

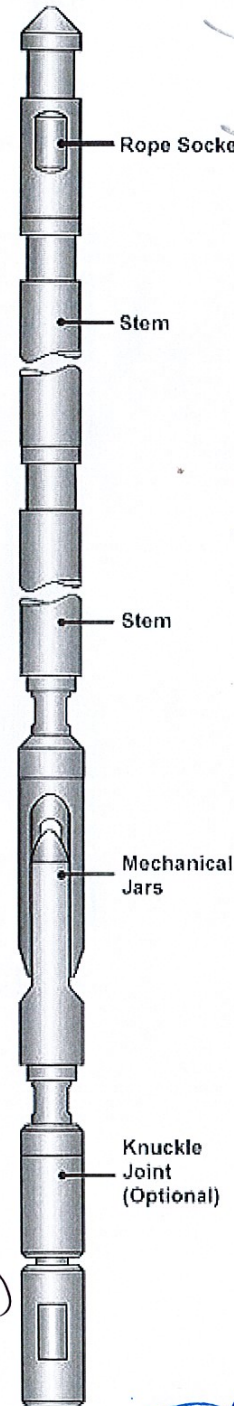
**C. DOWNHOLE EQUIPMENT**

1. List out all basic running and pulling tools

| No. | Items   |
|-----|---|
| 1   | W - w Slip Lock   |
| 2   | X - X f Xn Lock   |
| 3   | R - R f RA Lock   |
| 4   | D - D Collar Lock   |
| 5   | SR - Rope socket f p prong  |
| 6   | SSJ - X - fast tool   |
| 7   | A - A slip lock   |
| 8   | X - Line running  |
| 9   | PCB Heavy Duty PT.  |
| 10  | GA-2 Running tool   |
| 11  | RB - Rope socket f p prong  |
| 12  | RS - Toolstring f tools   |
| 13  | SS - Toolstring f tools   |
| 14  | SB - Rope socket f p prong  |
| 15  | SSJ - M - fast tools  |
| 16  | GR - X, Xn, R, RA lock (Optional)   |
| 17  | <del>GRS - X, Xn, R, RA lock (Optional)</del><br><del>GRD - D Collar Lock</del> |
| 18  | <del>GRD - D Collar Lock</del><br>JDC - gas lift valve (venom size)             |
| 19  | JDC - gas lift valve (venom size)   |
| 20  | JUC   |

Running

Pulling



Dr. Lubricator  
\* Tool string tidak boleh lebih panjang  
\* To ensure the torque valve fully close to secure the well.

