## Defense Plant Corporation No. 1 Well

Franklin District, Marshall County, W. Va.						
By Pittsburgh Plate Glass Company, New Martinsville, W. Va.						
Located 0.04 mi. S. of 39°45' and 0.87 mi. W. of 80°50' -NC- New Martineville						
Quadrangle						
Elevation, 689 <sup>*</sup> L.						
Pormit, Mars-131.						
Drilled in 1942.						
Top Bottom Thickness						
200 230 30 Limestone, light-brown to gray; also a little gray and						
green shale; considerable amount of sand and gravel,						
probably from alluvial deposits of Ohio River above						
230 240 10 Siltstons, gray, micaceous						
240 260 20 Linestone, brown to light-brown; also large smount of						
gray shaley siltstone						
260 275 15 Sandstone, light-gray, very fine, micaceous and calcareous;						
there is a large amount of limestone and some shale in						
the samples						
275 335 60 Limestone, brown to light-brown; also considerable amounts						
of gray siltstone and shale, and a little coal; much						
alluvial sand and some pebbles from above						
535 345 10 Siltstons, gray, micaceous						
345 350 5 Sandstone, light-gray, fine, micaceous						
350 1322 972 No samples						
1322 1352 30 Sandstone, light-gray to white, fine						
Greenbrier Limestone, 60 feet						
1352 1381 29 Sandstone, white, medium-grained 60%; clay and shale of						
various colors, probably cavings, 40%; a very few						
fragments of nearly white limestone, perhaps from						
Greenbrier (one sample)						
1381 1412 31 Limestone, nearly white, 5%; light brownish gray, fine,						
highly calcareous sandstone, 10%; white, medium-grained						
sandstone, 15%; clay and shale of various colors, 70%						
(one cample)						

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Тор	Bottom	Thickness	Pocono Formation, 593 foet
1412	1442	30	Sandstone, white, coarse; also a little shale of various
			colors and a very few pieces of light-brown to white
			limestone (one sample)
1442	1450	8	Sandstone, white, coarse
1450	1495	45	Sandstone, medium to coarse-grained
1495	1525	30	Sandstone, white, medium-to fine-grained
1525	1530	5	Sandstone, white, coarse
1530	1535	δ	Sandstone, white, medium-grained; a little coal and black
			shale
1535	1635	100	Sandstone, white to very light gray, medium- to fine-grained
1635	1675	40	Shale and siltstone, gray; proportion of siltstone
			increases toward bottom of interval
1675	1775	100	Siltstone, gray; in a general way this becomes coarser
			and more sandy toward bottom of interval
1775	1780	5	Sandstone, light-gray, very fine; only slightly coarser
			than the siltstone above and below
1780	1795	15	Siltstone, gray; sample from 1790-1795' has much shale
			cavings
1795	1875	80	Sandstone, white to light-gray, very fine; also includes
			considerable amounts of siltstons and a little gray shale
1875	1915	40	Siltstone and shale, gray; samples mixed with considerable
			amount of material from above
1915	1925	10	Siltstone, light-gray
1925	1955	30	Siltstone and shale, gray (samples in this interval
			contain large amounts of cavings or recirculated material,
			so it is difficult to determine true nature of rock
			drilled through)
1955	1975	20	Biltstone, gray, micaceous; relatively free from cavings
1975	2000	25	Shale, dark-gray, mostly silty; also some gray siltstone
2000	2005	Б	Sandstone, white to very light-brown and very light-green,
			very fine, 50%; light-gray siltstone, 40%; gray, silty
			shale, 10%
			(Berea Sandstone!)

