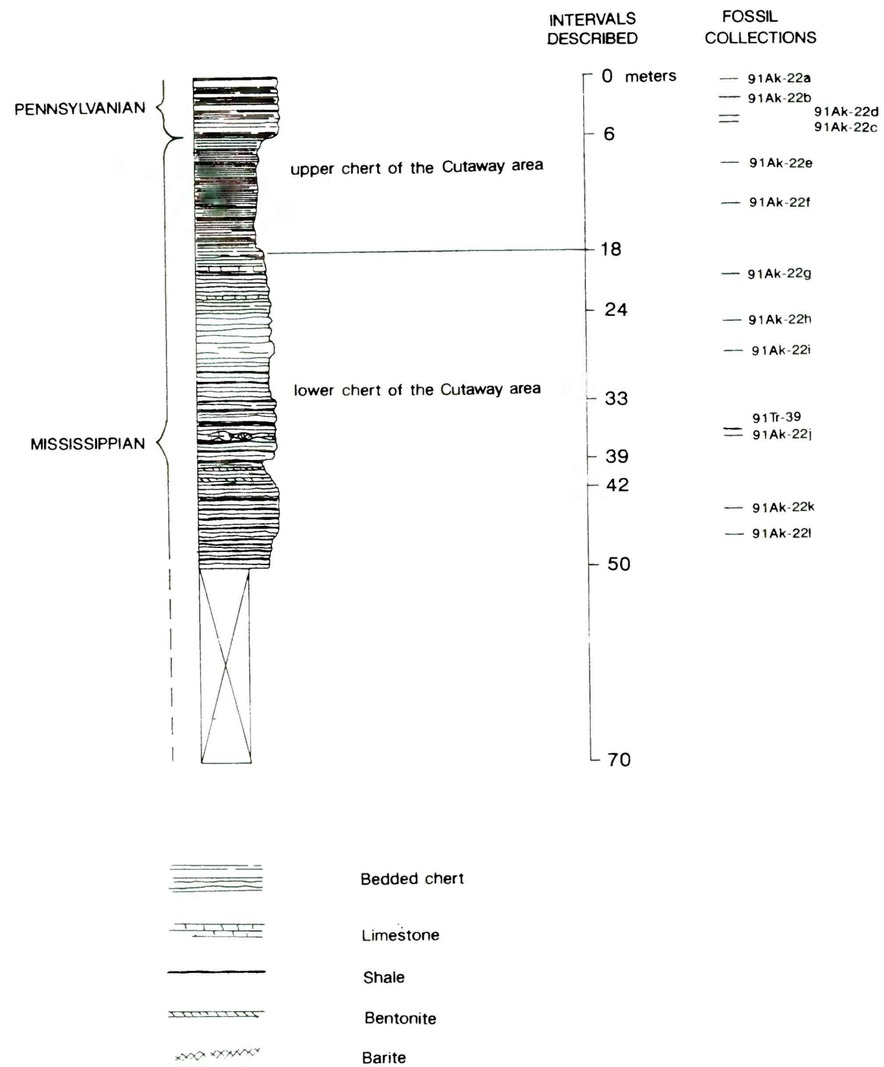

91Ak-22a *Paleoxyphoxtylus* sp., *Scharfenbergia* forms. **Late Mississippian or Early Pennsylvanian age.**

91Ak-22b Albaillellid cf. *A. uncus* or *A. cartalla*, *Paleoxyphostylus sp.* **Early or Middle Pennsylvanian age (Morrowan or Atokan stage).**

91Ak-22c *Scharfenbergia* morphotypes, bipolar *Paleoxyphostylus varispinosa*. **Late Mississippian age (Meramecian or Chesterian stage).**

91Ak-22d Unidentified albaillellid. **Paleozoic age.**

91Ak-22e No identifiable radiolarians.

91Ak-22f cf. *Scharfenbergia* rays. **Late Paleozoic age.**

91Ak-22g *Scharfenbergia* ray fragments and long albaillellids. **Late Paleozoic age.**

91Ak-22h Albaillellid fragments. **Paleozoic age.**

91Ak-22i No identifiable radiolarians.

91Ak-22j No identifiable radiolarians.

91Ak-22k ?*Archocyrtium* sp. albaillellids, long bladed spines. **Paleozoic age.**

91Ak-22l *Scharfenbergia* sp. **Mississippian or Pennsylvanian age.**

Interval	Lithology
0-6 m	**Chert**, medium-dark-gray, grayish-green, and light-greenish-gray, rhythmically bedded beds 2 cm to 20 cm thick, most beds are 4 cm to 8 cm thick, vitreous w/locally abundant radiolarians on fresh surfaces, conchoidal fracturing, blocky to platy weathering, pale-greenish-gray-weathering, includes hard silicious shale partings 0.1 cm to 0.5 cm thick.
6-18 m	**Chert**, poorly exposed-"rubble crop," medium-dark-gray, medium-gray, dark-gray, and grayish-red, platy to hackly weathering, beds mostly 2 to 4 cm thick, iron-stained weathered surfaces, radiolarians are locally abundant.
18-24 m	**Chert**, grayish-black, rhythmically bedded beds 2 cm to 8 cm thick, blocky weathering, subvitreous to microgranular on fresh surfaces, strongly iron-stained, includes dark-gray shale partings and beds 1 cm to 2 cm thick making up about 15 percent of interval, includes limestone beds 1 cm to 2 cm thick.
24-33 m	**Chert**, dark-gray and grayish-black, rhythmically bedded beds 4 cm to 10 cm thick, most beds are 4 cm to 8 cm thick, includes dark-gray to grayish-black shale beds 2 cm to 10 cm thick which make up about 10 percent of interval, includes 1 m thick interval of massive weathering chert composed of chert beds 2 cm to 10 cm thick.
33-39 m	**Chert**, dark-gray and grayish-black, rhythmically bedded beds 4 cm to 10 cm thick, most beds are 4 cm to 8 cm thick, includes dark-gray and grayish-black shale partings and beds 2 cm to 10 cm thick which make up about 25 percent of the interval, includes a yellowish-gray-weathering bed of coarsely-crystalline and porous limestone and barite 0.25 m to 0.5 m thick.
39-42 m	**Chert** and **shale**, recessive weathering, chert is grayish-black, rhythmically bedded beds 2 cm to 10 cm thick, most beds are 4 cm to 8 cm thick, vitreous on fresh surfaces, conchoidal fracturing, light-brown weathering, reddish-brown - iron-stained, chert beds have pale-bluish-gray weathering bloom locally, includes scattered radiolarians, includes dark-gray and grayish-black shale partings and beds 0.5 cm to 2 cm thick; chert makes up about 70 percent of interval and shale makes up about 30 percent of the interval; interval also includes soft yellowish-gray claystone beds 1 cm to 2 cm thick, possibly bentonite.
42-50 m	**Chert**, grayish-black, rhythmically bedded beds 2 cm to 10 cm thick, most beds are 4 to 8 cm thick, vitreous, conchoidal fracturing, mostly blocky weathering, light-brown to reddish-brown-weathering, iron-stained, has pale-bluish-gray weathering bloom (possibly chalcedony) - especially in lower part of interval, includes scattered radiolarians, includes partings and beds 0.5 cm to 2 cm thick of dark-gray and grayish-black shale - especially in lower part where shale is about 15 percent of interval, shale makes up 5 to 10 percent of upper part of the interval.
50-70 m	**Covered** to **poorly exposed interval**, mostly chert and shale similar to overlying interval.

FIGURE 5. Measured section in same fault block as the Abby Creek barite deposit. (See Figures 2 and 4 for location.)

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