COMMONWEALTH	OF VIRGINIA C#: 169
	ON AND ECONOMIC DEVELOPMENT
	NERAL RESOURCES OFFICE ADDRESS: ER, COMMISSIONER McCormick Road
	OMPLETION REPORT Charlottesville, Virginia
OWNER: Sydnor Hydrodynamics Inc.	P.O. Box 27186 Mailing Address:
	Mailing Address:
DRILLER: Sydnor Hydrodynamics Inc.	
	Approx. 50 feet East (direction) of
Greenview Rd. 225	feet North(direction) ofMayette Dr.
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T COUNTY HIGHWAY OR OTHER MAP.)	
DATE STARTED:9/12/73	DATE COMPLETED: 10/4/73
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTHfeet
WATER LEVEL: Stands 171 feet below	surface <u>OR</u>
has NATURAL flow of	gallons per minute.
YIELD TEST: Method Test pump	HOLE SIZE: 12 inches from 0 to 355 feet
Drawdown 36 3/4 feet	
	inches fromtofeet
Rate <u>100</u> gal. per min.	inches fromtofeet
Duration <u>24</u> hrs., min.	SCREEN SIZE: 6 inches from 230 to 260 feet
WATER ZONES: from 230 to 260 feet	6_inches_from298_to308feet
from	6_inches from 328 to 333 feet
from <u>328</u> to <u>333</u> feet	CASE SIZE: 6 inches from +2 to 230 feet
WATER: ColorTaste	
OdorTemp°F	6 308 328 6 inches from 333 to 338 feet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Pressure
FarmTownSchool	Material <u>Cement Water</u> Depth <u>50</u> feet
IndustryOtherSubdivision	PUMP: Type 15 H.P. Sub.
WATER ANALYSIS AVAILABLE Yes XX No 34	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes XX No (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	
R ARKS: gravel packed 50 - 333 * 1 2/3	ft. short of complete recovery 7 $\frac{1}{4}$ hrs. after
test.	
s	(LOG OF WELL) OVER

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

INTERVAL SHEET

Page	l of	l			Well Repository No: W#: 4056
Date rec'	d: 1/17/74	Date	Processed:	10/30/74	C#: 169 Sample Interval: from: to: 0 350'
PROPERTY:	PROPERTY: Sydnor Hydrodynamics			Number of samples: 35	
COMPANY:	(Meadowgate Sub. #2 Sydnor Hydrodynamics			Total Depth: 355'	
COUNTY:	Hanover (Ellerson)				Oil or Gas: <u>Water</u> : Exploratory:
From-To	Fro	om-To		From-To	From-To
0 - 10	250 -	- 60		_	-
10 - 20	260 -			-	-
20 - 30	270 -			-	-
30 - 40	280 -			-	-
40 - 50	290 -			-	-
50 - 60	300 -	- 10		_	-
50 - 70	310 -	- 20		-	-
70 - 80	320 -	- 30		-	-
80 - 90	330 -	- 40		-	-
90 - 100	340 -			-	-
100 - 10	-	-		-	_
110 - 20	-	-		-	-
120 - 30	÷.	-		-	-
130 - 40	-	-		-	-
140 - 50	-	-		· · · · ·	-
150 - 60	-	-		_	-
160 - 70	-	-		-	
170 - 80	-	-		-	-
180 - 90	-			-	-
190 - 200		-		-	-
200 - 10	i.	-		-	-
210 - 20	-	-			-
220 - 30	-	- 7		-	-
230 - 40	-				-
240 - 50	1 <u>.</u>	- 71		-	-

Both washed and unwashed samples.

OWNER: Sydnor Hydrodynamics (Meadowgate Sub. #2 DRILLER: Sydnor Hydrodynamics COUNTY: Hanover (Ellerson)

W#: 4056 C#: 169 TOTAL DEPTH: 355' QUAD: Studley

GEOLOGIC LOG

Depth (feet)

- 0 10Sand -- dark yellowish orange; slightly clayey; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 10 20As above plus some fine grains.
- 20 30Sand -- dark yellowish orange; some heavily stained grains; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 30 40Sand -- dark yellowish orange; 60% very heavily stained grains; slightly clayey; coarse grained, some medium grains; subangular to subrounded; well sorted; quartz; feldspar.
- 40 50Sand - grayish orange; 25% heavily stained grains; slightly clayey; coarse to very coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar.
 - 50 60 Sand -- light olive gray; moderate clay; fine to medium grained, 30% granules; subangular to subrounded; poorly sorted; quartz; feldspar (granules); some ferricrete; few grains of glauconite.
 - 60 70Sand -- light olive gray; slightly clayey; fine to medium grained, some granules; subangular to subrounded; moderately well sorted; quartz; few fragments of ferricrete; muscovite; few opaques.
 - 70 80As above.
 - 80 90 Granules -- light olive gray; slightly clayey; moderate sand; fine to medium grained; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; few fragments of ferricrete; muscovite; glauconite.
 - 90 100Sand -- light olive gray; moderate clay; fine to medium grained, some coarse grains, 10% granules; 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 3% glauconite.
 - 100 110As above except 3% granules; 5% pebbles; few black phosphatic fragments.

