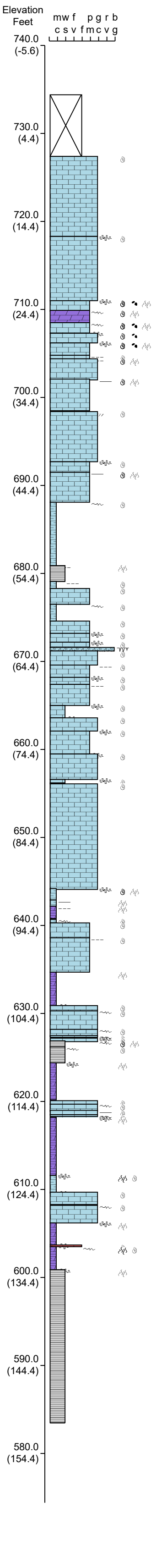
ID Number:	165160	Date:	7/10/2007
Site Name:	SDH411 (Lazy Diamond Farm Supply)	By:	Todd A. Thompson and Brian D. Keith
Location:	NW¼NE¼SE¼ sec. 29, T. 6 N., R. 1 E. UTMX: 548938.60, UTMY: 4309451.00, Zone: 16	Notes:	Bartlettsville quadrangle, Lawrence County
Elevation:	734.4000 Feet		



(0) Unconsolidated not described and not present/recovered

(7) SANDERS GROUP, Salem Limestone
Fossiliferous horizontal-bedded grainstone, stylolitic basal contact; coated grains, brachiopods, miscellaneous skeletal debris; light-brown to buff

(16.1) Fossiliferous massive grainstone, stylolitic basal contact; brachiopods, bryozoans, miscellaneous skeletal debris; medium-brown to medium-gray

(23.4) Fossiliferous and peloidal and bioturbated massive packstone, irregular basal contact; argillaceous, black peloids, thin-walled brachiopods, possible bryozoan debris; medium- to dark-brown

(24.55) Fossiliferous and bioturbated massive dolomitic packstone, irregular basal contact; porous; argillaceous; miscellaneous skeletal debris; medium- to dark-brown

(25.95) Fossiliferous and peloidal and bioturbated massive packstone, stylolitic basal contact; argillaceous; peloids, brachiopods, and possible bryozoans; medium- to dark-brown

(27.1) Fossiliferous and peloidal cross-bedded grainstone, stylolitic basal contact; crinoids, brachiopods; medium-brownish-gray

(28.2) Fossiliferous and peloidal and bioturbated horizontal-bedded packstone, gradational basal contact; crinoids, bryozoans, black peloids; medium-brownish-gray

(29.6) Fossiliferous horizontal-bedded packstone, gradational basal contact; large fenestrate bryozoans, gastropods, and crinoid debris; medium-brown

(30) Fossiliferous and bioturbated massive grainstone, sharp basal contact; very fine grained; skeletal debris; medium-brownish-gray

(32.35) Fossiliferous and bioturbated horizontal-bedded packstone, hardground basal contact; argillaceous horizons; scattered crinoid and bryozoan debris; algal laminations at base along hardground surface; medium-brownish-gray

(36) Fossiliferous massive grainstone, stylolitic basal contact; crinoids and miscellaneous rounded skeletal debris; medium- to light-brown

(41.7) Fossiliferous massive packstone, sharp basal contact; organic; coarse-grained, bryozoan debris, pyrite; medium- to light-brown

(42.9) Fossiliferous and bioturbated horizontal-bedded packstone, irregular basal contact; argillaceous horizons; bryozoan and crinoid debris; medium-brown

(46.3) Fossiliferous horizontal-bedded argillaceous limestone, gradational basal contact; scattered bryozoans, crinoids, and horn coral; some thin chert horizons; dark-brownish-gray

(53.5) Bioturbated horizontal-bedded siltstone, gradational basal contact; (Somerset Shale Member ?) ; dark-brown

(55.35) Fossiliferous horizontal-bedded argillaceous limestone, gradational basal contact; dark-brownish-gray

