

Lignite on Bacon Creek. At the J. C. Gamel ranch in Township 133, Range 104, Section 20, a very Chick seam outcrops and is mined by stripping for use in the neighborhood. The elevation of this lignite is' considerable, only seventy-five feet less

than the average level of the surrounding country. The thickness of the seam, as determined by measurements made at this point, is twenty-four feet. As now exposed It does not appear to be of the best quality, though surface weathering may be offered in part or wholly in explanation of its apparent inferiority. An analysis of dried samples taken from the surface shows :

Volatile matter	37.59
Fixed carbon	55.90
Ash	6.51

This seam is illustrated in plate XIV. Other seams are said to be exposed in the banks between this point and the Little Missouri river.