



A brief overview of Industrial Equipment used in oilfields

In the 21st century, when industrialisation is at its peak, and crude oil is the basis for many forms of fuel, oilfields have become the life and blood of the industrial spectrum. From electric power plants to heating appliances, oil is one of those valuable commodities that must be produced broadly to sustain the industrial architecture. That's when oil fields come into the big picture. Oil fields in Singapore use a myriad of instruments ranging from [gas lift mandrels](#) to [artificial lift systems](#) to cover major operations. To ensure proper extraction, cleaning and safety, and to reduce costs, and environmental impact a variety of oilfield equipment are used. Some of these are elaborated by our experts as follows:

Cement Retainers

The **cement retainers** in oilfields are used for multi-zone isolation, stimulation and plug and abandonment. Used to provide optimal strength and drillability for temporary or permanent wellbore isolation, the [cement retainers](#) can be used over an extensive range of downhole conditions. Typically the mechanical cement retainers are deployed on tubing and the large internal bypass prevents swabbing during retrieval and running. On the other hand, wireline cement retainers are deployed on the wireline and set via appropriate WLAK, WPSA and Snap Latch Stinger Sub. The circulating squeeze is often performed by cement retainer with water or acid to ensure a good clean up, and then the cement slurry is pumped and displaced.

Gas lifting equipment

For gas lifting, there are these **gas lifting valves** and mandrels. The steps through which oil is lifted in the oil are quite intriguing. Firstly, gas is pushed into the well via a gas lift choke, interlinked to an annulus. The entire framework extends down to the reservoir. Then the gas injection valve pushes gas into the reservoir to form downward pressure into the reservoir. This causes oil to rise upwards through the artificial lift system. After that, the mandrels are used to reduce the pressure withstood by each piece of equipment.

How to choose the best oilfield services?

The experts in oilfield services understand the crests and troughs of every process and make sure that safety in operations is prioritised. If you are selecting a firm that specialises in oilfield services, make sure the company has a dedicated team of technicians who can support you for selection, installation and operations. In addition, the quality of the services should be

avant-garde, and the company must enable you with top-tier technology for creating proprietary industry-pioneering solutions without any setbacks.

Conclusion

In addition to all these instruments, there are also plunger lifts, liner hangers, inflow control devices, **oil and gas screens**, [sand screens](#) and bridge plugs. Each component has its use. For example, [Bridge plugs](#) are used in temporary and permanent downhole applications to stop crude oil from reaching an upper zone of the well while they are being treated or worked on. Discuss with your service provider to explore which equipment will best suit your needs.