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	Top	Bottom	Thickness	Bevonian Shales, 3825 feet
	2005	2010	б	Siltstone, gray (sample is mostly cavings of gray clay, etc.)
	<b>201</b> 0	2065	55	Siltstone, light-gray to grayish-green
	2065	21.05	40	Siltstone, green, gray and red, shaly (large amount of
				gray and red clay cavings)
	2105	2130	25	Siltstone, grayish-red, shaly
	2130	21.45	15	Siltstone, gray, shaly
	2145	2155	10	Siltstone, grayish-red, shaly
	2155	2165	10	Siltstone, light-gray, sandy
	21.65	2175	10	Siltstone, light-green to light-gray
	2176	2215	40	Siltstone and silty shale, gray to grayish-green; also
				some very fine sandstone (samples are mostly cavings)
	2215	2235	20	Siltstone and shale, gray to grayish-green
	2235	2240	δ	Sandstone, nearly white, fine, calcareous
	2240	2245	5	Siltstone and shale, gray
	2245	2250	5	Sandstone, light-gray, very fine
	<b>2</b> 250	2280	30	Siltatone and shale, gray to grayish-green
	2280	2290	10	Sandstone, light-green, very fine; also some shale and
•				siltatone
	2290	2300	10	Siltstone, grayish-red
	2300	2310	10	Siltstone and shale, green, grayish-red, etc. (samples
				are mostly cavings)
	2310	2320	10	Shale and siltstone, gray? (samples mostly cavings)
	2320	<b>23</b> 25	5	Siltatone, grayish-green
	2325	2340	15	Sandstone, nearly white, fine
	2340	2380	40	Siltstone and shale, gray, green, and red (samples mostly
				cavings)
	2380	2400	20	Sandstone, light-gray to white, very fine; also much shale
				and siltstone
		2420	20	Nearly all cavings
		2440	20	Siltatone and shale, grayish-green with a little red
		2460	20	Sandstone, light-gray, very fine
		2470	10	Sandstone, light-gray, very fine, 80%; gray, silty shale,20%
	2470	2510	40	Shale and siltstone, gray to grayish-green (samples mostly
				cavings)

Top	Bottom	Thickne ss	
2510	2530	20	Siltstone, grayish-red, micaceous
2530	2570	40	Siltstone, gray, grayish-green, and grayish-red, shaly
2570	<b>26</b> 40	70	Probably gray shale and siltstone; samples are mostly cavings
2640	3290	660	Siltstone, gray to grayish-green; also some gray shale
			and cavings of red, gray, and green clay, limestone,
			sandstone and coal; the large amount of contamination
			of the samples renders it impossible to describe accurately
			the sediments drilled through in this interval
3290	3300	10	Shale, gray, 50%; light-gray siltstone, 50%; much less
			cavings than in samples from above
3300	3310	10	Sandstone, light-gray to white, very fine, grading into
			siltstone, 60%; gray shale, 40%
3310	3410	100	Shale, gray, 60 to 70%; lighter gray-siltstone, 40 to 30%
3410	5430	20	Siltstone, light-gray, 70%; gray to dark-gray shale, 30%
3 <b>43</b> 0	) 35 <b>20</b>	90	Shale and siltstone, gray; there is considerable variation
			in individual samples, but average amounts of the two
			rooks are about the same; the shale contains some thin
			streaks of dark-gray to brownish color
3520	5680	160	Siltstone, gray to grayish-green, 40 to 60%; gray shale,
			60 to 40%; about the same as 3450-3520'
3680	4170	490	Shale, gray to dark-gray, 50 to 80%; gray siltstone,
			50 to 30%; not sharply separated from the interval above
			but texture is finer and average color darker;
			individual fragments show every graduation from shale
			to siltstone and some plainly show the interstratification
			of shale and siltatone
4170	) 4930	560	No samples
4930	4990	60	Shale, gray; about 10% of very dark gray shale fragments
4990	5010	20	Shale, gray; same as interval above except that amount of
			very dark gray shale increases to 20 or 30%
5010	5260	250	Shale, gray; about 10 to 20% of very dark gray shale, at
			least a part of which is finely interstratified with the
			lighter shale as shown by fragments consisting of shale
			of both colors; a few small spores are present in some
			of the dark shale