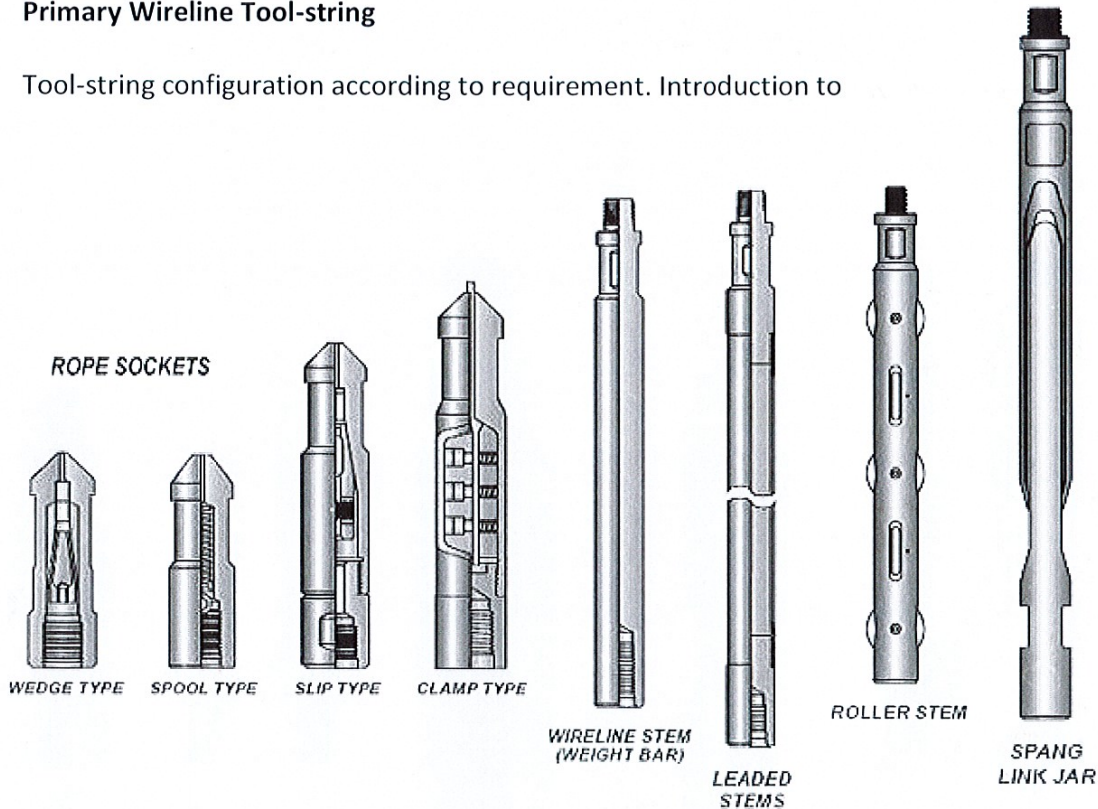
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**Primary Wireline Tool-string**

Tool-string configuration according to requirement. Introduction to



a) rope sockets

*\* provided 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 hardness.  
\* 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.*

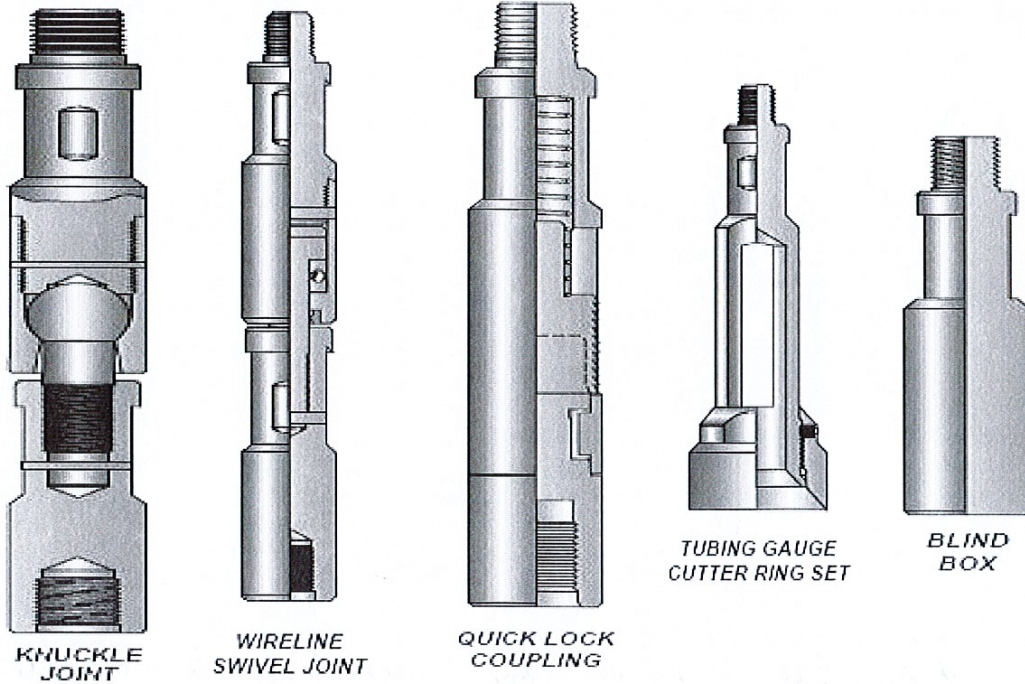
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e) jars  
*\* To deliver effective jarring down on up impacts.*



f) knuckle joints,  
*\* is designed for flexibility to run 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.*

