<u>Latitude: 39.0389 Longitude: -101.9329 Elevation (GL): 3745.0 Depth: 861.0</u> Depth Primary Rock Lithology Stratigraphic Units Ġ Remarks Lifhology Fra
System
Suhsystem
Series
Stage
Gmup Fossils Color Rock Column Members Formations Shale Marly, marl 50 | Elias (1931 p. 123-124)
consists of about 100 feet of
light-gray shale that being
transitional between the clay
shale of the Pierre and the
sandy beds of the overlying Fox
Hills Sandstone is somewhat
50 | The lower part of the
member contains gray
fossiliferous silty limestone
concretions that weather
yellowish gray and the upper
part of the member contains
thin layers of limonite
500 | - to 600-foot-thick unit
of gray and black shale that is
only partly exposed in Wallace
County and poorly exposed
elsewhere in western Kansas. Limestone Beecher Island Shale Pierre Shale Secondary Rock Lithology 00-00 00-00 00-00 Clayey, Argillaceous, clay -: Silty, Silt S- S 100 Sandy, sand Marly, marl Limonitic, limonite Ironstone fossiliferous 200 Calcareous Fossils Fresh Water (ঙ) Few Brackish Water 🔥 Many 300 Marine 🔏 Broken & - Macrofossils Sedimentary Structure Symbols 400 **Deformational Structures** Flame structure °0 Concretions, nodules, geodes in general Calcareous concretions Ferruginous concretions or nodules 500 600 00.00 20 | gray clayey shale the upper unit contains Salt Grass Shale 20 | gray clayey shale The middle unit contains many 20 | gray clayey shale the lowest of which contains large lowest of which contains large

200 | -foot- thick sequence of
dark-gray and black flaky shale
containing ironstone
concretions that is exposed
along Lake Creek in
northwestern Wallace County. In
addition to numerous small
ironstone concretions the Lake
Creek Hember contains many thin
layers of concretionary
limonite associated with small
yellowish-white or light-gray
limestone or marl concretions.
The soft limy concretions are
less than 0.1 foot thick and
are unlike the large hard
limestone concretions of the
contiguous members. The upper
part of the member has yielded
Baculites reesidei at some
localities and Baculites
jenseni Cobban at others. Lower
and middle parts of the member
contain numerous Baculites
reesidei Lake Creek Shale 700 800

Upper Pierre Shale T: 12S R: 42W S: 1