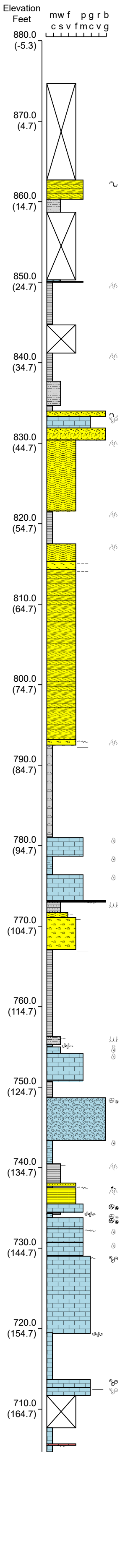
ID Number:	165149	Date:	9/8/2006
Site Name:	SDH400 (Doug Dixon)	By:	Todd A. Thompson and Brian D. Keith
Location:	NE¼ SE¼ SW¼ sec. 5, T. 7 N., R. 2 W. UTMX: 529578.80, UTMY: 4324267.00, Zone: 16	Notes:	Standford quadrangle, Monroe County
Elevation:	874.7000 Feet		



(0) Unconsolidated not described and not present/recovered

(12) RACCOON CREEK GROUP, Mansfield Formation
Disturbed cross-bedded sandstone; orange to reddish-brown

(14.4) Mudstone; conglomeratic near the top (due to drilling?); very dark gray

(16) Not present/recovered

(24.4) Siderite; orange to maroon

(24.65) Horizontal-bedded sandstone; light-brownish-gray with red specks

(24.75) Bioturbated horizontal-bedded shale; burrows filled with sandstone like unit above; black

(30) Not present/recovered

(33.5) Bioturbated horizontal-bedded shale; black

(37) Massive mudstone; black

(40) Horizontal-bedded shale; thin isolated white sand lenses or wisps; black

(40.75) Disturbed matrix-supported breccia, irregular basal contact; greenish-black matrix, white very fine grained packstone clasts

(41.45) WEST BADEN GROUP, Reelsville Limestone
Oolitic massive grainstone and packstone; medium-pinkish-gray

(42.85) Massive matrix-supported breccia; brown to greenish-gray matrix with light-gray lime mudstone clasts

(44.35) Sample Formation
Bioturbated wavy-bedded and ripple-bedded sandstone; lower fine-grained to upper very fine grained sandstone, alternating ripple- and wavy-bedded units with no overall grading trend; medium-gray

(53.2) Bioturbated horizontal-bedded and lenticular-bedded shale, gradational basal contact; black to greenish-dark-gray at the base of the unit

(57.2) Bioturbated wavy-bedded sandstone, gradational basal contact; lower fine-grained to upper very fine grained sandstone; orangish-brown

(59.4) Flaser-bedded sandstone, gradational basal contact; lower fine-grained to upper very fine grained sandstone; orangish-brown

(60.45) Cross-bedded sandstone, irregular basal contact; lower fine-grained to upper very fine grained sandstone; orangish-brown

(81.55) Bioturbated ripple-bedded sandstone, sharp basal contact; lower fine-grained to upper very fine grained sandstone; orangish-brown

(82.25) Lenticular-bedded shale; very dark gray with thin white sand lenses

(93.7) Beaver Bend Limestone
Fossiliferous massive packstone; predominantly crinoids with other shell debris; some grain coating; argillaceous near the top of the unit; medium-gray to tannish-gray in the upper half of the unit

(96) Fossiliferous nodular argillaceous limestone, gradational basal contact; nodules of fossiliferous packstone that are similar to unit above but finer-grained; brownish-dark-gray with brown-light-gray nodules

(98.3) Fossiliferous massive packstone, irregular basal contact; crinoids plus shell debris; carbonaceous argillaceous near the base of the unit; dark-gray to orangish-medium-gray where oxidized

(101.5) Bethel Formation
Coal

(101.7) Rooted interbedded or interlaminated siltstone, gradational basal contact; dark-gray

(103) Wavy-bedded sandstone, sharp basal contact; upper very fine grained; medium-greenish-gray

(103.65) Ripple-bedded sandstone, sharp basal contact; upper very fine grained; mudstone with bioturbation at 106.4-106.55 ft; medium dark gray

(107.65) Horizontal-bedded shale, gradational basal contact; scattered thin white sandstone lenses; black

(118.4) Rooted massive mudstone, stylolitic basal contact; black to dark-gray with a yellowish-green tint

(119.45) BLUE RIVER GROUP, Paoli Limestone
Fossiliferous massive lime mudstone; abundant scattered pyrite crystals (following rootlets?); medium-pinkish-gray

(119.7) Fossiliferous cryptalgal-laminated wackestone, irregular basal contact; light- to medium-pinkish-gray

(120.55) Fossiliferous massive packstone and wackestone; brecciated/conglomeratic from 122.2-122.8 ft; crinoids and brachiopods; muddying-upward unit; light- to medium-pinkish-gray

(124) Horizontal-bedded and lenticular-bedded shale; calcareous; light-greenish-gray

(126) Intraclastic massive limestone-clast breccia, gradational basal contact; appears nodular in places; argillaceous matrix in places; clasts of lime mudstone and packstone; light-gray to light-pinkish-gray

(131.3) Fossiliferous horizontal-bedded argillaceous limestone, sharp basal contact; nodular-looking in places; abundant argillaceous partings; light-medium-greenish-gray

(134.2) Bioturbated horizontal-bedded and lenticular-bedded siltstone, sharp basal contact; calcareous; medium-greenish-gray

(136.65) Massive sandstone, irregular basal contact; lower fine-grained sandstone; greenish-yellow

(137) Peloidal massive lime mudstone, irregular basal contact; light- to medium-pinkish-gray

(137.25) Bioturbated horizontally-bedded sandstone, gradational basal contact; small limestone pebbles from 138.9 ft to base of unit; greenish-yellow

(139.25) Ste. Genevieve Limestone
Intraclastic and peloidal massive packstone, stylolitic basal contact; intraclasts of packstone and black pellets; medium-gray

(140.3) Horizontal-bedded siltstone; greenish-gray

(140.45) Intraclastic horizontal-bedded argillaceous limestone, gradational basal contact; greenish-gray

(140.95) Intraclastic and fossiliferous massive packstone, irregular basal contact; crinoids and brachiopods; light- to medium-gray

(142.3) Fossiliferous massive packstone, sharp basal contact; crinoids and brachiopods; overall lighter-colored and definitie bed boundary with unit above; light-gray

(144.05) Fossiliferous massive packstone, irregular basal contact; several argillaceous limestone horizons; light-gray to tan

(145.7) Oolitic and fossiliferous horizontal-bedded and cross-bedded and massive grainstone, stylolitic basal contact; variable ooid grain sizes; crinoid and brachiopod fragments; geopetal at 153.2 ft; scattered argillaceous zones with stylolites; unit argillaceous at the base; light-tannish-gray

(155.25) Indian Creek Limestone Beds
Massive lime mudstone, irregular basal contact; scattered argillacous limestone horizons; light-tannish-gray

(161) Oolitic and fossiliferous horizontal-bedded grainstone, sharp basal contact; lots of brachiopods; intraclasts of limestone near the top of the unit; light- to medium-tannish-gray

(162.05) Oolitic horizontal-bedded grainstone; scattered quartz grains; light-tannish-gray

(163) Not present/recovered

(167) Massive lime mudstone, irregular basal contact; odd greenish intraclast at 168.4 ft; occassional stylolites; light-tannish-gray

(169) Chert; black

(169.2) Massive lime mudstone; light-tannish-gray