

ROUGE OIL COMPANY No. 1 Hensley Sutton

Lee County, Virginia

Samples examined and described by Louise B. Clarkson, April 1954

ORDOVICIAN

Reedsville

- 2712-16 Limestone, light gray, very finely silty, some almost calcareous siltstone in grain size. Large fragments, probably not in place, are of dark red shale and green, finely sandy shale.
- 2716-26 Limestone as above; some slightly calcareous dark gray dense siltstone.
- 2726-32 Limestone, gray, fossiliferous, finely silty as above; shale, dark gray-green, slightly calcareous.
- 2732-58 Siltstone, calcareous, gray; some very dark greenish gray with fossiliferous fragments common.
- 2758-67 Siltstone, as above, calcareous, argillaceous, very fine grained, dark gray; trace green and red shale.
- 2767-73 Siltstone as above; some dark red; trace lighter gray more calcareous siltstone (texture of limestone).
- 2773-2815 Siltstone, very slightly argillaceous and slightly calcareous, all red.
- 2815-21 Shale, slightly calcareous, only slightly silty, red (some hematite color).
- 2821-52 Siltstone as above the red shale break.
- 2852-72 Siltstone, very fine grained as above; more gray green to slightly red; occasional fragments of limestone.
- 2872-81 Limestone, some finely silty, slightly fossiliferous with interbedded calcareous gray shale.
- 2881-2903 Limestone, argillaceous, gray-brown, fossiliferous (ostracodes) with interbedded calcareous, dark gray shale.
- 2903-21 Limestone, rather fine grained, gray-brown, brachiopod and bryozoan fragments and calcareous dark gray shale.
- 2921-34 Limestone as above, some slightly phosphatic.
- 2934-55 Limestone as above with some brownish red, very finely silty limestone (less red than the red shales above).
- 2955-74 Limestone, fossiliferous, fine grained, and dark gray calcareous shale.
- 2974-86 As above with many bryozoan fragments.
- 2986-3018 Limestone as above, some finely silty fossiliferous shale; many bryozoan fragments.
- 3018-26 Siltstone, slightly calcareous, argillaceous; some dark dense fossiliferous shale and some limestone as above.

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- 3026-45 Limestone, argillaceous, fossiliferous dark gray; shale silty and calcareous.
- 3045-3100 Limestone, coarsely silty, gray; calcareous very dark gray shale; some shale dark gray fissile; rare brownish red.
- 3100-25 Limestone, coarsely silty gray as above; shale, calcareous to fissile, dark gray to brown.
- 3125-35 Siltstone, coarse grained, gray, very slightly calcareous; limestone, light gray, fossiliferous, phosphatic; much very dark gray calcareous to fissile shale.
- 3135-45 As above with much dark gray shale.
- 3145-55 Limestone, more fossiliferous, gray-brown with fine grained matrix.
- 3155-66 Shale, silty and calcareous as above; very dark green to black.
- 3166-3205 Siltstone, slightly calcareous, very argillaceous, gray with shale as above.
- 3205-35 Shale as above; siltstone, calcareous, with some fossiliferous limestone.
- 3235-72 Shale, very dark gray to black, coarse grained with little dense fossiliferous gray-brown limestone.
- 3272-3300 Limestone, light gray-tan, fossiliferous, phosphatic; mainly dark gray shale with rare fragments of green shale.
- 3300-28 Limestone, gray-brown, argillaceous, fossiliferous; very dark calcareous shale.
- 3328-84 Limestone, gray-brown, very fossiliferous, phosphatic, dense with interbedded shale as above.
- Trenton 7f-1892'k
- 3384-3406 Limestone, dark gray-brown, dense with ostracodes and some gray micro-mottled chert.
- 3406-29 Limestone, argillaceous, dense, gray-brown, fossiliferous with a little interbedded calcareous shale.
- 3429-45 Limestone as above, ostracodal; some interbedded black shale.
- 3445-70 Limestone, very fossiliferous, brownish gray, phosphatic; some black shale.
- 3470-95 Limestone, finer than above, browner, still some dark shale as above.
- 3495-3514 Limestone as above with some gray mottled chert.
- 3514-27 Limestone, dense brown finely crystalline; some shale as above. (Fragments so finely broken that exact texture and possible porosity is obscured.)
- 3527-67 Limestone, cleaner than above, still gray-tan, more fossiliferous.

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- 3567-3604 Limestone, light and dark brown, fine grained with many ostracodes; trace brown chert.
- 3604-24 Limestone, gray-brown, finely fossiliferous; trace dark shale.
- 3624-45 Limestone, brown, dense, fine grained to slightly fossiliferous; trace dark shale as above.
- 3645-65 Limestone, brown, dense, fine grained; rare dark shale and brown chert.
- 3665-75 Limestone, gray-brown, fine grained, fossiliferous with much calcareous dark shale.
- 3675-87 Limestone, very fine grained, slightly gray-brown, less argillaceous than that above.
- 3687-3722 Limestone, very fine grained, gray-brown, slightly fossiliferous; trace black calcareous shale and light brown chert.
- 3722-49 Limestone, very fine grained, slightly fossiliferous, slightly argillaceous with dark shale as above.
- 3749-61 Limestone, slightly gray-brown, very fine grained, vaughanitic; rare pale gray chert.
- 3761-90 Limestone, dark gray fine grained; much dark calcareous shale; rare chert as above.
- 3790-3800 Limestone, slightly grayer and more fossiliferous than above; chert rare.
- 3800-13 Limestone, pale gray, more fossiliferous, some shale as above.
- 3813-36 Limestone, dark slightly brownish gray, fine grained, slightly fossiliferous; rare silt in residue.
- 3836-61 Limestone, light gray, fossiliferous; some shale as above. All these samples are very finely broken and exact crystallinity or porosity not apparent.
- 3861-88 Limestone, fossiliferous, gray, some phosphatic inclusions.

Eggleston

- 3888-98 Limestone, fine grained, slightly fossiliferous, gray-brown; more fine grained calcareous dark gray shale.
- 3898-3907 Limestone as above with some shale as above; some bentonitic shale.
- 3907-31 Limestone, brownish gray, dense, fossiliferous with some dark gray calcareous shale.
- 8931-68 Limestone, gray-tan, very fossiliferous, crystalline; shale gray fossiliferous calcareous; some dark shale shows evidence of polish or slickensides.
- 3968-79 Limestone, finer grained than above, slightly argillaceous, gray-brown.

Call from broken 10-1-54

3 days before Pella thinks there is a
 dip south of the Section well (G-52) (W.S. 29)
 Column log quad 161 SW - W.S. 85 n.p. 20 and
 76-2) and the corresponding well about
 1200' SE of Brooks well (G-3) (W.S. 210 n.p.
 20 or 12 n.p. 76-2)
 will call me Monday Oct 4,

Well Study as follows:

	Elev.	Clark n.p. 52 1/2	Trenton n.p. 52 1/2
Brooks (G-3)	1445 13	2029 - 584	2933 - 1488
Sutton (G-52)	1502	1763 - 261	3384 - 1882
BC Fwy 62 W.S. 6-15 115-9	1490		800 + 690

Refer to Sect A-A' on W.S. 117 76-1

at my notes of 5-21-54

Admission:

- 1 - on Charles Branch about 3500' east of Brooks well and drill for gas and/or oil
- 2 - on Leah Branch go to first pond just north of Brown School, about 6500' west of Brooks well and drill for Engage gas
- 3 - on Faurinle Cwh go to first western branch south of Culbert's Fwy (well G-13). Go up this branch about 2500' and drill for Treplay, Eggerton and Lowville oil.