COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

Box 3667

MAILING ADDRESS: DIVISION OF MINERAL RESOURCES OFFICE ADDRESS:

JAMES L. CALVER, COMMISSIONER

McCormick Road

Colottesville, VA 22903 WAIER WELL Co	OMPLETION REPORT Charlottesville, Virginia
	Molling Address:Charlottesville, VA
TENANT: Cabin Point Subdivision, Well #1	Mailing Address:
DRILLER: Sydnor Hydrodynamics, Inc.	Mailing Address: P.O. Box 27186 Richmond, VA 23261
WELL LOCATION: County Westmoreland	Approx. 5 feet North (direction) of
St. Route 202	feet East (direction) of St. Rd. 626
(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: 6/9/72	DATE COMPLETED: 8/19/72
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 780* feet
WATER LEVEL: Stands 14'7" feet below.	
has <u>NATURAL</u> flow of_	522 540 Coaxse sand 540 554 Coaxse sand
YIELD TEST: Methodturbine pump	HOLE SIZE: 23 inches from 0 to 56 feet
Drawdown 132 feet	alleda bas 19½ inches from 56 to 740 feet
Rate 554 gal. per min.	bisancia was 9 7/8 inches from 740 to 780 feet
Duration 24 hrs., 0 min.	SCREEN SIZE: 8 inches from 340 to 360 feet
WATER ZONES: from 340 to 360 feet	valo one nword inches from 522 to 538 feet
420 440 from 522 to 538 feet	570 582inches from <u>689 to 718</u> feet
570 582 from <u>698</u> to <u>718</u> feet	CASE SIZE: 10 inches from +2 to 340 feet
WATER: ColorclearTaste	8 360 420 <u>8 inches from 440 to 522</u> feet
Odor°F	8 538 570 8 inches from 582 to 698 feet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Pressure
Farm Town School	Material Cement-water Depth 56 feet
IndustryOther_Subdivision	PUMP: Type
WATER ANALYSIS AVAILABLE: Yes XX No	Capacitygal_per min
ORILL CUTTINGS SAVED: 77 Yes XX No ORILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	
RF ARKS: Electric log ran by driller.	
*Well construction completed at 723	1.
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_DATE:_____7/18/72

(fee						
	TO	deaxd & (gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc.)			
	-		ENAMY Cabin Point Subdivision,			
0	Lorio Tulo	Top Soil				
1			BILLER Sydnor Hydrodynardes, Inc			
6	8	Yellow-sandy clay and gravel				
8	42	Gray clay and shells mixed	VELL LOCATION Young Westmoreland			
42	102	Tough gray clay	St. Route 202			
102	160					
160	172	Black and gray sand, gray clay mixed				
172	207	Black and gray sand, gray clay, streaks of hard shells				
207	238	Black - sand and shells				
238	312	Gray clay and black sand				
312	480	Black and brown sand - hard streaks of shell	is was used and June de Bay			
480	492					
492	522	White and gray sandy clay Gray, brown, and black sand - few shells mi	xed LEVEL. Stones LEVEL			
522	540	Coarse sand				
540	554	Gray clay and coarse sand	A 2 1 A H 1 2 J			
554	569	Sand, gray clay and shells				
569	584	Gray sand	umuq enidaut sonom T23T 0,331			
584	617	Gray clay, sand and shells	COL			
617	660	Tough brown clay	Standown 132			
660	689	Tough gray clay - few streaks of sand	Rate 534 agr car			
689	705	Gray clay, streaks of sand	194 199			
705	720	E Gray sand & agreement	0			
720	749	Tough brown and gray clay	Duravier 24 brsC_			
749	780		NAME OF THE PARTY			
140	02 /00 A	Tough red, brown and gray clay mixed	WIER ZONES THOM SAC			
		Sas wast earned the Sas	420 from52219			
			570			
		552 778	01 202 mart			
		8				
		Markey Javens B	ATER color clear			
/		2. 12				
		Emant serion 8	0 deT			
8		77. 8				
		SRODTING Mathem Pressurd	ELL TO SUPPLY: Teheur and Hone			
		users Cement-water os	Form townTrue			
		tion Pump' type	IvibdrE 184v3varausat			
1113		(X30gp)	ATER ANALYSIS AVAILABLE VILL			
-91		antition is which and	RILL QUITINGS BAYED. 77 Years			
anar -		BE YOU ESCHALL THEFT SAMPLES ALVETTE TO THE				
		Transpar with the the to the transparence and the				
			The ran by dr			
		Wall coastruction completed at 723%.				

VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page	1 of 1			Well Repository No: W: 3672
Date rec'	d: 9/18/72 Date	Processed:	2/13/73	Sample Interval: from: to: 0 780
PROPERTY:	000000000000000000000000000000000000000	Inc.		Number of samples: 78
COMPANY:	(Cabin Point #1) Sydnor			Total Depth: 780'
COUNTY:	Westmoreland			Oil or Gas: Water: Exploratory:
From-To	From-To		From-To	From-To
0 10	250 - 60		500 - 10	750 - 60
10- 20	260 - 70		510 - 20	760 - 70
20- 30	270 - 80		520 - 30	770 - 80
30- 40	280 - 90		530 - 40	
40- 50	290 - 300		540 - 50	-
50- 60	300 - 10		550 - 60	-
60- 70	310 - 20		560 - 70	=
70- 80	320 - 30		570 - 80	-
80- 90	330 - 40		580 - 90	= ,
90- 100	340 - 50		590 - 600	-
100- 10	350 - 60		600 - 10	-
110- 20	360 - 70		610 - 20	
120- 30	370 - 80		620 - 30	
130- 40	380 - 90		630 - 40	
140- 50	390 - 400		640 - 50	. -
150- 60	400 - 10		650 - 60	<u></u>
160- 70	410 - 20		660 - 70	-
170- 80	420 - 30		670 - 80	-
180 - 90	430 - 40		680 - 90	-
190- 200	440 - 50		690 - 700	-
200-10	450 -60		700 - 10	-
210 - 20	460 - 70		710 - 20	
220 - 30	470 - 80		720 - 30	— 9
230 - 40	480 -90		730 - 40	-
240 - 50	490 - 500		740 - 50	<u> </u>

All intervals have both washed and unwashed samples.

OWNER: Glendale Assoc., Inc.

(Cabin Point #1)

DRILLER: Sydnor Hydrodynamics

COUNTY: Westmoreland

W#: 3672 C#: 184

TOTAL DEPTH: 780'

QUAD: St. Clements Island

GEOLOGIC LOG

DEPTH (feet)

- 0 10 Sand dusky yellow; moderate clay; fine to medium grained, 7% granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques.
- 10 20 Clay yellowish gray; slightly sandy; fine grained; subangular to subrounded; well sorted; quartz; few grains of glauconite.
- 20 30 Sand light olive gray; moderate clay; fine grained; subangular to subrounded; well sorted; quartz; 7% shell fragments; some gypsum; few grains of glauconite; few black phosphatic fragments; few bone fragments; few echinoid spines.
- 30 40 As above except 15% shell fragments; 2% black phosphatic material.
- 40 50 Sand light olive gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 5% shell fragments; 2% black phosphatic material; few bone fragments; glauconite.
- 50 60 Sand light olive gray; moderate clay; fine to medium grained; subangular to subrounded; well sorted; quartz; some shell fragments; few black phosphatic fragments; glauconite.
 - 60 70 As above except few shell fragments.
 - 70 80 As above except abundant clay.
 - 80 90 Clay light olive gray; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; few black phosphatic fragments; few shell fragments.
 - 90 100 As above except 2% black phosphatic material; bone fragments.
 - 100 110 Clay light olive gray; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some shell fragments; few grains of glauconite; few black phosphatic fragments.
 - 110 120 As above except moderate sand.
 - 120 130 Clay light olive gray; abundant sand; medium grained; subangular to subrounded; well sorted; quartz; few black phosphatic fragments; glauconite; few shell fragments.
- 130 140 As above.
- 140 150 As above.

