OWNER: Mobile Chemical Co. (Plant Well #2)

DRILLER: Sydnor Hydrodynamics, Inc.

COUNTY: Hanover (Elmont)

VDMR: 2068 WWCR: 106

TOTAL DEPTH: 3221

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-401)

0-10 Sand - red-brown, slightly silty and a trace of clay, strong iron-oxide staining, weathered, poorly sorted;

angular grains of quartz and feldspar

10-20 Sand - tan, well sorted, medium- to fine-grained with a

few coarse sand and pebble-size grains; angular grains, except a few well-rounded coarse-sand and pebble-size

quartz grains; iron-oxide powder coating on most

grains; trace of dark, very fine-grained lithic material

20-30

30-40

CALVERT FORMATION (40-80')

40-50 Sand - gray, moderately clayey, fine - to medium-grained,

fairly well-sorted; quartz

50-60

60-70

70-80

80-82 No sample

PETERSBURG GRANITE (82-307')

82-97 Biotite granite - gray, fine- to medium-grained, with

minor amount of coarse feldspar; holocrystalline; feldspar, quartz and biotite, with traces of muscovite, garnet, and

pink feldspar

97-107

107-117

OWNER: Mobile Chemical Co. (Plant Well #2)

DRILLER: Sydnor Hydrodynamics, Inc.

COUNTY: Hanover (Elmont)

VDMR: 2068 WWCR: 106 TOTAL DEPTH: 322

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-401)

0-10 Sand - red-brown, slightly silty and a trace of clay,

strong iron-oxide staining, weathered, poorly sorted;

angular grains of quartz and feldspar

Sand = tan, well sorted, medium- to fine-grained with a

few coarse sand and pebble-size grains; angular grains, except a few well-rounded coarse-sand and pebble-size

quartz grains; iron-oxide powder coating on most

grains; trace of dark, very fine-grained lithic material

20-30

30-40

CALVERT FORMATION (40-80')

Sand - gray, moderately clayey, fine - to medium-grained,

fairly well-sorted; quartz

50-60

60-70

70-80

80-82 No sample

PETERSBURG GRANITE (82-3071)

82-97 Biotite granite - gray, fine- to medium-grained, with

minor amount of coarse feldspar; holocrystalline; feldspar, quartz and biotite, with traces of muscovite, garnet, and

pink feldspar

97-107

107-117

Yell. TAU gurd Elev 2 200 topo

with traces of muscovite and garnet

277-287.	Biotite granite - slightly pinkish-gray, medium grained, with minor amount of coarse-grained feldspar; holocrystallin		
	feldspar, quartz, biotite, and pink feldspar, with traces		
	of muscovite and garnet		

287-297

297-307 " light pinkish-gray; less biotite, more pink feldspar

307-322 No sample

GEOLOGIC SUMMARY

	Rock Unit	Age
0-401	Columbia Group	Pleistocene
40-801	Calvert Formation	Middle Miocene
80-821	No sample	
82-307'	Petersburg granite	Paleozoic (?)
307-3221	No sample	

Virginia Division of Mineral Resources Robert G. Willson, Geologist January 10, 1968 COMMONWEALTH OF VIRGINIA

VDMR: 2068 WWCR: 106

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

McCormick Road

JAMES L. CALVER, COMMISSIONER
C. lottesville, VA 22903 WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Mobil Chemical Company	Mailing Address: 401 East Main Street-Richmond,
TENANT: Plant Well No. 2	Mailing Address:
	Mailing Address: Box 1476 - Richmond, VA
WELL LOCATION: County Hanover	Approx. 100 * west side (direction) of
	****** north (direction) of Richmond, VA
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T COUNTY HIGHWAY OR OTHER MAP.)	
DATE STARTED: July 27, 1967	DATE COMPLETED: August 3, 1967
TYPE OF DRILL RIG USED: Rotary	No. 64 TOTAL DEPTH 322 feet
	surface OR established and S22 S10 S22 Section 2 S22 S10 S22 S22 S23 S23 S23 S23 S23 S23 S23 S23
has <u>NATURAL</u> flow of_	gallons per minute.
YIELD TEST: Method Air Lift	HOLE SIZE: 9-7/8 inches from 0 to 92 feet
Drawdown feet	_6-1/2nches from _92to _322feet
Rate 1 gal. per min.	inches fromtofeet
Durationhrs.,min.	SCREEN SIZE:inches fromtofeet
WATER ZONES: fromtofeet	inches fromtofeet
fromtofeet	inches fromtofeet
fromtofeet	CASE SIZE: 7 OD to 91/811 feet
WATER: ColorTaste	inches fromtofeet
OdorTemp°F	inches fromtofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Method
Farm Town School	Material Depth feet
Industry X Other	PUMP: Type
WATER ANALYSIS AVAILABLE: YesNo _X	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes X No (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	ED FREE OF CHARGE UPON REQUEST.)
ARKS:	

