INTERVAL SHEET WWCR 174

Page	1	of	1	VDMR Well No: 2107
Date rec'd	: 2/1	2/68		Sample Interval: from 20 to: 540'
PROP: S1	eepy	Lake	Water Corp., Well #2	Number of samples: 27
COMP: R	L.	Maget	te Well Drilling Co.	Total Depth: 550'
COUNTY:	Nans	emono	d (Crittenden)	Oil or Gas: Water: XExploratory:

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All intervals have both washed and unwashed samples

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OWNER: Sleepy Lake Water Corp., Well # 2 DRILLER: R. L. Magette Well Drilling Co. COUNTY: Nansemond (Crittenden)

GEOLOGIC LOG

Depth in feet	
YORKTOWN	FORMATION (0-260')
20	Sand - moderately clayey, yellowish-brown; fine, well-sorted; angular; trace of shell fragments and echinoid spines; trace of glauconite
40	Sand and Shell - yellowish-brown to gray, slightly clayey; 60% coarse shell debris; 40% fine, well-sorted, angular sand; trace of glauconite
60	Sand and Shell - gray, locally yellowish-brown, slightly- to moderately clayey; 25% coarse shell fragments, 75% fine- to medium-grained, fairly well-sorted sand consisting of angular quartz and, subordinately, of bioclasts; foraminifers common
80	Sand and Shell - gray, speckled, moderately clayey; 25% coarse shell material; 75% fine, fairly well-sorted sand con- sisting of angular quartz, fresh glauconite, and bio- clasts; foraminifers common
100	Sand - abundant matrix of greenish-gray clay; 10% shell frag- ments; medium-grained, well-sorted; angular, clear- to greenish quartz with 20-30% glauconite; a few ostracods and foraminifers
120	u n
140	" fine-grained; 10% glauconite
160	" fine-grained; 5% glauconite, 25% shell
180	Sand, Silt and Shell - grayish-green, moderately clayey; 50% coarse-shell fragments; 50% coarse-grained silt to fine-grained sand, well-sorted, angular; very slightly glauconitic; trace of muscovite; a very few foraminifers
200	Sand and Shell - abundant matrix of greenish-gray clay; 35-40% coarse shell fragments; 60-65% fine, fairly well-sorted, poorly rounded quartz sand with 10% glauconite; minor authigenic selenite; a few foraminifers
220	Sand, Silt and Shell - grayish-green, clayey; 25% shell fragments; 75% coarse-grained silt to fine-grained

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OWNER: Sleepy Lake Water Corp. Well # 2

220 sand, fairly well-sorted, poorly rounded; 15% glau-(cont.) conite; 5% authigenic selenite; a few foraminifers and ostracods

240

Clay - greenish-gray, very sandy, 10% shell fragments; sand is fine- to very fine-grained, well-sorted, angular; very slightly glauconitic; authigenic selenite common; minor phosphorite; a few foraminifers (including Nonion)

CALVERT FORMATION (260-435')

- 260 Clay greenish gray, moderately sandy; 10% shell fragments; bone phosphorite common; pyrite common; selenite fairly abundant
- 280 " "
- 300 " "
- 320 Sand abundant matrix of dark-brown and dark-gray clays, 5-10% shell fragments and a few granules; fine- to very coarse-grained, poorly sorted, variably rounded; 20% glauconite, 5% bone phosphorite; concretionary pyrite relatively abundant; a few fragments of sandy limestone; a few Siphogenerina, Uvigerina
- 340 " 25% glauconite
- 360 " 25% glauconite
- 380 Sand moderately abundant matrix of drab clay; 5% shell fragments, 5% rock fragments (glauconitic limestone); fine- to very coarse-grained; 40-50% poorly sorted green glauconite; minor pyrite and phosphorite ; a very few foraminifers

400 "

420

MATTAPONI FORMATION (435-490')

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440 Sand - slightly clayey (brownish-gray clay), a few shell fragments; fine- to coarse-grained, moderately sorted; 50% clear, angular quartz, and 50% green glauconite; slightly feldspathic; minor amounts of hematite, phosphorite, and pyrite; a few fragments of glauconitic limestone

