

Vol XVII, p. 39
Unpublished

Union District, Ritchie County, W. Va.

By Pittsburgh & W. Va. Gas Co., Clarksburg, W. Va.

Drilled under permit Hit-729.

On 66 acres; Holbrook N/2 3-3.

Elevation, 1046' L.

Surface and minerals owned by E. D. Maxson, Berea, W. Va.

Drilling commenced Aug. 12, 1939; completed, Sept. 13, 1939.

Fresh water at 171 and 1018'.

13" wood conductor, 16'; 10" casing, 503'; 8", 1252'; 6", 1891'.

Dry hole. Completion reported to Dept. of Mines Sept. 15, 1939.

Record to ROP from Mrs. Griffith December 1, 1939.

2.18 mi S 39°10'
1.70 mi W 80°50'

	Top.	Bottom.
Clay, red, soft	0	30
Shale, red, soft	30	130
Line, gray, hard	130	145
Sand, white, open (water, 171', 1½ bail- ers per hour)	145	180
Red rock, soft	180	195
Line, white, hard	195	210
Sand, white, open	210	222
Slate, white, soft	222	243
Line, white, hard	243	275
Slate, white, soft	275	280
Red rock, soft	280	290
Line, white, hard	290	305
Red rock, soft	305	328
Line, white, hard	328	347
Slate, white, soft	347	371
Line, white, hard	371	398
Red rock, soft	398	410
Line, white, hard	410	425
Red rock, soft	425	450
Line, white, hard	450	465
Red rock, soft	465	490
Line, white, hard	490	520
Red rock, soft	520	540
Slate, white, soft	540	570
Red rock, soft	570	590
Line, white, hard	590	630
Red rock, soft	630	643
Sand, white, hard	643	650
Red rock, soft	650	680
Slate-Shells, white, soft and hard	680	710
Red rock, soft	710	740
Line, white, hard	740	755
Slate, white, soft	755	770
Red rock, soft	790	805
Slate and shells, white, soft	805	846
Red rock, soft	846	857
Slate and shells, white, soft	857	875
Red rock, soft	875	914
Line, dark, soft	914	937
Slate, dark, soft	937	970
Sand, white, hard (water, 1018', 2 bail- ers per hour)	970	1022
Slate and shells, black, soft	1022	1068
Line, dark, hard	1068	1137

(Cont.)

	Top.	Bottom.
Sand, white, hard	1137	- 1160
Line, white, hard	1160	- 1190
Slate and shells, white, soft and hard	1190	- 1275
Sand, white, hard	1275	- 1308
Slate and shells, dark, soft	1308	- 1325
Sand, white, hard	1325	- 1358
Slate and shells, white, soft	1358	- 1374
Sand, white, hard	1374	- 1412
Slate and shells, black, soft	1412	- 1448
Sand, gray, hard	1448	- 1515
Slate and shells, gray, soft	1515	- 1602
Sand, gray, hard	1602	- 1632
Slate and shells, dark, soft	1632	- 1687
Sand, gray, hard	1687	- 1753
Slate, black, soft	1753	- 1778
Line, black, hard	1778	- 1805
Red rock, soft	1805	- 1807
Line, dark, hard	1807	- 1838
Slate, dark, soft	1838	- 1842
Little Line, dark, hard	1842	- 1867
Pencil Cave, dark, soft	1867	- 1877
Big Line, gray, hard	1877	- 1954
Big Injun Sand, white, hard	1954	- 2018
Slate, white, soft	2018	- 2026
Line, black, hard	2026	- 2033
Total depth		2033

6/13 well
samples start at 55

Top Bottom Thickness

05 30 30

Clay, red, soft.

30 130 100

Shale, red, soft; contains some small limestone nodules
light-green micaceous siltstone in some samples

E. D. Maxon

No. 6113

No. 796 O. F. Ritchie

Union District, Ritchie Co., W. Va.

By Pittsburgh & W. Va. Gas. Co., Clarkburg

Halbrook N/E 3-3

Elevation 1046'

Top.	Bottom	Thick.
55	129	74

Shale mostly; red and yellow, disintegrates readily in water showing clayey nature; small amt. gray siltstone, micaceous, Limestone nodules scattered throughout.

129	145	16
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Siltstone?

Sandstone mostly - highly calcareous, med to dark gray, micaceous; Shale, red and yellow, very soft; Limestone, few nodules present.

145	178	33
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Sandstone, fine gr. white to gray in color, slightly calcareous and highly micaceous, Red shale - small amount

178	201	23
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Shale, red and soft; some limestone nodules; small amt. calcareous mud. gray sandstone

201	208	7
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Sandstone, med to dark gray; calcareous and micaceous; some red shale.

208	229	21
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Sandstone, med light gray; calcareous and micaceous; fine gr.; small amt. gray siltstone and black shale. S. e. has angular grains.

