

Farm C.V. Goff No. 8510
 Company Hope Natural Gas Co., Clarksburg, W.Va.
 Permit Gilmer 443
 District DeKalb, Gilmer Co., West Virginia
 Quadrangle Glenville NC
 Location 3.5 mi W of 80° 50'; 0.8 mi S of 38° 55'
 Upper Big Run
 Elevation 952 feet
 Commence drilling 8/10/40, Complete drilling 9/16/40
 Well type Gas, Volume: 196 MCFGPD, 600# 24 hrs.
 Well not completely examined.
 Examined descriptively by Tom W. Carpenter
 All percentages are visual estimates; all depths are feet.

Top Bottom Thickness

MAUCH CHUNK GROUP, 67+ feet

1594	1600	6	Shale, 90%, red; Dolomite, 10%, white, some VF quartz
1600	1606	6	Shale, 80%, gray; Siltstone, 20%, gray
1606	1612	6	Shale, 60%, gray, slightly calcareous; Siltstone, 25%, gray; Limestone, 15%, fossiliferous, pellets, argillaceous, biomicrite
1612	1620	8	Shale, 45%, red, gray; Siltstone, 40%, light gray; Limestone, 15%, gray, fossiliferous, fenestrella bryozoan, pellets, very silty
1620	1625	5	Limestone, 60%, gray, very argillaceous, biomicrite; Shale, 20%, brown, gray, red; Siltstone, 20%, light gray
1625	1630	5	Limestone, 93%, argillaceous biopelmicrite; Shale, 7%, gray, bryozoan fragments, pyrite
1630	1635	5	Shale, 80%, gray, calcareous, pyrite; Limestone, 20%, gray, fossil fragments, argillaceous, some quartz, pyrite; Sandstone, trace, VF
1635	1641	6	Limestone, 50%, gray to tan, fossiliferous, crinoids, some chips are oolitic; Sandstone, 35%, white, VF, slightly calcareous; Shale, 15%, gray to black

Top	Bottom	Thickness	Gilmer 443
1641	1647	7	Sandstone, 60%, white, VF, slightly calcareous; Siltstone, 22%, gray; Shale, 15%, gray; Limestone, 3%, tan, oolitic
1647	1652	5	Shale, 97%, gray, slightly quartzose, VF; Sandstone, 3%, as above; Limestone, trace, tan,
1652	1657	5	Shale, 97%, gray, VF quartz; Limestone, 3%, gray; Sandstone, trace
1657	1661	4	Shale, 65%, gray, VF quartz; Limestone, 20%, gray, fossiliferous, argillaceous; Siltstone, 15%, light gray; Sandstone, trace, white
GREENBRIER LIMESTONE, 160± feet			
1661	1667	6	Limestone, 80%, gray, oosparite, fossil fragments, silt; Shale, 20%, gray, slightly calcareous; Sandstone, trace
1667	1674	7	Limestone, 40%, gray, oosparite, slightly dolomitic, pyrite; Shale, 40%, gray, some is slightly quartzose; Dolomite, 20%, white, calcareous
1674	1679	5	Limestone, 100%, tan to gray, pseudo-oosparite, slightly dolomitic, pyrite
1679	1803	124	Samples not examined
1803	1809	6	Dolomite, 100%, white, slightly calcareous, VF and rounded Coarse quartz; Calcite/dolomite/quartz = trace/80/20
1809	1815	6	Dolomite, 100%, as above but more calcite; Calcite/dolomite/quartz = 1/79/20
1815	1821	6	Dolomite, 65%, white, slightly calcareous, VF and rounded Coarse quartz; Sandstone, 35%, white, VF to almost a siltstone
POCONO GROUP, 12+ feet			
1821	1826	5	Siltstone, 95%, gray, siderite sphericules; Dolomite, 5%, white, slight amount of quartz
1826	1833	7	Siltstone and Sandstone, VF grained

Not reversed.

86-8

C. V. ~~off~~ No. 8510 Well

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Unpublished

donated by

Permit No-443

DeKalb District, Selmer County, W. Va.

By Hope Natural Gas Company, Clarksburg, W. Va.

Located 3.6 mi. W. of $80^{\circ} 50'$ and 0.75 mi. S. of

$39^{\circ} 00'$

Bell School.

- NE - Glenville Quadrangle; 1 mi. N. of

Elevation 952' L

Permit Gas - 443.

Drilling commenced Aug. 10, 1940; completed, Sept. 16, 1940.

