

INTERVAL SHEET

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VDMR Well No: 2210

Date rec'd: 6/68

Sample Interval: from 0 to: 100

PROP: State road right-of-way

Number of samples:

COMP: Froehling and Robertson

Total Depth: 100'

COUNTY: Sussex (Littleton)  
*Littleton Quad*

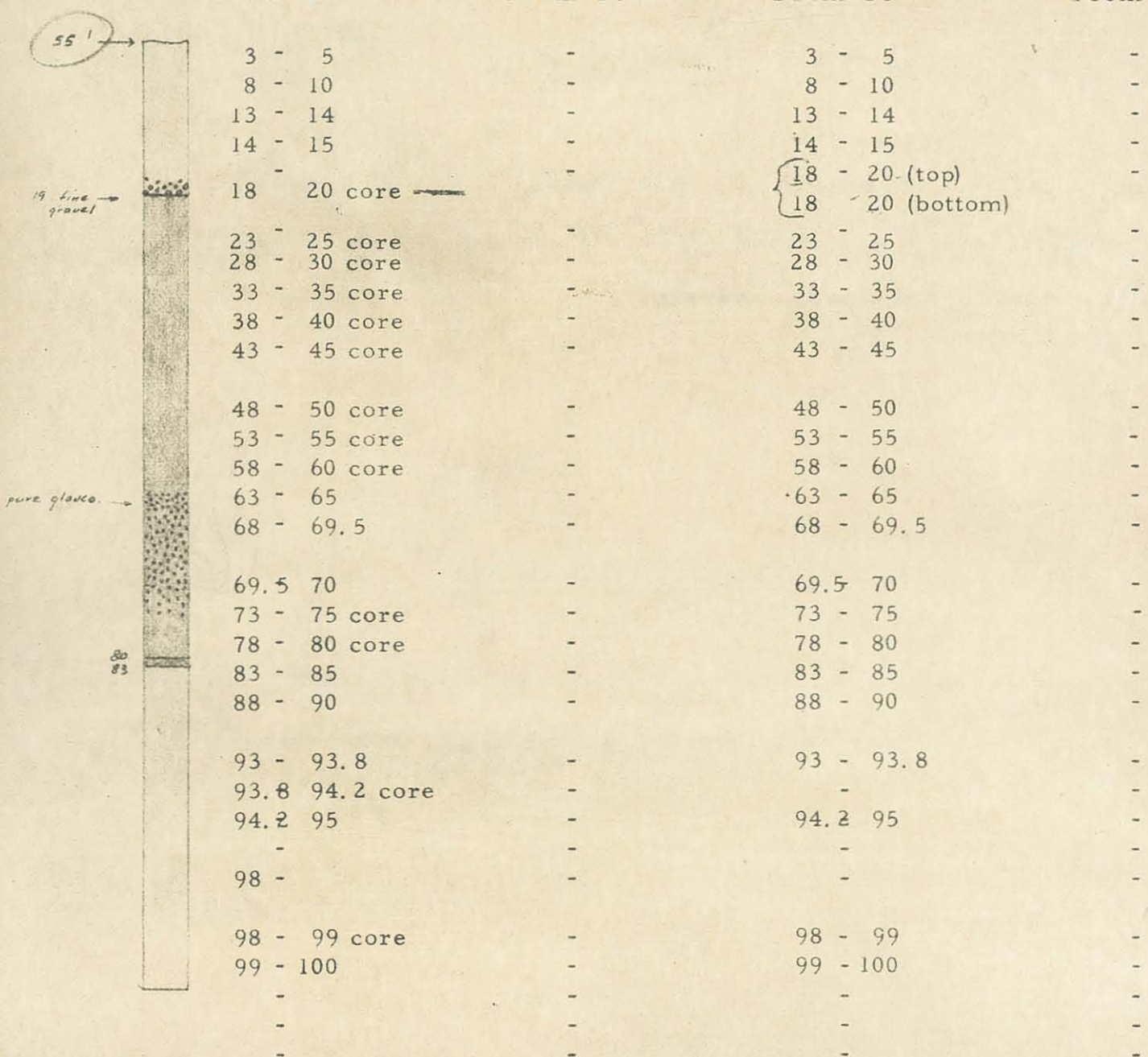
Oil or Gas: Water: Exploratory: X

UNWASHED  
From-To

From-To

WASHED  
From-To

From-To





County : Sussex

VDMR Well No. 221D

Well : ASL (Assamoosic Swamp, Littleton)

Property : State road right-of-way

Driller : Froehling and Robertson

Location : 1.4 miles E of Littleton on Rte. 622

Elevation : 55 feet

Total Depth : 100 feet

Started drilling : June 1968 Completed drilling : June 1968

Sample description by : R. H. Teisike, Virginia Division of  
Mineral Resources, November 21, 1968

### GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP ( $\frac{3}{\phi}$  - 18.5')

0-3 No sample

3-5 Sand - pale orange-brown, clean; fine to  
medium, well-sorted, angular to subangular;  
clean and yellowish quartz, with relatively  
abundant magnetite, garnet, epidote

