Qualification Procedures for TCP HPHT Wells
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Halliburton Worldwide Presence in HPHT Environments

What Constitutes a HPHT Job?
There are several definitions of what constitutes a HP/HT job. On most TCP jobs this refers more to temperature rather than pressure. For our purposes, we will go by the type of explosives used. If, based on the time/temperature chart, we need to use HNS explosives, we will categorize it as a HP/HT well.

Steps to be followed to setup HPHT Services

- Verify that the choice of charge is available in HNS
- Verify the maximum pressure rating on all explosive hardware (guns, firing heads, etc)
- Verify the maximum temperature, pressure and wellbore fluids
- Refer to the O-Ring selection charts for proper selection
- Verify that the appropriate elastomers are available for the selected guns and other tools
- Use LPS-A-151 degreaser and remove all oily or greasy residue from all internal surfaces of the gun assembly. This includes guns charge holder tubes, end alignment fixtures, charges clips and tandems
- All plastic components should be eliminated, this would primarily be the substitution of standard PAI's in favor of Aluminum Alignment Inserts
- Refer to the appropriate gun manuals for additional procedures
- We will normally not recommend additional systems testing until the maximum temperature on a job exceeds 425 degrees F and the time exceeds 200 hours

TCP O-Ring, Fluid Compatibility, Temperature and Pressure Recommendation Chart

30,000psi TCP Hardware for HP Jobs

Time-Delay Firer (TDF)

7 Inch, Ultra-High Pressure Perforating Gun