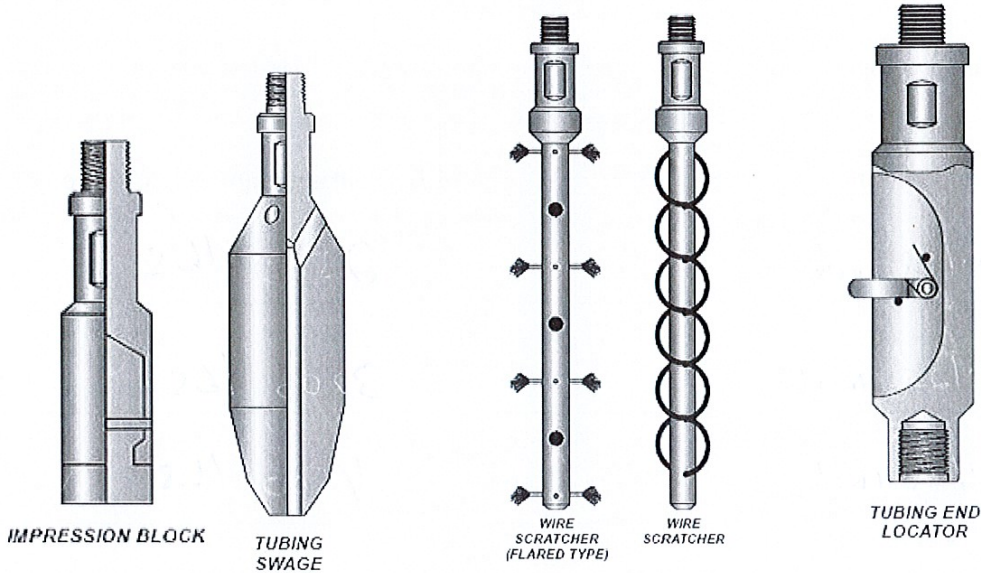
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i) gauge cutter,  
 \* used to groove the ID of tubing in which it is run  
 \* tubing clearance (free from any obstacle)  
 \* Remove paraffin/asphaltene on inner surface of tubing

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



k) lead impression box  
 \* used in fishing operation  
 \* acts as bottomhole camera.  
 \* to obtain the impression of unknown tools 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.

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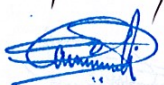
n) tubing end locator

\* 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

|  |  |
|--|--|
| <p>A. Size of Wire that use at DB</p> <ol style="list-style-type: none"> <li>0.108 inch</li> <li>0.125 inch</li> <li>0.140 inch</li> </ol>   | <p>B. Breaking point of each wire</p> <ol style="list-style-type: none"> <li>2500 lbs</li> <li>3200 lbs</li> <li>4500 lbs</li> </ol>             |
| <p>C. Type of wire used at DB</p> <ol style="list-style-type: none"> <li>ZERON</li> <li>EIPS</li> <li></li> </ol>  | <p>D. How to test if wire is good or not</p> <ol style="list-style-type: none"> <li>wire pull first</li> <li>Tension first.</li> <li></li> </ol> |
| <p>E. Why do we need to check on the tools before running in hole (RIH)?</p> <p>To ensure tool string is fully functioning.</p> <p>12/12/21</p> <p><br/> <b>GAZALI MEHRY</b><br/>         Operation Manager<br/>         Dimension Bid (M) Sdn Bhd<br/>         (East Malaysia Operation)</p> |  |



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

- \* Report to the fomer
- \* Consult with wireline Supervisor
- \* Prepare fishing plan

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

- \* Report to town Center (30-45 minutes)
- \* Minor troubleshooting
- \* Major - ROV for machine technician  
- Request for New equipments.

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