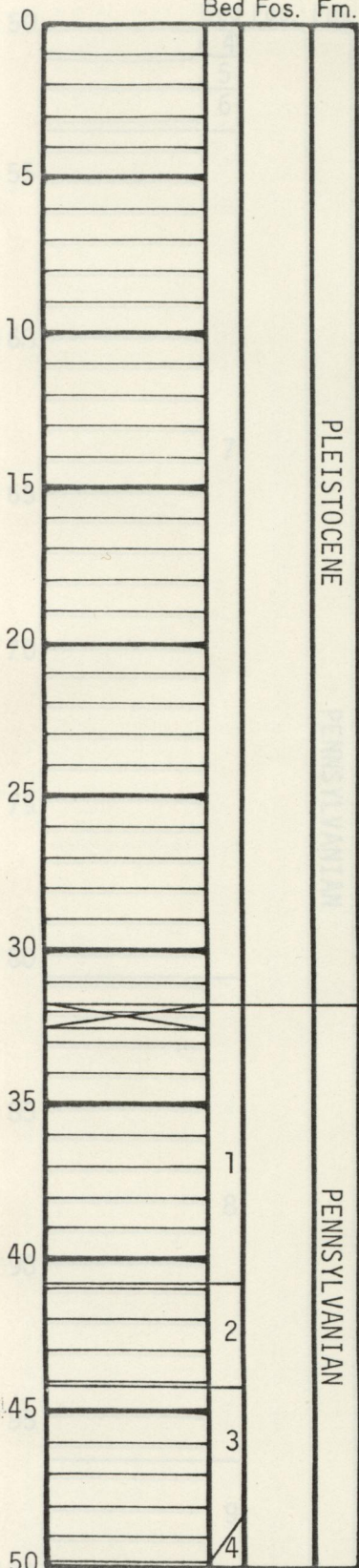


W-27385

County Polk NW, NE, NW, SE Sec. 2 T. 78N R. 24WLocation 20.5' west of east wall; 6.3' north of north wall.Altitude 810'Measured by Paul Van Dorpe/John W. Swade Date 10/30-11/5/79Remarks 0' - 50'

Bed Fos. Fm.



Bed

Description

PLEISTOCENE

0'-4.5' Surficial - dark brown soil.

4.5'-5' Sand.

5'-9' Clay - medium brown, sandy.

9'-32.5' Sand - light brown, fine to coarse with gravel at base.

32.5'-33.5' Clay - orange, silty.

PENNSYLVANIAN

33.5'-35' Reamed and losses; light grey shale.

1) 35'-41'8" Shale - medium to light medium grey, slightly silty, with disturbed bedding and minor pyritic root traces. Lower contact sharp and irregular.

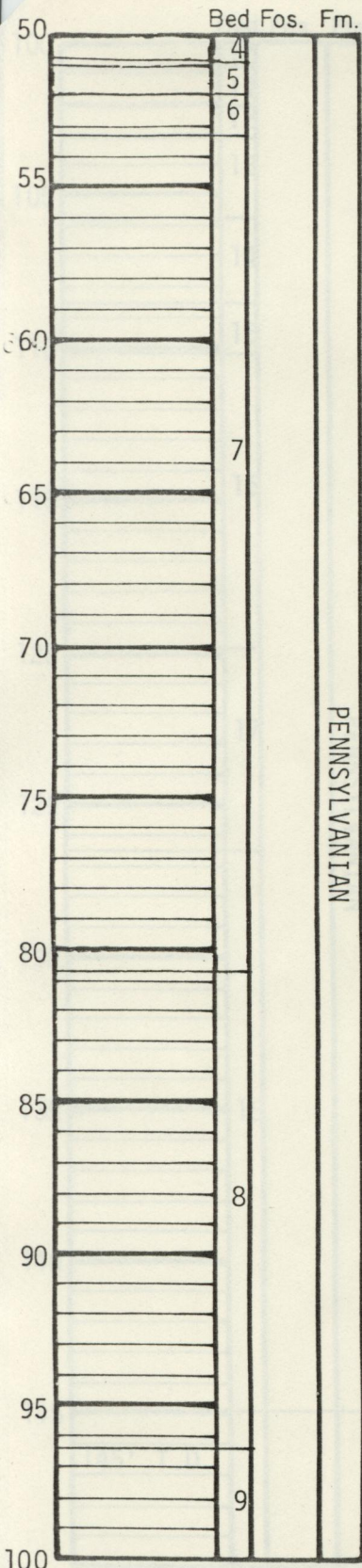
2) 41'8"-44'3" Shale - upper 10" dark grey, slightly silty, weakly laminated, with minor mica; grades to approx. 1' medium grey, slightly silty, laminated, with common carbonized and fine pyritic leaf compressions; lower 9" grades from light medium grey, silty, slightly micaceous to medium grey, slightly silty, laminated, with common plant compressions. Lower contact sharp and irregular.

