

INTERVAL SHEET

WWCR 589

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VDMR WELL NO.: Well No.929

Date 12/11/63

Sample Interval: from 0 to 480

PROP: American Tel. & Tel. Co.
Short Hill #1

Total Depth 491'

COMP: Sydnor Pump & Well Co.

Oil Gas Water X Exploratory

COUNTY: Loudoun

Cuttings X Core Other

VDMR Well No: W-929

Washed samples - only

From-To	From-To	From-To	From-To	From-To
-	-	0 - 10	300 - 310	-
-	-	10 - 20	310 - 320	-
-	-	20 - 30	320 - 330 no sample	-
-	-	30 - 40	330 - 340	-
-	-	40 - 50	340 - 350	-
-	-	50 - 60	350 - 360	-
-	-	60 - 70	360 - 370	-
-	-	70 - 80	370 - 380	-
-	-	80 - 90	380 - 390	-
-	-	90 - 100	390 - 400	-
-	-	100 - 110	400 - 410	-
-	-	110 - 120	410 - 420 no sample	-
-	-	120 - 130	420 - 430	-
-	-	130 - 140	430 - 440	-
-	-	140 - 150	440 - 450	-
-	-	150 - 160 no sample	-	-
-	-	160 - 170	450 - 460	-
-	-	170 - 180	460 - 470	-
-	-	180 - 190 no sample	470 - 480	-
-	-	190 - 200	480 - 491 no sample	-
-	-	200 - 210	-	-
-	-	210 - 220	-	-
-	-	220 - 230	-	-
-	-	230 - 240	-	-
-	-	240 - 250	-	-
-	-	250 - 260	-	-
-	-	260 - 270	-	-
-	-	270 - 280	-	-
-	-	280 - 290	-	-
-	-	290 - 300	-	-

OWNER: American Telephone & Telegraph Co.
Short Hill Mountain #1
DRILLER: Sydnor Pump & Well Co.
COUNTY: Loudoun

VDMR #929
WWCR #589
TOTAL DEPTH: 491'

GEOLOGIC LOG

Overburden (0-30)

- 0- 10 Overburden - medium gray and brown, fine grained weathered phyllite, sericite, euhedral magnetite, quartz, limonite, iron oxide staining.
- 10- 20 Weathered Phyllite - dark gray and light brown, fine grained, sericite, magnetite, feldspar, quartz, amphibole, and minor garnet.
- 20- 30 As above.

Weverton Formation (30-480)

- 30- 40 Phyllite - very light brown, fine grained sericite, magnetite, goethite, quartz, iron oxide splotchy stain.
- 40- 50 As above.
- 50- 60 As above.
- 60- 70 Phyllite - light gray, shiny, fine grained, sericite, euhedral magnetite, sericite, chlorite, quartz.
- 70- 80 As above - with minor pyrite.
- 80- 90 As above - with amphibole.
- 90-100 As above.
- 100-110 Phyllite - medium to light gray with minor brown, fine grained, sericite, magnetite, chlorite, amphibole, minor pyrite and garnet.
- 110-120 As above - no pyrite or garnet.
- 120-130 As above.
- 130-140 As above - more chlorite.

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- 140-150 Phyllite - medium to light gray, with minor brown, fine grained, sericite, magnetite, chlorite, amphibole, minor pyrite.
- 150-160 No sample.
- 160-170 Phyllite - medium to light gray, with minor brown, fine grained, sericite, magnetite, chlorite, amphibole, minor pyrite.
- 170-180 As above.
- 180-190 No sample.
- 190-200 Phyllite - medium gray and greenish, fine grained, sericite, chlorite, amphibole, quartz, minor pyrite, magnetite, garnet.
- 200-210 As above.
- 210-220 As above.
- 220-230 Hornblende Phyllite - dark gray, fine grained, hornblende, chlorite, sericite, feldspar, quartz, minor pyrite and magnetite.
- 230-240 As above.
- 240-250 Phyllite - medium gray, fine grained, sericite, amphibole, chlorite, feldspar, quartz, minor pyrite and magnetite.
- 250-260 Metamorphosed Arkose - medium gray, coarse grained, microcline, plagioclase, quartz, sericite, chlorite, minor garnet and pyrite.
- 260-270 Phyllite - medium gray, fine grained, sericite, chlorite, amphibole, quartz, magnetite concentrations.
- 270-280 Phyllite - medium dark gray, fine grained, chlorite, sericite, amphibole, and magnetite.
- 280-290 Metamorphosed Arkose - medium gray, coarse grained, potash feldspar, plagioclase, quartz, sericite, chlorite, minor garnet and pyrite, small augen of feldspar and quartz.

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- 290-300 Metamorphosed Arkose - medium gray, coarse grained, potash feldspar, plagioclase, quartz, sericite, chlorite, minor garnet and pyrite, small augen of feldspar and quartz.
- 300-310 As above - more chlorite.
- 310-320 Phyllite and Metamorphosed Arkose - dark green, fine grained phyllite, white, coarse grained metamorphosed arkose, chlorite, sericite, magnetite, feldspar, quartz, and minor pyrite.
- 320-330 No sample.
- 330-340 Metamorphosed Arkose - white with minor green, coarse to fine grained, potash feldspar, plagioclase, quartz, chlorite, sericite, minor magnetite and pyrite. *
- 340-350 As above.
- 350-360 As above - slightly more chlorite and sericite.
- 360-370 Metamorphosed Arkose - very light gray with dark green and pink, coarse grained, potash feldspar, quartz, plagioclase, chlorite, sericite, magnetite, epidote, minor iron oxides and pyrite. A few spherical oolites of magnetite after hematite.
- 370-380 As above - no oolites.
- 380-390 As above.
- 390-400 Arkosic Phyllite - medium gray, white and green, feldspar, quartz, chlorite, hornblende, epidote, pyrite, minor magnetite. *
- 400-410 As above - slightly darker.
- 410-420 No sample.
- 420-430 Hornblende Phyllite - dark gray, fine grained, hornblende, chlorite, sericite, feldspar, quartz, epidote, and magnetite.

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- 430-440 Arkosic Phyllite - medium gray, fine grained, feldspar, quartz, sericite, chlorite, hornblende, minor pyrite. *
- 440-450 Arkosic Phyllite - brownish-light gray, medium grained, feldspar, quartz, sericite, chlorite, zone of oxidation. *
- 450-460 As above - more oxidation.
- 460-470 As above.
- 470-480 As above - still more oxidation.
- 480-491 No sample.

* The samples noted above were so finely ground by the drill that a proper inspection of the relationships of the minerals to each other and of crystal size was impossible to obtain. The feldspar crystals may have been very large.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0- 30	Overburden	Quaternary
30-480	Weverton Formation	Cambrian
480-491	No sample	

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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