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460 Sand - slightly clayey (brownish-gray clay), a few shell fragments; fine- to coarse-grained, moderately sorted; 50% clear angular quartz, and 50% green glauconite; slightly feldspathic; minor amounts of hematite, phosphorite, and pyrite; a few fragments of glauconitic limestone

earthy hematite common

480

OWNER: Sleepy Lake Water Corp., Well # 2

TRANSITIONAL BEDS (490-540')

500 Sand - binder of reddish-brown clay; coarse- to very coarsegrained, moderately sorted; very feldspathic; slightly glauconitic; accessory garnet

520 " " 540 " silty and micaceous

GEOLOGIC SUMMARY

ROCK UNIT

AGE

Miocene Miocene

Paleocene-Late Cretaceous

Late Cretaceous

0-260'	Yorktown Formation
260-435'	Calvert Formation
435-490'	Mattaponi Formation

490-540' Transitional beds

Virginia Division of Mineral Resources Robert H. Teifke March 11, 1968

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Robert H. Teifke March 6, 1972

COMMONWEALTH DEPARTMENT OF CONSERVATIO	OF VIRGINIA NN AND ECONOMIC DEVELOPMENT VDMR -2107 WWCR - 174 W-2107
MAILING ADDRESS: DIVISION OF MIN B 3667 JAMES L. CALVE	IERAL RESOURCES OFFICE ADDRESS: R, COMMISSIONER McCormick Road CMDL ETION DEDODT Charletterville Virginia
WATER WELL CO	JMPLETION REPORT Charlomesville, Virginia
OWNER: Sleepy Lake Water Corp.	Mailing Address:Crittenden, Va.
TENANT: Well #2	Mailing Address:
DRILLER: R. L. Magette Well Drilling Co.	Mailing Address Smithfield, Va.
WELL LOCATION: County Nansemond	Approx feet (direction) of
near Crittenden	feet miles (direction) of
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T COUNTY HIGHWAY OR OTHER MAP.)	WO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: February 17, 1967	DATE COMPLETED: February 28, 1967
TYPE OF DRILL RIG USED:Rotary	TOTAL DEPTH 550 feet
WATER LEVEL: Stands_37_feet below	surface <u>OR</u>
has <u>NATURAL</u> flow of	gallons per minute.
YIELD TEST: Method Pump	HOLE SIZE: 14 inches from 0 to 50 feet
Drawdown feet	
Rate <u>150</u> gal. per min.	inches fromtofeet
Duration <u>24</u> hrs.,min.	SCREEN SIZE: 6 inches from 530 to 550 feet
WATER ZONES: from 530 to 550 feet	inches fromtofect
fromfoet	inches fromtofeet
fromfeet	CASE SIZE: 6 inches from to530feet
WATER: ColorTaste	inches fromtofeet
OdorTemp°F	inches fromtofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Poured
Farm Town School	Material Cement Depth 50 (?) feet
IndustryOtherSubdivision	PUMP: Type 7 1/2 HP Sub., 3600 RP M
WATER ANALYSIS AVAILABLE Yes No X	Capacity108gal. per min
DRILL CUTTINGS SAVED: Yes X No (DRILL CUTTINGS SHOULD BE COLLECTED AT IO FOOT IN OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE	Depth of intake126feet NTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS ED FREE OF CHARGE UPON REQUEST.)
R ARKS: Electric logs run by driller	
ELEV. : 20'	

LOG

FURNISHED BY: R. L. Magette Well Drilling Co.DATE: 2/9/68

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED	REMARKS		
ROM	TO	(gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, et		
0	8	Top soil and red clay	530' - 6 in STD T & C pipe		
8	20	Red clay w/fine sand	20' - Johnson #16 slot screen		
20	30	Red coarse sand			
30	55	Coarse shell w/fine sand			
55	72	Coarse shell w/fine blue sand			
72	85	Blue clay w/coarse sand	and a second second second		
85	225	Blue clay (Gumbo)			
225-1	265	White fine sand			
65	315	Brown clay			
15	365	Fine sand w/limestone stringers			
65	391	Black sand (Glauconite)			
91	440	Red clay (black creek)			
40	475	Blue clay w/fine sand			
75	530	Fine sand w/stringers of clay			
30	550	Medium sand w/mica			
	152	Good producer			
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