American Chemical Society

DIVISION OF GEOCHEMISTRY, INC

199th ACS National Meeting

Boston, Massachusetts April 22-27, 1990

P. Hatcher, Chairman W. H. Orem, Secretary

VARIABILITY OF OIL GENERATION FROM COALS OF THE BLACKHAWK FORMATION AS P.O. Box 3385, Tulsa, Oklahoma DETERMINED BY HYDROUS PYROLYSIS. 74102. M. D. Lewan, Amoco Production Company,

had gas chromatograms with high-molecular weight normal apparent relationship was the increase in yield with the content and maceral types heated under hydrous conditions at 365°C for 72 hours and generated oils were meters of one another in the King Coal Mine, Hiawatha, content coal basis. collected at temperature by a hot-transfer procedure. of the Blackhawk Formation (Late Cretaceous) was determined by hydrous pyrolysis All three seams are at the same level of thermal maturity and occur within 30 the the 13 coal samples ranged from 5.5 to The variability of oil generation from lithotypes within of the coal. lowest yield was from the one This variation showed no relationship with vitrains or Except for the durain sample, also showed no relationship to sample of durain. 16.1 weight Utah. Yields of alkanes of the percent on a mineral-free increase in hydrogen Variations in resinite the yields. The most Coal samples were three generated and had pour generatéd oil clarains,