

INTERVAL SHEET

WWCR: 89

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VDMR Well No: 1789

Date rec'd: 1/5/67

Sample Interval: from 0' to: 400'

PROP: United Elastic Corp.  
(Stuart Plant, Well #3)

Number of samples: 49

COMP: Sydnor Hydrodynamics

Total Depth: 400'

COUNTY: Patrick (Stuart)

Oil or Gas: Water:x Exploratory:

From-To	From-To	From-To	From-To
0 - 3	233 - 243	-	-
3 - 10	243 - 253	-	-
10 - 18	253 - 257	-	-
18 - 28	257 - 267	-	-
28 - 38	267 - 270	-	-
38 - 49	270 - 274	-	-
49 - 54	274 - 281	-	-
54 - 57'9"	281 - 291	-	-
No-Sample	291 - 301	-	-
60 - 65	301 - 310	-	-
65 - 72'11"	310 - 323	-	-
72'11" - 75	323 - 331	-	-
75 - 80	331 - 333	-	-
80 - 90	333 - 345	-	-
90 - 100	345 - 350	-	-
100 - 110	350 - 360	-	-
110 - 113	360 - 370	-	-
113 - 118	370 - 380	-	-
118 - 128	380 - 390	-	-
128 - 138	390 - 400	-	-
138 - 143	-	-	-
143 - 153	-	-	-
153 - 163	-	-	-
163 - 173	-	-	-
173 - 183	-	-	-
183 - 193	-	-	-
193 - 203	-	-	-
203 - 213	-	-	-
213 - 223	-	-	-
223 - 233	-	-	-

All intervals have both washed and unwashed samples

OWNER: United Elastic Corp. (Stuart Plant, Well #3)  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Patrick (Stuart)

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TOTAL DEPTH: 400'

GEOLOGIC LOG

Depth in feet

0-3	Shale - brown, silt-size, fissile, soft fragments; strong oxidization of iron minerals
3-10	Sandy gravel - tan, weathered and oxidized; rounded to sub-angular, medium sand to pebble-size grains of biotite gneiss, vein quartz and quartz
10-18	"
18-28	Saprolitic mica gneiss - tan, very weathered, considerable oxidization of iron minerals; subangular to angular, fine-grained; quartz, feldspar and mica
28-38	"
38-49	" less weathering
49-54	" "
54-57 3/4	" "
57 3/4-60	No sample
60-65	Saprolitic mica gneiss - tan, oxidization of iron minerals; subangular to angular, fine-grained; quartz, feldspar and mica
60-72.1	"
72.1-75	Biotite gneiss - gray, very slight iron-oxide staining, fine-grained; quartz, feldspar, biotite, and minor amount of sericite
75-80	" no iron-oxide staining
80-90	" "
90-100	" "
100-110	" "
110-113	"

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113-118	Biotite gneiss - gray, fine-grained; quartz, feldspar, biotite, and minor amount of sericite, with vein quartz
118-128	" with trace of pyrite, no vein quartz
128-138	" with vein quartz
138-143	Biotite gneiss - gray, fine-grained, slightly foliated; feldspar, quartz, biotite; minor amount of sericite, and trace of amphiboles
143-153	"
153-163	"
163-173	"
173-183	" light-gray; less biotite
183-193	" "
193-203	" "
203-213	" "
213-223	" "
223-233	"
233-243	"
243-253	"
253-257	"
257-267	" light-gray; less biotite
267-270	" "
270-274	" "
274-281	" "
281-291	" "

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291-301	Gneiss - white to slightly grayish-white, medium to fine-grained; almost entirely feldspar with some quartz and minor amounts of biotite and sericite
301-310	"
310-323	"
323-331	Biotite-amphibole-gneiss - dark-gray, fine-grained, lineated; feldspar, biotite, quartz, amphiboles, and trace of sericite
331-333	Biotite gneiss - gray to light-gray, fine-grained, lineated to foliated; feldspar, quartz, biotite, and trace of sericite
333-345	"
345-350	"
350-360	"
360-370	"
370-380	"
380-390	"
390-400	"

#### GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-18'	Alluvium	Recent
18-72'1"	Saprolite	
72'1"-400'	Wissahickon Formation (?)	Precambrian (?)

Virginia Division of Mineral Resources  
Robert G. Willson, Geologist  
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