

Surface Test Tree

SURFACE EQUIPMENT

Overview

The surface test tree is a temporary wellhead configured to connect the drill stem test string to the surface well test equipment and a kill pump. It also allows for live well intervention into the drill stem test string with slickline, electric line or coiled tubing tools. Connections to various drill strings are available, and an integral swivel allows manipulation of Drill Stem Test Tools while maintaining pressure integrity.

Features

- Standard four valve configuration (Master, Swab, Kill and Flow)
- Five valve variant with Lower Master Valve added
- Hydraulic, normally closed, flow valve to incorporate Emergency Shut Down
- Available in Standard or Sour Service trim
- High Tensile Load ratings

Benefits

- Manipulation of drill string while maintaining pressure integrity
- Drill String Intervention for wire or coiled tubing tools
- Allows for fluids to be pumped into the drill string via the kill valve
 - Spotting cushions
 - Bullheading
 - Reverse Circulating
- API 6A and NACE compliant

Applicable Information

- Offshore and onshore operations
- Well control
- Well testing
- Flow back
- Drill-stem testing
- Early production facilities, extended appraisal testing
- Well intervention services





Equipment Specifications - Surface Test Tree

Maximum Allowance Working Pressure (psig)	10,000	15,000
Test Pressure (psig)	15,000	22,000
Temperature (°F)	-20/250 -20/350	-20/250 -20/350
API 6A (PSL)	2 or 3	2 or 3
Drift ID	3.03"	3.03"
Valve Size	3-1/16"	3-1/16"
Valves	4 - swab, master, kill as manual, flow as hydraulic fail closed	4 - swab, master, kill as manual, flow as hydraulic fail closed
Swivel Rating (lbs)	490,000 lbs at 0 psig	300,000 lbs at 10,000 psig
Applicable Codes	API 6A/NACE MR-01-75	API 6A/NACE MR-01-75
Shipping Footprint (L x W x H)	7' x 18'	7' x 18'
Weight (lbs)	6,500	7,725
Flowline Connection	3" Fig 1502 Male	3-1/16" API Flange
Kill Line Connection	3" Fig 1502 Female	3-1/16" API Flange
Top Connection	6 1/8" - 4 Acme Box	6 1/8" - 4 Acme Box
Bottom Connection	6 1/8" - 4 Acme Box	6 1/8" - 4 Acme Box