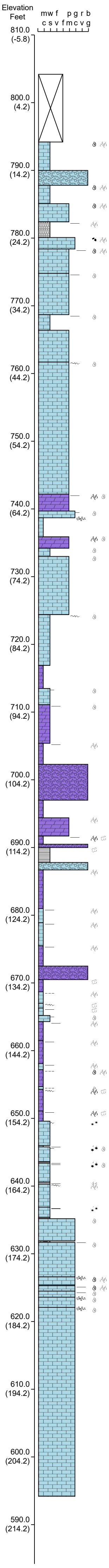
ID Number:	163665	Date:	6/28/2005
Site Name:	SDH395 (Rolling Meadows Golf Course)	By:	Brian D. Keith and Todd A. Thompson
Location:	NE¼SW¼SE¼ sec. 13, T. 10 N., R.3 W. UTMX: 526544.00, UTMY: 4349926.00, Zone: 16	Notes:	Gosport quadrangle, Owen County
Elevation:	804.2000 Feet		



(0) Unconsolidated not described and not present/recovered

(10) BLUE RIVER GROUP, Ste. Genevieve Limestone
Fossiliferous and bioturbated massive wackestone; blastoids, gastropods, and brachiopods (?); tan

(14.2) Massive limestone-clast breccia, stylolitic basal contact; clasts of fossiliferous wackestone; some yellow clay around clasts; light-gray

(16.4) Fossiliferous and bioturbated massive wackestone, sharp basal contact; thin-shelled brachiopods; argillaceous horizon at 18.2-18.3 ft; tannish-gray

(19.1) Fossiliferous and bioturbated interlaminated/interbedded packstone, sharp basal contact; crinoids; medium-greenish-gray, argillaceous horizons are green

(21.8) Bioturbated interlaminated siltstone and wackestone, sharp basal contact; greenish-gray

(24.1) Peloidal and bioturbated massive grainstone, sharp basal contact; occasional scattered quartz grains as nuclei; suggestion of inclined bedding; lithoclasts of same material near top in argillaceous zone

(25.8) Fossiliferous and bioturbated horizontal-bedded packstone, sharp basal contact; in-place fracturing at 27-27.8 ft

(29.4) Fossiliferous horizontal-bedded packstone, sharp basal contact; rounded micritic grains dominant; scattered fine-grained quartz grains 32.5-35.5 ft; medium-light-gray with abundant green-gray argillaceous partings

(35.5) Fossiliferous horizontal-bedded wackestone to packstone, irregular basal contact; light-tannish-gray

(37.8) Massive packstone to grainstone, with a irregular basal contact; void filled with brown calcite from 40 to 41 ft.; several chert nodules that are light- to dark-gray throughout

(42.5) Fossiliferous massive packstone to wackestone, sharp basal contact; microstylotites throughout

(62) Bioturbated and fossiliferous horizontal-bedded dolomitic packstone, with a sharp basal contact; slightly calcareous; dark-gray

(64.5) Fossiliferous massive grainstone, stylolitic basal contact; medium-tannish-gray

(65.5) St. Louis Limestone
Massive lime mudstone, gradational basal contact; chert nodules from 67.8-68.3 ft; grainstone from 67.5-67.6 ft; some fracturing

(68.3) Bioturbated and fossiliferous horizontal-bedded dolomitic packstone; nodules have white chalky rind (devitrified chert); chert nodules from 68.3-69 ft

(70) Fossiliferous massive wackestone to packstone, irregular basal contact; crinoids; microstylolites throughout

(71.2) Fossiliferous interbedded packstone and argillaceous limestone, irregular basal contact; crinoids and brachiopods; green tint to fine-grained horizons

(79.8) Fossiliferous massive wackestone to packstone; microstylolites; chert nodules throughout

(87.3) Horizontal-bedded dolomitic mudstone, sharp basal contact; some green mud/glauconite/chlorite blebs; greenish tint

(90.7) Acrocyathus proliferus corals
Fossiliferous massive wackestone to packstone, sharp basal contact; microstylolites; finger corals form 91.6-92.3 ft.; coral replaced by silica

(93.1) Fossiliferous massive dolomitic wackestone to packstone, sharp basal contact; ghosts of fossils; in-place fracturing with calcite along fractures; dark-gray

(98.8) Bioturbated massive dolomitic mudstone, sharp basal contact; some in-place fracturing in the lower part

(101.9) Massive dolostone-clast breccia, sharp basal contact; clasts of dolomitic packstone to packstone; gray to green to maroon

(107.2) Horizontal-bedded dolomitic mudstone, sharp basal contact

(109.8) Bioturbated massive dolomitic packstone, sharp basal contact; scattered green blebs

(112.5) Bioturbated and mottled horizontal-bedded dolomitic mudstone, irregular basal contact

