



Company E.I. du Pont de Nemours & Co., Inc.
 Address Morgantown, West Va.
 Name J.L. Jamison
 Tract 1 acres 86 ... 1
 Well (Perm) No. 1 ... 1
 Elevation (Spirit Level) 1050.2
 Community MORGANTOWN WC
 County Monongalia ... Grant
 Surveyor Guy B. Bartley
 Surveyor's Registration No. 26
 Date June 14, 1941 ... 1" = 500' 0"

WELL LOCATION MAP
 No. MON-49 P
MON-263 (A)

+ Shows location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines and representation of border lines as shown.

Shows the inch spaces on border from original tracing.

LATITUDE

393730

8008

OGIS \leftarrow
7510C

LONGITUDE

LONGITUDE

7'5 OGIS topo location

7.5' 10C 1.26S
0.33W

15' 10C 4.14S
(calc.) 0.33W

Company _____

Farm _____

LOCATION MAP

Quad Rivesville Blacksville EC

County _____

District Grant

WELL LOCATION MAP

File No. Mon. 49

was 061-263A

Grant District, Monongalia County, W. Va.
 By Penna. Counties Gas Co., Kane, Pa. (V. Arthur Johnson, Trustee).
 On 88.3 acres, surface owned by J. L. Jamison, Morgantown, W. Va.,
 and mineral rights by V. Arthur Johnson, Trustee, for Penna.
 Counties Gas Co., Kane, Pa.

Drilled under permit Mon-49, issued April 18, 1932.

Elevation, 1060' B.

1 1/2" drive pipe, 60'; 10" casing, 642'.

Coal was encountered at 479-481'.

~~See~~ Report to Dept. of Mines June 18, 1932. (Rec. to 732').

Well was not shot.

Fresh water at 481' and 732'.

No samples obtained.

	Top.	Bottom.	Thickness.
Unrecorded	0 -	83	83
Saltburg Sandstone	83 -	108	25
Shale, red and gray	108 -	136	28
Big Durdard Sand	136 -	210	74
Shale, gray	210 -	249	39
Sand, nearly white	249 -	267	18
Shale, gray	267 -	290	23
Shale and coal, black (gas show)	290 -	295	5
Shale, gray	295 -	377	82
Sand, gray and white (gas show, 479-481'; dark shaly streaks)	377 -	479	102
Coal, black (hole filled up with water)	479 -	481	2
Shale, gray	481 -	520	39
Sand, gray, fine, hard (top of Salt Sand)	520 -	545	25
Shale, gray	545 -	555	10
Sand, gray, thin streaks coal and dark shale)	555 -	585	30
Sand, light-gray to white, hard drilling	585 -	635	50
Shale, dark-gray, hard	635 -	654	19
Sand, light-gray to white, coarse, hard (Salt Sand)	654 -	732	78

(RECORD INCOMPLETE)

49

Grant District, Monongalia County, W. Va.
 By Penn. Counties Gas Corp., Reno, Pa.
 Hartson's record from scriplog.

Top. Bottom.

CONNEAUGH SERIES

- 0 - 63 Not recorded
- 63 - 106 Baltimore Sandstone (no scriplog)
- 106 - 136 Red and gray shale
- 136 - 210 Big Drained Sand (Buffalo and Hocking Sandstones)

ALLEGHENY SERIES

- 210 - 249 Gray shale
 The boundary between the Conneaug and Allegheny Series is somewhere in the upper part of this shale or perhaps at the top
- 249 - 267 Nearly white sand, Upper Transport
- 267 - 290 Gray shale
- 290 - 295 Black shale and coal with show of gas
- 295 - 377 Gray shale
- 377 - 4027 Gray to white sand with some darker shaly streaks; a little gas at 479 to 481'
- 4027 - 405 Coal (salt water at bottom of coal; did not fill hole)
- 405 - 500 Gray shale, coal at about 517'

Boundary between Allegheny and Pottsville Series

POTTSVILLE SERIES

- 500 - 515 Fine, hard, gray sandstone, Homewood Sandstone or Second Cow Run Sand
- 515 - 535 Gray shale (nonscriplog)
- 535 - 565 Gray sandstone with thin streaks of coal and dark shale
- 565 - 635 Light-gray to nearly white sand, hard drilling
- 635 - 694 Hard, dark-gray shale (set 10" pipe at 642')
- 694 - 732 Light-gray to white sand, some parts very coarse, hard drilling

