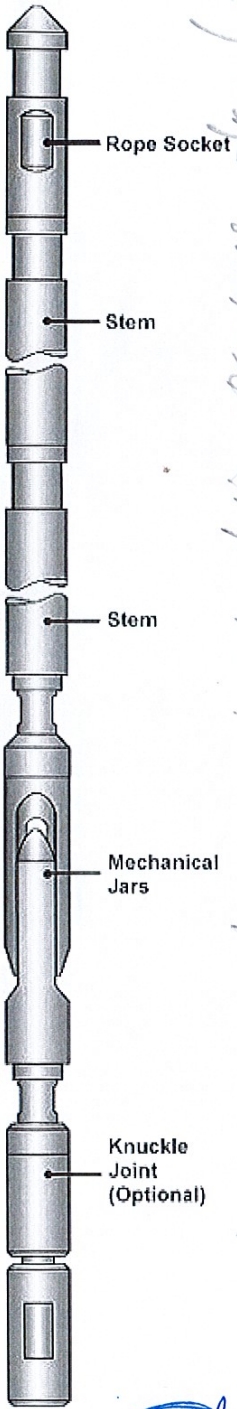
C. DOWNHOLE EQUIPMENT

1. List out all basic running and pulling tools

No.	Items
1	W ~ w Slip lock
2	X ~ X & XN lock
3	R ~ R & RA lock
4	D ~ D collar lock
5	SB ~ Rope socket & pprong
6	SSJ ~ XN ~ test tool
7	A ~ A S/D lock
8	C ~ Line running
9	PCE Heavy Duty PT.
10	GA-2 Running tool
11	RB ~ Rope socket & pprong
12	KS ~ Toolstring & tools
13	SS ~ Toolstring & tools
14	SB ~ Rope socked & pprong
15	SSJ ~ N ~ test tools
16	GR ~ X, XN, R, RA lock (optional)
17	~~GRS ~ X, XN, R, RA lock~~ ~~GRL ~ D collar lock~~ (Optional)
18	~~GRL ~ D collar lock~~ ~~FJC ~ Flat Flapper Valve (Venom Size)~~
19	FJC ~ GR/ GRA Valve (Venom Size)
20	JUC

Running

Pulling

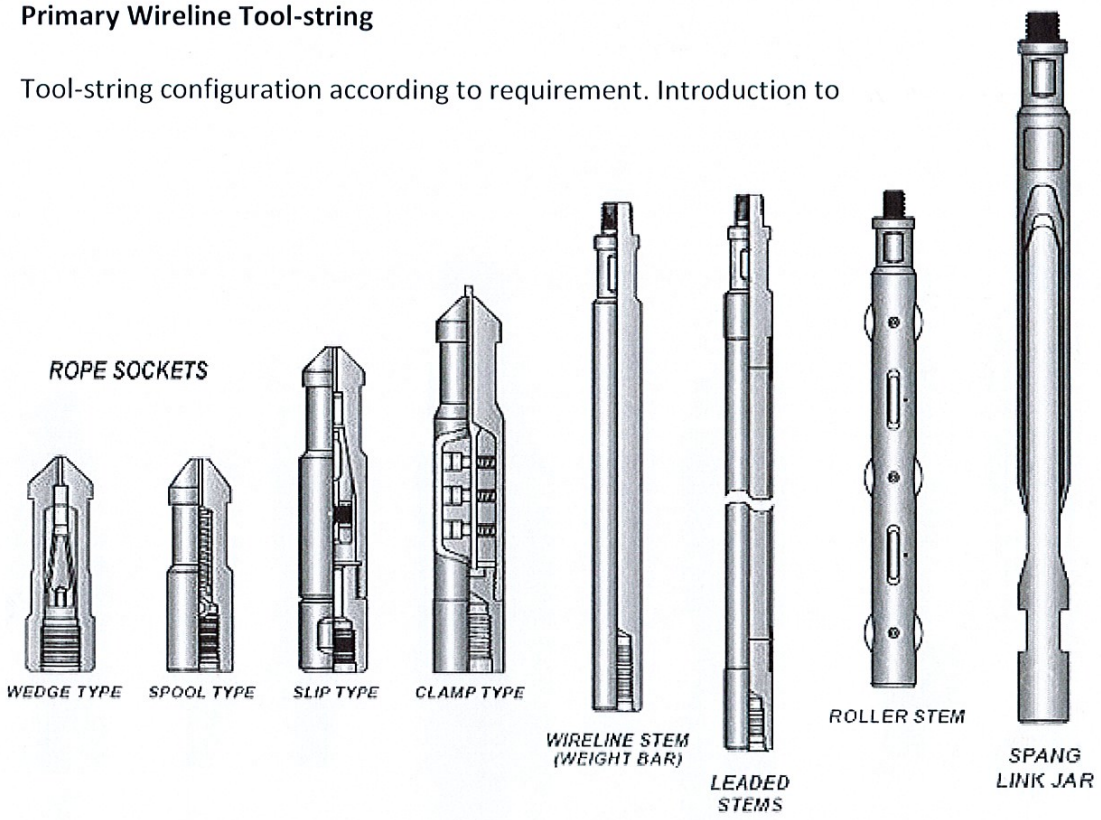


* Tool string ~ lock, Lubricator, Valve, Swivel, Pangsa, Cable, to secure the work.

GAZALI MEHRY
Operation Manager
Dimension Bid (M) Sdn Bhd
(East Malaysia Operation)
22/12/21

Primary Wireline Tool-string

Tool-string configuration according to requirement. Introduction to



a) rope sockets
* Provides a means for connecting the wireline to tool string.

b) stem lead
* Lead stem is used instead of conventional stem when additional weight per foot on given O-D is required.

c) tungsten stem
* provides extra weight and heaviest.
* Assist operator to overcome the effects of friction, fluid, viscosity and pressure within well bore.

