

Table S1. Viscosity and hanging properties of fracturing fluid with different amount
of guar gum

Dosage(wt%)	0.1	0.2	0.3	0.4	0.5	0.6
Properties						
Visosity(mPa·s)	0.9	4.5	52.7	179.1	325.3	419.6
Hanging	×	×	×	√	√	√
Liquid surface bulge	×	×	Slightly	√	√	√

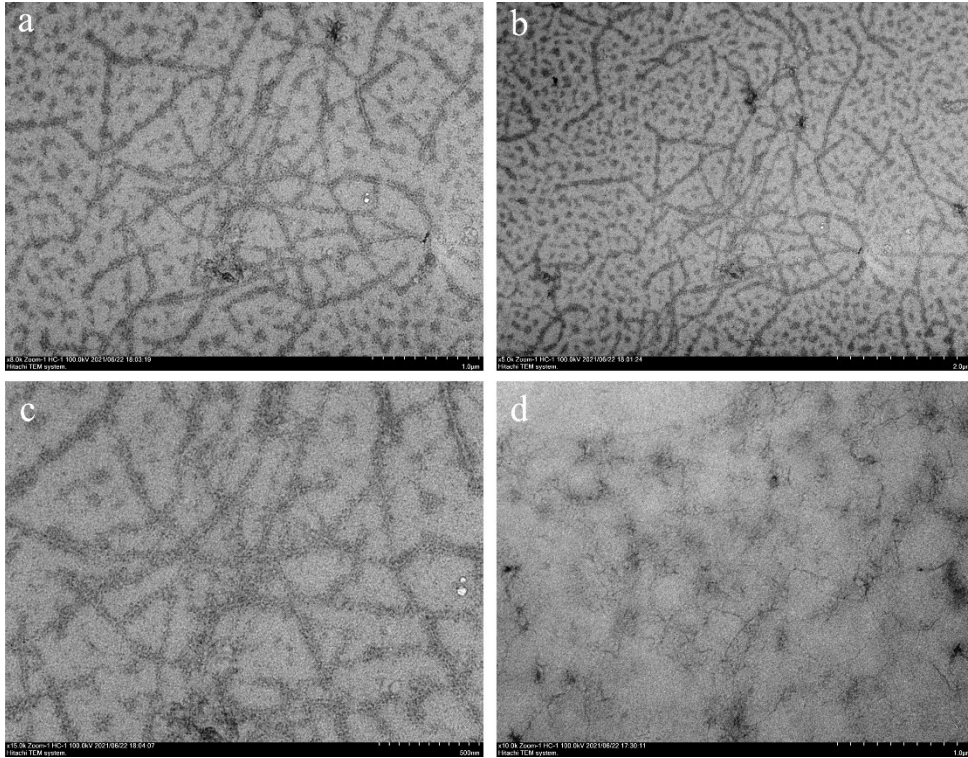


Fig S1. Low-voltage TEM of CDG fracturing fluid