COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

rlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

WELL COMPLETION REPORT

MAILING ADDRESS:	DIVISION	OF	INITIAL	MAL	LE20
3667	JAME	S L.	CALVER,	COMMI	SSIONER

WATER

OFFICE ADDRESS: McCormick Road

Charlottesville, Virginia

OWNER: Sydnor Hydrodynamics, Inc.	Mailing Address: P.O. Box 1476, Richmond, VA 2321
Danian Estates Cubdivision	
a 1 1 - 1	Mailing Address:
	- Mailing Address: P.O. Box 1476, Richmond, VA 2321
	Approx2/3 Fesk southwest (direction) of
Studley and 10	00 feet west (direction) of St. Rd. 615
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM COUNTY HIGHWAY OR OTHER MAP.)	TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: May 21, 1971	DATE COMPLETED:June 1970
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 452 feet
WATER LEVEL: Stands $\frac{142 \ 1/2}{1}$ feet below	256 Black and gray some set course 256 Black and gray some set course
has <u>NATURAL</u> flow of	ysigations per minute:
YIELD TEST: Method Submersible	HOLE SIZE: 12 inches from 0 to 452 feet
Drawdown 52 1/2 feet	362 421 Thand sand and clay streaks test
Rate 100 gal. per min.	inches fromtofeet
Duration 8 hrs., 0 min.	SCREEN SIZE: 6 inches from 355 to 365 feet
WATER ZONES: from 355 to 365 feet	6inches from 392to422_feet
from	inches fromtofeet
fromfeet	CASE SIZE: 6 inches from +2 to 355 feet
WATER: ColorToste	6inches from365_to392_feet
OdoroF	
WELL TO SUPPLY: (check one) Home	GROUTING: Method Pressure
Farm Town School	Materiacement & waterepth 50 feet
IndustryOther_Subdivision	PUMP: Type Sumo (test), 10 HP
WATER ANALYSIS AVAILABLE:YesNo_X	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes 45 No CONTROL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNIS	Depth of intakefeet INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS SHED FREE OF CHARGE UPON REQUEST.)
Electric log by driller	

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

INTERVAL SHEET

Date rec'd: 8/17/70 ; processed 1/27/71 Sample Interval; from 0 to: 450'

PROPERTY: Sydnor Hydrodynamics Number of samples: 45

(Ranier Estates)

COMPANY: Sydnor Hydrodynamics, Inc. Total Depth: 452'

COUNTY: Hanover (Studley) Oil or Gas: Water: Exploratory:

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	From-	Γο	From-	0	From-To	From-To
	0 -	10	250 -	260	_	_
	10 -	20	260 -	270		_
	20 -	30	270 -	280	= :	
	30 -	40	280 -	290	-	-
	40 -	50			-	-
	40 -	50	290 -	300	=	-
)	50 -	60	300 -	310	쌀	e**
2	60 -	70	310 -	320	- -	
	70 -	80	320 -	330		~
	80 -	90	330 -	340	-	-
	90 -	100	340 -	350	-	·-
	90 -	100	340 -	330	.	<u></u>
	100 -	110	350 -	360	~	_
	110 -	120	360 -	370	_	_
	120 -	130	370 -	380	<u>~</u>	7 <u>2</u>
	130 -	140	380 -	390		_
	140 -	150	390 -	400	_	_
			3,0	100		
	150 -	160	400 -	410	=	
	160 -	170	410 -	420	_	-
	170 -	180	420 -	430	_	-
	180 -	190	430 -	440	-	. - :
	190 -	200	440 -	450	-	Ξ.
	200 -	210	<u>~</u>		_	_
	210 -	220	_		_	·=:
	220 -	230	-		_	N=3
	230 -	240	L 2		·	-
1	240 -	250	227		122	(1 <u>44</u>);
9/						

All intervals have both washed and unwashed samples

OWNER: Sydnor Hydrodynamics

(Rainer Estates)

feldspar.

DRILLER: Sydnor Hydrodynamics

COUNTY: Hanover

W#: 3068 C#: 140

TOTAL DEPTH: 452'