Bottom of Pottsville and top of Houch Clinic Series
 (large quantity of fresh water at about 730')

HOUCH CLINIC SERIES

- 732 - 763 Gray shale
- 763 - 824 Red shale with some gray streaks
- 824 - 830 Fine gray sandstone
- 830 - 854 Gray and red shale
- 854 - 866 Sand, light-gray, fine, not very hard, Hartson
- 866 - 890 Soft gray shale
- 890 - 912 Sand, light-gray, fine, not very hard
- 912 - 923 Gray shale and limestone
- 923 - 952 Gray and red shale, somewhat liry
- 952 - 964 Light-gray fine sand
- 964 - 970 Gray shale
- 970 - 982 Gray limestone and gray and red calcareous shale, "little lime"
- 982 - 990 Gray shale with some red
- 990 - 1008 Gray shale

Contact of Houch Clinic Shales and Greenbrier Limestone

GREENBRIER LIMESTONE

- 1008 - 1098 Big Lane (Greenbrier Limestone) (set 8 1/2" pipe at 1079')

(over)

Top.	Bottom.	
POCONO SERIES		
1098	- 1250	Sandstone, light-gray, white and cream colored; the upper 100 feet is mostly highly calcareous. This is the Big Injun Sand and may also include the Kooner Sand at the top (gas at 1195') (gas at 1222') (test, 1.6' in 1" orifice; 28 hrs. later, 0.5" in 1")
1250	- 1266	Alternating thin layers of dark-gray shale and fine lighter gray sandstone
1266	- 1290	Light-gray sandstone
1290	- 1330	Nearly hard gray shale with some streaks of sand
1330	- 1392	Sandstone, fine, white to light-gray
1392	- 1517	Shale, gray, some of it sandy
1517	- 1561	Sandstone, fine, light-gray (gas at 1562') (test, 2.6' through 1 1/2" plate, 30,000 cu. ft. initial in this sand; shot 10' of sand twice, 1st, 40 qts.; 2nd, 60 qts.; not much improvement)
1561	- 1621	Shale, hard, dark-gray, micaceous
1621	- 1700	About half gray shale and about half light-gray to nearly white sandstone in thin alternating layers
1700	- 1725	Fine nearly white sand (light gas at 1704')
1725	- 1739	Gray shale and fine sand
1739	- 1750	Gray shale with thin sandstone layers
Contact of Pocono and Catskill		
CATSKILL SERIES		
1750	- 1756	Dark-red shale
1756	- 1791	Fine light-green sandstone
1791	- 1800	Gray shale
1800	- 1806	Green sandstone with red and green shale
1806	- 1824	Shale, red and gray
1824	- 1874	Gray shale
1874	- 1891	Nearly white fine sandstone
1891	- 1897	Shale, mostly gray, with some red and green
1897	- 1898	Shale, red and greenish-gray, with some sandstone
1898	- 1873	Sandstone, red, fine
1873	- 1960	Shale, more red than anything else, some gray
1960	- 1984	Sandstone, fine, mostly red and light-green
1984	- 2006	Red and green shale with a little fine sandstone
2006	- 2078	Sandstone, fine, red and green, with considerable shale
2078	- 2096	Grayish-green shale, with a little fine sand
2096	- 2108	Greenish-gray to white sandstone
2108	- 2113	Shale and sandstone
2113	- 2139	Fine red sandstone
2139	- 2158	Gray to greenish-gray shale
2158	- 2175	Fine light-green to gray sandstone with gray shale
2175	- 2218	Fine red and green sandstone with some red and green shale
Contact of Catskill and Charming		
CHARMING SERIES		
2218	- 2226	Gray shale and sandstone
2226	- 3077	Gray to olive-green shale with thin streaks of fine hard sandstone of gray to grayish-green color, generally a little lighter than the shale. There are only a few screens in this interval for which the sample is as much as half sand or sandstone and no samples which are all or nearly all sand. Perhaps the caving of the shales makes the amount of the sandstone appear less than it really is