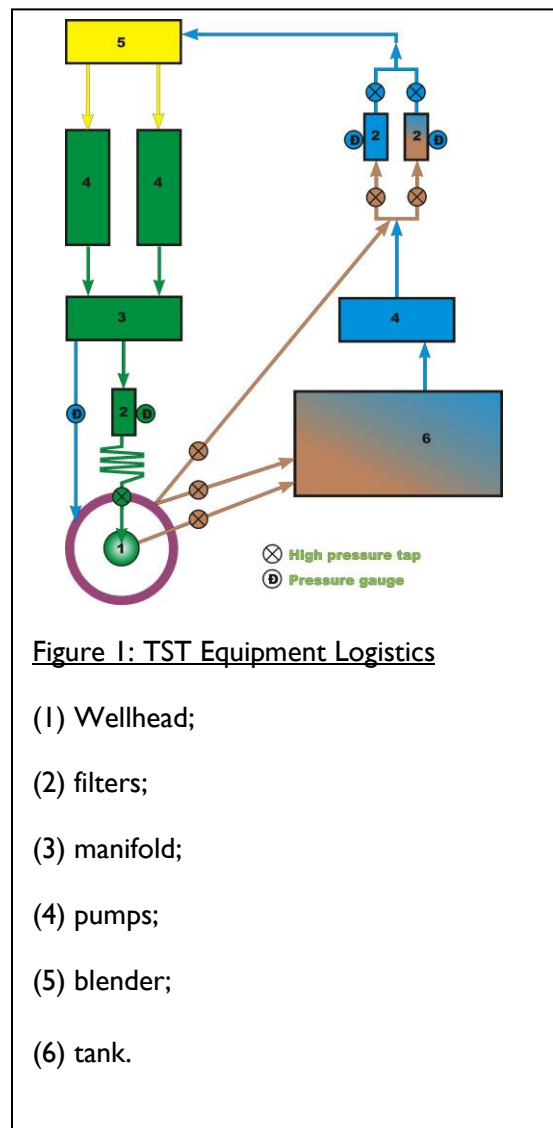


Surface Logistics for TST Equipment

The following surface equipment is required on site for a TST workover:

- 1 Rig or Coiled Tubing Unit (2" minimum)
- If rig used, N-80 2-3/8" prod'n tubing to depth
- If CT used, hydraulic power pack, injector head
- 1 pit w/ shaker or 25 yd. vac box w/ filter
- 2 high-pressure triplex pumps
(2200HP, min capacity 5000 psi, 5 bbls/min)
- 1 blender
- 1 hopper(s) or silo(s) for offshore sand storage
- Standard BOP equipment
- Supervision Centre (aka frac van)
- 100' high-pressure iron tubing plus connections
- Manifold for reverse flow optional
- 2 low-pressure pumps (4 bbls/min)
- 100' of low-pressure tubing plus connections
- Standard 21,000 gallon or 500 bbl water tank
- Working fluid (i.e. lease water)
- Abrasive sand (1 ton (2000 lbs) /1 foot section)



Surface Logistics for TST Equipment

Off-shore equipment dimensions (l x w x h): Note all equipment must be mounted on skids for shipping by crane. Note dimensions do not exceed 850 sq. ft. and equipment could fit on a platform 35' x 25'.

2" Coiled Tubing Module:	8' x 6' x 6'
CT Injector Head (stacks on top of BOP):	4' x 4' x 8'
CT Hydraulic Power Pack:	4' x 6' x 6'
BOP (stacks on top of wellhead):	3' x 3' x 5'
2 Pumps, remotely operated (each):	12' x 8' x 7'
Blender, 1-hole hopper, 1 man on blender:	5' x 6' x 8'
Silo (capacity 100,000 lbs.), 1 man on chute:	6' x 6' x 18'
Vac box, 25 yard:	30' x 7' x 7'
Standard 500 bbl tank:	33' x 7' x 9'
Filtration Unit:	4' x 4' x 5'
Supervisor Centre:	10' x 10' x 8'
Small pumps (3):	2' x 4' x 3'
Hard iron and soft iron (shipped in baskets)	8' x 3' x 4'

Figure 2: Possible Configuration

