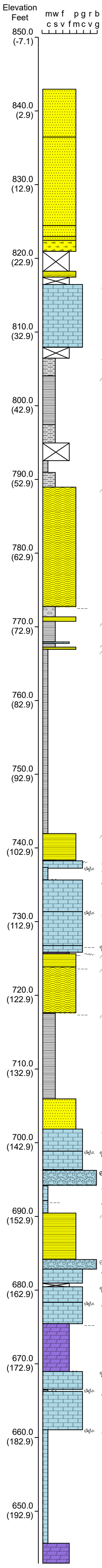
ID Number:	166604	Date:	11/5/2012
Site Name:	SDH472 (Roger Fancher)	By:	Todd A. Thompson and Brian D. Keith
Location:	NW¼ SE¼ SW¼ sec. 32, T. 7 N., R. 2 W. UTMX: 529287.00, UTMY: 4316311.00, Zone: 16	Notes:	Owensburg quadrangle, Monroe County
Elevation:	842.9000 Feet		



(0) RACCOON CREEK GROUP, Mansfield Formation
Sandstone; medium gray brown

(6.5) Sandstone; fine-grained; tan

(18.5) Sandstone; finer-grained than above; darker tan with black streaks

(20) Sandstone; cemented; dark-tan

(20.5) Ripple-bedded and cross-bedded sandstone; lower medium-grained to lower-fine grained sand; yellowish-tan

(22) Void

(24.7) Cross-bedded sandstone; discontinuous heavy mineral laminae; lower medium-grained to upper fine-grained sand; yellowish-tan

(25.5) STEPHENSPORT GROUP, Beech Creek Limestone
Void

(26.5) Fossiliferous massive grainstone; micritized; coarse to fine crinoids and brachiopods in upper part and brachiopods and gastropods in the lower part; several voids and rubble zones; medium- to dark-brownish-gray to orangish-gray where weathered

(35) Void

(36.5) WEST BADEN GROUP, Elwren Formation
Slickensided massive siltstone; slickensides on broken surfaces, probable paleosol; medium-greenish- to yellowish-gray

(38.9) Bioturbated horizontal-bedded siltstone; sandier downwards; horizontal bioturbation in places; tannish-yellow at top to maroonish-green at the base

(45.5) Siltstone; rubble; maroon

(48) Void

(50.4) Massive mudstone; possible paleosol; maroon to reddish-brown

(52) Massive siltstone; irregular carbonate nodules in the lower part; medium- to dark-greenish-gray to light-greenish-gray

(54) Bioturbated wavy-bedded and flaser-bedded sandstone, gradational basal contact; horizontal bioturbation; increasing sand content from the base to the middle of the unit and then decreasing to the top; lower very fine grained; light-tannish- to greenish-gray with dark-greenish-gray flasers and laminae

(70.2) Lenticular-bedded and wavy-bedded siltstone, gradational basal contact; wavy bedded near the base; medium- to dark-greenish gray with light-gray sand lenses

(71.6) Horizontal-bedded sandstone; upper to lower very fine grained sand; light-gray

(72.2) Bioturbated horizontal-bedded and lenticular-bedded siltstone; horizontal biourbation; medium- to dark-greenish-gray with light-gray sand lenses and laminae

(75) Reelsville Limestone
Fossiliferous and intraclastic massive limestone; fine crinoids and abundant quartz sand grains; dark-brownish-gray with dark-brown mud chips

(75.15) Sample Formation
Bioturbated horizontal-bedded siltstone, sharp basal contact; horizontal bioturbation; very thin laminae; dark-greenish-gray

(75.7) Horizontal-bedded sandstone; calcareous white specks (possible small fossils); lower fine-grained to upper very fine grained sand; medium- to dark-tannish-gray

(76) Bioturbated horizontal-bedded shale, irregular basal contact; increasing sand and horizontal bioturbation downwards; dark-brownish-gray to black

(100.95) Bioturbated horizontal-bedded sandstone, irregular basal contact; pyrite nodules at the top; light- to medium-gray sand with dark-brownish-gray clay mud chips, flasers, and stringers

(104.55) Bioturbated horizontal-bedded siltstone, irregular basal contact; horizontal bioturbation; medium-brownish-gray to reddish-brown

(104.65) Beaver Bend Limestone
Fossiliferous massive grainstone, stylolitic basal contact; fine to medium crinoids, brachiopods, and gastropods at the base; quartz sand near the top; light-tannish-gray at base to yellowish-brown at the top

(105.6) Fossiliferous massive argillaceous limestone, stylolitic basal contact; fine to medium crinoids and miscellaneous fossil debris; medium- to dark-brownish-gray