- 150-160 As above.
- 160-170 Sand- olive light gray; moderate clay; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; 10% shell fragments; 2% glauconite; some black phosphatic material; few limestone fragments.
- 170-180 Sand- olive light gray; moderate clay; medium to coarse grained, some granules; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 7% shell fragments; few limestone fragments; few black phosphatic fragments; forams scarce (inc. Robulus and Dentalina).
- 180-190 Sand- olive light gray; moderate clay; medium to coarse grained, some granules; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 10% shell fragments; some limestone fragments; some black phosphatic material; forams (inc. <u>Buccella</u> and <u>Textularia?</u>).
- 190-200 Sand- olive light gray; moderate clay; medium to coarse grained, some granules, few pebbles; subangular to rounded; moderately sorted; quartz; 25% sandy limestone and shell fragments; 10% glauconite; 2% sandy black phosphatic fragments; few echinoid spines; muscovite; forams (inc. <u>Buccella</u> and <u>Robulus</u>); ostracode.
- 200-210 Sand- salt and pepper; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 20% glauconite; some shell fragments; forams scarce (inc. <u>Buccella</u>); bone fragment.
- 210-220 As above except 2% sandy limestone and shell fragments; no forams.
- 220-230 Sand- olive light gray; some stained grains; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 40% glauconite (black, brown); few shell fragments.
- 230-240 As above.
- 240-250 As above.
- 250-260 Sand- olive light gray; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 50% glauconite (black, brown, and green); some limestone and shell fragments; few black phosphatic fragments.
- 260-270 Sand- olive light gray; slightly clayey; medium to coarse grained, 20% granules; subrounded to rounded; moderately sorted; quartz; 40% glauconite; 15% limestone and shell fragments; few flakes of muscovite.

- 270 280 As above except 60% glauconite; 3% limestone and shell fragments.
- 280 290 Sand olive light gray; slightly clayey; medium to very coarse grained, some granules; subrounded; to rounded; moderately sorted; 60% glauconite; quartz; 5% sandy limestone and shell fragments; few black phosphatic fragments.
- 290 300 As above.
- 300 310 Sand olive light gray; moderate clay; medium to coarse grained, some very coarse grained, some granules; subrounded to rounded; moderately sorted; 65% glauconite; quartz; some sandy limestone and shell fragments; few flakes of muscovite.
- 310 320 Sand olive light gray; slightly clayey; medium grained, some coarse grains; rounded; well sorted; 75% glauconite; quartz; few sandy limestone and shell fragments.
- 320 330 As above except no limestone.
- 330 340 As above except 65% glauconite.
- 340 350 Sand salt and pepper; 35% moderately to heavily stained grains; medium grained; subrounded to rounded; well sorted; quartz; 25% glauconite (black, brown, green).
- 350 360 As above.
- 360 370 As above except medium to coarse grained; moderately well sorted; 30% glauconite.
- 370 380 As above.
- 380 390 As above.
- 390 400 Sand salt and pepper; some moderately stained grains; medium grained; rounded; well sorted; quartz; 40% glauconite (black, brown, green).
- 400 410 Sand salt and pepper; 20% moderately to heavily stained grains; coarse grained, some very coarse grains; rounded; well sorted; quartz; 30% glauconite (black, brown, green).
- 410 420 Sand salt and pepper; some moderately stained grains; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 40% glauconite (black, brown, green); some shell fragments.
- 420 430 As above except 3% shell fragments.
- 430 440 Sand salt and pepper; 35% moderately to heavily stained grains; medium grained; subrounded to rounded; well sorted; quartz; 50% glauconite (brown, black, green); few shell fragments.

