

C. DOWNHOLE EQUIPMENT

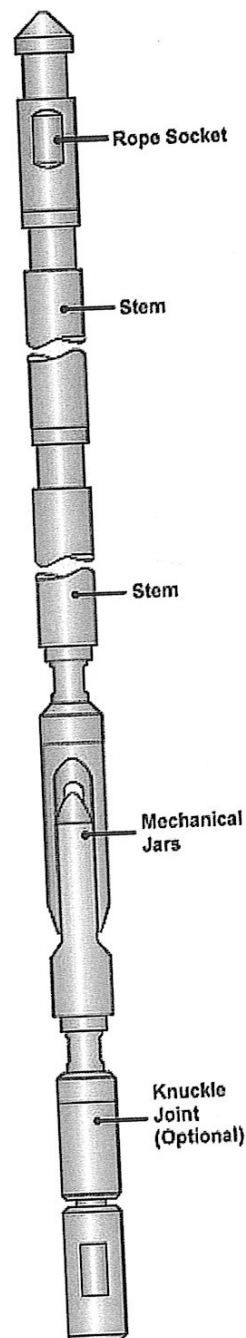
Running / Pulling Tool

1. List out all basic running and pulling tools

No.	Items
1	X line / XO running tool
2	R line / RO running tool
3	JK running tool
4	GIA running tool
5	QXD running tool
6	QXT running tool
7	S Type Pulling tool
8	SSJ
9	R type Pulling tool
10	GS and GSL puling tool
11	PCE Heavy Duty Pulling tool
12	Camco J series pulling tool
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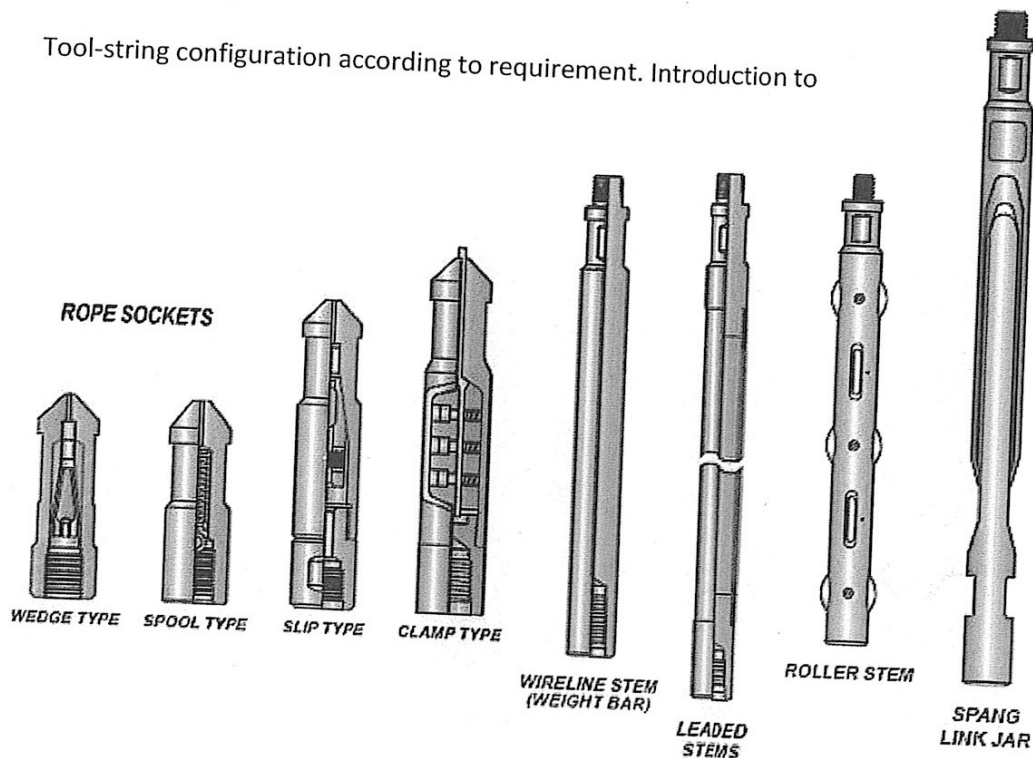
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Basic Tool-string

Tool-string configuration according to requirement. Introduction to



a) rope sockets

- Uppermost component in slickline toolstring and forms an essential link between the toolstring and the wire.

b) stem lead

- Provide greater mass required in wireline operations.
- Primarily to run flowing pressure surveys to obtain max weight and min cross sectional area.

c) tungsten stem

- Higher density of heavy weight stem.
- Consist of tube which carries the tungsten inserts and a bottom sub with box connection.

d) roller stem

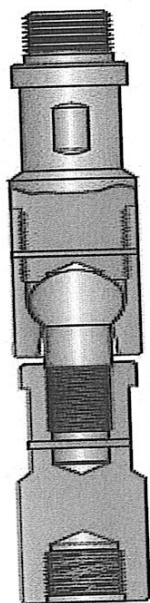
- Same weight and mass as normal stem but design with rollers to reduce the friction against the tubing wall in deviated wells.

