INTERVAL SHEET

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Date rec'd: 3/1/66

PROP: Lee Park Golf Club, Inc. #1

COMP: Mitchell's Well & Pump Co.

COUNTY: Prince George (Petersburg)

VDMR Well No: 1510

Sample Interval: from 0 to 224

Number of samples: 22

Total Depth: 224

Oil or Gas: Water: X Exploratory:

From-To		То	From-To	From-To	From-To
0	_	10	\ <u>-</u>	_	_
10		20	_	_	_
20	-	30	-	_	_
30	-	40	-	-	_
40	-	50	-	-	-
10		50			
50	_	60			
60	_	70	-	_	-
70	_	80	_	_	_
	_			_	_
80	_	90	_	_	_
90		100			
100	-	110	-	-	-
110	-	120	-	-	-
120	-	130	-	-	-
130	-	140	_	-	-
140	_	150	-	-	-
150	_	160	_	-	_
160	-	170	_	_	-
170	-	180	-	-	-
180	***	190	_	-	-
190	-	200	-	-	-
1,0		200			
200	20	210	_		
210		224	_	-	
210		444	_	_	_
	_		_	_	_
	_		_	_	_
	-		-	-	-
	_			-	-
	-		_	-	-
	_		_	-	-
	-		-	-	-

All intervals have both washed and unwashed samples.

OWNER: Lee Park Golf Club, Inc., Well #1
DRILLER: Mitchell's Well and Pump Company

COUNTY: Prince George (Petersburg)

VDMR #1510 WWCR #160 TOTAL DEPTH: 224'

GEOLOGIC LOG

Columbia Group (0-301)

- 0-10 Sand buff, argillaceous; fine- to medium-grained, well-sorted, angular to subangular; small amounts of feldspar and muscovite.
- 10-20 Sand buff, very argillaceous, a very few granules and very small pebbles; fine- to coarse-grained, moderately sorted (skewed fine), subangular; slightly feldspathic.
- Sand yellowish-brown, argillaceous, scattered pebbles (up to 15 mm); medium— to very-coarse-grained, moderately sorted, subangular; white potassic feldspar abundant, especially as coarser grains; small amounts of garnet, brown and green epidote, hornblende, muscovite, magnetite, kyanite, hematite, and limonite (granules).

Yorktown Formation (30-70')

- 30-40 Sand gray, argillaceous, a very few small pebbles; fineto medium-grained, fairly well sorted, angular to subrounded; scattered grains of feldspar and muscovite.
- 40-50 scattered, well-worn shell fragment (pelecypod and bryozoa).
- 50-60 Sand gray, argillaceous; fine- to medium-grained, fairly well sorted, subangular; small amounts of yellowish-green glauconite, hornblende, gray phosphorite, muscovite, epidote; a few small, well-worn shell fragments.
- Sand light-gray, argillaceous; fine-to medium-grained, fairly well sorted, subangular to subrounded; 10-20% coarse shell fragments (pelecypods, gastropods, echinoid spines); trace of yellow-green epidote; a very few foraminifera.

Pre-Yorktown Chesapeake Group (70-110')

- 70-80 Sand grayish-brown, moderately argillaceous, a few coarse shell fragments; fine- to very-coarse-grained, rather poorly sorted, subangular.
- 80-90 Clay light-gray, slightly sandy.
- 90-100 more sandy.

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100-110 Clay - light gray, slightly sandy.

Pamunkey Group (110-120')

110-120

Sand — black, with greenish cast, slightly to moderately argillaceous; about 5% rounded pebbles, including phosphate nodules up to 10 mm; fine-grained, well-sorted, subangular (coarser grains are rounded, polished); subequal amounts of clear to green-stained quartz and fresh glauconite; minor phosphorite and muscovite; traces of garnet and brown epidote; a few shell fragments and vertebrate remains.

Potomac Group (120-1601)

120-130 Sand — light-gray, moderately argillaceous to argillaceous, about 10% fine gravel; medium- to very-coarse-grained, poorly sorted, subangular to subrounded; arkosic.

130-140

140-150

150-160

Petersburg Granite (160-2241)

160-170 Biotite-Microcline Granite - gray.

170-180 Biotite-Microcline Granite - buff, weathered.

180-190

190-200 gray, much less biotite.

200-210 trace of pyrite.

210-224

GEOLOGIC SUMMARY

	ROCK UNIT	AGE
0-30	Columbia Group	Pliocene-Pleistocene
30-70	Yorktown Formation	Miocene
70-110	Pre-Yorktown Chesapeake Group	Miocene
110-120	Pamunkey Group	Eocene
120-160	Potomac Group	Lower Cretaceous
160-224	Petersburg Granite	Paleozoic

Virginia Division of Mineral Resources Robert H. Teifke, Geologist April 7, 1966