COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 3791 C#: 157

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

Bo 3667

JAMES L. CALVER, COMMISSIONER

Contesville, VA 22903 WATER WELL COMPLETION REPORT

OFFICE ADDRESS: McCormick Road Charlottesville, Virginia

	Olivi EE I Oliv	TIET OITT		
OWNER: Hanover County School Board	_ Mailing Address:H	Janover, VA		T MARK
TENANT: Washington Henry Elementary School		120 1/		
DRILLER: Mitchell's Well & Pump Company	R - Mailing Address: C	Rt. 1, Box 110 Col. Hgts. VA 2	3834	0
WELL LOCATION: County Hanover			15.6	irection) of
U.S. Hwy. 301 at intersection of StanRd 640 &	639 feet miles	(direction) of	30	40
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TOUNTY HIGHWAY OR OTHER MAP.)	TWO REFERENCE POI	NTS - ROADS, TOWN	S, RIVERS,	ETC ON
DATE STARTED: September 1972	DATE COMPLET	ED: October	1972	0.3
TYPE OF DRILL RIG USED: Cable tool		TOTAL DEPT	н 431	feet
WATER LEVEL: Stands 180 feet below	surface <u>OR</u>		130	120
has <u>NATURAL</u> flow of_	gallons	per minute.	150	130
YIELD TEST: Method <u>Pumped</u>	HOLE SIZE:_	12 inches from		
Drawdown feet		6 inches from .	50_to_	431 feet
Rategal. per min.		inches from		feet
Duration 4 hrs., 30 min.	SCREEN SIZE:_	5 inches from _	411 to _	431 feet
WATER ZONES: from 411 to 431 feet	_	inches from_	240	f ee t
fromfeet	_	inches from	to	feet
fromtofeet	CASE SIZE:_	6 inches from.	0 to 35	56'11"feet
WATER: Color Clear Toste good	_	5_inches from.	357 to 4	411 feet
Odor <u>None</u> Temp°F	_	inches from	to	feet
WELL TO SUPPLY: (check one) Home	GROUTING: M	ethodPressu	re 048	330
Farm Town SchoolXXX	Material	Cement & wat		O feet
IndustryOther	PUMP: Ty	pe unknown	370	370
WATER ANALYSIS AVAILABLE:YesNo_XX_	7	Salt & pepper	00 ga	DBE L peremin
DRILL CUTTINGS SAVED: 40 DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	De INTERVALS. THESE	pth of intake SAMPLES MAY BE	OLA OCA SHIPRED	feet
ARKS:	Anna (Anna (An			

Mitchell's Well & Pump Company DATE: ______November 1, 1972

(16	G 17	TYPE OF ROCK OR SOIL PENETI	RATED REMARKS
(feet) FROM TO		(gravel, clay, etc., hardness, color,	
		and recent RETA	Numy Washington Henry Flementary School
0	10	Ped clay	
10	20	Red clay	LES Mitchell's Well & Dung Company
20	30	D. 1 -1	
30	40	Red Clay Red sand	LL LOCATION Court Hanchez
40	50	5/1/	A REM BY BY THE STATE OF THE ST
50	60	Brown Sand	i.S. Hwy. 301 at interscution of St. Rd 640 &
60	70	Blue mud	PERPETRICAL BAND GRADINGS OF PERE OF BRIDE PROPER PROPER
70	80	Ditto	, 9am JEHTS BS TENNISH TIMU
80	90270	ARTE COMPLETED October 1	ré stanteo September 1972
90	100	m	atta antibata od mit c di
100	110	T4"30 JATOF	PE OF DRILL Rights Cable tool
110	120	II .	
120	130	# 20 soptius	TER LEVEL Stonie 180 km below
130	140	н	
140	150	" granting swq and Kay	TO WALL MATURAGE OF
150	160	Gray clay	
160	170	Ditto Simon Ballon	LO YEST burner Pagged
170	180	п	11.2
180		Black sand	284 28 28 C
190	200	Ditto	
200	210	White sand	
210 [8	220	Ditto	Successor 4 per 30 per
220	230	11	
230	240	May 19190	TER ZONES / ren 411 ve 431 ren
240	250	"	
250 260	260 270	White sand	t a a V rio y ^q
270	280	5/11	
280	290	Brown clay	1001
290	300	White sand	
300	310	Ditto	TER, Color Clast - Calco
310	220	IT	
320	330	man spire	Gav. Mone. Fana "F
330	V212100010000	GROUTING Weshed Prosess	
340	350	ii saaraa sarra cono	LL TO SUPPLY LINES and Name
350		Motorial Cement & Wabe	Farm Town Scano
360	370	n	THE STATE OF THE S
370	380	Gray sand	75/410 75/410 7110 684
380	390	Salt & pepper	51124.611.
390	400	Ditto Mangal	ER ANALYSIS AVAILABLE WELLER XX
400	410	u	40
410	420	M, with to edge 0	
420	431	WITERVALS TREES SAMPLES WE'VEST	LL CONTRICS THICKLE BY COULECISE AT 10 YOU'T FOR DREADS COLLECT, SAMPLE 840: AND FORMSH
			12391

