INTERVAL SHEET

WWCR 954

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VDMR Well No.: Well No. 1320

Date 6/15/65

Sample Interval: from 0 to 400

PROP: Sydnor (West Leigh #3)

Total depth 404

COMP: Sydnor Pump & Well Co.

Oil ___ Gas ___ Water X Exploratory ___

COUNTY: Albemarle (Ivy)

Cuttings X Core ___ Other ___

VDMR Well No: W-1320

Washed samples

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	-
-	-	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 - 404 No sample	-
-	-	110 - 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 - 290	-	-
-	-	290 - 300	-	-

OWNER: Sydnor Pump & Well Co., Inc. VDMR #1320
(West Leigh Subdivision - Well #3) WWCR #954
DRILLER: Sydnor Pump & Well Co., Inc. TOTAL DEPTH: 404'
COUNTY: Albemarle (Ivy)

GEOLOGIC LOG

Lovingston Formation (0-400')

0-10	Residuum — dark-brown with creamy-white; flaky, coarse-grained; biotite, muscovite, quartz, epidote, plagioclase, clay, minor apatite, and iron oxides.
10-20	As above — more feldspar.
20-30	As above.
30-40	As above.
40-50	Gneiss — black, pale-brown, nearly-white, coarse-grained; biotite, muscovite, alkali-feldspar, quartz, epidote, minor apatite, garnet, trace zircon, minor iron oxide.
50-60	As above.
60-70	As above — minor hornblende; less iron oxide.
70-80	As above. — more feldspar.
80-90	As above.
90-100	Gneiss — black and white, coarse-grained; biotite, alkali-feldspar, calcite, quartz, muscovite, garnet, epidote; white mineral concentrated in augen, porous.
100-110	As above — no calcite; garnet to 6 mm.
110-120	As above — more feldspar, quartz, and epidote.
120-130	As above.
130-140	As above — more epidote.
140-150	Gneiss — medium-dark-gray to pale-greenish-gray, biotite, quartz, epidote, feldspar, chlorite, minor garnet, and hornblende, minor areas cataclastic texture; chloritic fragment foliated.
150-160	As above — slightly more garnet.
160-170	As above.

OWNER: Sydnor Pump & Well Co., Inc. (West Leigh Subdivision - Well #3)

170-180	Gneiss — white and black, coarse-grained; slight lineation; biotite, microcline, albite, quartz, minor garnet, apatite, and epidote; trace pyrite, zircon, and chlorite.
180-190	As above — more feldspar.
200-210	As above — more biotite; minor alteration epidote, iron stain, slight pink color in feldspar.
210-220	Gneiss — white and black, coarse-grained; biotite, muscovite, feldspar, quartz; minor epidote, garnet, apatite, and zircon, trace hornblende and pyrite.
220-230	As above — more biotite, slight lineation.
230-240	As above — slightly less biotite.
240-250	As above.
250-260	As above.
260-270	As above.
270-280	As above — dark minerals concentrated in layers, trace pyrite.
280-290	Granite — pale-pink and black, crystals to 10 mm; potash feldspar, plagioclase, quartz, biotite, muscovite, epidote, garnet, apatite, zircon, pyrite.
290-300	Gneiss — very-dark-gray and very-light-gray, coarse-grained; biotite, feldspar, quartz, garnet, muscovite, minor pyrite.
300-310	As above — light and dark minerals concentrated in separate fragments.
310-320	Granite — very-pale-greenish and pinkish-gray with black; very-coarse-grained; potash feldspar, quartz, plagioclase, biotite, muscovite, epidote, garnet, zircon; trace pyrite.
320-330	Gneiss — black and nearly white; coarse-grained, augen structure; biotite, feldspar, quartz, epidote, muscovite; minor garnet, zircon, and pyrite.
330-340	As above — more feldspar, very-faint-iron-stain.
340-350	As above — more garnet and pyrite, no iron stain.
350-360	Granite — white and black, very-coarse-grained; feldspar, quartz, garnet, biotite; trace pyrite.

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360-370	Gneiss — black and white, coarse-grained, augen structure; biotite, feldspar, quartz, and garnet, minor pyrite and zircon.
370-380	As above — very minor iron stain.
380-390	As above.
390-400	As above — more iron stain, slight kaolinization of feldspar.
400-404	No sample.

GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
0-400	Lovingston Formation	Precambrian
400-404	No sample	

The increase in epidote and chlorite from 110 ft. to 170 may be due to nearby dike. Apatite was observed in all grain mounts; where it is not reported no grain mount was made.

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
June 18, 1965