Shot at 1787 to 1803

Gas well; volume 196,500 cu. ft.; rock pressure 600 lbs.

in 29 hrs.

No water recorded

10" casing 200'; 8 1/4", 967'; 6 5/8", 1676'

Coal was encountered at 634 to 641'; 704 to 706', and 1007 to 1011'

Examined by Dylis Payne.

Total depth 1863

2 trays. - repeat samples in 1st tray a table.

0-1097

1097-1652

Dylysa Payne

C.V. Doff # 8510

Hope Mat. Gas Co.

De Kalb Dist., Gilmer Co., Ga.

Permit No. - 443

TOP	BOTTOM		
0	30	30	S.S. + ^{Clay} red, yellow, black - some mica. - weathered residual.
30	35	5	S.S., white to yellow to red - weathered. - Calcareous
35	40	5	Varicolored shale, siltstone, and s.s., red, yellow, gray. - calcareous
40	58	18	Sandstone, ^{fine gr.} mainly, greenish-gray, micaceous, calcareous; shale ^{siltstone} red and yellow.
58	62	4	Fine gr. sandstone - ^{50%} greenish-gray - micaceous; ^{50%} siltstone, brown, yellow, and gray, calcareous.
62	67	5	Siltstone, 75% light brown to gray, micaceous; shale, red and yellow, slightly calcareous.
67	72	5	Varicolored mixture of s.s. and shale; red, yellow, purple, gray, calcareous
72	78	6	Shale, mostly, red & yellow; small amt. gray siltstone, calcareous.

- 78 85 7 S. S., white, 25%; Shale, red, 25%;
Siltstone, grayish green, micaceous,
25%; Calcareous.
- 85 91 6 Red shale, calcareous.
- 91 92½ 2 S. S., very fine gr., gray with
muscovite and biotite; small
amt. red shale.
- 92 121 29 Red shale, small amt. gray siltstone;
calcareous.
- 121 126 5 S. S. ^{75%}; very fine gr., gray, micaceous;
Shale; 25%, red & yellow, calcareous.
- 126 138 12 Shale, 50%, red; Siltstone, gray to
brown, 50%; calcareous.
- 138 144 6 Shale, red, calcareous.
- 144 150 6 Sandstone, very fine gr., gray with
muscovite, biotite, and chlorite;
small amt. red shale, calcareous.
- 150 152 2 Shale, red; small amt. fine gr. gray
S. S.; slightly calcareous.

- 152 158 6 Clay; 75% gray; 25% red, calcareous.
- 158 175 17 S. S.; gray, micaceous, very fine gr.; small amt. of variegated clay, slightly calcareous.
- 175 201 26 Sandstone; fine gr.; gray, micaceous, calcareous; small gray siltstone.
- 201 207 6 Clay, red, gray, green, yellow, calcareous.
- 207 212 5 Limestone, light brown; ^{85%} Shale, red, 15%.
- 212 229 17 Limestone, 15% brown; Clay, red, green, white, black; green clay is peculiar dark color and contains shiny dark green nodules.
- 229 234 5 Siltstone, 15%, light gray; Clay, red, yellow, light green with siderite nodules, calcareous.
- 244 270 6 Clay, red and yellow, calcareous.
- 240 250 10 S. S., 50%, fine gr., gray with biotite, muscovite, and chlorite; Clay 50%, red & yellow, calcareous.

- 250 299 49 Sandstone, very fine gr. almost siltstone, few flecks of chlorite, muscovite & biotite, particles of quartz are angular.
- 299 304 5 Shale, 90%, red and gray; S. S., 10% highly calcareous.
- 304 328 24 Shale, 50%, red; Siltstone, 50%, gray.
- 328 358 30 Clay, red & gray, yellow, calcareous.
- 358 370 12 Sandstone, 85%, fine gr., gray; Clay, 15%, red & yellow, calcareous.
- 370 376 6 S. S., very fine gr., particles fairly rounded, chlorite, very small amt. shale, slightly calcareous.
- 376 382 6 Clay, red, 90%; S. S. & limestone, gray, 10%
- 382 395 13 Sandstone, 50%, gray, micaceous; Clay, 50%, red; calcareous.
- 395 401 6 Siltstone, 50%, gray; Clay, 50%, red; calcareous.

