COMMONWEALTH OF VIRGINIA

W#: 2668 C#: 188

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

B 3667

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road

Ci._.lottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Allied Chemical Corporation	Mailing Adda			rsburg, VA	23803
TENANT: Chesterfield Receiving Plant Well #2	Mailing Add	ress P. O.	Box 31, Peter	rsburg, VA	23803
DRILLER: Mitchell's Well & Pump Company	. Mailing Add	ress: Rt. #	1, Box 110, Co	ol. Hgts, V	A 238
WELL LOCATION: CountyChesterfield	Approx.	feet miles	Follow sud	OE (direct	
on Bermuda Hundred Road and and					30.
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T	WO REFERE	NCE POINTS	- ROADS, TOWNS,	RIVERS, ETC.	- ON
DATE STARTED: June 1969				70	60
TYPE OF DRILL RIG USED: cable tool	Lovez	TO T	AL DEPTH	197'3"	fee1
WATER LEVEL: Stands 15 feet below	surface	OR	pieco		
has <u>NATURAL</u> flow of_	g a	llons per	minute.	110	
YIELD TEST: Method <u>pumped</u>	HOLE	SIZE: 8	inches from	0 to 197½	feet
Drawdown52feet			inches_from	to	feet
When pumped at Rate 200 gal. per min.		-	_inches from	to [feet
Duration 69 hrs., 35 min. not continual; developing & testing	SCREEN	SIZE: 6	inches from		feei
WATER ZONES: fromtofeet			_inches from	to	feet
fromfeet			_inches_from _		
fromtofeet	CASE	SIZE:6	inches from		
WATER: Color clear Taste good		-	includi inches from	ng screen	
Odor <u>none</u> Temp°F			inches from	to	feet
WELL TO SUPPLY: (check one) Home	GROUT		d		
FarmTownSchool		Material	De	pth	feet
IndustryXOther	PUMP:	Туре _	Submersibl	e	
WATER ANALYSIS AVAILABLE:YesNo_X_		Сарас	ity15_HP	gal. pe	er min
DRILL CUTTINGS SAVED: 20 Yes X No CORILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH R. ARKS: *Screens at several intervals - 30'	INTERVALS. ED FREE OF	THESE SAM F CHARGE	UPON REQUEST.	SHIPPED TO	

FURNISHED BY: Mitchell's Well & Pump Company DATE: July 1969

Top Top Soil and red mud Top Red mud And Top Soil and sand Top Red mud Top Red Top Red Top Red Top T	DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED		REMARKS
10			(gravel, clay, etc., hardness, color	, etc.)	(water, caving, shot, screen, sample, etc.
20	080	/10 day	Top soil and red mud	CH LISW SA	NANY: Chesterfield I IN organt -
30	010 AV	20	Red mud and sand	-Yar-ga	ALLER Mitchell's Well & Pump Co
30	20	30	Yellow mud and sand		Fa Winnerhand C
Sol 60 Sand, mud and small rocks 60 70 Sand and mud 70 80 Sand and mud, some gravel 80 90 Ditto 90 100 Ditto 110 Sand and gravel 110 120 Sand and gravel 120 130 Ditto 130 140 Ditto 140 150 Ditto 150 160 Ditto 170 180 Ditto 170 180 Ditto 190 Ditto 190 Ditto 190 Ditto 190 Ditto	30	40	Gray sand and gravel		TOTTTATEROT COME A NOT WOOD TITTE
Sand, and mud 70 80 Sand and mud 80 90 Ditto 90 100 Ditto 110 120 Sand and gravel 110 120 Sand and gravel 120 130 Ditto 130 140 Ditto 150 Ditto 150 160 Ditto 170 180 Ditto 170 180 Ditto 180 190 Ditto 190 Dit	40	50	Red sand and mud		on Bennuda Hundred Reg d
Sand and mud Sand and mud Sand and mud, some gravel Ditto Ditto Sand and gravel Ditto	50	60	Sand, mud and small rocks	AL MERI ER MA	TO THE DISTANCE IN PRECION AND DISTANCE IN PRECION AND DESCRIPTION AND DESCRIP
Sand and mud, some gravel	60	70	Sand and mud		37
90 100 Ditto 110 Sand and gravel 110 120 Sand and gravel 120 130 Ditto 130 140 Ditto 150 Ditto 160 Ditto 170 Ditto 180 Ditto 180 190 Ditto	70	80			2
100	80	90	Ditto	7002	STOR OF BRILL RIG VERDILLES
110	90	100	Ditto	wgler les	TER LEVEL! SHOEN 15_
110	100	110	Sand and gravel	and while of	ARLITAN IBN
120 130 Ditto 130 140 Ditto 140 150 Ditto 150 160 Ditto 160 170 Ditto 170 180 Ditto 180 190 Ditto 180 197 Ditto 190	110	120	Sand and gravel		
Ditto	120	130			
150 160 Ditto 160 170 Ditto 170 180 Ditto 180 190 Ditto 190 Folgot Ditto 1	130	140	Ditto	163	Crewboar 49 52
160 170 Ditto 180 Ditto 180 190 Ditto 190 Fellow Britto 190 Ditto 190 Fellow Britto 190 Ditto 190 Fellow Britto 190 Fell	140	150	Ditto	84.0	pumped at ware 2001 and one
170 180 Ditto 190 Ditto 19	150	160	Ditto A TYPE MARKET	n.,	Deretion 25 mortered
170 180 Ditto 180 Ditto 190 Ditto 190 Ditto 190 Sere 197% Ditto 19	160	170	Ditto	ie:	continual; devalopings testing
TERICONNE SAVEE 20 No. 20 CASE SIZE & No. 2010 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	170	180	Ditto	1994	TER ZONES, from
TER AWALYSIS GAVEL 20 1, 1919	180	190	Ditto	1001	no r)
TER AMALYSIS AVAILAGLETTE. COUTINGS SAVEL 20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	190	1974	Ditto	1997	
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VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1 Well Repository No: W#: 2668 C#: 188

