

TUBB

1. Move in and rig up.
 - A. Kill well with 9 lb brine w/1 gal Adomall/1000 gals, if necessary.
2. POOH w/rods & pump.
 - A. Install BOP.
3. Tag retrievable bridge plug @ +6500' w/2-7/8" tubing.
4. POOH w/2-7/8" tubing, S.N., & SOPMA.
5. Perforate the lower Tubb formation 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 lower Tubb formation @ 6254', 66', 72', 78', 84', 6304', 10', 16', 22', 28'. (Total: 10 perforations).
Casing Collars @ 6162', 6203', 6246', 6289', 6330', 6372', 6412'.
 - C. POOH w/wireline, collar locator and perforating gun.
6. Pick up & GIH w/7" cup type retrievable bridge plug, on-off tool, 7" treating pkr, S.N., & 3-1/2" workstring.
 - A. Pressure test the workstring to 6000 psi above the slips.
 - B. Set the bridge plug @ +6450'.
 - C. Test the bridge plug to 1500 psi via the packer using 2% KCl TFW w/1 gal Adomall/1000 gallons.
 - D. Dump 1 sx sand on top of bridge plug.
 - E. Set packer @ +5800'.
7. Break down the lower Tubb perforations as follows:

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

NOTE: Monitor backside pressure during job.

 - A. Pump 5 bbls 15% HCl-NE-FE acid to clean up tubing.
 - B. Pump 20 bbls 15% HCl-NE-FE acid inhibited for 24 hrs @ 110°F @ 10 BPM dropping 2 ball sealers (S.G. - 1.3) every 2 bbls pumped (Total: 20 ball sealers). Attempt to achieve ball out.
 - C. Flush w/63 bbls (2646 gals) 2% KCl TFW w/2 gals Adomall.
8. Release packer @ +5800' & run past perforations to knock off ball sealers.
 - A. Reset packer @ +5800'.
9. Acid frac the lower Tubb formation as follows:

Optimum pump rate: 21 BPM

Estimated Surface Treating Pressure 4500 psi

Maximum Surface Treating Pressure: See Pressure-Rate Chart #4

NOTE: Monitor backside pressure during job.

 - A. Pump 144 bbls (6048 gals) 40# gelled water pad.
 - B. Pump 128 bbls (5376 gals) 28% HCl-NE-FE acid.
 - C. Pump 93 bbls (3906 gals) 40# gelled water flush.
 - D. Record ISIP & tbg pressure every 5 minutes for 15 minutes.
 - E. SION.

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MAR 26 1984
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