

Loudon District, Kanawha County, W. Va.

By Owens, Libbey-Owens Gas Dept., Box 1375, Charleston, W. Va.

On west side of Kanawha River, 0.22 mi. west of river bank.

0.22 mi. N. of Garnet P. O. (Malden Sta.), 0.53 mi. N. W. of Malden, 1.5 mi.

S. E. of Kanawha (City), and 0.84 mi. S. W. of Dana.

3.67 mi. N. of 38° 15' and 1.02 mi. E. of 81° 35' - SE - Charleston Quadrangle.

On 70 acres, surface and mineral rights owned by L. A. Christy, Charleston, W. Va.

Drilled under permit Kan-206, issued December 30, 1935.

Elevation, ~~600'~~ 603' L. ~~Commenced, Feb. 5, 1936; completed, June 14, 1936.~~

13" casing, 60'; 10", 990' (pulled); 8 1/2", 1225'; 6-5/8", 4422'.

Coal was encountered at 496-498'.

Completion reported to Dept. of Mines June 19, 1936.

Well was ~~shot~~ ^{shot} at 4499-4526', with 60 gts., and at 4506-4522', with 60 gts., on June 13, 1936.

Fresh water at 58' and 84'; salt water at 470', 1136', and 1153'.

~~77 M. cu. ft. daily natural in Oriskany Sand; 15 mi. after shot, 537,000 cu. ft.~~

~~365 M. after shot; 475' Rock pressure of 1240 lbs.; final rock pressure, 1260 lbs.~~

Open flow when shot

0 - 16	Clay, yellow, soft	939 - 985	Maxton Sand, white, hard
16 - 59	River sand, white, soft (water at 58', hole full)	985 - 986	Slate, gray, soft
59 - 72	Sand, gray, soft	986 - 1025	Little Lime, black, hard
72 - 79	Slate, gray, soft	1025 - 1030	Pencil Cave, gray, soft
79 - 112	Sand, gray, hard (water at 84', hole full)	1030 - 1227	Big Lime, gray, hard (4 bailers water per hour at 1136'; hole full water, 1153'; show of gas at 1153)
112 - 130	Slate, gray, soft	1227 - 1253	Big Injun Sand, dark, hard
130 - 159	Slate and shells, gray, soft	1253 - 1276	Big Injun Sand, red, soft (gas at 1259', 3,980 cu. ft gas at 1350-1360', 60 M. cu. ft.; gas at 1420-1430', 108 M. cu. ft.; gas at 1466-1488', 140 M. cu. ft.; gas at 1530-1550', 172 M. cu. ft.; gas at 1573', 183 M. cu. ft.)
159 - 178	Sand, white, soft	1276 - 1648	Slate and shells, gray, soft (gas at 1599', 463 M. cu. ft gas at 1635', 517 M. cu. ft.)
178 - 184	Slate, gray, soft	1648 - 1662	Shale, black, soft
184 - 232	Sand, gray, soft	1662 - 1663	Berea Grit, white, hard (gas at 1663', 567 M. cu. ft.; show of oil at 1663')
232 - 267	Sand, white, hard	1663 - 2860	Slate and shells, gray, soft
267 - 273	Slate, gray, soft	2860 - 2886	Shale, brown, soft
273 - 291	Sand, white, hard	2886 - 2936	Slate and shells, gray, soft
291 - 297	Slate, gray, soft	2936 - 2970	Shells, gray, hard
297 - 301	Sand, gray, hard	2970 - 4066	Slate and shells, gray, soft
301 - 307	Slate, gray, soft	4066 - 4305	Shale, dark, soft
307 - 330	Sand, gray, hard	4305 - 4316	Slate, gray, soft
330 - 335	Slate, gray, soft	4316 - 4341	Slate and shells, gray, soft
335 - 341	Sand, gray, hard	4341 - 4399	Shale, dark, soft
341 - 356	Slate, gray, soft	4399 - 4499	Corniferous Lime, gray, hard
356 - 496	Sand, white, hard (show of oil, 405'; water at 470')	4499 - 4528	Oriskany Sand (gas at 4500- 4503', 77,000 cu. ft.)
496 - 498	Coal, soft	4528 - 4530 1/2	Lime, to bottom
498 - 501	Slate, gray, soft		
501 - 517	Sand, white, hard		
517 - 525	Lime shells, gray, hard		
525 - 723	Sand, white, hard		
723 - 728	Sand, dark, hard		
728 - 763	Sand, white, hard		
763 - 765	Slate, gray, soft		
765 - 774	Shells, gray, hard		
774 - 786	Slate, gray, soft		
786 - 898	Sand, white, hard		
898 - 907	Slate and shells, gray, soft		
907 - 913	Red rock, soft		
913 - 939	Slate and shells		