

INTERVAL SHEET

WWCR #591

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VDMR WELL NO.: Well No. 931

Date 12/13/63

Sample Interval: from 0 to 280

PROP: American Tel. & Tel. Co.  
 Short Hill #3  
 COMP: Sydnor Pump & Well Co., Inc.

Total Depth 289'

Oil  Gas  Water  Exploratory

COUNTY: Loudoun

Cuttings  Core  Other

VDMR Well No: W-931

Washed samples - only

From-To	From-To	From-To	From-To	From-To
-	-	0 - 10	-	-
-	-	10 - 20	-	-
-	-	20 - 30	-	-
-	-	30 - 40	-	-
-	-	40 - 50	-	-
-	-	50 - 60	-	-
-	-	60 - 70	-	-
-	-	70 - 80	-	-
-	-	80 - 90	-	-
-	-	90 - 100	-	-
-	-	100 - 120	-	-
-	-	120 - 130	-	-
-	-	130 - 140	-	-
-	-	140 - 150	-	-
-	-	150 - 160	-	-
-	-	160 - 170	-	-
-	-	170 - 180	-	-
-	-	180 - 190	-	-
-	-	190 - 200	-	-
-	-	200 - 210	-	-
-	-	210 - 220	-	-
-	-	220 - 230	-	-
-	-	230 - 240	-	-
-	-	240 - 250	-	-
-	-	250 - 260	-	-
-	-	260 - 270	-	-
-	-	270 - 280	-	-
-	-	280 - 289 no sample	-	-
-	-	-	-	-
-	-	-	-	-

OWNER: American Telephone & Telegraph Co.  
Short Hill Mountain #3  
DRILLER: Sydnor Pump & Well Co.  
COUNTY: Loudoun

VDMR #931  
WWCR #591  
TOTAL DEPTH: 289'

GEOLOGIC LOG

Overburden (0-50)

- 0- 10 Overburden - medium brown, coarse to fine grained, quartz, feldspar, sericite, clay, iron staining, minor euhedral magnetite.
- 10- 20 As above - with fragments of phyllite, weathered arkose and hornblende-magnetite schist.
- 20- 30 As above - with vein quartz, no hornblende-schist.
- 30- 40 As above.
- 40- 50 As above.

Catoctin Formation (50-280)

- 50- 60 Hornblende Phyllite - medium dark gray, and medium brown, medium grained, hornblende, sericite, chlorite, plagioclase, iron oxides, clay, minor pyrite.
- 60- 70 Metamorphosed Arkose - pink and white with minor brown, coarse grained to fine grained, potash feldspar, quartz, muscovite, minor hornblende, minor sericite, chlorite, hornblende and magnetite, open fractures lined with secondary pink feldspar crystals and quartz crystals.
- 70- 80 Metamorphosed Arkose and Greenstone - metamorphosed arkose as above; greenstone - medium green-gray, medium to fine grained, chlorite, hornblende, epidote, sericite, minor pyrite, vein quartz in both rocks.
- 80- 90 Greenstone - medium dark green-gray, medium-fine, chlorite, hornblende, epidote, sericite, minor pyrite, with vein quartz.
- 90-100 As above.
- 100-110 As above - slightly darker, more hornblende.
- 110-120 As above - slightly lighter, less hornblende.

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- 120-130 Greenstone - medium dark green-gray, medium-fine, chlorite, hornblende, epidote, sericite, with vein quartz.
- 130-140 Chloritic Metamorphosed Arkose - medium gray-green and white, medium and fine grained, potash feldspar, quartz, chlorite, epidote and hornblende. (X-ray examination showed stilpnomelane and plagioclase).
- 140-150 As above - light green-gray, more quartz and feldspar.
- 150-160 As above - medium green-gray, coarse grained.
- 160-170 Chloritic Phyllite - medium green-gray, fine grained, foliated, chlorite, sericite, epidote, feldspar, minor pyrite.
- 170-180 Hornblende Phyllite - dark green-gray, fine grained, hornblende, chlorite, quartz, feldspar, magnetite and minor pyrite.
- 180-190 As above - darker.
- 190-200 As above - with coarse grained pink and white vein fillings of potash feldspar and quartz, more pyrite.
- 200-210 As above - no vein fillings. (X-ray examination showed amphibole, chlorite, plagioclase, epidote, and small amounts of biotite).
- 210-220 Greenstone - medium gray-green, medium to coarse grained, chlorite, epidote, plagioclase, veins of potash feldspar, and quartz; coarse crystals of feldspar and blebs of quartz throughout which may be of secondary origin.
- 220-230 Greenstone - medium-dark, gray-green, fine to medium grained, chlorite, epidote, hornblende, plagioclase, with minor veins containing crystals of quartz and feldspar.
- 230-240 As above - with scattered quartz, feldspar and pyrite, no discernable veins.

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- 240-250 Chloritic Phyllite - medium gray-green, fine to coarse grained, good foliation, chlorite, epidote, feldspar, fractures and veins with quartz and feldspar, very minor pyrite.
- 250-260 As above - less vein material, more pyrite, very minor biotite.
- 260-270 As above - approximately 1/3 of sample is vein material.
- 270-280 Metamorphosed Arkose - medium light-gray-green, coarse grained. (50% green potash feldspar, 25% quartz, 25% greenstone type material, chlorite, epidote, plagioclase).
- 280-289 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0- 50	Overburden	Quaternary
50-280	Catoctin Formation	Precambrian
280-289	No sample	

Virginia Division of Mineral Resources  
 Hollis N. Walker, Geologist  
 November 29, 1964