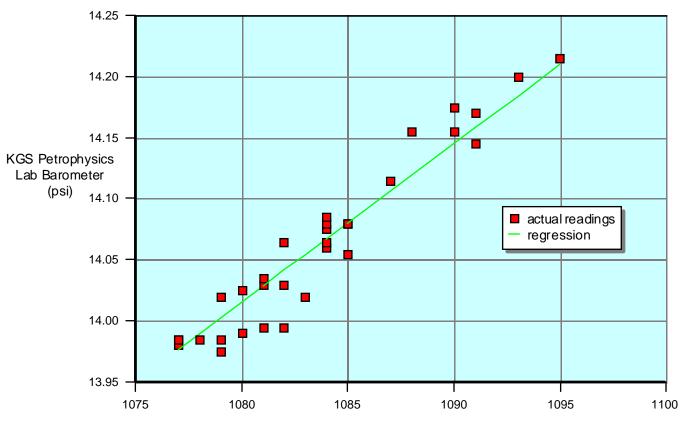
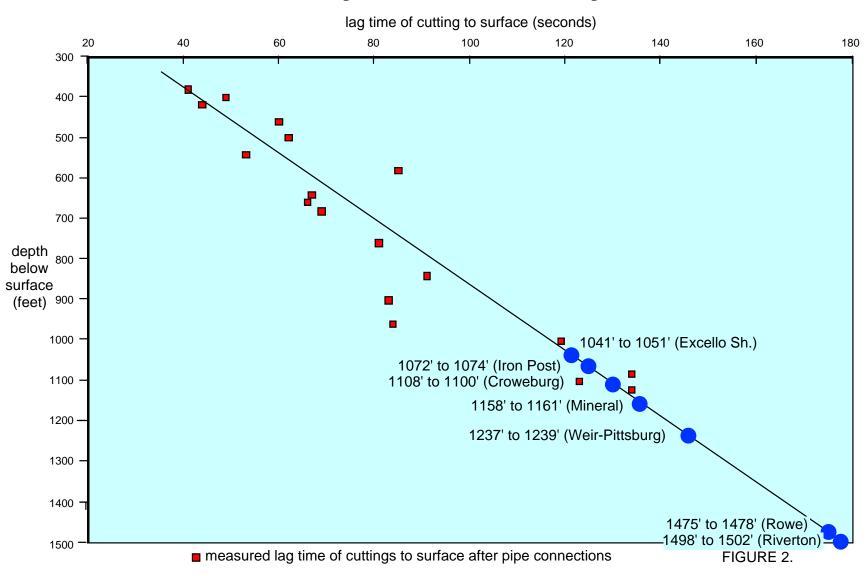
Correlation of Field Barometer to KGS Petrophysics Lab Barometer



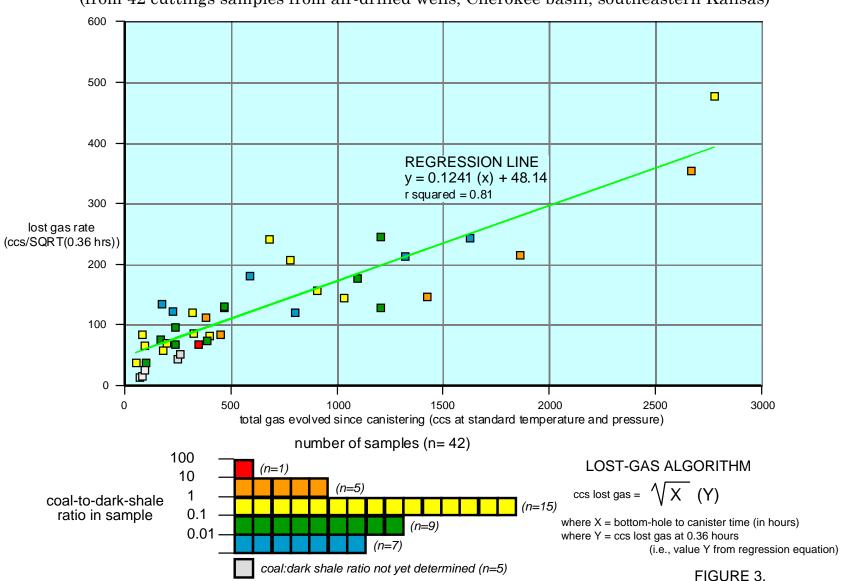
Oregon Scientific Field Barometer (mbars normalized to sea level)

FIGURE 1.