(56.1) Fossiliferous horizontal-bedded packstone, irregular basal contact; crinoids, bryozoans, and brachiopods; medium-brownish-gray

(57.95) Fossiliferous horizontal-bedded argillaceous limestone, gradational basal contact; dark-brownish-gray

(59.85) Harrodsburg Limestone
Fossiliferous massive packstone, stylolitic basal contact; crinoids, bryozoans, and brachiopods; dark-brownish-gray

(61.2) Fossiliferous massive and horizontal-bedded packstone, stylolitic basal contact; crinoids, bryozoans, and brachiopod debris; medium-gray

(62.2) Fossiliferous horizontal-bedded packstone, gradational basal contact; muddying upwards; argillaceous at top; crinoids and brachiopods; medium- to dark-gray

(62.85) Limestone-clast breccia, gradational basal contact; in-place brecciation; lime mudstone to wackestone clasts; some scattered fenestrate bryozoans; medium-gray

(63.25) Fossiliferous horizontal-bedded grainstone and packstone, gradational basal contact; coarse skeletal debris of crinoids, brachiopods, and bryozoans; coarsens upward; light-brownish-gray

(64.8) Fossiliferous massive packstone and wackestone, stylolitic basal contact; stylolites and in-place brecciation in finer-grained horizons; crinoids and bryozoans; light-brownish-gray

(66.2) Fossiliferous massive packstone, gradational basal contact; bryozoans and crinoid debris; dark-brownish-gray

(67) Fossiliferous massive packstone, stylolitic basal contact; bryozoans, brachiopods, crinoids, and gastropods; may be bioturbated; medium-gray

(69.4) Fossiliferous massive wackestone, stylolitic basal contact; glauconitic; some coarse horizons of crinoidal debris; medium-greenish-gray

(70.8) Fossiliferous massive grainstone, stylolitic basal contact; crinoid and bryozoan debris; medium-pinkish-gray

(72.3) Fossiliferous massive packstone and wackestone, stylolitic basal contact; horizons of organic material, bryozoans and thin-walled brachiopods; medium-gray to dark-gray

(74.95) Fossiliferous massive grainstone, stylolitic basal contact; crinoid and bryozoan debris; medium-gray

(77.85) Fossiliferous massive wackestone and argillaceous limestone; stylolitic; crinoids, bryozoans, and thin-walled brachiopods; medium-gray

(78.2) Mudstone; calcareous; white to medium-gray

(78.3) Fossiliferous horizontal-bedded grainstone, with a stylolitic basal contact; alternating crinoid- and bryozoan-rich horizons; porous in upper 2 ft; light-yellowish-gray at top to medium-greenish-gray at the base of the unit

(90.25) Ramp Creek Formation
Fossiliferous and bioturbated horizontal-bedded argillaceous limestone, sharp basal contact; crinoids, brachiopods, and miscellaneous fossil debris, scattered glauconite; alternating carbonate and argillaceous layers; light- to medium-greenish-gray

(91.55) Bioturbated horizontal-bedded argillaceous limestone, gradational basal contact; very fine grained and possibly dolomitic in the lower part of the unit; light- to medium-greenish-gray

(92.25) Bioturbated horizontal-bedded argillaceous dolostone, irregular basal contact; large geode at base; light-greenish-gray

(93.7) Fossiliferous horizontal-bedded argillaceous limestone, irregular basal contact; medium- to fine-grained; crinoids and miscellaneous fossil debris, pyrite, glauconite, and argillaceous wisps in middle and at base of the unit; light- to medium-greenish-gray

(94.1) Fossiliferous horizontal-bedded packstone, gradational basal contact; medium-grained; crinoids, glauconite, and miscellaneous fossil debris; occasional argillaceous partings; light- to medium-greenish-gray

(95.8) Fossiliferous horizontal-bedded packstone to argillaceous limestone; crinoids and miscellaneous fossil debris, glauconite; several stylolites with argillaceous partings; scattered small geodes; light- to medium-greenish-gray

