

P. S. Lewis No. 1 (806) Well

Banks District, Upshur County, W. Va.

By Cumberland and Allegheny Gas Company, Pittsburgh, Pa.

Located 4.2 mi. W. of 80° 15' and 0.55 mi. S. of 38° 50' - SE - Crawford Quadrangle.

Elevation - 1774', L.

Permit Up - 98

Drilling commenced April 2, 1941; completed May 7, 1941.

Volume 288,000 cu. ft.; rock pressure, 328 lbs in 48 hrs. Fresh water 102 and 984'

10" casing 355'; 8 1/2", 970'; 6 5/8", 1489'

Section based on description by C. Esouri of Sample from surface to 1800'. Description condensed somewhat by J. H. C. Hartens. According to the geologic map of Upshur County. This well starts at about the top of the Allegheny.

<u>Top</u>	<u>Bottom</u>	<u>Thickness</u>	<u>Allegheny and Pottsville, 1075 feet</u>
0	7	7	Shale, yellow, sandy.
7	35	28	Shale, yellow, soft.
35	63	28	Shale, gray
63	71	8	Shale, gray, 75%; brown shaly limestone, 25%
71	79	8	Shale, gray, 75%; gray siltstone, 15%; brown shale limestone, 10%
79	86	7	Shale, reddish, soft
86	93	7	Shale, grayish, green
93	100	7	Shale, light-green, silty
100	121	21	Shale gray, soft
121	142	21	Sandstone, very light green, very fine
142	160	18	Siltstone, yellow, 80%; gray shale, 20%
160	165	5	Coal, 50%; gray shale, 50%
165	175	10	Shale, gray, soft
175	188	13	Sandstone, white, very fine, 50%; very dark gray shale, 45%; coal, 5%
188	188	0	Sandstone, as above, 75%; coal, 25% (Lower Kittinging Coal?)
188	218	30	Sandstone, fine to coarse (Hamwood Sandstone?)
218	226	7	Clay, light-gray
226	247	21	Sandstone, very light gray
247	259	12	Shale, light-brown
259	287	28	Sandstone, white, very fine

<u>Top</u>	<u>Bottom</u>	<u>Thickness</u>	
287	292	5	Shale, brown, soft
292	297	5	Siltstone, gray, micaceous
297	382	85	Sandstone, white, fine to medium-grained, micaceous
382	387	5	Shale, gray, soft
387	442	55	Shale, dark-gray; some coal, 421-428'
442	449	7	Shale and siltstone, gray
449	457	8	Sandstone, white, very fine, silty and shaly
459	479	22	Shale and siltstone, dark-gray; also some very fine white sandstone
479	520	41	Shale, gray to dark-gray
520	535	15	Siltstone, gray, sandy
535	619	84	Shale, gray; small amounts of siltstone and fine sandstone
619	626	7	Shale, dark-gray
626	662	36	Siltstone, gray, shaly; some sandstone near bottom
662	703	41	Sandstone, white, very fine
703	782	79	Sandstone, white, medium-grained
782	819	37	Shale, very dark gray
819	835	16	Shale, light-gray
835	864	29	Siltstone, gray; also some gray shale
864	884	20	Shale, gray
884	891	7	Shale, gray to black, with some coal
891	922	31	Shale, gray to light-brown; siderite spherulites, 906-922'
922	937	15	Siltstone, dark-gray, sandy
937	944	7	Shale, dark-gray and light-brown, with some coal
944	969	25	Sandstone, white, fine, micaceous
969	1000	31	Sandstone, white, fine to coarse
1000	1017	17	Siltstone, very light gray, sandy
1017	1035	18	Shale, light-gray, soft, disintegrating in water
1035	1045	10	Shale, light-gray
1045	1075	30	Sandstone, white, fine to very fine; some large grains of milky quartz

Mauch Chunk Group, 287 feet

1075	1149	74	Shale, red, 80%; green shale, 20%
1149	1166	17	Shale, green

<u>Top</u>	<u>Bottom</u>	<u>Thickness</u>	
1166	1185	19	Shale, red
1185	1228	43	Sandstone, green, very fine, silty, micaceous
1228	1236	8	Siltstone, gray, shaly
1236	1246	10	Shale, greenish-gray, 60%; red shale, 40%
1246	1255	9	Shale, red, 70%; green shaly siltstone, 30%
1255	1260	5	Shale, red, 50%; green siltstone, 35%; white, very fine sandstone, 15%
1260	1270	10	Sandstone, white, very fine
1270	1280	10	Shale, green, 50%; white to greenish very fine sandstone, 40%; red shale, 10%
1280	1290	10	Shale, green and gray, fairly laminated
1290	1309	19	Shale, gray, soft, 60%; limestone, gray, fossiliferous
1309	1327	18	Limestone, gray, fossiliferous
1327	1348	21	Shale, red, 50%; grayish-green shale, 50%
1348	1352	4	Siltstone, grayish-green
1352	1362	10	Shale, gray

Greenbrier Limestone, 210 feet

1362	1372	10	Limestone, brown, slightly dolomitic
1372	1400	28	Limestone, light-brown, oolitic; some green-limestone 1385-1400
1400	1419	19	Limestone, light-brown
1419	1447	28	Limestone, gray to brown, partly oolitic
1447	1457	10	Limestone, white
1457	1484	27	Limestone, light-brown, oolitic, slightly dolomitic
1484	1533	49	Limestone, light-brown, oolitic and slightly sandy
1533	1572	39	Limestone, nearly white, dolomitic

Pocono Formation, 30½ feet

1572	1580	8	Siltstone, light-green, shaly, micaceous, dolomitic
1580	1592	12	Sandstone, white, very coarse
1592	1597	5	Sandstone, white, fine to very coarse (gas 1587-1600')
1597	1600	3	Shale, gray, soft
	1602		Total depth