OWNER: Sydnor Hydrodynamics

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Depth (feet)

- 110 120 Sand -- light olive gray; slightly clayey; fine to medium grained, few granules, some pebbles; subangular to rounded; moderately well sorted; quartz; 25% glauconite; some muscovite; some shell fragments; some black phosphatic material; some feldspar (pebbles); forams rare (inc. Buccella); ostracode.
- 120 130 Sand and clay -- light olive gray; moderate clay light olive gray, light gray; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; glauconite, 40% of sand sized fraction; some muscovite; some shell fragments; few black phosphatic fragments; pyrite.
- 130 140 As above.
- 140 150 Sand -- light olive gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite; some muscovite; some shell fragments; some black phosphatic material; few grains of pyrite.
- 150 160 Sand -- olive light gray; moderate clay; fine to coarse grained, few granules; subangular to rounded; moderately sorted; quartz; 20% glauconite; 3% black phosphatic material; some muscovite; few shell fragments.
 - 160 170 As above.
 - 170 180 Sand and clay -- light olive gray; moderate clay light olive gray, very light gray; abundant sand; fine to coarse grained, some very coarse grains, few granules; subangular to rounded; moderately sorted; quartz; glauconite, 15% of sand sized fraction; 2% black phosphatic material; some shell fragments; some muscovite; few limestone fragments.
 - 180 190 Sand -- olive light gray; moderate clay; fine to very coarse grained, 10% granules, few pebbles; subangular to rounded; poorly sorted; quartz; 30% glauconite (some granule size); 5% shell fragments; some muscovite; some black phosphatic material.
 - 190 200 As above except 7% limestone and shell fragments.
 - 200 210 As above.
- 210 220 As above except abundant clay; 12% limestone and shell fragments.
- 220 230 Sand -- yellowish gray; slightly clayey; coarse to very coarse grained; some medium grains, 15% granules; subrounded; moderately sorted; quartz; feldspar; 5% glauconite; some shell fragments; few grains of garnet.
 - 230 240 Sand and granules -- yellowish gray; coarse to very coarse grained, 50%

OWNER: Sydnor Hydrodynamics

Depth (feet)

granules, some pebbles; subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few shell fragments.

- 240 250 Sand -- yellowish gray; medium to very coarse grained, 7% granules, 5% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 5% glauconite; few shell fragments; muscovite.
- 250 260 Sand -- yellowish gray; coarse grained, some medium grains, some pebbles; subangular to subrounded; well sorted; quartz; feldspar; 7% glauconite; few shell fragments; muscovite; garnet.
- 260 270 Sand and gravel yellowish gray; coarse to very coarse grained, 7% granules, 35% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.
- 270 280 Gravel -- yellowish gray; abundant sand; coarse grained to granular; subrounded; moderately wellssorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 280 290 As above except few grains of glauconite.
- 290 300 As above except slightly sandy.
- 300 310 Sand -- yellowish gray; coarse grained to gravel (15%); subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 310 320 As above except 25% gravel.
- 320 330 Sand -- yellowish gray; some heavily stained grains; slightly clayey; medium grained to granular, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; few opaques; few flakes of muscovite.
- 330 340 Sand -- yellowish gray; coarse grained to granular, 10% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite; garnet.
- 340 350 Gravel -- yellowish gray; moderate clay; moderate sand; coarse grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 350 355 No sample.

Logged by: Michael T. Currie Feb. 20, 1979

OWNER: Sydnor Hydrodynamics W# 4056 (Meadorgale Sub, #2) GEOLOGIC SUMMARY Depth Thickness Rock Unit Time Back Unit 50-110 60 Easterer Formation Miocene 110-220 110 Nanjemy Matterponitor mation Socene-Credasen 220-350 130 Patuxent Formation Crefuceous 350-355 5 No Sample VIRGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard Jr. 6 cologist February 21, 1979