

(5263)
F. R. Hart No. 1 Well

Slate District, Wood County, W. Va.

By United Fuel Gas Company, Charleston, W. Va.

Located 0.57 mi. S. of 39° 10' and 0.07 mi. W. of 81° 30' - EC - Belleville
 Quadrangle.

Elevation, 638.10' L.

Permit Woo-136.

Drilling commenced May 11, 1943; completed Aug. 21, 1943.

Dry hole.

Water, 464', 1/2 bailer per hour; 990-1007'; 1191', 1 bailer per hour.

Section based on samples from 1466 to 4945' examined by J. H. C. Martens,
 omitting most of Devonian Shales. Survey also has samples from
 55 to 1466'.

Pottsville Formation, 76+ feet

Thick-
 Top. Bottom. ness.

1466 1542 76 Sandstone, white, medium- to coarse-grained

Greenbrier Limestone, 88 feet

1542 1560 18 Limestone, very light brown
 1560 1570 10 Limestone, very light brown, dolomitic
 1570 1573 3 Limestone, very light brown, oolitic and sandy
 1573 1592 19 Sandstone, nearly white, medium-grained, calcareous;
 larger grains are rounded and frosted
 1592 1604 12 Limestone, very light brown, oolitic and somewhat sandy
 1604 1630 26 Dolomite, nearly white, porous, slightly sandy

Potomac Formation, 465 feet

1630 1646 16 Shale and siltstone, gray
 1646 1658 12 Sandstone, light-gray, fine with a few coarse grains;
 also some gray shale and siltstone
 1658 1670 12 Shale, gray, silty
 1670 1692 22 Shale and siltstone, gray
 1692 1717 25 Sandstone, light-gray and brown, fine, 80%; gray shale,
 20%
 1717 1736 19 Shale and siltstone, gray

Top.	Bottom.	Thick- ness.	
1736	1742	6	Sandstone, light-gray and brown, 70%; gray silty shale, 30%
1742	1769	27	Shale, gray, silty, 70%; light-gray siltstone and very fine sandstone, 30%
1769	1829	60	Sandstone, light-gray and light-brown, very fine, 80%; gray silty shale, 20%; contains a few fossil shells
1829	1875	46	Siltstone, light-gray, 80 to 90%; darker gray silty shale, 20 to 10%
1875	1912	3 ⁷ ₈	Shale and siltstone, gray
1912	1934	22	Shale, dark-gray, with some gray to brownish siltstone
1934	1957	33	Shale, dark-gray, with siderite concretions
1957	1974	17	Siltstone, gray, fossiliferous, 60%; gray shale, 40%
1974	2010	36	Shale, dark-gray, with smaller amounts of fine gray siltstone
2010	2056	46	Shale, dark-gray, silty, 60%; gray, fine, siltstone, 40%
2056	2064	8	No sample
2064	2085	21	Shale, dark-gray, silty, 70%; gray siltstone, 30%
2085	2095	10	No sample; the Berea Sandstone and Subbury Shale are probably in this interval, since the next sample contains small amounts of black shale and very fine white sandstone with specks of pyrite

Devonian Shales, 2604 feet

2095	2178	83	Siltstone and silty shale, gray
2178	2195	17	Shale, dark-gray, with some siltstone
2195	2252	57	Siltstone, light-gray to nearly white, sandy, 60%; gray shale, 40%
2252	2283	31	Shale and siltstone, gray; much less siltstone than above and below
2283	2338	55	Siltstone, light-gray, rather sandy, 60 to 70%; gray shale, 40 to 30%
2338	4680	2342	Samples not described

Thick-
Top. Bottom. ness.

4680 4699 19 Shale, very dark brownish-gray to black

Huntersville Chert, 141 feet

4699 Top of "Corniferous" in driller's record.

4700 4702 2 No sample

4702 4709 7 Limestone, brown, cherty; also some brown siltstone
with much biotite

4709 4713 4 No sample

4713 4840 127 Chert and cherty limestone, brown, light-brown, and
light-gray; a little glauconite near bottom

Oriskany Sandstone, 42 feet

4840 4870 30 Sandstone, light-gray to white, fine- to medium-grained,
moderately calcareous

4870 4882 12 Sandstone, gray to brownish, fine- to medium-grained,
calcareous

Helderberg Limestone, 63+ feet

4882 4889 7 Limestone, light-gray, sandy, fossiliferous

4889 4908 19 Limestone, light-gray and light-brown, cherty,
fossiliferous

4908 4918 10 Limestone, brown, very cherty

4918 4922 4 Limestone, brown, shaly

4922 4945 23 Limestone, brown to brownish-gray, cherty

4946 Total depth.