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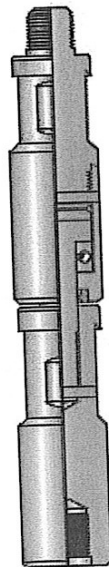


e) jars

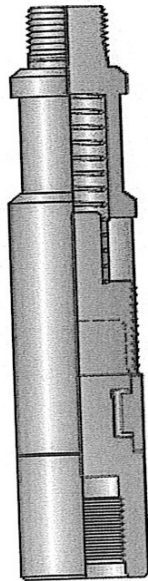
- to deliver effective jarring down or up impacts.
- also known as Stroke jar, Spang jar or link jar and has no removeable parts.



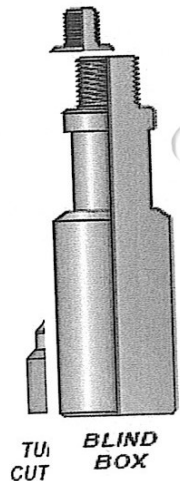
KNUCKLE JOINT



WIRELINE SWIVEL JOINT



QUICK LOCK COUPLING



BLIND BOX
TU CUT

f) knuckle joints,

- To add flexibility to the toolstring and used in deviated well.
- Permit 15° sideways movement.

g) swivel joints,

- Wireline accessory used to minimize the effect of twisting wire caused by downhole tools being run.

h) quick-lock coupling

- safe and strong method of tool coupling.

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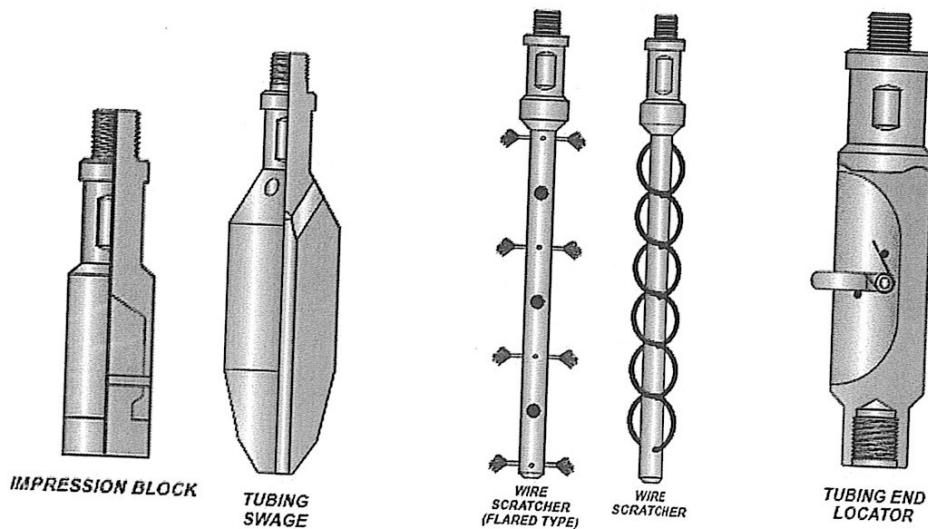
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i) gauge cutter,

- used to run in hole before running sub-surface equipment.
- Also known as Tubing Gauge / Gauge ting.

j) Blind Box

- used when heavy downwards jarring is required to dislodge fish, or push something down the hole.



k) lead impression box

- Also known as bottom hole camera and used to check the shape or size of the top of fish to determine the appropriate tool for fishing.

l) swage

- used to remove restore the light collapse in the tubing to remove large obstruction.

m) wire scratcher

- To clear wax, scale and sand in the tubing wall, nipple profiles, BSD sleeves and Side Pocket Monitors.

n) tubing end locator

- To locate end of tubing and measure depth of tubing end at completion.

o) wire recover tool

- To fish / retrieve the wire.

Wireline Wire

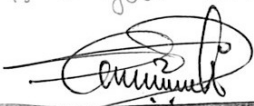
Fill up below Table

A. Size of Wire used by DB 1. 0.108" 2. 0.125" 3. 0.140"	B. Breaking point of each wire 1. 2500 lbs 2. 3300 lbs 3. 4500 lbs
C. Type of wire used by DB 1. Zeron 2. EIPs 3.	D. How to test if wire is good or not 1. Wire pull test 2. Torsion test 3.

Inspection / Maintenance of Tools

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

To ensure tool string is in good condition and fully functioning.


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B. What do we need to do if the tool is damaged or lost in hole?

- Stop work and report to town.
- Consult with wireline supervisor.
- Prepare fishing plan.

B. What do we need to do if equipment fail to work?

- Report to town immediately.
- Minor trouble shoot.
- major * request for mechanic/technician
 - * request for new equipment (if equipment fail to function after repair)

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