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

INTERVAL SHEET

Page	1	of	1		Well Re	pository No	
Date	rec'd:	11/27/72 Dat	te Processed:	7/30/73	Sample	Interval: f	C#: 157 rom: to: 0 431
PROP	ERTY:	Hanover Co. Sc	chool Board		Number	of samples:	10001
COMP	ANY:	(Washington He Mitchells Well	enry Elem. School L & Pump	1)	Total D	epth: 431	
			- -			** **** **	
COUN	TY:	Hanover (Ellerson)			Oil or	Gas: Water:	Exploratory:
From	- To	From-	Го	From-To		From-To	
0 -	10*	250 - 60)	_		-	
10 -	20*	260 - 70		_		-	
20 -	30*	270 - 80)	-			
30 -	40*	280 - 90		_		-	
40 -	50*	290 - 30	00	-		-	¥
50 -	60*	300- 10)	_		_	
60 -	70*	310- 20	0	_		-	
70 -	*08	320 - 30)	-		-	
80 -	90*	330 - 40	0	-		-	
90 -	100	340 - 50	0	-		=	
100 -	10*	350- 60	0	_		, - ,	
110 -	20*	360 - 70	0	:-			
120 -	30*	370- 80	0	_		-	
130 -	40*	380- 90	0	-		-	
140 -	50*	390 - 40	00	-		-	
150 -	60*	400- 10	0	1-		1_1	
160 -	70*	410- 20		-		_	
170 -	*08	420- 3		-			
180 -	90*	-		=		_	
190 -	200*	. =		-		-	
200 -	10	:-		_		-	
210 -	20	-		_		-	
220 -	30	-		_		-	
230 -	40	=		-		_	

^{*} Have washed & unwashed samples: rest have unwashed only

240 - 50

OWNER: Hanover Co. School Board

(Washington Henry Elem. School)

DRILLER: Mitchell Well & Pump Co.

COUNTY: Hanover

W#: 3791 C#: 157

TOTAL DEPTH: 431

QUAD: Yellow Tavern

GEOLOGIC LOG

Depth (feet)	
0 - 10	Sand dark yellowish orange; moderate clay; fine to medium grained; subangular; to subrounded; moderately well sorted; quartz; feldspar; few opaques.
10 - 20	Sand light brown; slightly clayey; fine to medium grained; subangular; well sorted; quartz; feldspar; few opaques; few grains of glauconite.
20 - 30	Sand light brown; slightly stained; slightly clayey; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; feldspar; some opaques.
30 - 40	As above except dark yellowish orange; few granules.
40 - 50	As above except medium to coarse grained, some granules; moderately well sorted.
50 - 60	Sand and clay light olive gray; moderate clay - light olive gray, dark yellowish orange; abundant sand; fine to medium grained, 10% granules, 7% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some ferricrete; few opaques; few grains of glauconite; muscovite; few grains of garnet.
60 - 70	Sand light olive gray; moderate clay; fine grained; subangular to sub-rounded; well sorted; quartz; some muscovite; few flakes of biotite.
70 - 80	As above except abundant clay.
80 - 90	As above.
90 - 100	As above plus 10% shell fragments (unwashed sample only).
100 - 110	Clay light olive gray; abundant sand; fine grained; subangular to sub-rounded; well sorted; quartz; 7% shell fragments; few black phosphatic fragments; muscovite.
110 - 120	As above except 5% shell fragments.
120 - 130	As above except moderate sand; 2% shell fragments; some glauconite.
130 - 140	As above.

