

ERN-921

J. M. HULL et al No. 1 (1022) well

Poca District, Kanawha County, W. Va.

By Godfrey L. Cabot, Inc., Charleston, W. Va.

Located 0.28 mi. S. of 36°30' and 2.3 mi. W. of 81°40' - MW - Charleston
Quadrangle.

Elevation 697.11' L.

Permit Kan - 921

Drilling commenced April 22, 1942; completed July 28, 1942.

Shot July 29, 1942; depth 4740-4763'.

Gas well, volume after shot 4,927,000 cu. ft.

Rock pressure, 1850 lbs. in 25 hours.

Fresh water, 30', 1/2 blr.

Salt water 1065-1070', water level 200'.

10 1/2" casing, 601'; 8 5/8", 1760'; 7", 4057'; 2 3/8" tubing, 4769'.

Section based on samples from 20 to 4801', examined by C. N. Apscuri; most of
Devonian Shale not described.

Pennsylvanian, 1557 feet

Top	Bottom	Thickness	
0	20	20	"Surface"
20	60	40	Siltstone, green, sandy, with specks of siderite, 70%; light-gray shale, 30%
60	100	40	No samples
100	112	12	Shale, green, clayey
112	117	5	Siltstone, green, sandy, with specks of siderite
117	140	23	Shale, red and yellow, clayey
140	167	27	Shale, green
167	175	8	Shale, red, with limy concretions
175	183	8	Sandstone, green, shaly
183	215	32	Sandstone, white, very fine, micaceous
215	228	13	Sandstone, white, fine - to medium-grained
228	234	6	Shale, light-green, 50%; red shale, 50%
234	264	30	Shale, red, with limy concretions
264	312	48	Shale, gray, clayey, containing limy concretions
312	361	49	Sandstone, white
361	368	7	Sandstone, white, very fine, pyritic
368	408	40	Sandstone, white, medium-grained
408	420	12	Sandstone, white, fine to medium-grained

Top	Bottom	Thickness	
420	435	15	Shale, gray
435	442	7	Siltstone, and shale, gray
442	464	22	Shale, gray to brownish
464	471	7	Shale, light greenish gray, with siderite spherulites
471	478	7	Shale, gray, 60%; white, very fine sandstone, 40%
478	503	25	Sandstone, white, fine
503	520	17	Shale, brownish-gray
520	532	12	Shale, nearly white, 75%; brown shale, 25%
532	572	40	Sandstone, white
572	592	20	Shale, gray
592	720	128	Sandstone, white, fine to very fine; contains muscovite, biotite, chlorite, and siderite
720	740	20	Shale, gray
740	752	12	Siltstone, white, sandy; contains siderite spherulites, mica and chlorite
752	770	18	Sandstone, white, fine; contains siderite spherulites, mica and chlorite
770	792	22	Shale, gray
792	810	18	Shale, light-gray, 60%; brown very fine sandstone, 40%
810	823	13	Shale, gray
823	841	18	Shale, gray, 70%; white siltstone and very fine sandstone
841	870	29	Shale, gray
870	875	5	Siltstone, white, sandy; with some dark shale and a little coal
875	882	7	Siltstone, very light gray, sandy
882	900	18	Shale, gray
900	908	8	Siltstone, very light gray, sandy, 60%; gray shale, 40%
908	927	19	Siltstone, very light gray, sandy
927	935	8	Shale, very light gray
935	944	9	Sandstone, white, very fine
944	951	7	Shale, gray, carbonaceous
951	958	7	Siltstone, white, sandy, 75%; gray shale, 25%
958	966	8	Shale, gray
966	974	8	Shale, very light-brown, 50%; white, very fine sandstone, 25%; very dark gray shale, 25%
974	985	11	Sandstone, white, very fine

Top	Bottom	Thickness	
985	1009	24	Shale, gray to dark-gray
1009	1026	17	Sandstone, white, very fine
1026	1046	20	Shale, and siltstone, gray
1046	1056	10	Siltstone, gray, sandy
1056	1062	6	Sandstone, white very fine
1062	1117	55	Sandstone, white, medium-grained
1117	1235	188	Sandstone, white, mostly fine
1235	1500	215	Sandstone, white, medium- to coarse-grained
1500	1557	57	Sandstone, white, medium - to fine-grained (entire interval, 1056-1557', is described simply as "Salt Sand" in driller's record)

Greenbrier Limestone, 146 feet

1557	1564	7	Limestone, nearly white
1564	1589	25	Limestone, light brown, composed of small round particles resembling oolites
1589	1598	9	Sandstone, white, fine, calcareous
1598	1602	4	Limestone, nearly white, very sandy
1602	1622	20	Limestone, nearly white
1622	1653	31	Limestone, light-brown, oolitic, sandy
1653	1661	8	Limestone, nearly white, of sugary texture, dolomitic
1661	1670	9	Limestone, nearly white, oolitic
1670	1676	6	Limestone, nearly white, very sandy
1676	1689	13	No samples
1689	1694	5	Limestone, nearly white, sandy, dolomitic, and partly oolitic
1694	1703	9	Dolomite, green

Pocahontas Formation, 482 feet

1703	1713	10	Sandstone, light-gray, very fine, 80%; gray shale, 20%
1713	1732	19	Sandstone, white, very fine
1732	1753	21	Shale, gray
1753	1799	46	Shale and siltstone, gray
1799	1835	36	Shale, gray
1835	1873	38	Shale, gray, 50%; white siltstone, 50%
1873	1893	20	Siltstone, white, very sandy
1893	2032	189	Shale, gray
2032	2150	68	Shale, gray, 50%; light-gray siltstone, 50%

Top	Bottom	Thickness	
2150	2167	17	Shale, very dark gray (Sunbury Shale)
2167	2185	18	Sandstone, white, very fine; some pyrite near top (Berea Sandstone)
<u>Devonian Shales, 2453 feet</u>			
2185	2233	48	Shale and siltstone, gray
2233	4500	2267	Samples not described
4500	4577	77	Shale, gray
4577	4638	61	Shale, very dark gray (driller's "brown shale")
<u>Huntersville Chert, 102 feet</u>			
4638	4740	102	Chert and cherty limestone, light-gray to brown
<u>Oriskany Sandstone, 39 feet</u>			
4740	4746	6	Sandstone, white, calcareous
4746	4748	2	Sandstone, white, fine with some coarse grains
4748	4772	24	Sandstone, white, very fine
4772	4779	7	Sandstone, white, highly calcareous
<u>Helderberg Group, 22+ feet</u>			
4779	4784	5	Limestone, brown, very cherty, glauconitic
4784	4799	15	Sandstone, white, fine- to medium-grained
4999	4901	2	Limestone, very light brown, sandy
	4800		Total depth, SLM