- 229 243 14 Siltstone; dark gray, ^{and brown} slightly
micaceous; small amt. red shale.
- 243 269 26 Sandstone; fine grained, very light
gray, micaceous, ^{biotite?} angular grains,
slightly calcareous; Shale, red,
very small amt.
- 269 281 12 Sandstone; fine gr. very light
gray, micaceous, angular grains;
Some impure limestone present.
→ Fossils noted in impure
limestone
- 281 293 12 Shale; red, gray, and yellow,
very soft; some limestone
nodules present.
- 293 306 13 Sandstone; very fine gr., greenish
gray, micaceous, chlorite
flecks apparent; small amt. of
red shale.
- 306 332 26 Shale, red and yellow, very soft;
small trace of black shale or
coal, small amt. of limestone
nodules present.

- 332 360 28 Sandstone and siltstone, equal parts, gray l.s. and red siltstone; some shale; trace of limestone; red shale; sandstone shows biotite, angular ground.
- 360 371 11 Siltstone mainly, med. gray; some yellow ^{red} shale; some limestone nodules.
- 371 409 78 Sandstone, fine gr., light gray, highly micaceous; siltstone, gray; some shale, gray, red, yellow, and pink; small amt. of limestone.
- 409 415 6 Sandstone, predominantly, very fine, white with many flecks of biotite, siltstone, greenish gray, flecks of chlorite, some red shale.
- 415 478 32 Shale mainly, red, disintegrates readily in water; some greenish gray micaceous siltstone; small amt. l.s.
- 448 527 76 Sandstone mainly, slightly calcareous, med. gray with flecks of biotite ^{micaceous} fine gr.; some red shale; large amt. of l.s., light gray, some darker greenish-gray siltstone.

6113

Top Bottom Thickness

402	409		Siltstone, green, micaceous, 60%; soft red shale, 40%
409	415	6	Sandstone, green, very fine, the micaceous
415	448	33	Shale, red, soft, calcareous
448	500	52	Sandstone, green, very fine, micaceous, somewhat calcareous
500	514	24	Limestone, light-brown, very clayey, 80%; green siltstone, 20%
524	532	8	Clay, red, gray and yellow, highly calcareous
532	560	28	Siltstone, green, shaly, micaceous, 50%; Clay, red, gray and yellow, as above, 50%
560	622	62	Siltstone, green, shaly, micaceous; also a little soft gray and green shale; some calcareous material throughout
622	636	14	Clay, red, highly calcareous; contains limestone nodules
636	650		Sandstone, white, coarse

- 524-560 36 Shale, soft, pink, red, yellow, purple, + gray; small amt. of ^{light brown} s. s.; small amt. of micaceous gray siltstone.
- 560 622 62 Siltstone, mainly, med. gray, micaceous; small amt. of red shale and gray l. s.
- 622 636 14 Shale, mainly, soft, ^{red} pink, gray, and yellow; limestone, white and pink, and yellow.
- 636 650 14 Sandstone mainly, white, angular fine grained, small amt. of mica, small tinges of light green due either to chlorite or actinolite aggregate; some red siltstone; red and yellow shale + gray;
- 650 689 39 Shale, soft, calcareous, colored red, pink, yellow, purple.
- 689 711 22 Shale, 5090, yellow + red, soft; siltstone, 5090, red, gray, very light brown, micaceous; calcareous.
- 711 748 3 1 Shale, soft, red, purple, yellow, ^{gray} calcareous, small amt. siltstone.

spherulite

- 748 756 8 Siltstone, gray, with spherulites of siderite present; small amt. of white, fine gr ss. and red shale.
- 756 770 14 Siltstone, grayish green, micaceous; small amt. soft gray shale.
- 770 790 20 Limestone, ^{very} light brown, some specks of chlorite or a ferromagnesian compound; small amt. red shale, soft; small amt. gray siltstone with spherulites of siderite.
- 790 809 19 Shale, red, dark gray, and mixture of red and gray; small amt. light brown siltstone.
- 809 826 17 Siltstone, grayish green, very fine grading into grayish-green shale.
- 826 835 9 Shale, gray to very light brown; small amt. of yellow and gray clay.
- 835 846 11 Siltstone, 50%, gray and pink; shale, 50%.
- 846 855 9 Shale; 75%, highly calcareous, gray; red shale and siltstone, 25%.