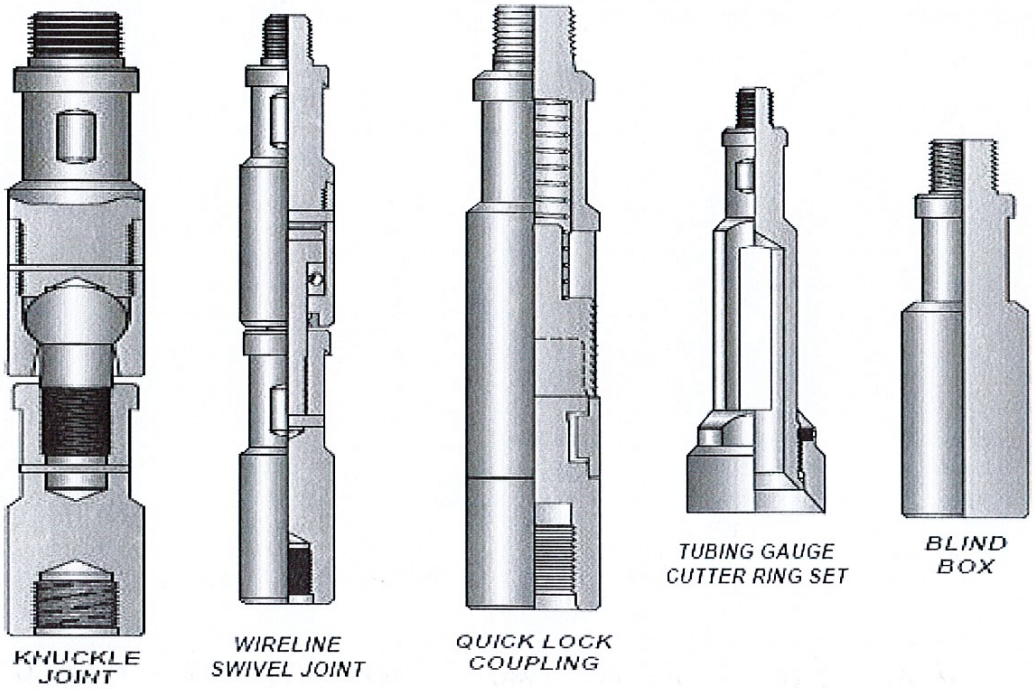
d) roller stem
* To reduce against tubing ID caused by the tool string sliding on tubing wall in high deviated well

17/10/24

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

e) jars

* To deliver effective jarring down or up impacts.



f) knuckle joints,

* is designed for flexibility & running smoothly into a deviated tubing string/high angle hole.

g) swivel joints,

* To ensure free rotation of down hole tool string assemblies even when the tool string is held in significant tension.

h) quick-lock coupling

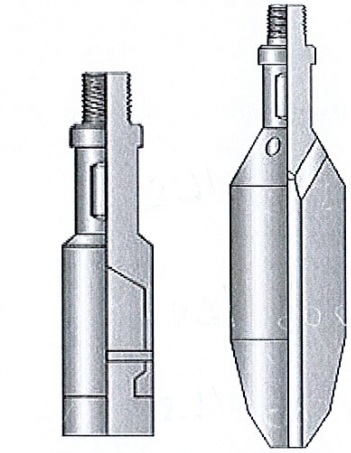
* Safe and strong method of tool coupling.

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

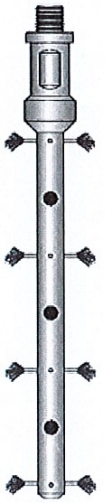
17/12/21

i) gauge cutter,
* used to grove the ID of tubing in which it is run
* tubing clearance (free from any obstacle)
* Remove paraffin/asphaltene on inner surface of tubing

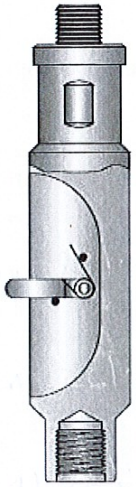
j) Blind Box
* used in fishing operation when heavy downward jarring action is required.


IMPRESSION BLOCK

TUBING SWAGE


WIRE SCRATCHER (FLARED TYPE)

WIRE SCRATCHER


TUBING END LOCATOR

k) lead impression box
* used in fishing operation
* acts as bottomhole camera.
* to obtain the impression of unknown fish's within tubing string

l) swage
* restore light collapse/dent in Tubing
* used to remove large obstacles.

m) wire scratcher
* to remove paraffin in inner surface of tubing.

17/12/21
GAZALI MEHRY
Operation Manager
Dimension Bid (M) Sdn Bhd
(East Malaysia Operation)

n) tubing end locator

* To ~~indicate~~ locate end of tubing and measure depth of tubing end of completion.

o) wire recover tool

* To fish / retrieve the wire.

Fill up below Table

A. Size of Wire that use at DB	B. Breaking point of each wire
1. 0.108 inch	1. 2500 lbs
2. 0.125 inch	2. 3200 lbs
3. 0.140 inch	3. 4500 lbs
C. Type of wire used at DB	**D. How to test if wire is good or not**
1. ZERON	1. Wire pull test
2. Elps	2. Torsion test.
3.	3.

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

To ensure tool string is fully functioning.

12/12/21

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

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

* Report to the town
* Consult with wireline Supervisor
* Prepare fishing plan

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

* Report to town (within 30-45 minutes)
* Minor troubleshoot
* Major - ROV for machine /technician
  - Request for new equipment.

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

22/12/21