Date rec'd: 9-23-69 Date Processed: Sample Interval: from:0to: 197'3"

PROPERTY: Allied Chemicals Corp. Number of samples: 20

(Well #2)

COMPANY: Mitchell's Well & Pump Co. Total Depth: 197'3"

COUNTY: Chesterfield Oil or Gas: Water: Exploratory:

Fr	com-	To F	rom-To	From-To	From-To
0 10 20 30 40	- 10 - 20 - 30 - 40 - 50	0 0 0	- - - -	- - - -	- - - -
0 60 70 80 90	- 60 - 70 - 80 - 90 - 10		-	- - - -	-
100 110 120 130 140	- 11 - 12 - 13 - 14 - 15	20 30 40	- - - -	- - -	-
150 160 170 180 190	- 16 - 17 - 18 - 19 - 19	0 80	-	- - - -	-
	-		- - -	- - - -	-

All intervals have both washed & unwashed samples.

OWNER: Allied Chem. Corp. #2

DRILLER: Mitchell's W & P COUNTY: Chesterfield

W#: 2668 C#: 188

TOTAL DEPTH: 1974' QUAD.: Hopewell

ELEV.: 18

GEOLOGIC LOG

Depth (feet)	
0-10	Sand — very light olive brown; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; feldspar; 2% opaques.
10-20	Sand — dusky yellow; moderate clay; coarse grained to granular, some fine grains, some medium grains, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; muscovite.
20-30	As above except very light olive brown; slightly clayey; few opaques; few grains of glauconite.
30-40	Sand — yellowish gray; moderate clay; medium to very coarse grained, 10% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet; muscovite.
40-50	Sand — dark yellowish orange; 50% moderately to heavily stained grains; slightly clayey; coarse grained to granular, some medium grains, 2% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; muscovite; few grains of glauconite; few grains of hornblende; few grains of jasper.
50-60	Sand — off white; abundant clay; fine to coarse grained, few granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some muscovite.
60-70	Sand — off white; slightly clayey; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar.
70-80	As above except moderate clay; 7% pebbles; poorly sorted.
80-90	Sand — white; slightly clayey; coarse grained to gravel (30%); subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
90-100	Sand — white; moderate clay; coarse grained to granular, 3% pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
100-110	As above except 15% pebbles; poorly sorted.
110-120	As above.

Depth (feet)

- 120-130 Sand and gravel white; coarse grained to granular, 40% pebbles; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 130-140 As above.
- 140-150 As above except sand; coarse grained to granular, 15% pebbles.
- 150-160 As above plus some heavily iron stained grains.
- 160-170 As above except 10% pebbles; few stained grains.
- 170-180 Sand and gravel white; few heavily iron stained grains; very coarse grained to granular, 50% pebbles; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 180-190 Sand white; coarse to very coarse grained, 10% granules, 7% pebbles; subrounded; moderately sorted; quartz; feldspar; some garnet.
- 190-1974 Sand white; coarse grained to gravel (25%), some medium grains; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Depth (<u>feet</u>)	Thickness (feet)	Rock Unit	Time Rock Unit
0-50	50	Norfolk Formation	Pleistocene
50-197	147	Patuxent Formation	Cretaceous

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

December 14, 1978