Depth (feet)

- 140 150 Clay -- very light gray; some quartz; few flakes of muscovite; shell fragments.
- 150 160 As above.
- 160 170 Clay -- light gray; moderate sand; fine to medium grained, some granules; subangular to subrounded; moderately well sorted; quartz; glauconite, 10% of sand sized fraction; some limestone; few flakes of muscovite.
- 170 180 Clay -- moderate orange pink, very light gray, light olive gray; slightly sandy; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 10% limestone fragments; 2% black phosphatic material; 2% glauconite; few flakes of muscovite; shark's tooth.
- 180 190 Clay -- very light gray, moderate orange pink; slightly sandy; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; some glauconite; few limestone fragments; few black phosphatic fragments; muscovite.
- 190 200 Clay -- olive gray; abundant sand; fine to medium grained; subangular to rounded; well sorted; quartz; 20% glauconite; 2% shell fragments; some muscovite; few black phosphatic fragments; few limestone fragments; forams scarce (inc. Robulus); few grains of blue quartz.
- 200 210 Sand and granules -- multicolored; coarse to very coarse grained, 40% granules, 10% pebbles; angular; moderately sorted; quartz; some shell fragments; few grains of glauconite.
- 210 220 Sand -- white; coarse grained, some fine grains, some medium grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few grains of garnet.
- 220 230 Sand -- white; coarse to very coarse grained, some medium grains, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 230 240 As above plus few pebbles; few flakes of muscovite.
- 240 250 Sand -- white; coarse grained to granular, some medium grains, few pebbles; subangular; moderately sorted; quartz; feldspar; few grains of glauconite.
- 250 260 As above.
- 260 270 As above.
- 270 280 Sand -- white; medium to very coarse grained, some granules; subangular; moderately sorted; quartz; feldspar; few flakes of muscovite.

Depth (feet)

- 280 290 Clay -- dusky yellow; moderate sand; coarse grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar.
- 290 300 Granite (weathered) -- off white; slightly clayey (dusky yellow clasts); quartz; feldspar; 2% muscovite; few flakes of heavily weathered biotite.
- 300 310 As above except 7% biotite.
- 310 320 Granite (slightly weathered) -- salt and pepper; quartz; white potassic feldspar; 15% biotite; 3% muscovite.
- 320 330 As above except 30% biotite; few grains of pyrite.
- 330 340 Granite (slightly weathered) -- salt and pepper; quartz; white potassic feldspar; 7% biotite; some muscovite.
- 340 350 As above except 10% biotite.
- 350 360 As above except 35% biotite; 7% muscovite.
- 360 370 As above except 15% biotite; 2% muscovite.
- 370 380 Granite (slightly weathered) -- salt and pepper; quartz; white potassic feldspar; 25% biotite; 7% muscovite; few grains of garnet.
- 380 390 As above except 15% muscovite; no garnet.
- 390 400 As above.
- 400 410 Granite (slightly weathered) -- salt and pepper; quartz; white potassic feldspar; 20% biotite; 7% muscovite.
- 410 420 Granite (slightly weathered) -- salt and pepper; quartz; white potassic feldspar; 25% biotite; 20% muscovite; few grains of pyrite.
- 420 431 Granite (slightly weathered) -- salt and pepper; 35% biotite; 20% muscovite; few grains of pyrite.

NOTE: Samples 200 - 431 are unwashed only.

Logged by: Michael T. Currie Feb 6, 1979