

d. Pump 2000 gallons acid.  
e. Displace with 71 bbls lease Devonian produced water.  
Max. Treating Rate = 5 BPM                      Max. Treating Pressure = 3500 psi

23. Swab back load (176 bbls) plus 4 hrs. Call Carole Stevens (x1310) with swab results.
24. Release packer and RBP. Reset RBP at 12200'. Test to 1000 psi. Set packer at 12095'.
25. ACID ENGINEERING to acidize Devonian perms (12110'-12150') with 2000 gallons 15% HCl Pentol acid at 4 BPM. Test all lines to 4000 psi, Maximum treating pressure not to exceed 3500 psi. Displace with 71 bbls. Devonian produced water.
26. Swab back load (119 bbls) plus 4 hrs. Call Carole Stevens (x1310) with swab results.
27. Release packer and RBP. Reset RBP at 12095'. Test to 1000 psi. Set packer at 11960'.
28. ACID ENGINEERING to acidize Devonian perms (12010'-12080') with 2000 gallons 15% HCL Pentol acid at 4 BPM. Test all lines to 4000 psi, maximum treating pressure not to exceed 3500 psi. Displace with 70 bbls lease Devonian produced water.
29. Swab back load (118 bbl) plus 4 hrs. Call Carole Stevens (x1310) with swab results.
30. Release packer and RBP. Reset RBP at 11960'. Test to 1000 psi. Set packer at 11645'.
31. ACID ENGINEERING to acidize Devonian perms (11665'-11903') with 4000 gallons 15% HCl Pentol acid and 600 gallons 10# brine carrying 600 lbs rock salt as follows:
  - a. Pressure test all lines to 4000 psi.
  - b. Pump 1000 gallons acid at 4 BPM.
  - c. Pump 200 gallons brine with 200 lbs rock salt.
  - d. Repeat steps b and c twice.
  - e. Pump 1000 gallons acid.
  - f. Displace with 68 bbls. lease Devonian produced water.

Max. Treating Rate = 5 BPM

Max. Treating Pressure = 3500 psi

32. Swab load (178 bbls) plus 4 hrs. Call Carole Stevens (x1310) with swab results.
33. Release packer and RBP. Reset RBP at 11645'. Test to 1000 psi. Set packer at 11580'.
34. ACID ENGINEERING to acidize Devonian perms (11610'-11626') with 1000 gallons 15% HCl Pentol acid at 4 BPM. Test all lines to 4000 psi. Maximum treating pressure not to exceed 3500 psi. Displace with 68 bbls lease Devonian produced water.

35. Swab load (92 bbl) plus 4 hrs. Call Carole Stevens (x1310) with swab results.
36. Release packer and RBP. Reset RBP at 11550'. Test to 1000 psi. Set packer at 11450'.
37. ACID ENGINEERING to acidize Devonian perms (11503'-11550') with 2500 gallons 15% HCl Pentol acid at 4 BPM. Test all lines to 4000 psi, maximum treating pressure not to exceed 3500 psi. Displace with 67 bbls. lease Devonian produced water.
38. Swab load (127 bbls) plus 4 hrs. Call Carole Stevens (x1310) with swab results.
39. Additional steps to procedure to follow based on above swab results. Contact Roger Becker and/or Carole Stevens. Preparations will be made to get electricity to location for probable sub pump installation.

MAY 10 1991