(99.7) Bioturbated horizontal-bedded argillaceous dolostone, stylolitic basal contact; one large geode at base of unit and scattered small geodes in the lower half; medium-greenish- to brownish-gray

(103.5) Fossiliferous massive grainstone, irregular basal contact; coarse-grained; crinoids and one horn coral; possible silicified grains; light- to medium-greenish-gray

(104.1) Fossiliferous massive grainstone, irregular basal contact; fine-grained; crinoids, sponge spicules (?), brachiopods, glauconite, and pyrite; medium-gray

(106.2) Fossiliferous massive grainstone, irregular basal contact; fine-grained; crinoids, spicules, abundant glauconite and pyrite yielding the greenish color; medium-greenish-gray

(106.95) Fossiliferous massive grainstone, stylolitic basal contact; medium- to coarse-grained; crinoids, brachiopods, and silicified grains; medium-gray

(107.2) Fossiliferous massive grainstone, irregular basal contact; fine-grained; crinoids and larger thin-walled brachiopods, glauconite; medium-greenish-gray

(107.55) Fossiliferous and bioturbated horizontal-bedded siltstone, irregular basal contact; large crinoid grains, especially at the base of the unit; horizontal bioturbation; medium- to dark-greenish-gray

(108.25) Fossiliferous horizontal-bedded siltstone, stylolitic basal contact; crinoids, bryozoan fronds, scattered fossils in the upper part; horizontal bioturbation; light- to dark-gray

(110.05) Bioturbated horizontal-bedded argillaceous dolostone, gradational basal contact; becomes calcareous in the upper part; scattered crinoid grains; horizontal and vertical bioturbation; light- to medium-greenish-gray

(114.3) Fossiliferous horizontal-bedded grainstone to argillaceous limestone, irregular basal contact; crinoids, thin-walled brachiopods, glauconite and pyrite; decreasing fossil content upwards; light- to medium-greenish-gray

(114.7) Fossiliferous horizontal-bedded grainstone to argillaceous limestone, sharp basal contact; medium- to coarse-grained; crinoids, miscellaneous fossil debris at base and more argillaceous at the top; light- to medium-greenish-gray

(115.45) Fossiliferous horizontal-bedded grainstone to argillaceous limestone, irregular basal- contact; medium- to coarse-grained; crinoids, and miscellaneous fossil debris; light- to medium-greenish-gray

(115.95) Fossiliferous massive grainstone, stylolitic basal contact; coarse crinoidal debris, silicified grains, glauconite; light-gray

(116.2) Bioturbated horizontal-bedded argillaceous dolostone, stylolitic basal contact; few scattered crinoids near the top of the unit; horizontal and vertical bioturbation; scattered silicified zones and two large geodes; light- to medium-greenish-gray

(122.8) Bioturbated and fossiliferous horizontal-bedded argillaceous limestone, stylolitic basal contact; scattered crinoids; argillaceous partings; large-scale vertical and horizontal bioturbation; thin black siltstone at the base; light- to dark-gray

(124.75) Fossiliferous massive grainstone, irregular basa contact; medium-grained; crinoids, spicules(?), thin-walled brachiopods, glauconite; light- to medium-gray

(126.2) Fossiliferous massive grainstone, stylolitic basal contact; medium- to fine-grained; crinoids, spicules(?), brachiopods, scattered glauconite; concentrated argillaceous horizons near the base and along microstylolites; light-gray

(128.2) Bioturbated horizontal-bedded argillaceous dolostone, stylolitic basal contact; horizontal and vertical bioturbation; scattered small geodes; light- to medium-brownish-gray

(130.7) Fossiliferous massive chert, irregular basal-contact; crinoids, small geodes; light- to medium-gray

(130.95) Bioturbated and fossiliferous massive argillaceous dolostone, stylolitic basal contact; scattered silicified crinoids grains; small geodes and silicified grains; medium-brownish-gray

(133.55) BORDEN GROUP, Edwardsville Formation
Bioturbated horizontal-bedded siltstone; porous; horizontal bioturbation and large vertical burrows; medium- to dark-gray