

INTERVAL SHEET

WWCR - 934

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VDMR Well No: 1073

Date rec'd: 6/26/64

Sample Interval: from 0 to 615

PROP: National Park Service
(Dundo Test Hole #1, Site #3)

Number of samples: 123

COMP: Martin Drilling Company

Total Depth: 615

COUNTY: Albemarle (Shenandoah Natl. Park) Oil or Gas: Water: ^X Exploratory:
Washed samples only

From-To	From-To	From-To	From-To
0 - 5	150 - 155	300 - 305	450 - 455
5 - 10	155 - 160	305 - 310	455 - 460
10 - 15	160 - 165	310 - 315	460 - 465
15 - 20	165 - 170	315 - 320	465 - 470
20 - 25	170 - 175	320 - 325	470 - 475
25 - 30	175 - 180	325 - 330	475 - 480
30 - 35	180 - 185	330 - 335	480 - 485
35 - 40	185 - 190	335 - 340	485 - 490
40 - 45	190 - 195	340 - 345	490 - 495
45 - 50	195 - 200	345 - 350	495 - 500
50 - 55	200 - 205	350 - 355	500 - 505
55 - 60	205 - 210	355 - 360	505 - 510
60 - 65	210 - 215	360 - 365	510 - 515
65 - 70	215 - 220	365 - 370	515 - 520
70 - 75	220 - 225	370 - 375	520 - 525
75 - 80	225 - 230	375 - 380	525 - 530
80 - 85	230 - 235	380 - 385	530 - 535
85 - 90	235 - 240	385 - 390	535 - 540
90 - 95	240 - 245	390 - 395	540 - 545
95 - 100	245 - 250	395 - 400	545 - 550
100 - 105	250 - 255	400 - 405	550 - 555
105 - 110	255 - 260	405 - 410	555 - 560
110 - 115	260 - 265	410 - 415	560 - 565
115 - 120	265 - 270	415 - 420	565 - 570
120 - 125	270 - 275	420 - 425	570 - 575
125 - 130	275 - 280	425 - 430	575 - 580
130 - 135	280 - 285	430 - 435	580 - 585
135 - 140	285 - 290	435 - 440	585 - 590
140 - 145	290 - 295	440 - 445	590 - 595
145 - 150	295 - 300	445 - 450	595 - 600

OWNER: National Park Service (Shenandoah)
(Dundo Test Hole #1, Site #3)
DRILLER: F. W. Martin Drilling Company
COUNTY: Albemarle (Shenandoah National Park)

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TOTAL DEPTH: 615'

GEOLOGIC LOG

Depth in feet

WEAVERTON FORMATION (0-140')

- 0-5 Arenaceous Phyllite - light gray and light reddish-brown, medium- to fine-quartz sand in clay matrix; some quartz-granule conglomerate; trace of graphite; all slightly iron-oxide stained and weathered.
- 5-10 " some hematite fracture-filling.
- 10-15 "
- 15-20 "
- 20-25 Argillaceous Sandstone - light gray to buff; medium to coarse-grained, slightly conglomeratic, with clay matrix; iron-oxide stained; slightly weathered.
- 25-30 " little weathering.
- 30-35 " "
- 35-40 " "
- 40-45 " with considerable vein quartz.
- 45-50 Quartzite, Quartzite Conglomerate, and Arenaceous Phyllite - light gray to buff; iron-oxide stained, fine-grained; conglomerate contains angular quartz granules and small pebbles.
- 50-55 Quartz-Sericite-Phyllite and Sandy Phyllite - light gray to light tan; fine- to medium-grained quartz sand in clay matrix; traces of quartzite and vein quartz.
- 55-60 "
- 60-65 " with some conglomeratic quartzite.
- 65-70 " "
- 70-75 " "

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- 75-80 Quartz-Sericite-Phyllite - light gray; sandy, slightly weathered; trace of quartzite conglomerate.
- 80-85 "
- 85-90 "
- 90-95 "
- 95-100 Quartz-Sericite-Phyllite - light gray; sandy and slightly weathered.
- 100-105 "
- 105-110 Quartzite - light grayish-tan; fine grained, well-sorted angular quartz sand; some quartz-sericite-phyllite and conglomeratic quartzite.
- 110-115 Quartzite - light gray; fine grained, sheered; some argillaceous quartzite and quartz-sericite-phyllite.
- 115-120 "
- 120-125 "
- 125-130 "
- 130-135 Conglomeratic quartzite - blue quartz granules with red iron cement; some light greenish-gray quartz-sericite-phyllite, and coarse-grained iron-cemented quartzite.
- 135-140 "

LOUDOUN FORMATION (140-235')