(113.7) Massive dolostone-clast breccia, irregular basal contact; greenish tint

(114.2) Mottled horizontal-bedded siltstone, sharp basal contact; dark-green

(116.4) Massive limestone-clast breccia, sharp basal contact; lumped unit; light clasts in a dark matrix

(117.5) Bioturbated horizontal-bedded dolomitic mudstone, sharp basal contact; some in-place fracturing; tan

(123.2) Bioturbated horizontal-bedded lime mudstone, sharp basal contact; some in-place fracturing; dark

(125.3) Bioturbated horizontal-bedded lime mudstone, sharp basal contact; darker and more argillaceous near the base; chert nodules at the base; tan

(128.7) Bioturbated horizontal-bedded dolomitic mudstone, irregular basal contact

(131.7) Massive to horizontal-bedded dolostone-clast breccia, irregular basal contact; vugs with brown calcite linings at 132-132.8 ft.

(133.7) Mottled massive dolomitic mudstone, gradational basal contact; slight in-place fracturing

(135.5) Bioturbated horizontal-bedded lime mudstone to argillaceous limestone, irregular basal contact; more argillaceous toward the base

(137.2) Mottled horizontal-bedded lime mudstone, sharp basal contact

(137.9) Mottled horizontal-bedded lime mudstone, sharp basal contact; abruptly argillaceous in top 0.3 ft

(139) Fossiliferous massive wackestone, sharp basal contact; thin argillaceous cap

(139.9) Bioturbated horizontal-bedded dolomitic mudstone, sharp basal contact; 0.3 ft thick argillaceous top

(142.7) Bioturbated massive dolomitic mudstone, sharp basal contact; calcareous in lower 0.7 ft; thin 0.1-ft-thick argillaceous top

(146.1) Bioturbated horizontal-bedded lime mudstone, gradational basal contact; thin 0.1-ft-thick argillaceous top

(147) Fossiliferous and bioturbated horizontal-bedded dolomitic mudstone, gradational basal contact; Syringopora coral at 147.7 ft; thin 0.05-ft-thick argillaceous top

(149.5) Fossiliferous massive lime mudstone, irregular basal contact; Syringopora coral throughout; thin 0.05-ft-thick argillaceous top

(149.9) Bioturbated and mottled massive dolomitic mudstone, sharp basal contact; thin argillaceous horizons at 150.3, 150.8, 151.2, 152.1, and 152.4 ft

(153.1) Bioturbated and mottled massive dolomitic mudstone, irregular basal contact; green

(154.6) Birdseyed massive wackestone, sharp basal contact; microstylolites throughout

(158.2) Bioturbated horizontal-bedded argillaceous limestone, sharp basal contact

(158.4) Birdseyed and fossiliferous horizontal-bedded wackestone, sharp basal contact

(160.6) Bioturbated horizontal-bedded siltstone, sharp basal contact; calcareous; green

(160.8) Birdseyed and fossiliferous horizontal-bedded wackestone, sharp basal contact

(163.6) Bioturbated horizontal-bedded siltstone, irregular basal contact; calcareous; green

(163.9) Bioturbated massive and horizontal-bedded wackestone, sharp basal contact; more argillaceous upward

(167.25) Bioturbated horizontal-bedded siltstone, sharp basal contact; calcareous

(167.3) Birdseyed massive and horizontal-bedded wackestone, sharp basal contact

(168.8) Horizontal-bedded siltstone, sharp basal contact; calcareous; green

(169) SANDERS GROUP, Salem Limestone
Fossiliferous massive and horizontal-bedded grainstone, sharp basal contact; stylolites at 170.7 ft; hardground at 170.7 ft

(172.3) Siltstone, sharp basal contact; organic-rich; brown to dark-gray

(172.55) Fossiliferous massive grainstone, stylolitic basal contact; stylolites at 175.5, 176.8, and 177.05 ft, hardground at 174.6 ft

(177.65) Fossiliferous and bioturbated horizontal-bedded grainstone, sharp basal contact; stylolite at 178.1 ft

(178.9) Fossiliferous and bioturbated massive grainstone, sharp basal contact; crinoids; microstylolites near top

(179.7) Shale, sharp basal contact; organic-rich; brown

(179.71) Fossiliferous horizontal-bedded grainstone, stylolitic basal contact; crinoids

(180.65) Shale, sharp basal contact; organic-rich; brown

(180.66) Fossiliferous massive grainstone, stylolitic basal contact; crinoids

(182.15) Shale, sharp basal contact; organic-rich; brown

(182.16) Fossiliferous cross-bedded and horizontal-bedded grainstone; bryozoans, gastropods, foraminifera, crinoids, coated grains; stylolites at 185.4, 186, 186.9, 187.8, 189.15, 192.3, 196.85, 200.8, and 208.2 ft