

LOG OF RUSSELL D-5
BRIDGEVILLE BLOCK, DELAWARE

50	sand and coarse sand
55	gravels
60	sand
68	gravels
75	sand
80	gravels
120	sand and gravels
160	sand and hard sand breaks
180	sandy shale, hard breaks
208	sandy shale
223	sand with hard breaks
226	hard rock
230	sand with hard breaks
233 1/2	hard rock
242	sand with shells
283	sandy shale, sand breaks
284	hard rock
301	sandy shale and sand
303	hard rock
357	broken
360	hard
389	broken
400	hard broken
423	shells
470	sand
472	hard rock, shells
480	sand
492 1/2	hard rock
502	sand and shells
515	hard rock, soft sand breaks
519	hard rock
521	sand
543	sand and sandy shale
563	sandy shale with shale breaks
592	shale
598	hard sand or shells
604	rock and hard sand
610	rock
660	hard broken
702	sandy shale (Rock at base)

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702	
703	Rock
748	Sand
757	Rock
760	Sand
785	Sand and hard sand
786	Sand
800	Hard sand
865	Sand and hard sand
890	Sand
900	Sandy shale
920	Sandy shale, shale breaks
980	Sandy shale
1000	Shale, some sandy
1030	Sandy shale
1031	Hard break
1040	Sandy shale
1060	Sandy shale and broken
1080	Sandy, hard broken.

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1080	
1140	Sandy shale, hard breaks
1190	Sand
1200	Sandy shale
1220	Sandy shale, hard breaks
1280	Sticky shale
1320	Sandy shale
1337	Sandy shale, hard breaks
1341	Rock
1363	Sandy shale, hard breaks
1368	Sandy shale
1383	Shale with breaks of hard sand
1386	Shale
1405	Hard chalk
1463	Grey limey shale or chalk
1480	Shale
1500	Sticky shale

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1500
1543 sticky shale
1563 dark sandy shale
1583 black sand with hard breaks
1603 grey sand
1643 sand, grey and black
1720 sandy shale
1723 sand with breaks of hard sand
1746 sand and sandy shale, hard breaks
1763 shale with breaks of sand
1783 shale
1823 sandy shale, shale breaks
1840 red sticky shale
1848 broken
1890 sticky shale, thin hard break
1893 soft sandy or lime
1923 sticky red shale

1943 sandy shale, red? sand?
1963 sandy shale, hard breaks
2000 sticky shale
2003
2015 7' rec. - 3' yellow and gray sticky shale - 4'
gray sticky shale
2027 7' rec. gray sticky shale
2039 5' rec. gray green sticky shale
2051 9' rec. - 7' gray white sandy clay
2' gray clay, big specks
2062 9' rec. - 4' pink sticky shale
5' dark red and gray mottled shale
2074 8' red and gray mottled sticky shale
2081 9' rec. - 7' red and gray mottled sticky shale
2' red and gray coarse sand
2098 No core - shaley sand

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2003-2015	3' yellow and grey sticky shale 4' grey sticky shale
2015-2027	Grey sticky shale(7' recovery)
2027-2039	Grey-green sticky shale(5' recovery)
2039-2051	7' grey-white sandy clay 2' grey clay, lignite specks. Possible leaf impressions.
2051-2062	4' pinkish sticky shale 5' dark red and grey mottled sticky shale
2062-2074	Red and grey mottled sticky shale (8' recovery)
2074-2086	7' brick-red and grey mottled sticky shale 2' grey-white coarse shaley sand.
2086-2098	No core recovery(Shaley sand by driller)

Sept. 9, 1939.

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2098-2110	No core recovery(9' sand and 3' shale as logged by driller)
2110-2122	3' gray white ashy clay 2' brown-red and gray clay 1' gray clay 3' dark gray sandy shale- abundant lignite
2122-2134	4' gray-white lignitic clay 1' dark red mottled shale
2134-2146	6' pink mottled sticky shale 3' gray and buff mottled sandy shale
2146-2158	No core recovery (Soft sandy shale, possible gas show)
2158-2170	6' dark gray shale, lignite specks 3' dark shale, abundant lignite
2170-2182	Gray sticky shale(2' recovery)
2182-2194	Gray ashy clay, red mottled (9' recovery)
2194-2206	5' red gray mottled ashy clay 3' dark gray shaley sand
2206-2218	Gray laminated soft sand, thin hard sand partings(4' recovery)
2218-2230	gray and red mottled ashy clay(10' recovery)
2230-2242	gray and red mottled clay(9' recovery)
2242-2254	gray red clay (10' recovery)
2254-2266	Gray clayey sand, abundant lignite
2266-2278	gray sand, abundant lignite(3' recovery)
2278 -2290	gray sandy shale, abundant lignite 10' recovery.
2290-2302	4' black lignitic shale 4' gray sticky shale

(2)

2302-2318

4 1/2' gray white ashy clay
1' soft clayey sand
6" tan sandstone
1' gray shale

2314-2326

gray sticky clay(5' recovery)

2326-2337

3' gray sticky shale
4' gray and pink mottled sticky shale
2' dark gray shale

Sept. 12, 1939.

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2337-2351 2' gray shale, lignite specks
 8' gray and red mottled sticky shale

2351-2365 2' dark gray shale
 6" sandstone
 5' white ashy clay

2365-2379 8' gray and red mottled shale
 2' white ashy clay

2379-2393 Gray and red mottled clay (10' recovery)

2393-2405 7' black shale, two thin brown lime streaks
 2' gray-white clay

2405-2417 No core recovery (10' shale and 2' sand
 reported by driller)

2417-2420 gray-white clay (2" recovery)

2420-2432 3' dark gray shale with soft dry sand
 partings.

Sept. 15, 1939.

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2432-2446	gray-black shale, little sandy at base shell fragments and pyrite. (8' recovery)
2446-2460	black shale-few sand partings. Shell fragments and pyrite. (10' recovery)
2460-2472	black shale (2' recovery)
2472-2484	1' soft lignite 3' gray shale
2484-2498	gray micaceous sand with hard streaks and shale inclusions. (2' recovery)
2498-2510	no core recovery (Shale by driller)
2510-2520	no core recovery
2520-2534	1' gray sandy shale 4' gray ashy clay 2' red clay
2534-2548	3' gray ashy clay 5' red and gray mottled clay

Sept. 19, 1939.

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2548-2560	gray-red mottled clay (10' recovery)
2560-2572	no core recovery (tough shale by driller)
2572-2580	no core recovery (tough shale by driller)
258-2592	3' red-gray mottled clay 2' gray-white clay
2592-2606	brick-red and gray mottled clay (8' recovery)
2606-2620	9' brick-red and gray mottled clay 1' dark gray sandy shale
2620-2634	3' dark gray laminated soft sand 1' black shale 1' black sandy shale 6" hard cross-bedded sandstone 1 1/2' black laminated shaley sand
2634-2648	red and gray mottled clay(10' recovery)
2648-2660	red and gray mottled clay (10' recovery)
2660-2674	gray sticky shale, red mottled in part (10' recovery) <u>TOTAL DEPTH</u>

Well completed Sept. 21, 1939.

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