

OCT 3 1954

AMHERST LAND COMPANY No. 25(2168).

By United Producing Co., Inc., Charleston, W. Va.
Triadelphia District, Logan County, W. Va.
Located 3.0 mi. W. of 37° 50' Lat. and 1.88 mi. W. of 81° 45' Long.
Logan Quadrangle - SE.
Permit Log-388.
Elevation 959.9 DF.

Drilling commenced Mar. 17, 1954; completed June 21, 1954.
Acidized 6-30-54 with 1000 gal. Packer set at 2339; Perf. top 2448,
Perf. bot 2471

Fresh water 36'; 160'; 495-500'; 1005-1010'; 1050'.
Gas well; Volume 1,852,000 cu. ft. Rock Pressure 825# in 48 hours.
Casing 13-3/8", 17'; 10-3/4", 428'; 8-5/8", 1717'; 7 OD, 2185'.
Coal encountered at 159', 12"; 422', 24"; 1312', 36".
Section based on samples from 2110' to 2486'; examined by Russell R. Flowers.

Top Bottom Thickness

MAUCH CHUNK SERIES, 33, plus, FEET.

2110 Limestone, (very shaly) to shale (highly calcareous) dark gray to brownish black, highly fossiliferous; shale, dark gray, some grayish black

2110 2143 33 Limestone to shale, dark gray to brownish black, highly fossiliferous (crinoidal); some dark gray shale at the bottom ---- Little Lime

GREENBRIER LIMESTONE, 316 FEET.

2143 2151 8 Limestone, brownish black, highly argillaceous

2151 2162 11 Limestone, brownish black, to olive gray and very shaly at the top to olive gray and argillaceous in the lower part, oolitic in part

2162 2174 12 Shale, medium dark gray to dark greenish gray, medium dark gray to brownish gray, some dark gray, highly calcareous, highly fossiliferous

2174 2178 4 Limestone, light olive gray to olive gray and brownish black, fossiliferous

2178 2214 36 Limestone to shale, brownish black to grayish black, very highly fossiliferous, crinoid stems, some bryozoa, mostly calcareous shale at the top

2214 2229 15 Limestone, light olive gray to olive gray, oolitic, fossiliferous; some medium dark gray highly calcareous shale; trace of chert

2229 2243 14 Limestone, olive gray to brownish gray and brownish black, argillaceous in the upper part

2243 2251 8 Limestone-oolites, pale to dark yellowish brown, and olive gray; some olive gray, somewhat silty limestone

2251 2271 20 Limestone-oolites, pale to dark yellowish brown, dolomitic in part; small amount of dark greenish gray, argillaceous siltstone

2271 2287 16 Limestone-oolites, dark yellowish brown to olive gray, some pale yellowish brown, oolites very tightly packed (very fine to fine grained, some medium grains), slightly dolomitic

2287 2296 9 Limestone, olive gray, silty

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| 2296 | 2308 | 12 | Limestone, brownish gray to olive gray, highly oolitic, sandy (very fine grains) silty |
| 2308 | 2320 | 12 | Limestone, olive gray, somewhat silty |
| 2320 | 2336 | 16 | Limestone, pale to dark yellowish brown, oolitic in the upper part, fossiliferous (endothyra type foraminifera) in the lower part |
| 2336 | 2346 | 10 | Limestone, olive gray, oolitic, fossiliferous (foraminifera) somewhat silty, occasional crinoid fragments |
| 2346 | 2365 | 19 | Limestone, yellowish gray to light olive gray in the upper part to pale yellowish brown in the lower part, oolitic, dolomitic in part at top, some foraminifera? |
| 2365 | 2375 | 10 | Limestone, light olive gray and dark gray, highly oolitic, fossiliferous (forams), dolomitic |
| 2375 | 2398 | 23 | Limestone-oolite, light olive gray to olive gray, somewhat dolomitic in the lower part |
| 2398 | 2408 | 10 | Limestone, light olive gray, highly oolitic in part, somewhat dolomitic |
| 2408 | 2447 | 39 | Limestone-oolite, yellowish gray to light olive gray, fine to medium grained, fossiliferous (some crinoid fragments) |
| 2447 | 2459 | 12 | Dolomite, yellowish gray to pale yellowish brown, calcareous, silty |
| MACCRADY FORMATION, 27, plus, FEET | | | |
| 2459 2459 | 2475 | 16 | Siltstone, medium dark gray to greenish gray, argillaceous; some grayish red silty shale |
| 2475 | 2482 | 7 | Siltstone, medium dark to dark gray with greenish cast; shale, greyish red, some brownish gray |
| 2482 | 2486 | 4 | Siltstone, brownish gray to grayish red, some medium dark to dark gray, highly argillaceous |
| 2486 | | | |
| TOTAL DEPTH of samples (2483' total depth on well log) | | | |