

Hancock - 5

Rachel E. Talbot No. 1 Well

GRANT Dist., Hancock Co.

Record based on examination of samples

Depth, feet from	to	Thickness, feet	
Conemaugh formation 230 feet			
0	20	20	Sandstone, brown, fine, with some shale
20	26	6	Shale, sandy, gray and brown
26	31	5	Shale, gray, with considerable impure limestone
31	39	8	Shale, gray with some red, soft; some gray limestone
39	47	8	No sample
47	51	4	Shale, red and gray soft
51	65	14	Sandstone, gray, fine, shaly, micaceous
65	97	32	Shale, gray, partly sandy, micaceous
97	105	8	Shale, red, calcareous
105	110	5	Shale, gray, micaceous
110	127	17	Sandstone, light-gray, fine with some shale
127	131	4	Sandstone, gray, fine, shaly; darker than last
131	135	4	Shale, gray, sandy, micaceous
135	144	9	Shale, black, micaceous, somewhat sandy
144	145	1	Coal (reported by driller, does not show in samples)
145	169	24	Shale, dark-gray to black; a little limestone in lower part of this interval
169	179	10	Sandstone, grayish-green, shaly, with some clay or soft shale
179	184	5	Shale, gray, sandy
184	199	15	Sandstone, gray, with some darker gray sandy shale
199	204	5	Shale, gray
204	211	7	Coal and gray shale
211	223	12	Shale, gray, sandy
223	228	5	Shale, gray, calcareous

Depth, feet from	to	Thickness, feet	
<b>Allegheny, Pottsville and Pocono formations 809 feet</b>			
228	235	7	Limestone, gray, very clayey
235	252	17	Shale, light-gray and light-green
252	280	28	Sandstone, gray very fine, shaly
280	319	39	Sandstone, light-gray, medium- to fine-grained
319	324	5	Shale, black, with some gray
324	337	13	Shale, gray
337	361	24	Shale, dark-gray to black, lower part very sandy and micaceous
361	422	61	Sandstone, light-gray, medium-to fine-grained, with streaks of black carbonaceous shale and sandstone
422	435	13	Shale, black and gray
435	460	25	Shale, gray, sandy, micaceous
460	466	6	Sandstone, gray, shaly, calcareous
466	523	57	Shale, dark-gray to black, partly sandy
523	530	7	Shale, light-gray, and fine sandstone
530	564	34	Shale, gray to grayish-green, mostly sandy
564	607	43	Shale, dark-gray, sandy, micaceous
607	627	20	Shale, dark-gray to black, partly sandy
627	644	17	Sandstone, gray, fine
644	680	36	Shale, gray with thin streaks of sandstone
680	719	39	Shale, mostly dark-gray to black with some light-gray
719	738	19	Shale, about half black and half light-gray
738	755	15	Shale, gray, with some sandstone
755	791	36	Shale, gray, and fine shaly sandstone
791	799	8	Shale, about half black and half light-gray
799	818	19	Shale, gray, partly sandy
818	915	97	Shale, gray, with much interbedded fine gray sandstone
915	939	24	Shale, gray to grayish-green, sandy
939	947	18	Sandstone, gray to slightly greenish, very fine, shaly
947	972	25	Shale, gray to grayish-green, sandy
972	1049	77	Sandstone, gray fine to very fine, shaly interbedded with siltst and shale