3) 44'3"-49'11" Shale - medium grey to light medium brown gray, silty, slickensided including one mud-filled fracture at 47'2", with highly disturbed bedding and minor disseminated granular pyrite. Lower contact sharp and highly irregular.

4) 49'11"-50'9" Shale and coal. At top is an irregular 1" coal bed below which is approx. 3" dark grey, slickensided shale with minor vitrain fragments at the bottom. There is a highly irregular contact with 2" medium brown grey shale with disturbed bedding. Lower 3" is medium grey and green grey shale with irregular, 1/8" thick vitrain lenses at top, middle, and bottom. Lower contact sharp and irregular.

5) 50'9"-52' Shale - light medium grey, silty, slickensided, with possible small flat shale clasts in the lower portion and minor root traces. Lower contact lost.

6) 52'-53'4" Shale and interlaminated sandstone. Shale - medium grey, silty, slightly micaceous, laminated with about 10% thin, light grey, fine grained, slightly irregular, sand lamellae, some calcareous, diminishing in the middle portion, and abundant carbonized plant compressions, dominantly cordaite leaves. The lower contact is gradational, marked by a rapid disappearance of plant fossils.

County Polk NW, NE, NW, SE Sec. 2 T. 78N R. 24WLocation 20.5' west of east wall; 6.3' north of north wall.Altitude 810'Measured by Paul Van Dorpe/John W. Swade Date 10/30-11/5/79Remarks 50' - 100'

Bed	Description
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|-----|--|
| 7) | 53'4"-80'7" Interbedded shale to sandstone. Upper approx. 1' shale - light medium grey, silty, weakly laminated, with common orange root traces. Next approx. 10' dominantly interbedded light medium grey, argillaceous, slightly micaceous siltstone and silty shale; in the lower portion, shale grades to medium grey, weakly laminated with common plant debris and is interbedded with minor sandy micaceous beds with abundant carbonaceous debris. Remainder of unit is interbedded sandstone - light medium grey, very fine grained, argillaceous, slightly micaceous, about 60%, with some graded bedding to medium grey, argillaceous siltstone, about 30%, and in the lower portion, irregular and cross-laminated beds of light grey, fine grained, calcareous sandstone; fine carbonaceous debris is common throughout, with minor vitrain lenses and in the lower 5', minor irregular dolomitic lenses. Lower contact lost. |
| 8) | 80'7"-96'5" Shale - upper approx. 4' medium dark grey, slightly silty grades rapidly to medium grey, silty, slightly micaceous, weakly laminated, slickensided; with common large massive pyrite root replacements and minor dolomitic ironstone nodules throughout, and one 3" pyritic ironstone nodule about 2' before top; becomes increasingly sandy in the lower 1'. Lower contact sharp and irregular. |
| 9) | 96'5"-100' Sandstone - light grey, very fine to fine grained, slightly argillaceous near top, grading to light grey to white, fine grained, calcareous with moderate, thin, irregular black, organic clay lamellae and small coal clasts, and minor micro-faulting. Lower contact sharp and irregular. |
| 10) | 100'-100'9" Shale to sandstone. Grades from black, sandy shale at top to medium dark grey, very fine to fine grained, argillaceous, slightly micaceous sandstone near the bottom. Lower contact lost. |
| 11) | 100'9"-102'1" Shale - medium brown grey, silty, with disturbed bedding; at the base is a thin black smut streak smeared by the slickensided lower contact. |
| 12) | 102'1"-103'2" Sandstone - medium brown grey, very fine grained, argillaceous, slightly micaceous, with a microfaulted texture and minor possible root traces; at the base is a thin dark smut streak smeared by the slickensided lower contact. |
| 13) | 103'2"-105'8" Shale - upper 8" medium brown grey, slightly silty, with disturbed bedding and possible root traces; there is a sharp color change to 1'10" medium dark grey, silty, highly slickensided. Lower contact lost. |