Dart Cherokee Basin #A3-36 Fields, NW NE 36-T.34S.-R.14E., Montgomery County, KS (based on lag times from Dart Cherokee Basin #CH-1 Holder; sec. 1-T.30S.-R.14E., Wilson County, KS lag-time to surface for well cuttings

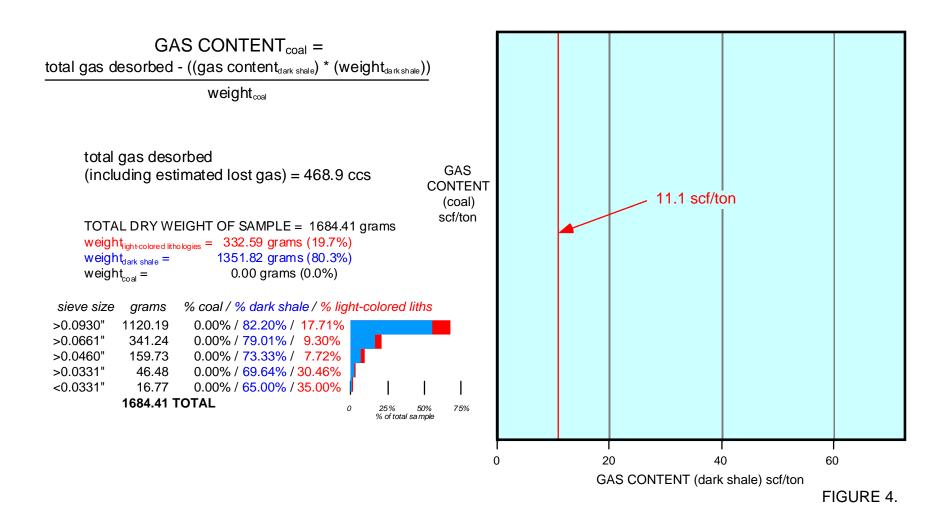


RELATIONSHIP of TOTAL GAS EVOLVED FROM a CUTTINGS SAMPLE to RATE of LOST-GAS (from 42 cuttings samples from air-drilled wells, Cherokee basin, southeastern Kansas)



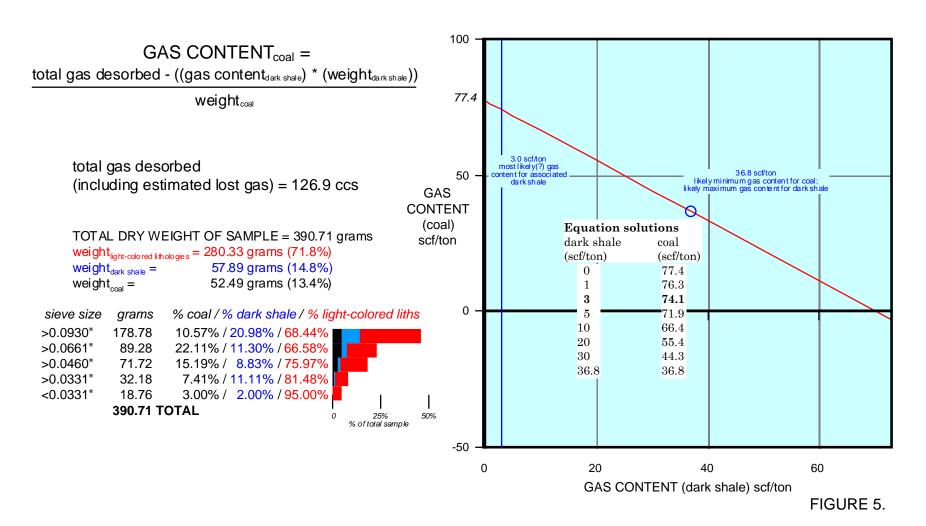
Desorption Characteristics of Cuttings Samples Dart Cherokee Basin #A3-36 Fields, 36-T.34S.-R.14E., Montgomery County, KS

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of Excello Shale from 1041' to 1051'



