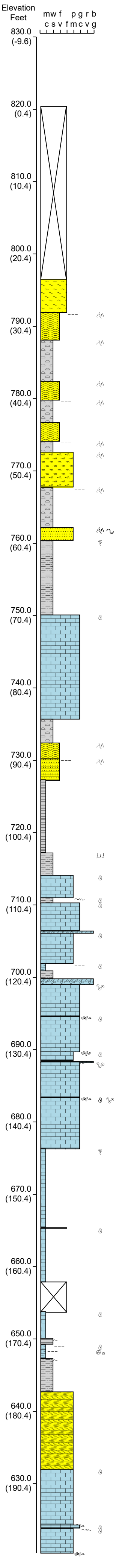
ID Number:	165156	Date:	11/13/2006
Site Name:	SDH407 (McCraken)	By:	Todd A. Thompson and Brian D. Keith
Location:	NW¼NE¼NW¼ sec. 15, T. 9 N., R. 3 W. UTMX: 523020.20, UTMY: 4341551.00, Zone: 16	Notes:	Whitehall quadrangle, Owen County
Elevation:	820.4000 Feet		



(0) Unconsolidated not described and not present/recovered

(23.9) WEST BADEN GROUP, Sample Formation
Flaser-bedded sandstone, gradational basal contact; lower fine-grained to upper very fine grained; tan

(28.5) Bioturbated wavy-bedded sandstone, sharp basal contact; lower fine-grained to upper very fine grained; tan

(32.3) Bioturbated lenticular-bedded siltstone, sharp basal contact; more clay than unit above; medium-gray to tan

(38) Bioturbated wavy-bedded sandstone, gradational basal contact; upper to lower very fine grained; medium-gray

(40.6) Bioturbated lenticular-bedded siltstone, gradational basal contact; medium-gray

(43.7) Wavy-bedded sandstone, gradational basal contact; upper to lower very fine grained; medium-gray

(46.3) Bioturbated lenticular-bedded siltstone, irregular basal contact; medium-gray

(47.85) Bioturbated ripple-bedded and interlaminated/interbedded sandstone and siltstone, with a gradational basal contact; medium- to light-gray

(52.7) Bioturbated lenticular-bedded siltstone, irregular basal contact; dark-gray with light-gray sand lenses

(58.25) Bioturbated and disturbed-bedded sandstone; disseminated plant debris; medium-gray

(60) Slickensided massive mudstone; nodular at base; possible paleosol; more of a shale in the upper 1 ft; dark-gray, medium-tan at the base

(70.3) Beaver Bend Limestone
Fossiliferous massive grainstone; fossil debris and coated grains, some crinoids; fractured and weathered; tan to orangish-gray

(84.7) Bethel Formation
Lenticular-bedded siltstone; interbedded dark-gray clay and light-gray sand

(88) Bioturbated wavy-bedded sandstone, gradational basal contact; upper very fine grained; light-gray

(90.2) Bioturbated interbedded or interlaminated sandstone, sharp basal contact; upper very fine grained; light-gray

(93.15) Horizontal-bedded shale; black

(103.2) BLUE RIVER GROUP, Paoli Limestone
Rooted massive mudstone, irregular basal contact; medium-greenish-gray

(106.3) Fossiliferous horizontal-bedded packstone, irregular basal contact; crinoidal debris; cryptalgal from 107-107.4 ft; medium-pinkish-gray

(109.4) Fossiliferous massive mudstone, gradational basal contact; calcareous; paleosol(?); greenish-medium-gray

(110.15) Fossiliferous cross-bedded and massive grainstone; occasional partings; disseminated pyrite cubes and miscellaneous fossil debris; light-tannish-gray

(114) Massive limestone-clast breccia; clasts of unit below; clast-supported with matrix of green clay; greenish-medium-gray

(114.3) Fossiliferous massive packstone, gradational basal contact; geopetal at 117.4 ft; thin-walled brachiopods and miscellaneous skeletal debris; cryptalgal at 115.3 ft; medium-pinkish-gray

(118.55) Fossiliferous horizontal-bedded argillaceous limestone, gradational basal contact; crinoids and miscellaneous fossil debris; medium-greenish-gray

(119.55) Massive mudstone, gradational basal contact; calcareous; medium-greenish-gray

(120.6) Massive limestone-clast breccia, stylolitic basal contact; calcareous; yellowish-greenish-gray

(121.4) Ste. Genevieve Limestone
Oolitic massive grainstone, stylolitic basal contact; cross-bedded in the upper1 ft; scattered fossil debris; light-tannish to pinkish-gray

(125.85) Fossiliferous massive grainstone, stylolitic basal contact; miscellaneous fossil debris and micritic grains; light-tannish-gray

(130.75) Fossiliferous massive packstone, irregular basal contact; thin partings; light-tannish-gray

(132) Massive limestone-clast breccia, irregular basal contact; light-tannish-gray with greenish-gray clay matrix

(132.15) Oolitic cross-bedded grainstone, stylolitic basal contact; tan to white

(137.05) Fossiliferous and oolitic cross-bedded grainstone; thin-walled brachiopods and other fossil debris; tan to white

(144.15) Indian Creek Limestone Beds
Slickensided horizontal-bedded and massive lime mudstone; abundant argillaceous partings; yellow-tannish-gray

(155) Chert; tan to yellow

(155.1) Fossiliferous horizontal-bedded lime mudstone; occasional brachiopod, gastropod and argillaceous partings; light-pinkish-gray

(162.5) Not present/recovered

(166.65) Fossiliferous massive lime mudstone, irregular basal contact; large thin-walled brachiopods in lower half of the unit; several thin argillaceous zones; light-pinkish-gray to medium-gray

(170.35) Horizontally-bedded siltstone, gradational basal contact; some argillaceous interbeds; calcareous and more clay-rich downwards; medium-gray

(171.2) Fossiliferous horizontal-bedded argillaceous limestone, gradational basal contact; medium-pinkish-gray

(171.9) Intraclastic argillaceous limestone, irregular basal contact; granule-size intraclasts; argillaceous; medium-greenish-pinkish-gray

(173.12) Massive mudstone, gradational basal contact; greenish-gray to orangish-yellow

(177.7) Cross-bedded and horizontal-bedded sandstone; lower fine- to lower medium-grained sand; medium-pinkish to yellowish-gray

(188.45) Fossiliferous massive packstone, stylolitic basal contact; thin-walled brachiopods and occasional argillaceous parting; medium-pinkish-gray

(196.15) Fossiliferous massive grainstone, irregular basal contact; miscellaneous skeletal debris; medium-greenish-gray

(196.6) Fossiliferous massive packstone, stylolitic basal contact; argillaceous partings; medium-pinkish-gray