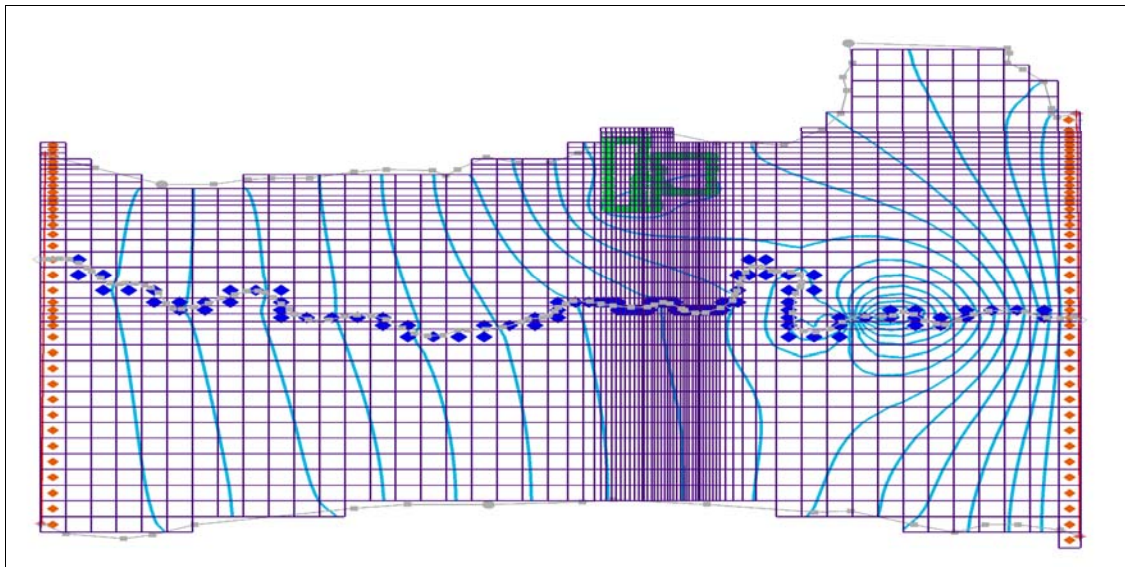


COMPUTER MODELING

Much of Martin and Wood's engineering and geological applications rely on custom computer programming, frequently using FORTRAN code. These applications include specific programs to:

1. calculate the irrigation consumptive use requirement for a crop of interest using the modified Blaney-Criddle method;
2. calculate the historical irrigation consumptive use of crops irrigated by a given water supply, upon a given area, with a given soil moisture holding capacity, and with given farm losses;
3. calculate stream depletions from a direct flow irrigation right using the Glover method for lagging deep percolation losses from irrigation of a farm;
4. allocate total daily diversions at a given point of diversion into daily diversions under numerous individual water rights, also accounting for out-of-priority diversions based on recorded river call data; and
5. determine the "safe yield" of a reservoir with inflows from numerous types of water rights.

Martin and Wood also utilizes state-of-the-art commercial or public domain software including: MODFLOW, a finite difference ground water modeling program; DesignCAD; IDSCU; GIS; GMS; Surfer; and State View.



MODFLOW graphical output

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