Site Name: SDH441 (Jennifer Cardwell) Brian D. Keith and Todd A. Thompson By: Location: NE1/4NE1/4SE1/4 sec. 10, T. 3 N., R. 2 E. Notes: Campbellsburg quadrangle, Washington County UTMX: 563175.80, UTMY: 4284779.00, Zone: 16 775.0000 Feet Elevation: Elevation mwf pgrb Feet csvfmcvg780.0 (-5.0)(0) Unconsolidated not described and not present/recovered; soil 770.0 (5.0)(12.2) SANDERS GROUP, Salem Limestone Fossiliferous massive and horizontal-bedded grainstone and packstone, gradational basal contact; possible 760.0 Endothyra in upper part; ground-up skeletal material; weathered extensively; variable oil staining and (15.0)porosity throughout; medium-brownish-gray 750.0 (25.0)25/3 & (25.9) Bioturbated and fossiliferous horizontal-bedded argillaceous limestone, stylolitic basal contact; ground-up fine fossil debris; horizontal and vertical bioturbation; medium-brownish-gray 740.0 (35.0)(41.2) Fossiliferous massive chert, stylolitic basal contact; fossil debris; several dark silicified clasts; tannish-gray 730.0 (41.35) Fossiliferous and bioturbated horizontal-bedded and rhythmic-bedded argillaceous limestone, (45.0)gradational basal contact; crinoids, bryozoans, brachiopod debris; possible tidalites in upper part; horizontal and vertical bioturbation; organic and argillaceous wisps throughout the unit; horizontal and vertical bioturbation; oil-stained and porous in places; medium- to dark-gray (49.8) Fossiliferous and bioturbated massive grainstone, stylolitic basal contact; very fine fossil debris; occasional organic wisps; stacked microstylolites with organics at the base of the unit; medium-brownish-720.0 (55.0)(61) Fossiliferous massive grainstone, sharp basal contact; coarse grained; crinoids, bryozoans, abundant Endothyra, some brachiopods; few stylolites; intergranular and moldic porosity throughout; 710.0 medium- to dark-gray (65.0)700.0 (75.0)690.0 (85.0)(93.15) Fossiliferous massive grainstone, stylolitic basal contact; fine-grained; thin coatings on grains of 680.0 Endothyra, crinoid and brachiopod debris; light- to medium-tannish-gray յելեր A CO (95.0)(94.85) Fossiliferous massive grainstone, sharp basal contact; very coarse grained; brachiopods, crinods, B and bryozoan debris; light- to medium-gray (95.4) Fossiliferous massive grainstone, stylolitic basal contact; finer-grained than above with occasional gastropods, thin-walled brachiopods, ground-up bryozoans, crinoids; light-gray (96.5) Fossiliferous horizontal-bedded packstone, stylolitic basal contact; thin-walled brachiopods, crinoids, some bryozoans; variable mud content; more grain-rich near the top of the unit; medium-gray 670.0 (98.35) Fossiliferous and bioturbated horizontal-bedded argillaceous limestone, irregular basal contact; (105.0)crinoids, some bryozoans, and miscellaneous skeletal material; organic wisps and horizontal bioturbation; light- to medium-greenish-gray (102.1) Bioturbated horizontal-bedded siltstone, gradational basal contact; increasingly calcareous downward; horizontal bioturbation; medium- to dark-brownish-gray (103.25) Bioturbated horizontal-bedded argillaceous limestone, irregular basal contact; occasional crinoidal grains; horizontal bioturbation; increasing silt content upward; this unit and one above are a 660.0 continuum; medium- to dark-brownish-gray @ 25% (115.0)(104.35) Fossiliferous horizontal-bedded argillaceous limestone, stylolitic basal contact; abundant crinoid and occasional brachiopod debris; chert nodule in the middle of the unit; dark-gray (104.9) Fossiliferous horizontal-bedded argillaceous limestone, stylolitic basal contact; thinly laminated; occasional crinoid; medium- to dark-gray 2 (105.2) Fossiliferous massive chert, irregular basal contact; fossils not identifiable; light-gray 25% (105.35) Fossiliferous massive grainstone, stylolitic