

18. Release packer @ +5800' and run past perforations to knock off ball sealers.
  - A. Reset packer @ +5800'.
19. Acid frac the upper Tubb interval as follows:  
Optimum Pump Rate: 15 BPM  
Estimated Surface Treating Pressure: 4700 psi  
Maximum Surface Treating Pressure: See Pressure-Rate Chart #4  
NOTE: Monitor backside pressure during job.
  - A. Load backside w/2% KCL TFW w/1 gal Adomall/1000 gals & pressure up to 500 psi.
  - B. Pump 104 bbls (4,368 gals) 40# gelled water pad.
  - C. Pump 93 bbls (3,906 gals) 28% HCl-NE-FE acid.
  - D. Pump 67 bbls (2,814 gals) 40# gelled water pad.
  - E. Record ISIP and tubing pressure every 5 minutes for 15 minutes.
  - F. SION.

Frac Pad and Flush Composition (Refer to Frac on Lower Tubb)

Frac Acid Composition (Refer to Frac on Lower Tubb)

20. Swab back load (+342 bbls).
21. Release the treating packer @ +5800'.
  - A. Release retrievable bridge plug @ +6246'.
  - B. POOH & lay down 3-1/2" workstring, S.N., 7" treating packer, on-off tool, & 7" retrievable bridge plug.
22. GIH w/SN, 8 jts 2-7/8" tail pipe, 7" fullbore packer, & 2-7/8" tubing.
  - A. Land S.N. @ +6340'.
  - B. Set packer @ +6100'.
23. GIH w/pump & rods.
  - A. Hang well on & place on test through portable test separator until a stabilized production rate is achieved.
  - B. Report test results to the engineering department.
24. Move in and rig up.
  - A. Kill well w/9# brine w/1 gal Adomall/1000 gals, if necessary.
25. POOH w/rods & pump.
  - A. Install BOP.
26. Run tandem 3000 psi bottom hole pressure bombs with 72 hour clocks down the tubing to +6100'.
27. Shut the well in for 3 days and record the bottom hole pressure.
28. GIH w/pump & rods.
  - A. Hang well on and place on production through test separator.
  - B. Produce well until DHC is approved.

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