INTERVAL SHEET			WWCD 500
Page 1	WWCR 590 VDMR WELL NO.: Well No. 930		
Date 12/12/63	Sample Interval: from <u>0 to 510</u>		
PROP: American Tel. & Tel. Co.	Total Depth <u>516'</u> Oil Gas Water X Exploratory		
COMP: Sydnor Pump & Well Co.			
COUNTY: Loudoun	Cuttin	gs <u>X</u> Core()ther
VDMR Well No.: W-930	Washer	samples - only	
From-To From-To	From-To	From-To	From-To
	0 - 10	300 - 310	_
	10 - 20	310 - 320	
	20 - 30	320 - 330	-
	30 - 40	330_340	2 - 1 9
	40 - 50	340 - 350	-
	50 - 60	350 - 360	
	60 - 70	360 - 370 no sar	nple -
	70 - 80	370 - 400 no sar	
	80 _ 90	400 - 410	
	90 - 100	410 - 420	-
	100 - 110	420 - 430	
	110 - 120	430 - 440	
	120 - 130	440 - 450	a second - the
-	130 - 140	450 - 460	-
	140 - 150	460 - 470	-
	150 - 160	470 - 480	_
	160 - 170	480 - 490	
	172 -	490 - 500	
	170 - 180	500 - 510	-
	180 - 190	510-516 no sai	mple -
	190 - 200		_
	200 -210	-	
	210 - 220		
	220 - 230	에 이 가 방법 에 가 있으며 <mark>가</mark> 있다.	
	230 - 240		-
	240 - 260 no s	ample -	
-	260 - 270	-	
-	270 - 280	-	1 1 1 1 1 1 4 4 4 5 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
	280 - 290		-

OWNER: American Telephone & Telegraph Co. Short Hill Mountain #2 VDMR #930 WWCR #590 TOTAL DEPTH: 516'

DRILLER: Sydnor Pump and Well Co. COUNTY: Loudoun

GEOLOGIC LOG

Overburden (0-90)

- 0-10 Overburden light brown, fine grained, (weathered phyllite and quartz), sericite, amphibole, chlorite, euhedral magnetite, quartz and vein quartz, iron oxides and clay.
- 10-20 As above slightly darker.
- 20- 30 Overburden light brown, coarse grained (weathered metamorphosed arkose), feldspar, quartz, clay, sericite, minor amphibole and magnetite.
- 30-40 As above less clay and magnetite.
- 40-50 Weathered Metamorphosed Arkose very light brown, coarse grained, potash feldspar, plagioclase, quartz, sericite, chlorite, minor amphibole.
- 50- 60 As above.
- 60- 70 As above.
- 70-80 Metamorphosed Arkose (weathered) light gray and brown, coarse grained, feldspar, quartz, sericite, chlorite, minor amphibole.

80- 90 As above - with some dark gray.

Catoctin Formation (90-510)

90-100 Sericitic Metamorphosed Arkose - light gray, minor brown, medium grained, sericite, chlorite, potash feldspar, plagioclase, quartz, biotite, and minor pyrite.

- 100-110 As above light brown, less feldspar.
- 110-120 As above with slickensides.
- 120-130 Chloritic Metamorphosed Arkose medium gray-green, fine to coarse grained, chlorite, quartz, potash feldspar, plagioclase, sericite, amphibole, and pyrite.

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130-140 Chloritic Metamorphosed Arkose - medium gray-green, fine to coarse grained, chlorite, quartz, potash feldspar, plagioclase, sericite, amphibole, and pyrite.

140-150 As above - more feldspar.

150-160 As above.

160-170 Chloritic Metamorphosed Arkose - medium gray-green, fine to coarse grained, chlorite, potash feldspar, plagioclase, quartz, sericite, amphibole, minor pyrite and garnet, some augen of light minerals.

172 As above - vein of quartz and calcite.

170-180 As above - no garnet or augen, with pink potash feldspar.

- 180-190 As above.
- 190-200 Greenstone medium gray-green, medium to fine grained, chlorite, sericite, feldspar, epidote, quartz, and amphibole, minor pyrite.

200-210 As above - darker, more amphibole.

210-220 As above - very dark gray.

- 220-230 Phyllite medium green-gray, shiny, fine grained, chlorite and sericite.
- 230-240 As above.
- 240-260 No sample.

260-270 Chloritic Metamorphosed Arkose - light green and white, fine and coarse grained, potash feldspar, plagioclase, chlorite, quartz, sericite, minor pyrite.

270-280 Phyllite and Metamorphosed Arkose - medium graygreen and white, fine and coarse grained, chlorite, sericite, feldspar, quartz, amphibole, and minor pyrite.

280-290 Phyllite - medium greenish-gray, fine grained, chlorite, sericite, hornblende.

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290-300	Greenstone - dark gray-green, very fine grained, probably composed of chlorite, sericite and epidote.
300-310	Phyllite and Metamorphosed Arkose - dark green, fine grained, and white coarse grained, chlorite, sericite, feldspar, quartz, amphibole, and pyrite.
310-320	Greenstone - dark green-gray, very fine to coarse grained, chlorite, amphibole, quartz, and feldspar.
320-330	Chloritic Metamorphosed Arkose - medium light gray, coarse to fine grained, quartz, chlorite, minor pyrite.
330-340	As above - slightly greener.
340-350	Greenstone - medium gray, fine grained, chlorite, sericite, feldspar, quartz, minor pyrite and epidote.
350-360	Chloritic Metamorphosed Arkose - light green-gray, fine and coarse grained, feldspar, quartz, chlorite, sericite, amphibole, minor pyrite.
360-400	No sample.
400-410	Greenstone - medium gray-green, fine grained, chlorite, sericite, epidote with quartz and calcite vein material.
410-420	Greenstone and Chloritic Metamorphosed Arkose - dark green and light green, fine and coarse grained, chlorite, quartz, feldspar, and amphibole.
420-430	Greenstone - medium gray-green, fine grained, chlorite, sericite, epidote, quartz and minor pyrite.
43 <mark>0-44</mark> 0	Chloritic Metamorphosed Arkose - light gray-green, fine to coarse grained, quartz, feldspar, chlorite, sericite, minor amphibole and pyrite.
440-450	As above - with white and pink feldspar.
450-460	As above - with layers of dark green chlorite.

0

#930

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- 460-470 Greenstone medium dark gray, medium grained, chlorite, sericite, quartz, feldspar, amphibole, and minor pyrite.
- 470-480 Chloritic Metamorphosed Arkose medium graygreen and white, minor dark green, chlorite, feldspar, quartz, amphibole, minor pyrite.
- 480-490 As above.
- 490-500 As above.

500-510 As above - darker, more chlorite.

510-516 No sample.

GEOLOGIC SUMMARY

Rock type - metamorphosed lava flows interbedded with arkoses and perhaps some shale, now all metamorphosed arkoses and greenstones.

ROCK UNIT

TIME ROCK UNIT

0- 90 Overburden

Quaternary

Precambrian

- 90-510 Catoctin Formation
- 510-516 No sample

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