- 401 415 14 Clay, gray, red, yellow, brown,
highly calcareous, pyrite present;
very small amt. l.s.
- 415 420 5 Clay, predominantly red and yellow,
calcareous.
- 420 427 7 Clay, 50% red and yellow; Limestone
50% light brown to white.
Calcareous.
- 427 433 6 Clay, 50% red and yellow; Sandstone^{25%}
gray with mica & chlorite; L.s.
25% brown, Calcareous.
- 433 439 6 Clay, red & yellow; Small
amt. l.s.; calcareous.
- 439 450 11 Clay, gray, red, & yellow;
calcareous.
- 450 455 5 L.s.; very fine, gray, micaceous
calcareous, small amt red
shale.
- 455 461 6 Limestone, 50% brown; Siltstone
50% gray.
- 461 467 6 Limestone, white to tan; small
amt. red & gray shale.

- 467 473 6 Clay, gray, red, and yellow, calcareous, pyrite present.
- 473 494 21 Shale, 50%, gray and red; Limestone, light brown.
- 494 503 9 Clay, 50%, red, yellow, gray, & green; Limestone 50%, white to brown.
- 503 516 13 Sandstone, 75%, light gray, micaceous, some chlorite and siderite; Shale, red, 10%; Limestone, 15%, light gray to white; pyrite present.
- 516 520 4 Clay, red, green, yellow, gray, purple; small amt. of Siltstone and Limestone.
- 520 527 7 Siltstone, light gray; 30%; Black shale, 30%; Red & yellow shale, 30%; Limestone, 10%; pyrite present.
- 527 540 13 Limestone, light gray; pyrite present, small amt. yellow shale.

- 540 545 5 Sandstone, 50%, gray-green, micaceous with remarkable number of spherulites of siderite; Limestone, 5%, very light gray.
- 545 551 6 Sandstone, 50%, gray-green; limestone, 25%, light gray; shale, red, 25%, small amt. siderite and chlorite in s.s.
- 551 557 6 Shale, 95%, red; limestone, 5%; light gray.
- 557 569 12 Shale; 50%, red, yellow, green; sandstone, 25%, gray-green; limestone, 25% light gray.
- 569 575 6 Sandstone; light gray, 50%, micaceous; Shale, 50%, red and yellow.
- 575 587 12 Siltstone, gray with siderite spherulites.
- 587 593 6 Shale, gray with organic matter present.

- 593 599 6 Siltstone, ^{micaceous} 50%, dark gray; Shale, gray, 50%.
- 599 602 3 Siltstone, 75%, micaceous, dark gray; 20% coal; 5% red shale.
- 602 605 3 Siltstone, 30%, micaceous, dark gray; Shale, ^{30%} splintery, light gray; Red and black shale; 30%.
- 605 611 6 Limestone, 30%, light gray; Sandstone, 30%; Black shale, 30%; some nodules of spherulite present in the sandstone.
- 611 623 12 Siltstone, 80%, light gray, micaceous, spherulites of siderite. Limestone, 20%, brown.
- 633 636 13 Sandstone, 50%, dirty gray; siltstone, 50% dark gray to black, micaceous; pyrite present.
- 636 648 12 Siltstone, 50%; very light gray, chlorite flecks; Limestone, 50%; very light gray, large nodules of chlorite.

- 678 654 6 Sandstone, micaceous, light gray; small amt. light gray limestone.
- 654 684 30 Sandstone, very fine grained, angular, white; large amt. of muscovite; some chlorite
- 684 700 16 Sandstone, 50% white; 50% dark gray with mica and pyrite, fine grained.
- 700 706 6 Siltstone, 90% dark gray, micaceous; 10% white.
- 706 711 5 Shale, gray, calcareous
- 711 718 17 Sandstone, light gray, micaceous; large amt. siderite nodules.
- 718 725 7 Sandstone, 50% white, angular grains; 50% gray sandstone
- 725 731 6 Sandstone, white, small amount chlorite.
- 731 744 13 Sandstone, greenish gray, micaceous; chlorite and siderite; white sandstone

- 774 750 6 Sandstone, 75%; light greenish-gray micaceous; Limestone, 25%, light gray.
- 750 762 12 Sandstone, 60%, light gray; micaceous with some chlorite. Shale, red, 30%; Limestone, 10% light gray.
- 762 792 30 Sandstone, 50%, part light gray micaceous & part light to dark gray siltstone. Limestone, 50%, light gray to light tan some carbonaceous material; small amt. red shale.
- 792 798 6 Sandstone; 20% grayish-green micaceous, 80% white, angular grained; slightly calcareous.
- 798 803 5 Shale, gray, slightly calcareous.
- 803 809 6 Sandstone, dark gray, micaceous, calcareous.
- 809 826 17 Sandstone; 80% white, angular grained; 20% calcareous gray, micaceous.