- 140-145 Chlorite schist - light grayish-green; very fine-grained; chlorite slickensides, plagioclase and trace of epidote; some sericite-phyllite and conglomeratic quartzite.
- 145-150 " little clastic material.
- 150-155 Chlorite schist - light grayish-green; very fine-grained; chlorite slickensides, plagioclase and trace of epidote; some sericite-phyllite and conglomeratic quartzite.
- 155-160 "

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- 160-165 Chlorite schist - light grayish-green; very fine-grained; chlorite slicken-sides, plagioclase and trace of epidote; some sericite-phyllite and conglomeratic quartzite.
- 165-170 "
- 170-175 Phyllite - dark purplish-gray-green; very fissile; zones of quartz clasts, grains of epidote and orange-red feldspar (probably pyroclastic material.)
- 175-180 "
- 180-185 "
- 185-190 "
- 190-195 "
- 195-200 "
- 200-205 " with some quartz sand.
- 205-210 Quartzite conglomerate - pebbles or boulders of medium-grain quartzites with iron cement, in matrix of fine-quartz sand and green, very fine-grained silt or pyroclastic material.
- 210-215 Phyllite - purplish gray-green; very fissil; with disseminated fine-grained quartz sand; some slickensides.
- 215-220 "
- 220-225 "
- 225-230 " with feldspar veinlets and chlorite segregations on slickenside surfaces.
- 230-235 " "

CATOCTIN FORMATION (235-615')

- 235-240 Greenstone - dark greenish-gray and purplish-gray; fine grained, massive, slickensides; chlorite, plagioclase, traces of epidote and hematite.
- 240-245 " with some asbestos and jasper.
- 245-250 "

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- 250-255 Chlorite schist - dark greenish- and purplish-gray; considerable slickenside development, very fissle; some jasper.
- 255-260 " less fissle, little jasper.
- 260-265 "
- 265-270 "
- 270-275 " less fissle, no jasper.
- 275-280 "
- 280-285 "
- 285-290 "
- 290-295 "
- 295-300 "
- 300-305 "
- 305-310 "
- 310-315 "
- 315-320 Metamorphosed Basalt - dark gray-green and purplish-gray; fine grained, massive; some jasper and slickensides.
- 320-325 "
- 325-330 "
- 330-335 Metamorphosed Basalt - dark purplish-gray; very fine-grained; feldspar and epidote amygdules, some asbestos and calcite along slickenside surfaces.
- 335-340 "
- 340-345 " few amygdules, no asbestos.
- 345-350 " "
- 350-355 " "
- 355-360 " "

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360-365	Metamorphosed Basalt - dark purplish-gray; very fine-grained; feldspar and epidote amygdules, some asbestos and calcite along slickenside surfaces.
365-370	"
370-375	"
375-380	"
380-385	Andesitic Basalt - dark purplish-gray to dark greenish-gray; very fine grained; tuffaceous; sheered feldspar and epidote amygdules, trace of asbestos.
385-390	"
390-395	"
395-400	"
400-405	"
405-410	"
410-415	"
415-420	"
420-425	" less tuffaceous, no amygdules.
425-430	" "
430-435	" "
435-440	" "
440-445	" with considerable asbestos.
445-450	" "
450-455	" "
455-460	" "
460-465	" "
465-470	" "
470-475	" "
475-480	" "
480-485	" "

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- 485-490 Andesitic Basalt - dark purplish-gray; very fine-grained, massive; many feldspar and epidote amygdules; trace of slickensides.
- 490-495 Greenstone - dark greenish-gray; very fine-grained, schistose; few feldspar amygdules.
- 495-500 Andesitic Basalt - dark purplish-gray, very fine-grained, massive; some feldspar amygdules, epidote, jasper.
- 500-505 Greenstone - dark greenish-gray; very fine-grained, schistose; few feldspar amygdules, trace of asbestos.
- 505-510 Andesitic Basalt - dark purplish-gray, very fine-grained, massive; many feldspar and epidote amygdules, trace of asbestos.
- 510-515 "
- 515-520 "
- 520-525 "
- 525-530 "
- 530-535 "
- 535-540 "
- 540-545 "
- 545-550 "
- 550-555 "
- 555-560 "
- 560-565 "
- 565-570 "
- 570-575 " few amygdules, more phyllitic.
- 575-580 " "
- 580-585 " "
- 585-590 " "

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- 590-595 Basalt - dark purplish-gray, very fine-grained, massive, amygduloidal;
white and pink feldspar amygdules with epidote centers.
- 595-600 " with trace of asbestos, some slickensides.
- 600-605 " " with some weathered basalt.
- 605-610 " "
- 610-615 " "

GEOLOGIC SUMMARY

<u>Rock Unit</u>		<u>Age</u>
0-140'	Weaverton Formation	Cambrian
140-235'	Loudoun Formation	Cambrian
235-615'	Catoctin Formation	Cambrian

Virginia Division of Mineral Resources
T. M. Gathright, Geologist
May 23, 1967