(107.3) Fossiliferous and oolitic massive grainstone, stylolitic basal contact; medium to coarse crinoids, blastoids, increasing ooids upwards; variable amount of micritization; microstylolites throughout; medium- to dark-gray

(111.6) Fossiliferous interlaminated/interbedded grainstone and argillaceous limestone, gradational basal contact; fine to medium crinoids and miscellaneous fossil debris; medium- to dark-brownish-gray

(116.2) Oolitic and fossiliferous massive grainstone, irregular basal contact; fine to medium crinoids, brachiopods and dark-centered ooids; medium- to dark-brownish-gray

(117.1) Bethel Formation
Disturbed-bedded horizontal-bedded dolostone, sharp basal contact; sandy at base; dark-brownish-gray

(117.25) Bioturbated horizontal-bedded sandstone, gradational basal contact; bioturbated in upper part; lower very fine grained; light-greenish-gray

(119.1) Bioturbated wavy-bedded and horizontal-bedded sandstone, gradational basal contact; horizontal bioturbation; light- to medium-brownish-gray

(125.35) Bioturbated horizontal-bedded siltstone, gradational basal contact; dark-brownish-gray

(136.95) BLUE RIVER GROUP; Paoli Limestone
Massive sandstone; carbonate nodules in the lower part; clay rich; lower fine-grained to lower very fine grained sand; medium- to dark-greenish-gray

(141.1) Fossiliferous massive grainstone, stylolitic basal contact; fine crinoids, brachiopods, and miscellaneous fossil debris; medium-gray

(144.1) Oolitic and fossiliferous horizontal-bedded grainstone; fine crinoids, brachiopods, and miscellaneous fossil debris; possible bioturbation; medium-gray

(146.6) Horizontal-bedded siltstone, gradational basal contact; calcareous; fine calcite specks; medium-yellowish-gray

(146.7) Intraclastic and fossiliferous massive limestone-clast breccia, sharp basal contact; in-place brecciation of lime mudstone and wackestones; fine crinoids; crystallized calcite between may clasts; medium-brownish-gray

(148.75) Fossiliferous massive lime mudstone and wackestone, gradational basal contact; possible bioturbation at the top; fine miscellaneous fossil debris; increasing argillacous wisps downwards; light- to medium-gray to medium-greenish-gray at the base

(150.8) Fossiliferous and bioturbated horizontal-bedded argillaceous limestone, gradational basal contact; fine miscellaneous fossil debris, increasing bioturbation near the base with thin-walled brachiopods; light-gray carbonate with medium-greenish-gray argillaceous horizons

(152.5) Bioturbated horizontal-bedded sandstone, irregular basal contact; lower very fine grained sand with variable carbonate and clay content; medium-greenish-gray to pinkish-gray

(158.8) Ste Genevieve Limestone
Intraclastic massive limestone-clast breccia, irregular basal contact; clast support lime mudstone clasts ; medium- to dark-gray clasts with yellowish matrix

(160.1) Fossiliferous and bioturbated massive grainstone; brachiopods; fine crinoids, and miscellaneous fossil debris; medium-gray

(162) Void

(162.5) Oolitic and fossiliferous massive grainstone, stylolitic basal contact; brachiopods and misc. fossil debris; recrystallized ooids; light- to medium-gray

(164.6) Fossiliferous and oolitic massive grainstone, gradational basal contact; thin-walled brachiopods, miscellaneous fossil debris, ooids in the middle part of the unit; dolomitic downwards; light- to medium-gray to yellowish-gray

(167.5) Massive crystalline dolostone, stylolitic basal contact; calcareous in the upper part; pinpoint porosity in the lower part; light- to medium-brown to yellowish-gray

(174) Oolitic and fossiliferous cross-bedded and horizontal-bedded grainstone, stylolitic basal contact; medium to fine crinoids, miscellaneous fossil debris, few rounded intraclasts, and recrystallized ooids; medium-yellowish-gray

(176.45) Horizontal-bedded argillaceous limestone, stylolitic basal contact; high clay content; medium-greenish-gray at top and yellowish-gray in the lower part where weathered

(176.65) Fossiliferous and oolitic horizontal-bedded and cross-bedded grainstone, stylolitic basal contact; medium to fine crinoids, brachiopods, and possible gastropod in the lower part; medium-yellowish-gray

(181.85) Fossiliferous interlaminated/interbedded and horizontal-bedded lime mudstone, irregular basal contact; dolomitic from 188.5-193.0 ft; thin-walled brachiopods; tannish-gray to yellowish-gray carbonate interbedded with medium-gray to yellowish-gray argillaceous layers

(197.3) Massive crystalline dolostone; medium-brownish-gray