- 440 450 As above.
- 450 460 Sand salt and pepper; 25% moderately stained grains; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 35% glauconite; few shell fragments; forams rare (inc. Nodosaria).
- Sand salt and pepper; some stained grains; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 50% glauconite (green, brown, black); some shell fragments; forams (inc. Buccella, Cibicides, and Nodosaria).
- 470 480 As above except forams rare (inc. Nodosaria).
- 480 490 Sand yellowish gray; slightly clayey; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 25% glauconite (brown, black, green); 5% shell fragments; few flakes of muscovite; forams (inc. Buccella).
- 490 500 As above except 30% glauconite; 2% shell fragments.
- 500 510 As above except no forams.
- 510 520 As above except 2% shell fragments.
- 520 530 Sand salt and pepper; medium to very coarse grained, some fine grains; subangular to rounded; moderately sorted; quartz; 50% glauconite; some shell fragments; few limestone fragments; muscovite.
- 530 540 As above except 40% glauconite; 2% shell fragments.
- 540 550 As above except 25% glauconite; 5% shell fragments; some feldspar.
- 550 560 Sand salt and pepper; medium to coarse grained, some fine grains, some very coarse grains; subangular to rounded; moderately sorted; quartz; 15% glauconite (brown, black, green); feldspar; 3% limestone and shell fragments; few flakes of muscovite.
- 560 570 As above except slightly clayey; 10% glauconite.
- 570 580 Sand white; medium to coarse grained; subangular to subrounded; well sorted; quartz; feldspar; some glauconite; few flakes of muscovite; few shell fragments.
- 580 590 Sand light olive gray; slightly clayey; medium grained to granular; subangular to subrounded; poorly sorted; quartz; feldspar; 2% limestone and shell fragments; some glauconite.
- 590 600 As above except sand and granules (40%); 5% limestone and shell fragments; shark's tooth.

- 600 610 Sand light olive gray; slightly clayey; medium to coarse grained, 15% granules; subangular to subrounded; moderately sorted; quartz; feldspar; 5% limestone and shell fragments; 3% glauconite; few flakes of muscovite.
- 610 620 As above except abundant clay.
- 620 630 As above.
- 630 640 As above.
- 640 650 Sand light olive gray; moderate clay; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; 15% glauconite; some feldspar; some shell fragments; few flakes of muscovite.
- 650 660 As above.
- 660 670 Sand white; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 670 680 Sand light olive gray; slightly clayey; medium to very coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 680 690 As above except 2% glauconite; some shell fragments.
- 690 700 Sand salt and pepper; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; feldspar; few flakes of muscovite; few shell fragments.
- 700 710 Sand white; medium grained; subangular to subrounded; well sorted; quartz; feldspar; few grains of glauconite.
- 710 720 As above except some glauconite.
- 720 730 Sand light olive gray; moderate clay; coarse to very coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; 5% glauconite; 3% limestone and shell fragments; few flakes of muscovite.
- 730 740 As above except 10% glauconite.
- 740 750 As above.
- 750 760 As above except 7% glauconite; 2% limestone and shell fragments.
- 760 770 Sand light olive gray; moderate clay; medium to coarse grained, 3% granules; subangular to rounded; moderately well sorted; quartz; 20% glauconite; feldspar; some shell fragments.
- 770 780 Sand and clay light olive gray; moderate clay; abundant sand;

medium grained, some coarse grains, few granules, few pebbles; subangular to rounded; moderately well sorted; quartz; 20% glauconite (green, black); feldspar; some shell fragments.

> Logged by: Michael T. Currie March 29, 1979

OWNER: Glendale Assoc., Inc.

(Cabin Point #1)

W#: 3672

GEOLOGIC SUMMARY

DEPTH (feet)	THICKNESS (feet)	ROCK UNIT	TIME ROCK UNIT
0 - 10	10	Columbia Group	Pleistocene
10 - 80	70	Choptank Formation	Miocene
80 - 160	80	Calvert Formation	Miocene
160 - 340	180	Nanjemoy Formation	Eocene
340 - 570	230	Aquia Formation	Eocene - Cretaceous
570 - 780	210	Potomac Group	Cretoceous

VIRGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist March 30, 1979