

Frac Pad & Flush Composition

2% KCL water
40# guar gum per 1000 gallons KCL water
8 hr external breaker @ 110°F
Bactericide
Non-Emulsifier
25# Adomite Aqua per 1000 gallons KCL water

Pad and flush volume: 237 bbls.

Frac Acid Composition

28% HCl acid
Non-Emulsifier
Iron-sequestering agent
Inhibitor (24 hrs @ 110°F)
Friction reducer

Acid volume: 128 bbls.

10. Swab back load (+453 bbls).
11. Release treating packer @ +5800'.
12. Release retrievable bridge plug @ +6450'.
13. Set retrievable plug @ +6246'.
 - A. Test the bridge plug to 1500 psi via the packer.
 - B. Dump 1 sx sand on top of bridge plug.
14. POOH w/3-1/2" workstring, S.N., 7" treating packer, & on-off tool.
15. Perforate the upper Tubb interval as follows:
 - A. GIH w/decentralized, select-fire perforating gun (1 JSPF, 0° phasing, 0.38"-0.42" EHD, 9.10"-11.10" Berea TTP), collar locator and wireline.
 - B. Perforate the upper Tubb interval @ 6171', 80', 6201', 06', 24', and 30'.
(Total: 6 perforations).NOTE: Collars @ 6162', 6203'+, 6246'+
 - C. POOH w/wireline, collar locator and perforating gun.
16. GIH w/on-off tool, 7" treating packer, S.N., & 3-1/2" workstring.
 - A. Set the packer @ +5800'.
17. Breakdown the upper Tubb perforations as follows:

Maximum Surface Treating Pressure: See Pressure-Rate Chart #3

NOTE: Monitor backside pressure during job.
 - A. Pump 18 bbls (756 gals) 15% HCl-NE-FE acid inhibited for 24 hrs @ 110°F @ 6 BPM dropping 2 ball sealers every 3 bbls pumped. (Total: 12 ball sealers). Attempt to achieve ball out.
 - B. Flush w/60 bbls (2520 gals) 2% KCl TFW w/2 gals Adomall.