

15. Flush to bottom perforation w/17 bbls. 2% KCL treated fresh water w/1 gal./1000 gals. Adomall.
16. Record ISIP and pressure @ 5 minute intervals for 15 minutes. Shut well in for a total of 30 minutes.
17. Swab back acid load, flush and formation fluids. Report results to Division Office.

NOTE: Swabbing may require  $\pm 2$  days. Do formation water analysis and obtain water resistivity.

- A. If zone is productive, proceed to step 18.
- B. If zone is non-productive, revised procedure will follow.

18. Release treating packer @ +3650'. Circulate sand off, latch onto and release bridge plug @ +3785'. Set bridge plug @ +3685'. Spot 5' sand on top of bridge plug and pressure test to 1000 psi.
19. Spot 84 gals. (2 bbls.) 15% HCL-NE-FE from 3668'-3584'. (Inhibit acid for 24 hrs. @ 95°F) POOH w/2-3/8" workstring, seating nipple, 5-1/2", 15.5# tension treating packer and on-off tool.
20. Rig up perforating service. GIH w/4" hollow carrier, select-fire casing gun (0° phase, 1 JSPF, EHD=0.40), casing collar locator (CCL) and wireline. Perforate the Seven Rivers-Queen formation @ 3637', 3639', 3641', 3643', 3645', 3647', 3662', 3664', 3666', 3668' (total: 10 shots).

Casing collars located @ 3544', 3582'+, 3618' & 3653'+

Perforate from top to bottom of interval.

Perforating depths are based upon GR-CCL log.

21. POOH w/wireline, CCL and 4" perforating gun.
22. GIH w/on-off tool, 5-1/2", 15.5# tension treating packer, seating nipple, and 2-3/8" workstring. Set treating packer @ +3575'.
23. Rig up acidizing service. Breakdown and acidize the Seven Rivers-Queen perforations from 3637' to 3668' w/1260 gals. (30 bbls.) 15% HCL-NE-FE @ 1/2 to 1 BPM down 2-3/8" workstring. (Inhibit acid for 24 hrs. @ 95°F)

Maximum treating pressure: 1000 psi.

24. Flush to bottom perf w/17 bbls. 2% KCL treated fresh water w/1 gal./1000 gals. Adomall.
25. Record ISIP and pressure @ 5 minute intervals for 15 minutes. Shut well in for a total of 30 minutes.
26. Swab back acid load, flush and formation fluids. Report results to Division Office.

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