

3 inches

HAN-45

Tomlinson Run State Park No. 1 Well

Clay District, Hancock County, W. Va.

By John T. Galey, Grant Building, Pittsburgh, Pa.

Located 2.8 mi. S. of 40° 35' and 0.5 mi. W. of 80° 35' - 5C - Wellsville Quadrangle

Elevation, 890.97' L., (D.F.)

Permit HAN-45

Drilling commenced June 15, 1944; completed Aug. 26, 1944

13" casing, 16'; 10", 382'; 8 1/4", 768'

Dry hole?

Section based on samples from surface to 4619', examined by J. H. C. Martens, omitting most of Devonian Shale section. The location of the base of the Pottsville at 325 feet is very doubtful.

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Top	Bottom	Thickness	Allegany and Pottsville Formations, 325 feet
0	15	15	Sand, yellow, medium-grained
15	24	9	Sandstone, light-gray, medium-grained
24	35	11	Shale, dark-gray to black
35	36	1	Coal
36	43	7	Clay, nearly white, soft
43	78	35	Siltstone, gray, shaly, micaceous, with many siderite spherulites
78	93	15	Siltstone, gray
93	114	21	Siltstone, ^{dark-} gray, fine and shaly
114	118	4	Shale, dark-gray
118	122	4	Shale, gray to brown dark-gray, partly calcareous, 80%; gray to brown fossiliferous limestone, 20%
122	129	5	Shaly, gray to dark-gray
129	139	12	Siltstone and silty shale, gray
139	145	6	Shale, dark-gray with thin streaks of coal, 50%; nearly white, silty, micaceous shale, 50%

Top	Bottom	Thickness	
145	187	42	Sandstone, nearly white, fine
187	193	6	Shale, black
193	199	6	Shale, gray, with siderite concretions
199	205	6	Limestone, gray to brown, impure, fossiliferous, 40%; gray shale, 40%; siderite, 10%; coal, 10%
205	212	7	Shale, black, silty
212	236	24	Siltstone, light-gray, sandy, with siderite spherulites
236	241	5	Sandstone, nearly white, fine
241	264	23	Shale, dark-gray, silty
264	276	12	Shale, black
276	309	33	Siltstone, gray, shaly
309	313	4	Shale, black, silty, 85%; gray, fine sandstone, 10%; coal, 5%
313	325	12	Sandstone, white, medium-grained <u>Pocono Formation, 443 feet</u>
325	342	17	Shale, very dark gray, silty, with siderite concretions

Top	Bottom	Thickness	
342	348	6	Shale, light-brown, silty
348	354	6	Siltstone, gray, sandy, carbonaceous
354	365	11	Shale, very dark gray
365	371	6	Shale, black, silty
371	387	16	Shale, gray, with a few siderite spherulites
387	393	6	Shale, gray, with siderite concretions, 60%; white, coarse siltstone, 40%
393	413	20	Shale, gray
413	431	18	Siltstone, gray, shaly
431	437	6	Shale, gray, soft
437	448	11	Shale and siltstone, gray
448	499	31	Siltstone, gray, shaly, with small amount of gray shale
499	492	13	Shale and siltstone, gray
492	499	7	Siltstone, light-gray, coarse
499	560	61	Siltstone and shale, gray

Top Bottom Thickness

560	565	5	Siltstone, gray
565	610	45	Siltstone and silty shale, gray
610	666	56	Siltstone, light-gray, with small amounts of darker gray shale
666	682	16	Shale, dark-gray, 80%; gray siltstone, 20%
682	690	8	Shale, dark-gray, 60%; gray siltstone, 40%
690	720	30	Shale, very dark gray (Sunbury Shale)
720	730	10	Sandstone, white, very fine; also some white siltstone (Berea, 720-768')
730	736	6	Siltstone, very light gray
			Devonian Shales, 3662 feet
736	768	32	Siltstone, light-gray to nearly white with small amounts of gray shale (this may belong with Berea)
			<u>Devonian Shales, 3630 feet</u>
768	825	57	Siltstone and silty shale, gray to grayish-green
825	832	7	Shale, green, very silty, 80%; red silty shale, 20%
832	839	17	Shale and siltstone, grayish-green
839	860	21	Shale and siltstone, grayish-green, 90%; red silty shale, 10%

Top	Bottom	Thickness	
1114	1142	28	Shale and siltstone, gray to grayish-green
1142	3998	2856	Samples not examined
3998	4112	114	Shale, dark-gray
4112	4125	13	Shale, black
4125	4219	94	Shale, dark-gray to very dark gray
4219	4233	14	Shale, very dark brownish-gray, calcareous
4233	4250	17	Shale, very dark brownish-gray, slightly calcareous
4250	4262	12	Shale, black and dark-gray, 70%; brown, very fine textured limestone, 30%
4262	4328	56	Shale, black, calcareous
4328	4398	70	Shale, black, slightly calcareous <u>Huntersville Chert, 206 feet</u>
4398	4604	206	Chert and cherty limestone, light-gray and light-brown <u>Oriskany Sandstone, 15+ feet</u>
4604	4619	15	Sandstone, white, fine to medium-grained
	4619		Total depth