neutron/sonic, compute density
porosity and sonic porosity

- plot histograms, crossplots, and log plots

4. Compute Formation Water Resistivity (RW) Using the RWA,
   RWSP, and Resistivity Ratio Methods.

    - compute RW using the RWSP, RWA and
      resistivity ratio (RWRAT) methods
      corrected to 75 degrees fahrenheit
      (see Note 2)

    - plot RW log

    - pick values and build RWF75 curve

5. Compute Water Saturation (SW) Using Archie, Modified Simandoux,
   and Dual Water Methods.

    - compute SW using the Archie, Modified Simandoux
      and Dual Water methods using the parameters
      specified in the program set-up
      (see Note 3)

6. Generate Summary Reports, and Plots.

    - generate Pay Summary report

    - generate Data Listing report

    - generate Summary Plots

7. Generate Reservoir Quality Plot

    - compute net thickness,
      average total porosity,
      and average effective porosity,
      for all potential reservoir intervals

    - generate Reservoir Quality Plot and post
      computed averages opposite each interval

Note 1: Lithology Discrimination
The lithology discrimination method used in the LOGEVAL program uses a
cross correlation technique. A second order best-fit line is computed for
the density and sonic logs. Minimum and maximum boundaries are then posi-
tioned on either side of the best-fit line (see DNMINCUT, DNMAXCUT, ACMIN-
CUT and ACMAXCUT on logplot).