Depth, feet from	to	Thickness, feet	
1049	1094	45	Shale, dark-gray, upper part fairly sandy
1094	1137	43	Sandstone, light-gray, very fine (Berea sand, small show of gas)
Devonian shales 3586 feet			
1137	1171	34	Shale, greenish-gray, sandy; some fossil shell fragments
1171	1227	56	Sandstone, greenish-gray, very fine, shaly
1227	1251	24	Shale, grayish-green, sandy
1251	1256	5	Shale red and green
1256	1270	4	Shale, red
1270	1303	33	Shale, gray, with very fine lightish-gray sandstone
1303	1316	13	Shale, red and green, sandy
1316	1329	12	Sandstone, gray very fine
1329	1432	104	Shale, gray with sandy and silty streaks
1432	1481	49	Shale, gray and dark-red
1481	1729	248	Shale, gray to slightly greenish, with large amounts of siltstone and very fine sandstone; some mica and a little carbonaceous material
1729	2148	419	Shale, gray with much siltstone and very fine sandstone
2148	2976	828	Shale gray; the samples from this interval are mostly a mixture of medium-gray and very dark-gray to brownish fragments in varying proportions; on the whole this is darker and less sandy than the preceding interval although there is no sharp boundary and not every sample shows the difference
2976	3256	274	Shale, gray, partly sandy, with some pyrite throughout
3256	3337	81	Shale, dark-gray
3337	3512	226	Shale, gray, some fragments very dark; partly sandy; contains some pyrite partly in small spherical masses
3512	3525	13	Shale, black
3525	3863	338	Shale, gray, partly sandy
3863	4252	389	Shale, gray, very similar to last but probably a little finer textured
4252	4534	282	Shale, black, very dark gray and dark-brown
4534	4568	24	Shale, black, slightly calcareous
4568	4576	17	Shale, black, with some gray limestone

Depth, feet from	to	Thickness, Feet	
4575	4592	17	Shale, black, calcareous
4592	4600	8	Shale, black, calcareous and gray to light-brown very fine textured limestone
4600	4713	113	Shale, black slightly calcareous
4713	4723	10	Shale, dark-gray to black, slightly calcareous
Onondaga limestone (Huntersville chert) 233 feet			
4723	4742	19	Limestone gray to brownish, cherty, somewhat dolomitic with much shale from above; lower part of interval is more cherty
4742	4777	35	Chert, gray, calcareous, and very cherty limestone; after short acid treatment contains a large proportion of porous brown fragments with many small dolomitic crystals, some secondary crystalline quartz
4777	4783	6	Limestone, gray, very cherty, with some small dolomite crystals
4783	4788	5	Chert, dark-gray, calcareous with many small dolomite crystals
4788	4791	3	Chert, dark-gray, partly sandy, with small dolomite crystals and a little glauconite
4791	4798	7	Chert, gray, calcareous, with small dolomite crystals; abundant brown material in insoluble residue
4798	4811	13	Chert, light-gray, highly calcareous, slightly sandy; many small dolomite rhombs
4811	4813	2	Chert, gray, calcareous; strong contrast between gray and brown portions after acid treatment; dolomite crystals prominent
4813	4823	10	Chert, gray, calcareous, partly sandy, with many small dolomite crystals and a very little glauconite
4823	4834	11	Chert, light-gray, calcareous with small dolomite crystals
4834	4857	23	Chert, gray (mostly light-gray) calcareous, partly sandy; contain many small dolomite crystals and a very little sphalerite and glauconite
4857	4864	7	Chert, gray, calcareous with many small dolomite rhombs and a little sphalerite
4864	4907	43	Chert, gray, calcareous, mostly sandy; contains dolomite, a little glauconite and very little sphalerite

Depth, feet from	to	Thickness, feet	
4907	4918	11	Chert, gray, calcareous with many small dolomite rhombs and a very little sphalerite
4918	4920	2	Chert, gray, calcareous, slightly sandy with a little glauconite
4920	4928	8	Chert, gray, calcareous
4928	4938	8	Chert, gray, calcareous, slightly sandy, with many small crystals of dolomite, a very little glauconite and sphalerite
4938	4948	10	Chert and very fine cherty sandstone; mostly dark-gray; moderately to strongly calcareous; contains dolomite, glauconite, pyrite and a little sphalerite; there is an especially high concentration of glauconite at the base, associated with some larger rounded quartz grains which have probably come from the Criskany sandstone.
Criskany sandstone 58 feet			
4968	4978	10	Sandstone nearly white, hard. (There is no gap in the samples corresponding to the interval of 10 feet between the base of the chert and the top of the Criskany, so the difference is apparently due to the manner in which corrections were applied to some of the depths)
4982	4987	5	Sandstone, gray, fine, calcareous; contains some small dolomite crystals
4987	5015	28	Sandstone, dark-gray, very fine, highly calcareous; contains many small dolomite crystals, and very small grains of pyrite, a little chert and a very little glauconite