

Mineral Resources, Inc Cement & Centralizer Program

DT-Habitat #1-5-6, API#: 05-123-38295
DT-Habitat #2-5-6, API#: 05-123-38293
DT-Habitat #3-5-6, API#: 05-123-38294
DT-Habitat #4-5-6, API#: 05-123-38292
DT-Habitat #5-5-6, API#: 05-123-38291
DT-Forbes #1-5-6, API#: 05-123-38299
DT-Forbes #2-5-6, API#: 05-123-38296
DT-Forbes #3-5-6, API#: 05-123-38298
DT-Forbes #4-5-6, API#: 05-123-38300
DT-Forbes #5-5-6, API#: 05-123-38297

Surface - 9 5/8" 36# J55 LTC - bow spring joints 1,2,3 and every other joint thereafter. Cement - 14.5ppg 1.41cfsk cement to surface per calcs, plus 35% excess. 20 bbls fresh water and 20 bbls mud flush spacers.

Intermediate - 7" 26# P110 BTC - solid body spirals every joint from bottom of curve to top of curve - 40-45 total; then bow springs next three joints, then every third joint to surface casing, at which every other joint to 750' from surface. Cement - 20 bbl water spacer, 40 bbl mud flush spacer, lead cement of 12.7ppg, 1.86 yield, to cover from 150' from top of curve (TOC) to 800' from surface; tail cement of 14.6 ppg, 1.40 yield, from TD to 150' above TOC with 20% excess per hole calcs.