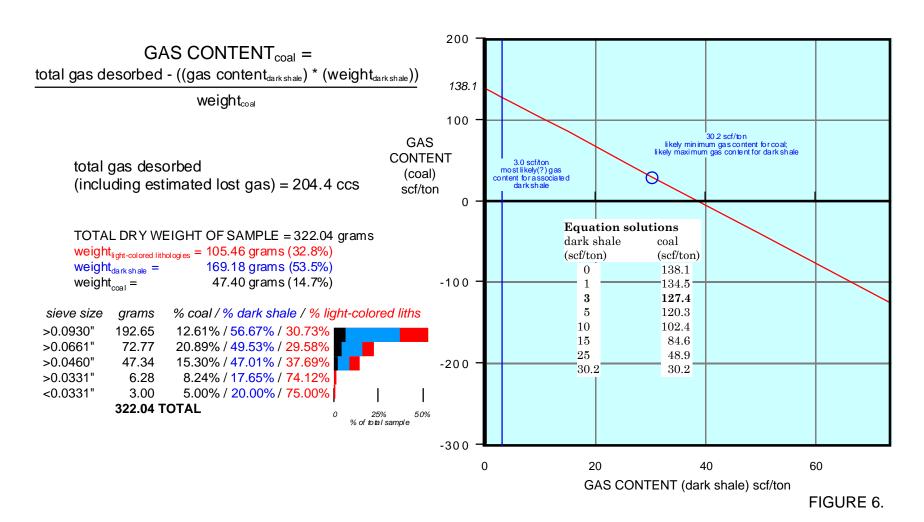
Dart Cherokee Basin #A3-36 Fields, 36-T.34S.-R.14E., Montgomery County, KS

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Iron Post coal from 1072' to 1074'



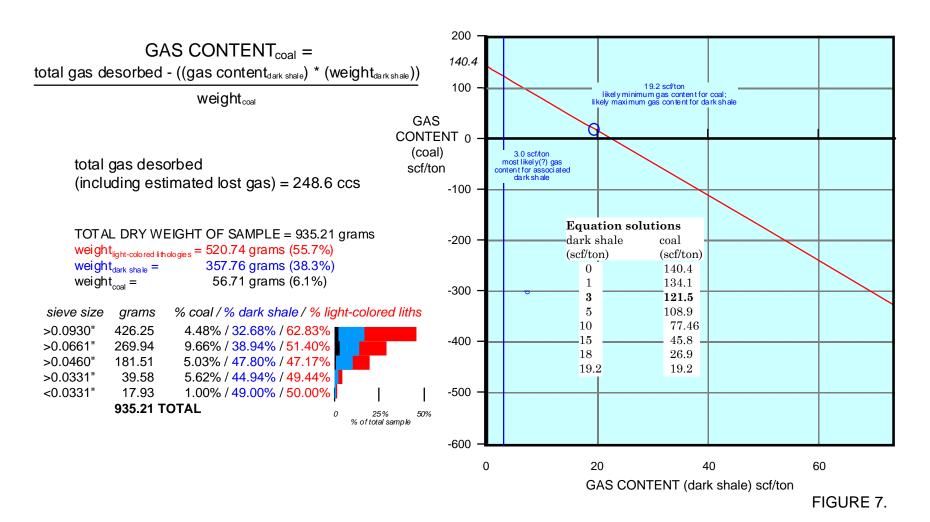
Dart Cherokee Basin #A3-36 Fields, 36-T.34S.-R.14E., Montgomery County, KS

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Croweburg coal from 1108' to 1110'



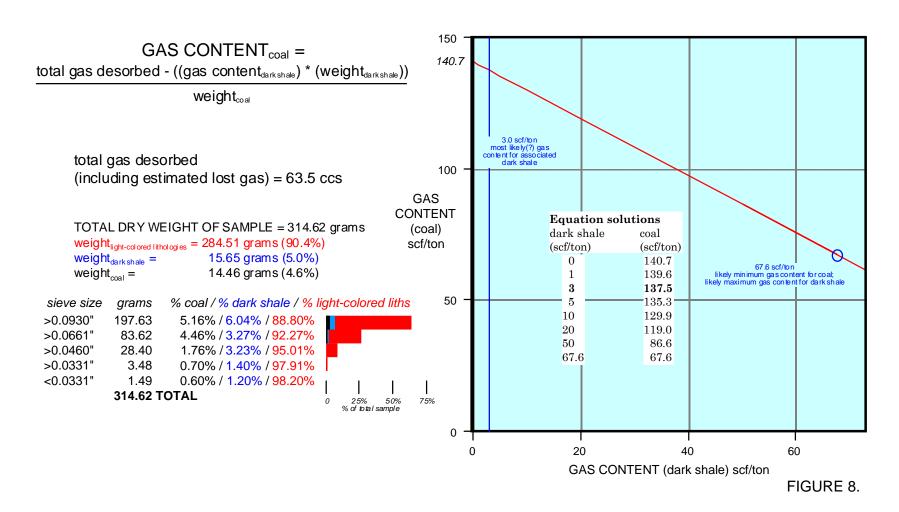
Dart Cherokee Basin #A3-36 Fields, 36-T.34S.-R.14E., Montgomery County, KS