basal contact; fine crinoids with bryozoan debris, bryozoan fronds increase toward the base of the unit; medium-gray 650.0 (125.0)(106.65) Harrodsburg Limestone Fossiliferous massive grainstone and packstone, stylolitic basal contact; abundant bryozoan fronds throughout, crinoids, and variable mud content; probable bryozoan holdfast at 107.8-107.9 ft; light- to medium-gray (114.4) Fossiliferous and bioturbated horizontal-bedded argillaceous limestone, stylolitic basal contact; crinoids and miscellaneous skeletal debris; greenish argillaceous wisps; two large geodes with pink calcite in the upper 1 ft of the unit; stacked microstylolites and organic residue at the base of the unit; light 640.0 to medium-greenish-gray (135.0)(117.7) Fossiliferous massive grainstone, stylolitic basal contact; crinoids and bryozoan fronds throughout; some carbonate mud near the top of the unit; multiple stylolites near the base; light-gray (120.2) Fossiliferous and bioturbated horizontal-bedded argillaceous limestone, irregular basal contact; crinoids and Syringopora coral fragments; argillaceous partings concentrated in the upper part; light- to (120.6) Fossiliferous horizontal-bedded siltstone, stylolitic basal contact; calcareous; occasional crinoid 630.0 and Syringopora coral fragments; medium- to dark-gray (145.0)(120.75) Fossiliferous massive packstone, irregular basal contact; abundant crinoids and miscellaneous skeletal debris; light- to medium-gray (122) Fossiliferous horizontal-bedded siltstone, stylolitic basal contact; calcareous; bryozoan fragments; medium- to dark-gray (122.15) Fossiliferous and bioturbated massive packstone and grainstone, stylolitic basal contact; variable mud content; abundant bryozoan fronds, crinoids, and other ground-up bryozoan debris; several thin 620.0 siltstone beds and stylolites from 131.1-131.25 ft; light- to medium-gray (155.0)(132.9) Fossiliferous horizontal-bedded grainstone to argillaceous limestone, stylolitic basal contact; medium to fine crinoids in the lower part with increasing bryozoan fronds in the upper part with more argillaceous content; graded bed; medium-gray (135.6) Ramp Creek Formation Fossiliferous horizontal-bedded siltstone, irregular basal contact; fine crinoids in the lower part; darkgreenish-gray (135.7) Fossiliferous massive grainstone, stylolitic basal contact; medium to fine crinoids; bryozoan 610.0 fronds, pyrite; medium-greenish-gray (165.0)(135.9) Horizontal-bedded siltstone, irregular basal contact; irregular-shaped carbonate nodule in the middle of unit; dark-greenish-gray (136.15) Fossiliferous and bioturbated horizontal-bedded argillaceous limestone, stylolitic basal contact; medium to fine crinoids, increasingly more argillaceous upwards; some pyrite in the lower part; mediumgray to medium-greenish-gray (136.35) Fossiliferous horizontal-bedded siltstone, stylolitic basal contact; fine crinoids and scattered 600.0 bryozoan fronds; small geode in the middle; dark-gray to medium-greenish-gray (175.0)(138.3) Fossiliferous massive grainstone, stylolitic basal contact; fine crinoids, some bryozoans, and miscellaneous fossil debris, glauconite; medium-gray (141.75) Fossiliferous horizontal-bedded siltstone, stylolitic basal contact; fine crinoids; calcareous; medium- to dark-greenish-gray (141.95) Fossiliferous horizontal-bedded grainstone, stylolitic basal contact; medium to fine crinoids, brachiopod debris, one horn coral, bryozoan debris at base, glauconite; medium-gray (143.6) Bioturbated horizontal-bedded argillaceous limestone, stylolitic basal contact; miscellaneous fossil debris, fine crinoids; one geode; medium-greenish-gray (144.6) Fossiliferous horizontal-bedded grainstone, irregular basal contact; medium to fine crinoids, brachiopods, miscellaneous fossil debris; large geode near the