AINIBRIV FLOGITJABWHOMMOD

COMMISSIONER

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: November 21, 1967

(fee	arlenes/HT	TYPE OF ROCK OR SOIL PENETR	ATED REMARKS
FROM	to To	(gravel, clay, etc., hardness, color, e	tc.) (water, caving, shot, screen, sample, etc.)
		Molling Address	TENANT: Plant Well No. 2 (
0 20	20 40 bac	Red clay Red sand clay	SRILLER Sydnor Hydrodynamics, Lc.
40	87	Gray clay, sand and gravel	
87	106 220	Gray granite	WELL LOCATION County Hanover Interstate 95 Right of W.y and 6
220	250 255	Gray and white granite	MORE THE SOLUTION AND DISTANCE IN SEEL OR WILE ERON
255	260	Gray, red and white granite	COUNTY HIGHWAY OR OTHER MAP)
260	267 303 1/2	Gray and red granite	SATE STARTED 1. July 27 1967
303 1/2	304	Red and gray granite	TYPE OF DRILL RIG USED: Note I
304 310	310 322	Red and gray granite	WATER LEVEL! Standsles' below
		gallons per minute	. No wolf <u>ASUTAN</u> and
t++1	9	HOLE SIZE: 9-7/8 nches to +	VIELO TEST Method Air Lift
1501	21032	_6_1/2. nes trom _9	fe i nrobwat0
Tset	61	mant redshi	Rute 1 gat per n in
[95]		SCREEN SIZE	o n
100	o 1		VATER ZONES from to the feet
teet	01	nches from	1991
1501_118	119.51.0	CASE SIZE: 7 OD	79610/(0)1
1931		nort senonu	WATER: Color
test		non sanon.	7° Tem; °F
		GPOUTING:/Method	WELL TO SUPPLY! (theck one) Home
test			FormTownSchool
			tento, X yetaubm
nem to	10.		VATER ANALYSIS AVAILABLETTES
1991			
		INTERVALS THESE SAWRLES MAY BE	RILL CUTTINGS SHOULD BE CULLECTED AT 10 FOOT OFFICE EXPRESS COLLECT SAMPLE CAGS ARE FURNISH
			CARKS
		(Use additional forms	

VDMR: 2068 WWCR: 106

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS: McCormick Road

B 3667 ...lottesville, VA 22903 WATER WELL COMPLETION REPORT OWNER: Mobil Chemical Company Moiling Address: 401 East Main Street-Richmond, TENANT: Plant Well No. 2 geting on #18#3 ____ Mailing Address:____ DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: Box 1476 - Richmond, VA WELL LOCATION: County Hanover Approx. 100 test west side (direction) of 6 *** north (direction) of Richmond, VA Interstate 95 Right of Way and (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC - ON COUNTY HIGHWAY OR OTHER MAP.) DATE STARTED: July 27, 1967 DATE COMPLETED: August 3, 1967 No. 64 TOTAL DEPTH 322 TYPE OF DRILL RIG USED: Rotary Stands____feet below surface CR WATER LEVEL: has NATURAL flow of _____gallons per minute. HOLE SIZE: 9-7/8 inches from 0 to 92 feet YIELD TEST: Method Air Lift 6-1/2nches from 92 to 322 feet Drawdown _____feet Rate $\underline{\hspace{1cm}}$ gal. per min. _____to _____feet Duration hrs., min. SCREEN SIZE:____inches from _____to ____feet ____inches from _____to ____feet WATER ZONES: from ______to _____ __inches from _____to____feet from_____feet CASE SIZE: 7 OD to 91/817 feet from _____to____feet ____inches from____to____feet WATER: Color_____Taste__ Odor________oF ____inches from ____to___feet GROUTING: Method _____ WELL TO SUPPLY: (check one) Home __ Material _____ Depth_____ feet Farm _____ Town ____ School ____ Industry X Other PUMP: Type ___ WATER ANALYSIS AVAILABLE: Yes _____No _X Capacity_____gal per min Yes X No ___ Depth of intake ___ DRILL CUTTINGS SAVED: (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

YELLOW TAVERN QUADRANGLE

ELEV. : 195'

INTERVAL SHEET

WWCR: 106

1 Pare 1 of

VDMR Well No: 2068

Date rec'd: 12/18/67

Sample Interval: from 0' to: 307'

Number of samples:

28

Mobile Chemical Co. #2 PROP:

Total Depth: 322'

COMP: Sydnor Hydrodynamics

No Sample

No Sample

Oil or Gas: Water: xExploratory:

COUNTY: Hanover (Elmont) From-To From-To From-To From-To 0 10 287 - 297 10 20 297 - 307 20 -30 No Sample 30 40 40 -50 50 -60 60 -70 70 -80

> 82 -97 97 _ 107 107 - 117 117 - 127 127 - 130

> 137 - 147 147 - 157 157 - 167 167 - 177

177 - 187 No Sample 197 - 207 207 - 217

217 - 227 227 - 237 237 - 247 247 - 257

No Sample 267 - 277 277 - 287