- 855 870 15 Siltstone, 75%, grayish green; 25% red shale and lt. brown limestone.
- 870 885 15 Shale, mostly, red + soft; small amt. of gray siltstone and lt. brown l. s.
- 885 898 13 Shale, mostly, red and yellow, some fragments with a very bright red color; siltstone, some red and gray.
- 898 912 14 Shale; 50%, red and yellow, soft; Siltstone, 50%, calcareous grayish green
- 912 920 8 L. S., fine grained; lt. brown; Siltstone, gray and grayish green; Clay, red, soft. The whole is a mixture making it difficult to indicate relative amts. of the component parts.
- 920 928 8 Siltstone, mostly, dark gray; small amt. of red shale; small amt. of flaky dark gray organic matter
- 928 938 10 L. S., 50%, very fine gr., very lt. brown; Shale, 30%, red; siltstone, 20% grayish green.
- 938 950 12 Shale, 70%, soft, mottled gray + red; 20% siltstone; 30% l. s., very lt. gray. pyrite present noticeably.

- 950 969 19 Shale, mostly, pink, gray, yellow;
siltstone, grayish green; limestone in
very small amt; pyrite present.
- 969 984 15 Siltstone mostly, grayish green; small
amt. dark brown and pink shale;
some shale mottled gray and red;
small amt. pyrite.
- 984 1009 25 Sandstone, fine grained, white,
angular; small amt. grayish green
siltstone
- 1009 1017 18 Sandstone^{50%}; fine gr., white, angular;
siltstone, 50%, dark gray with
specks of siderite pres.
- 1017 1038 19 Sandstone, very fine gr. grading into
siltstone; very dark brown; micaceous,
specks of siderite pres.
- 1038 1060 22 Siltstone, very fine gr., very light gray
to white with siderite included; shale,
some light gray and brown; small
amt. of black organic matter;
small amount of limestone.
- 1060 1075 15 Clay, very soft, disintegrated readily;
gray & light brown, mottled effect in
red and gray, bright red and yellow

- 1060 1075 15 Some speck of carbonaceous material;
may be some fossil fragments.
- 1075 1095 20 Siltstone, micaceous, gray; clay,
light brown, very soft, some red.
- 1095 1109 14 Siltstone, micaceous, mixture of
light brown to dark brown to
gray.
- 1109 1117 8 Sandstone, very fine gr. micaceous,
grading into siltstone, very shades
of light gray to white.
- 1117 1132 15 Siltstone, gray, calcareous
- 1132 1139 7 About equal pts: sandstone, very fine
gr. ^{angular} lt. gray to white, micaceous with
specks of siderite; siltstone, gray.
- 1139 1146 7 Sandstone, very fine gr., white,
micaceous; small amt. gray siltstone.
- 1146 1153 7 Sandstone, very fine gr., white, with
flecks of chlorite; small amt. purple
to tan clay.
- 1153 1160 7 Sandstone, very fine gr., white; small
amt. dark gray siltstone and clay.

- 1160 1167 7 Siltstone, dark gray to black, small amt. red shale; small amt. white s.s.
- 1167 1172 5 Siltstone, dark gray; limestone, almost white.
- 1172 1178 6 Sandstone, very fine gr., white; siltstone, gray; small amt. of limestone and shale.
- 1178 1190 12 Sandstone, very fine gr., micaceous, light gray to white.
- 1190 1201 11 Siltstone, gray; shale, small amt., red, yellow, and mottled gray and purple.
- 1201 1213 12 Siltstone, dark gray + dark brown; small amt. of red clay; slightly calcareous.
- 1213 1226 13 Sandstone, very fine gr., grading into siltstone; dark gray; micaceous
- 1226 1240 14 Sandstone, very fine gr., gray, micaceous, small amt. shale.

- 1240 1251 11 Siltstone grading into fine grained s.s.; light gray to grayish green; s.s. is micaceous containing some siderite; small amt. of gray shale; calcareous.
- 1251 1269 18 Siltstone, dark gray, slightly micaceous; shale, very light brown, soft
- 1269 1276 7 Siltstone, mostly, med. gray; s.s. fine gr., highly micaceous, presence of siderite; small amt. very soft lt. brown shale.
- 1276 1294 18 S.S., very light brown, fine gr., micaceous, specks of siderite and chlorite; siltstone grading into shale, medium gray to brown; small amt. red shale.
- 1294 1302 8 S.S., very light brown, fine gr., highly micaceous with specks of chlorite and siderite, slightly calcareous; small amt. of very light brown clay.
- 1302 1312 10 About equal parts of very light brown s.s. and very dark gray shale grading into light gray siltstone. small amt. pyrite

- 1312 1337 25 Siltstone, med. to dark gray, grading into light gray to light brown micaceous s.s. and gray shale; some siderite present in the s.s.
- 1337 1373 36 Siltstone, mostly, med. to dark gray; s.s., white grading into gray micaceous very fine gr. s.s.; some siderite in the siltstone, small amt. pyrite present.
- 1373 1392 19 About equal pts. of very dark gray siltstone and almost white s.s.
- 1392 1400 8 Almost entirely dirty white s.s., micaceous with small amt. chlorite; small amt. dark gray siltstone.
- 1400 1412 12 S. S., dirty white; small amt. siltstone.
- 1412 1425 13 S. S., dirty white, micaceous, siltstone, dark gray to reddish brown, contains some reddish brown siderite.
- 1425 1436 11 About equal pts. dark gray shale and very light brown siltstone.