- 826 854 28 Sandstone, white with some chlorite, siderite, and mica, very slightly calcareous.
- 854 860 6 Shale and siltstone, gray.
- 860 872 12 Siltstone, 70%, gray; Sandstone, white, 25%; Limestone, gray, 5%
- 872 883 11 Sandstone, white, mica and chlorite present; calcareous; fine-grained.
- 883 889 6 Siltstone, 50%, gray; limestone, 50% light gray.
- 889 895 6 Limestone, very light gray.
- 895 905 10 Sandstone, white, with chlorite and mica, angular grain; medium grained.
- 905 916 11 Sandstone, white, fine grained, pyrite present.
- 916 939 23 Sandstone, light brown, lg. amount of siderite; calcareous, micaceous.

- 939 945 6 Sandstone, very dark gray, calcareous
Coal in very small amts.;
very light tan fine gr. s.s.
- 945 950 5 Sandstone, half very dark gray to black
half dirty white, very fine grained.
- 950 955 5 Sandstone, white, coarse grained,
micaceous; small amt. bright
yellow shale, probably did not
originate at this depth; small
amt. coal.
- 955 964 9 Sandstone, grayish-green, micaceous
siderite nodules abundant,
pyrite present, small amount
red shale; small amt. chlorite.
- 965 978 13 Sandstone, white, micaceous,
small amt. red shale.
- 978 992 14 Sandstone, white, fine grained;
brown, very fine gr. s.s.; dirty
white s.s. with chlorite present.
- 992 1005 13 Sandstone, gray, micaceous,
some siderite present.

- 1005 1010 5 Coal with gray, fine gr., micaceous
s.s.
- 1010 1017 7 Sandstone, brown, very fine gr.,
small amt. coal.
- 1017 1076 59 Sandstone, white, chlorite present;
small amt. brown, very fine gr.;
micaceous
- 1076 1082 4 Sandstone, dirty white to tan,
micaceous.
- 1082 1102 20 Sandstone, white, micaceous.
- 1102 1115 13 Sandstone, dk gray, fine gr.,
micaceous, siderite nodules
present, small amt. white s.s.
- 1115 1121 6 Sandstone; as above but more
highly micaceous.
- 1121 1139 18 Sandstone; very fine gr.;
dark gray, siderite nodules
present.

- 1139 1148 9 Siltstone, dark gray ^{to black} to brown, micaceous siderite present; small amt. white s.s.
- 1148 1160 12 Sandstone, white; small amt. of dark gray siltstone; pyrite and siderite present.
- 1160 1165 5 Sandstone white; siltstone, gray; coal; about equal pts.
- 1165 1171 6 Sandstone, white micaceous with chlorite; siltstone, gray; pyrite present.
- 1171 1177 6 Same as above but more sandstone coarse gr.
- 1177 1206 29 Sandstone, white; very minor amts. of siltstone.
- 1206 1213 7 Same as above - more siltstone.
- 1213 1220 7 Siltstone, dark gray, with pyrite prominent; small amt. white sandstone.
- 1220 1234 14 Equal pts. grayish brown, micaceous siltstone and white sandstone.

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|------|------|----|--|
| 1234 | 1259 | 25 | Same as above but more siltstone; siderite nodules present. |
| 1259 | 1265 | 6 | Sandstone, 75, white with many siderite nodules; siltstone, gray. |
| 1265 | 1270 | 5 | Same as above but more siltstone. |
| 1270 | 1284 | 14 | Siltstone, gray. |
| 1284 | 1298 | 16 | Same as above but with very small amt. of very fine gr. white sandstone. |
| 1290 | 1300 | 10 | Gray and brown siltstone. |
| 1679 | 1642 | | Little Pine |
| 1643 | 1647 | | Sand |
| 1647 | 1662 | | Pencil core |
| 1221 | 1819 | | Big Dujin sand. — yrs 1788-1803 |
| | | | Total depth 1863 |

West Virginia Geol. Sur. No.
Company *HOPE NAT.* No.
Lease. *C. V. GOFF* No. *8510* ..
Completed 19.
Obtained by 19.
County *GILMER* ..
District *DEKALB* ..
Quadrangle ..
Elevation T. D.
Production ..
I. R. P. In. Vol.