5-8 No sample

8-10 Sand - yellowish-brown, traces of clay and  
granule gravel; fine to very coarse, poorly  
sorted, angular to subangular; clean and  
yellowish quartz, with some blue quartz



and feldspar; magnetite and epidote are  
common accessories

10-13

No sample

13-14

Sand - orange-brown, trace of clay and  
granule gravel; fine to very coarse, poorly  
sorted, angular to subangular; clear and  
yellowish quartz, with a few grains of  
blue quartz, chert, and feldspar

14-15

Sand - tan, slightly clayey; fine to medium,  
fairly well-sorted, angular to subangular;  
clear quartz, slightly feldspathic; accessory  
magnetite, trace of epidote

15-18

No sample

18-18.25

Sand - tan, slightly clayey, fine to medium,  
fairly well-sorted, angular; slightly feld-  
spathic

18.25-18.5

Sand and gravel - gray, very slightly clayey, <sup>(25%)</sup>  
<sup>75%</sup> fine to coarse, poorly sorted sand; <sup>20%</sup>  
fine (2-8 mm), well-sorted gravel;  
slightly feldspathic

### MATTAPONI FORMATION (18.5-83)

18.5-20

Sand - dark greenish-gray, slightly clayey,  
fine, well-sorted, angular; clear and  
green-tinted quartz, with numerous small  
fragments of black shell and trace of  
glauconite



20-23

No sample

23-25

Sand - greenish-gray, very slightly clayey, a few pieces of pelecypod shells and shell fragments; fine to medium, well sorted, angular; clear and green tinted quartz, with numerous small fragments of black and brown shell; very slightly glauconitic

25-28

No sample

28-30

Clay - gray, <sup>slightly to</sup> moderately sandy, trace of shell; sand is fine to medium, well sorted, angular, clear and green tinted quartz, slightly glauconitic; nodular and microgranular pyrite common, muscovite and aragonite common

30-33

No sample

33-35

Clay - gray, moderately sandy; sand is fine to medium, well sorted, angular; clear and greenish quartz, with 20% glauconite; muscovite common

35-38

No sample

38-40

Sand - gray, slightly to moderately clayey; fine, very well sorted, angular; clear and green tinted quartz, with 20% glauconite; traces of muscovite and garnet



40-43

No sample

43-45

Sand - greenish-gray, slightly to moderately clayey; fine, very well-sorted, angular; clear and greenish quartz, with 15% glauconite and minor muscovite.

45-48

No sample

48-50

Sand - greenish-gray, slightly to moderately clayey; fine, well-sorted, angular; clear and greenish quartz, with 5-10% glauconite and minor muscovite.

50-53

No sample

53-55

Sand - greenish-gray, slightly clayey; fine, well-sorted, angular; clear and greenish quartz, with 15% glauconite and minor muscovite and garnet.

55-58

No sample

58-60

(510')  
Sand - gray, slightly clayey; fine to medium, well-sorted, angular; 90% clear and greenish quartz, 30% glauconite; coarse to very coarse <sup>sand</sup> and very fine gravel, including numerous phosphate nodules, present at base (at 60')

60-63

No sample



63-65 Sand — black, very slightly clayey; medium, well-sorted autochthonous glauconite, with less than 5% quartz; glauconite is dominantly greenish-black, subordinatedly pale-green

65-68 No sample

68-69.5 Sand — black, slightly clayey; medium, well-sorted; <sup>(~10%)</sup> 75% black autochthonous glauconite, 15% angular to subrounded quartz; trace of pebble; foraminifera common

69.5-70 Sand — black, moderately clayey; <sup>(~15%)</sup> medium, fairly well-sorted; 70% black to light-green glauconite, 15% subangular to rounded quartz; foraminifera moderately abundant, ostracods common

70-73 No sample

73-75 Sand — gray, clayey; <sup>(~20%)</sup> fine to coarse, moderately sorted; 35% glauconite, 35% quartz, 10% shell material, mostly foraminifera

75-78 No sample

78-80 Sand and gravel — gray, slightly clayey; <sup>(~10%)</sup> a few shell fragments in fine to coarse, moderately sorted sand (50% quartz, 50% glauconite) with 15% evenly distributed small pebbles, and with a <sup>thin</sup> zone of relatively coarse (10-30 mm) gravel at base; abundant garnet



80-83

No sample; ~~filled with gravel~~

PATUXENT FORMATION (83-100')

83-85

Sand - pale greenish-gray, slightly clayey, trace of granule gravel; medium to coarse, fairly well-sorted, subangular to sub-rounded; feldspathic; slightly micaceous

85-88

No sample

88-90

Sand - tan, slightly clayey, 5% granule gravel, and a few small pebbles up to 10 mm; medium to very coarse, moderately sorted, subangular to rounded; feldspathic; garnet common

90-93

No sample

93-94

Sand - gray, slightly clayey, 15% granule gravel; coarse to very coarse, fairly well-sorted, subangular to rounded; feldspathic, garnet common

94-95

Clay - brown, very silty, very slightly sandy; sand and silt are micaceous, very slightly glauconitic

95-98

No sample

98-

Sand - gray, slightly clayey; coarse to very coarse, well-sorted, subangular to rounded; feldspathic



98-99

Sand - greenish-brown, clayey; fine,  
well-sorted; moderately micaceous,  
very slightly glauconitic

79-100

"

"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-3		
3d-18.5	Columbia Group	Pleistocene
18.5-83	Mataponi Formation	Paleocene
80-83	No sample	
83-100	Patuxent Formation	Early Cretaceous