- 1436 1447 11 About equal pts. very light brown micaceous s.s. and dark gray siltstone.
- 1447 1471 24 Siltstone, dirty white to light gray micaceous; slight amt. pyrite.
- 1471 1478 7 Siltstone, half dirty white with flecks of siderite; half dark gray micaceous.
- 1478 1503 25 Sandstone, dirty white; very small amt. gray siltstone.
- 1503 1517 14 Sandstone, dirty white, fine gr. to very light brown, very fine gr.; slightly micaceous with traces of chlorite and siderite; small amt. of very dark gray shal.
- 1517 1561 44 Shale, dark gray; small amt. dirty with mica; some carbonaceous matter.
- 1561 1573 17 Shale, dark gray, grading into siltstone, some very light brown very fine gr. s.s. with siderite; some fine gr. dirty white s.s. with siderite and chlorite.

- 1578 1593 15 Siltstone, med. gray, grading into dark gray shale, micaceous.
- 1593 1600 7 Siltstone, med. gray, micaceous, with siltite nodules.
- 1600 1606 6 Sandstone, fine gr. dirty white, and very fine gr., gray.
- 1606 1632 26 Sandstone, fine gr. dirty white to light gray, some chlorite present, small amt. lt. gray siltstone.
- 1632 1639 7 Siltstone, dark gray; small amt. greenish gray fine gr. s.s.
- 1639 1665 26 Sandstone, fine gr., greenish-gray to gray, micaceous, siderite nodules present; small amt. of dark gray shale.
- 1665 1672 7 Sandstone, dirty white, fine gr., angular; siltstone, dark gray to brown; shale, dark gray and red.
- 1672 1685 13 Sandstone, light gray, very fine gr., micaceous, grading into gray & red siltstone.

- 1685 1705 80 Sandstone, very fine gr., light gray, micaceous.
- 1705 1741 36 Sandstone, fine gr., dirty white, chlorite present; ^{very} fine gr. med. gray micaceous s.s.; slightly calcareous.
- 1741 1763 22 About equal pts. fine gr., dirty white s.s. and dark brown to gray to light brown siltstone with siderite nodules.
- 1763 1776 13 Shale, dark gray to mud gray, to very light brown.
- 1776 1780 4 Sandstone, very fine gr. very light brown; nodules of siderite; shale small amt., black.
- 1780 1800 20 Sandstone, very fine gr., very light brown; shale, small amt. in black and very light green.
- 1800 1815 15 Shale, green, red, and gray, calcareous.
- 1815 1824 9 Shale, green, red and gray, calcareous; sandstone, very fine gr., very light brown; siltstone, med. gray, calcareous.

- 1824 1861 37 Limestone, brown, with fossils, some gray and red shale; small amt. s.s.
- 1861 1874 13 Limestone, light brown; brown and gray siltstone; gray shale
- 1874 1877 3 Limestone, light brown; smaller amt. of light gray shale and darker gray siltstone.
- 1877 1927 50 Limestone, light brown grading into dirty white; small amts. of shale, easily disintegrated, light green and med. gray.
- 1927 1948 21 Limestone, half and half light brown and dark brown.
- 1948 1956 8 Limestone, light tan to gray to dirty white.
- 1956 1960 4 Almost equal pts. light tan limestone and quartz sand.
- 1960 1963 3 Almost equal pts. light tan limestone and light tan sandstone with small amt. gray and green shale.
- 1963 1967 4 Sandstone, fine gr., very light tan; small amt. gray shale and brown limestone.

- 1967 1972 5 Limestone, mainly, very light brown; small amts. of sandstone, light gray; and small amts. of gray + green shale.
- 1972 1995 23 Limestone, dolomitic, finely granular, very light brown; small amts. of green and gray shale.
- 1995 2002 7 Limestone, dolomitic, finely granular, very light brown.
- 2002 2010 8 About equal parts of very light brown, dolomitic limestone and dark gray shale. Shale contains siderite nodules.
- 2010 2018 8 About two thirds dark gray shale with siderite nodules. One third light brown dolomitic l.s.
- 2018 2033 15 Dark gray shale.

West Virginia Geol. Sur. No.

Company *FITZPATRICK* No.

Lease *E. D. MAXON* No. *6113*

Completed *SEPT. 13,* 193*7*

Obtained by 19.....

County *FITZPATRICK*

District *UNION*

Quadrangle *HOLBROOK*

Elevation *1096* T. D.

Production

I. R. P. In. Vol.





