

Interval Summary

12.25" x 14.75 Hole 11.75" Liner

	Programmed	Actual
Interval Depth	13,201' to 21,625'	13,155' to 21,645'
Fluid Weight (ppg)	11.6 - 12.6	11.45 - 12.45
Plastic Viscosity (cp)	20 - 30	27 - 30
Yield Point (lbf/100ft ²)	14 - 22	18 - 23
6 RPM Reading	10 - 14	13 - 15
Synthetic to Water Ratio	70:30 - 75:25	70:30 - 73:27
HTHP Fluid Loss @ 220° F (ml/30 min)	< 5.0	3.6 - 4.0
Electrical Stability (volts)	>400	567 - 656
Calcium Chloride (ppm in water phase)	>250K	238K - 275K

Interval Summary

10.625" Hole 7.625" Liner

	Programmed	Actual
Interval Depth	21,625' to 22,421'	21,630' to 22,458'
Fluid Weight (ppg)	12.6 - 13.0	12.4 - 12.85
Plastic Viscosity (cp)	20 - 30	31 - 38
Yield Point (lbf/100ft ²)	14 - 22	18 - 25
6 RPM Reading	10 - 14	12 - 15
Synthetic to Water Ratio	70:30 - 75:25	71:29 73:27
HTHP Fluid Loss @ 220° F (ml/30 min)	< 5.0	1.4 - 1.7
Electrical Stability (volts)	>400	561 - 677
Calcium Chloride (ppm in water phase)	>250K	238K - 251K



Matthew Kratzer is global accounts manager for Newpark Fluids Systems, based in Louisiana. He has worked for the company for more than 12 years and during that time has served as technical manager and drilling fluid engineer. Kratzer is a graduate of the University of Louisiana at Lafayette and holds a BS degree in chemistry and biology. He may be contacted at mkratzer@newpark.com.