WWCR 163

INTERVAL SHEET

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Date rec'd: 2/28/66

PROP: Kayhoe Const. Co. (Patterson Freezer Plant)

COMP: Mitchell's Well & Pump Co.

COUNTY: Chesterfield (Centralia)

VDMR Well No: 1508

Sample Interval: from 0 to 393

Number of samples: 39

Total Depth: 393

Oil or Gas: Water: X Exploratory:

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 - 393	-	-
90 - 100	-	-	-
100 - 110	-	-	-
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	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Kayhoe Construction Company (Patterson Freezer Plant)
DRILLER: Mitchell's Well & Pump Company
COUNTY: Chesterfield (Centralia)

VDMR #1508
WWCR #163
TOTAL DEPTH: 393'

GEOLOGIC LOG

Columbia Group (0-10')

0-10	Sand — brownish yellow, very argillaceous (30-40% clay); fine grained, well sorted, poorly rounded; slightly feldspathic and micaceous.

Patuxent Formation (10-130')

10-20	Sand — brownish yellow, argillaceous (15-25% clay), about 5% fine gravel (2-5 mm); medium to very coarse grained moderately sorted, subangular to subrounded; slightly feldspathic, some blue quartz; iron-staining common.
20-30	more and coarser gravel, including scattered fragments of quartzite.
30-40	numerous fragments and splinters of quartz and quartzite.
40-50	increase in fresh white potassic feldspar; less iron-staining; very few quartzite fragments.
50-60	"
60-70	"
70-80	"
80-90	Sand — buff, argillaceous, about 5% fine gravel (fresh, gray feldspar, white quartzite); medium to very coarse grained, fairly well sorted (skewed coarse), subangular to subrounded; arkosic (fresh, white and gray potassic feldspar); small amounts garnet and muscovite.
90-100	"
100-110	Sand — gray, slightly to moderately argillaceous, about 5% fine gravel (rounded pebbles and granules of quartz, feldspar, and a few granitic rock fragments); coarse to very coarse grained, fairly well sorted, subangular to subrounded; arkosic; traces of garnet, brown epidote, and muscovite.

W-1508

OWNER: Kayhoe Construction Company (Patterson Freezer Plant) # 1508

110-120	Sand — grayish brown, argillaceous, a few small pebbles; medium to very coarse grained, fairly well sorted, sub-angular to subrounded; arkosic; traces of muscovite and garnet.
120-130	"

Petersburg Granite (130-393')

130-140	Weathered Gneiss — light gray, fine to coarse grained, friable; quartz, biotite, potash feldspar, muscovite, clay, minor apatite.
140-150	"
150-160	Gneiss — light-gray, coarse grained, slightly weathered friable; potash feldspar, quartz, biotite, muscovite; minor garnet, pyrite apatite, magnetite, clay.
160-170	Gneiss — light-gray, coarse grained, microcline, quartz, oligoclase, biotite, muscovite, minor garnet, apatite, pyrite trace hornblende.
170-180	"
180-190	"
190-200	Gneiss — medium-light-greenish-gray, coarse grained; oligoclase, quartz biotite, hornblende, epidote, microcline, muscovite; minor chlorite sericite and pyrite.
200-210	less epidote, more microcline.
210-220	Gneiss — very-pale-pink and black; coarse-grained, microcline quartz, oligoclase biotite, epidote, hornblende; minor apatite, pyrite and muscovite.
220-230	Granitic Gneiss — very-pale-pink, minor black, coarse grained; microcline, quartz, oligoclase, biotite, muscovite, apatite, epidote, and sericite; minor pyrite, garnet, chlorite and hornblende.
230-240	"
240-250	"

W-1508

OWNER: Kayhoe Construction Company (Patterson Freezer Plant) #1508

250-260	Biotite Gneiss — black, pale-pink and pale-green, fine to coarse-grained; oligoclase, biotite, quartz, microcline, epidote, hornblende, muscovite, sericite, pyrite; trace garnet, apatite and pyrite.
260-270	"
270-280	"
280-290	Granitic Gneiss — very-pale-pink and minor black, very-coarse-grained; microcline, quartz, biotite, muscovite, minor garnet and pyrite.
290-300	"
300-310	"
310-320	more quartz and muscovite.
320-330	Biotite Gneiss — black and white, coarse-grained; biotite, muscovite, feldspar, quartz; minor epidote garnet and pyrite.
330-340	"
340-350	"
350-360	more epidote, minor hornblende.
360-370	Granite Biotite Gneiss — white, pale-pink, black; fine to coarse grained; feldspar quartz, biotite, muscovite; minor epidote and hornblende; trace garnet pyrite and iron oxide stain.
370-380	"
380-393	"

GEOLOGIC SUMMARY

	ROCK UNIT	AGE
0-10	Columbia Group	Paleocene-Pleistocene
10-130	Patuxent Formation	Early ~~Lower~~ Cretaceous
130-393	Petersburg Granite	Paleozoic (?)

Bedrock samples are of a biotite-granite gneiss, probably the Petersburg Granite of uncertain age. They have been finely crushed by the drill and the structure cannot be observed as the fragments are mono-mineralic.

R. H. Teifke 3/2/72

Virginia Division of Mineral Resources
Robert H. Teifke and Hollis N. Walker, Geologists
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