QUAD: Studley

GEOLOGIC LOG

Depth (feet)	
0 - 10	Sand light brown; moderate clay; medium to coarse grained, some fine grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
10 - 20	Sand light brown; slightly clayey; coarse to very coarse grained, 10% granules; subangular to subrounded; moderately sorted; quartz; feldspar.
20 - 30	Granules pale yellowish orange; slightly clayey (clasts); some coarse to very coarse grained sand, 5% pebbles; subrounded; moderately well sorted; quartz; feldspar.
30 - 40	Sand dark yellowish orange; abundant clay; medium grained to granular, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 10% ferricrete; some muscovite; few opaques.
/40 - 50	Gravel grayish orange; moderate clay - dark yellowish orange, olive light gray; moderate sand; fine to medium grained; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
50 - 60	Sand olive light gray; abundant clay; fine grained; subangular to sub-our rounded; well sorted; quartz; few grains of fledspar; few black phosphatic fragments; few flakes of muscovite; glauconite.
60 - 70	Sand olive light gray; moderate clay; very fine to fine grained; sub-angular to subrounded; well sorted; quartz; some black phosphatic material; muscovite; few grains of feldspar; glauconite.
70 - 80	As above plus few fragments of ferricrete.
80 - 90	As above plus 3% shell fragments; no ferricrete.
90 - 100	Sand olive light gray; abundant clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; 3% shell fragments; 2% black phosphatic material; few flakes of muscovite.
100 - 110	Sand olive light gray; slightly clayey; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 7% black phosphatic material; some shell fragments; few grains of feldspar; garnet.
110 - 120	As above except 2% black phosphatic material; few shell fragments; no

Depth (feet)

- 120 130 As above plus some feldspar.
- 130 140 As above plus few grains of glauconite.
- 140 150 Sand -- olive gray; slightly clayey; fine to medium grained, few granules; subangular to rounded; moderately well sorted; quartz; 40% glauconite; few shell fragments; muscovite.
- 150 160 As above except olive light gray; some shell fragments.
- 160 170 Sand -- olive light gray; slightly clayey; fine to medium grained, some coarse grains, some granules, 5% pebbles; subangular to rounded; moderately sorted; quartz; 30% glauconite; 3% black phosphatic material; 3% shell fragments; some muscovite; forams rare (inc. Robulus).
- 170 180 Sand -- olive light gray; moderate clay; fine to medium grained, few granules; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 5% shell fragments; some muscovite; few black phosphatic fragments; few echinoid spines; few grains of pyrite.
- 180 190 Sand -- olive light gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 25% glauconite; 2% muscovite; some shell fragments; forams (inc. Robulus); few grains of pyrite.
- 190 200 Sand -- olive light gray; moderate clay olive light gray, light gray; fine to medium grained, few granules; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 3% shell fragments; some muscovite; few grains of feldspar.
- 200 210 As above except 10% glauconite.
- 210 220 Sand -- olive light gray; moderate clay olive light gray, moderate orange pink, light gray; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 10% glauconite; 5% shell fragments; few flakes of muscovite; forams (inc. Nodosaria and Robulus).
- 220 230 As above except forams rare (inc Nodosaria).
- 230 240 As above except 20% glauconite; 10% shell fragments; no forams.
- 240 250 Sand and coquina- light olive gray; slightly clayey; fine to medium grained; subangular to rounded; moderately well sorted; 40% limestone and shell fragments; quartz; 30% glauconite; few flakes of muscovite.
- 250 260 Sand -- salt and pepper; coarse to very coarse grained, some medium grains; angular to rounded; moderately well sorted; quartz; 15% glauconite; 3% shell fragments; some fledspar; few flakes of muscovite.

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Depth (feet)

- 260 270 Sand white; coarse to very coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar; 3% glauconite; some garnet; few shell fragments.
- 270 280 Sand -- white; coarse to very coarse grained, 10% granules; subrounded; moderately sorted; quartz; feldspar; 5% glauconite; few grains of garnet.
- 280 290 Sand and granules -- white; coarse to very coarse grained, 50% granules; subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite.
- 290 300 As above except 40% granules.
- 300 310 Granules off white; moderate sand; coarse to very coarse grained; subangular to subrounded; well sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 310 320 As above.
- 320 330 As above plus some pebbles.
- 330 340 Sand and granules off white; slightly clayey; medium to very coarse grained, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite.
- 340 350 As above except sand; 20% granules, few grains of glauconite.
- 350 360 Sand -- off white; slightly clayey; medium to very coarse grained, 3% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 360 370 Sand -- off white; slightly clayey; coarse to very coarse grained, some medium grains, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite.
- 370 380 Sand -- off white; slightly clayey; coarse grained, 3% granules; subrounded; moderately well sorted; quartz; feldspar; few flakes of muscovite.
- 380 390 Sand -- off white; slightly clayey; coarse graind, some fine grains, 7% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; garnet; muscovite.
- 390 400 As above except no garnet.
- 400 410 Sand -- off white; coarse to very coarse grained, 10% granules; subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 410 420 As above except slightly clayey.
- 420 430 Sand -- off white; slightly clayey; coarse grained to granular; subrounded;

Depth (feet)

moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.

- 430 440 Granules -- off white; moderate very coarse grained sand; subrounded; moderately well sorted; quartz; feldspar; few flakes of muscovite; glauconite.
- 440 450 Sand -- off white; slightly clayey; coarse to very coarse grained, 15% granules; subrounded; moderately sorted; quartz; feldspar.
- 450 452 No sample.

Logged by Michael T. Currie Jan.19, 1979