base; medium-gray (145.7) Fossiliferous and bioturbated horizontal-bedded argillaceous limestone, sharp basal contact; medium to fine crinoids in upper 2/s, some horizontal bioturbation in upper part; medium- to dark-gray (146.6) Bioturbated horizontal-bedded argillaceous dolostone, gradational basal contact; horizontal bioturbation; large geode in the middle of unit; light-greenish-gray (151) Fossiliferous horizontal-bedded siltstone, stylolitic basal contact; medium crinoids at the base; slightly calcareous; greenish-gray to dark-brownish-gray (151.1) Fossiliferous massive grainstone, gradational basal contact; very fine grained with medium crinoids and brachiopod debris at the base; light-greenish-gray (151.95) Bioturbated horizontal-bedded argillaceous dolostone, stylolitic basal contact; horizontal bioturbation, a few crinoids at the base; light-greenish-gray (153.15) Fossiliferous horizontal-bedded argillaceous limestone, stylolitic basal contact; medium to fine crinoids, some brachiopod debris; medium-gray (153.8) Fossiliferous massive grainstone, irregular basal contact; coarse to medium crinoids with large horn coral at the base grading to fine-grained at the top of the unit; medium-gray (154.25) Fossiliferous and bioturbated horizontal-bedded argillaceous limestone, gradational basal contact; few coarse crinoids in the middle with fine crinoids throughout; medium-gray (154.95) Fossiliferous massive grainstone; medium to fine crinoids; multiple stylolites in the lower part; (155.3) Bioturbated and fossiliferous horizontal-bedded argillaceous dolostone, stylolitic basal contact; siliceous patches with medium to fine crinoids in the patches; horizontal bioturbation; scattered small geodes in the middle; light- to medium-greenish-gray (163.65) Fossiliferous and bioturbated horizontal-bedded argillaceous limestone, stylolitic basal contact; few coarse crinoids but mostly medium to fine crinoids, some crinoids silicified in the lower part; light- to medium-greenish-gray (164.9) Flaser-bedded lime mudstone; medium to fine crinoids; dark-gray (165.1) Fossiliferous massive packstone, stylolitic basal contact; medium to fine crinoids; thin argillaceous laver at the base between stylolites: medium-gray (165.35) Fossiliferous massive chert, sharp basal contact; medium to fine crinoids; light- to medium-gray (165.5) Fossiliferous massive packstone, stylolitic basal contact; fine crinoids, partially silicified; thin argillaceous layer between stylolites at the base; light- to medium-gray (165.6) Fossiliferous massive grainstone, stylolitic basal contact; medium to fine crinoids, and miscellaneous fossil debris; thin argillaceous layer in middle and at the base; medium-gray (166.65) Horizontal-bedded grainstone to argillaceous limestone; coarse to fine crinoids at the base with thin-walled brachiopods, fossils fine upwards; argillaceous in the upper part with large horizontal and vertical burrows with crinoid debris; medium-gray (168.15) Fossiliferous horizontal-bedded argillaceous limestone, irregular basal contact; coarse to fine crinoids, some brachiopod debris; medium-gray (168.6) Fossiliferous and bioturbated massive grainstone, stylolitic basal contact; fine crinoids at the base with medium to fine crinoids in the upper part; thin siltstone between stylolites at the base; medium- to lightgray (169.35) Fossiliferous massive chert, stylolitic basal contactcoarse to fine crinoids and miscellaneous fossil debris, glauconite and pyrite; light- to medium-gray (169.65) BORDEN GROUP, Edwardsville Formation

Bioturbated massive sandstone; horizontal-bedded from 170.65-171.1 ft; large vertical burrow from 174-175 ft otherwise horizontal bioturbation; lower very fine grained sand; flattened burrows or mud chips; light-

greenish-gray

ID Number:

166289

Date:

8/27/2010