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Mineral coal from 1158' to 1161'



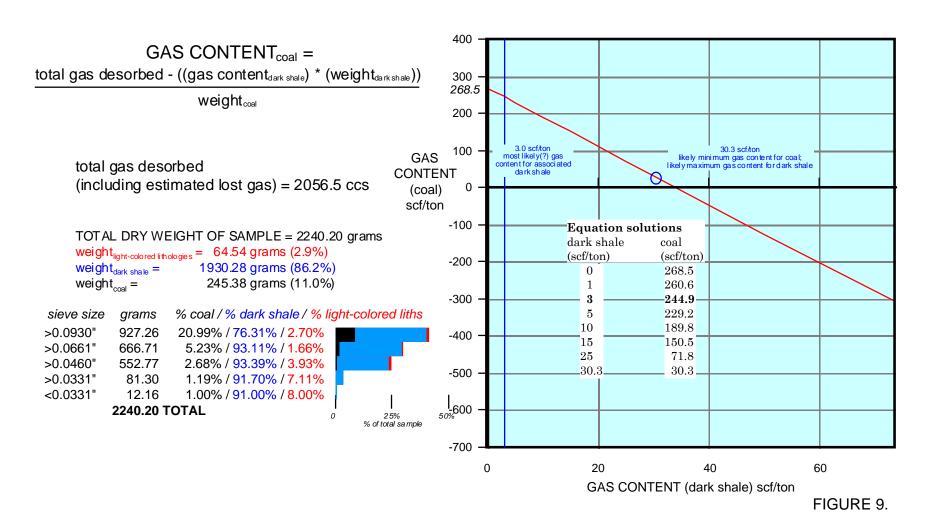
Dart Cherokee Basin #A3-36 Fields, 36-T.34S.-R.14E., Montgomery County, KS

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Weir-Pittsburg coal from 1237' to 1239'



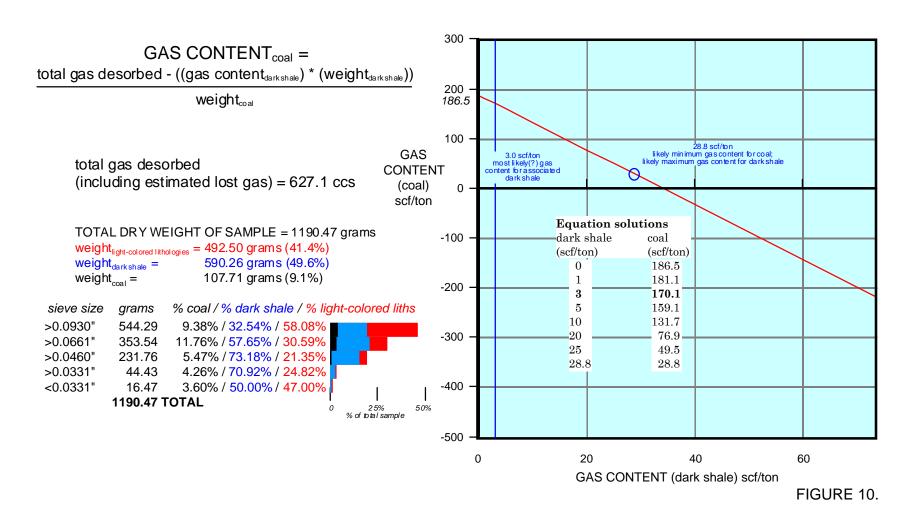
Dart Cherokee Basin #A3-36 Fields, NW NE 36-T.34S.-R.14E., Montgomery County, KS

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Rowe coal from 1475' to 1478'



Dart Cherokee Basin #A3-36 Fields, 36-T.34S.-R.14E., Montgomery County, KS

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Riverton coal from 1498' to 1502'



surface

Desorption Characteristics of Cuttings Samples

Dart Cherokee Basin #A3-36 Fields, NW NE 36-T.34S.-R.14E., Montgomery County, KS

200'

100'

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for all samples

