



Figure 2. R10 Top of HU6 Surface - DOE Property  
 Interpolation: Ordinary Kriging  
 Grid Spacing: 5'; Surface Contour Interval 5'  
 Smoothing: Focal Statistics (ESRI)

Notes:

1. Top of HU6 = shallowest upper extent of McNairy Formation fines or Porters Creek Clay (fines) at a given location.
2. Surface colors classified by 5' elevation; Blue = lowest elevation & Orange-red = highest elevation.
3. Red circles on map correspond with pdf comments on *Figure 1. PGDP 'Base of Continental Deposits'* from GW Model PT Meeting.
4. Labels for data locations include boring ID + top of HU6 elevation amsl. All data points not labeled because of overlap exclusion rules.
5. Surface generation utilized ordinary Kriging (SURFER) on 5' grid across data domain encompassing @ 22 sq. mi. surrounding PGDP in KY.
6. Above figure extracted from domain and illustrates top of HU6 associated with DOE property.
7. Upper PCC terrace is present in lower left of figure (280/85 - 390+ ft amsl). Lower PCC terrace present in lower right of figure (280/85 - 325+ ft amsl).
8. Multiple thalwegs define ancestral river course(s). (thalweg = course of paleo-river defined by deepest pools)
  - a. Two particular course trends of interest are: 1) E-W across foot of PCC terrace; and 2) E-W across northern extent of industrial site
9. Area bounding ancient river course generally defined by 285' contour from west Paducah to Dam 52 to TVA to Joppa, Illinois.