W#: 5141 C#: 211

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

DIVISION OF MINERAL RESOURCES OFFICE ADDRESS: MAILING ADDRESS: JAMES L. CALVER, COMMISSIONER Br 3667

McCormick Road

C. lottesville, VA 22903 WATER WELL C	OMPLETION REPORT	Charlottesville, Virginia
OWNER: Raymond Spain	3304 Light St. Mailing Address Ettrick, VA. 238	303
J. J. Mitchell, Jr. DRILLER: Mitchell's Well & Pump Co., Inc.	Mailing Address: 16815 Happy Hill Mailing Address Colonial Heights	, VA. 23834
WELL LOCATION: County Prince George		
Richard Bland college and	feet (direction) o	g 40 e
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TO COUNTY HIGHWAY OR OTHER MAP.)		IS, RIVERS, ETC ON
DATE STARTED: Jan. 1978		
TYPE OF DRILL RIG USED: Cable tool	TOTAL DEPT	THfeet
WATER LEVEL: Stands 18 feet below	surface <u>OR</u>	
has NATURAL flow of_	gallons per minute.	
YIELD TEST: Method Pumped	HOLE SIZE: 7½ inches from	
Drawdownfeet	4inches from	
took no air Rate 20 gal per min.	inches from	tofeet
Duration 4 hrs., min.	SCREEN SIZE:inches from	tofeet
WATER ZONES: fromtofeet	inches from	tofeet
fromtofeet		tofeet
fromtofeet	CASE SIZE: 4 inches from	
WATER: ColorTaste		tofeet
Odor°F	70000 Common Com	
		tofeet
WELL TO SUPPLY: (check one) Home X	GROUTING: MethodPoured :	
IndustryOther	Material Cement, sand and gravel PUMP: Type	
WATER ANALYSIS AVAILABLE:YesNo_X_		gal_per_min
DRILL CUTTINGS SAVED: 13 Yes_X_No (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	INTERVALS. THESE SAMPLES MAY B	
R. ARKS:		

FURNISHED BY: Mitchell's Well & Pump

_DATE:__

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: W#: 5141

Date rec'd: 3/17/78 Date Processed: 5/15/78 Sample Interval: from:0 to: 137

PROPERTY: Raymond Spain Number of samples: 13

COMPANY: Mitchell W & P Co. Total Depth: 137'

COUNTY: Prince George (Petersburg) Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0 - 10	-		_
10 - 20	_	_	1 _
20 - 30	-	_	_
30 -40	-	_	
40 - 50	; - -	-	
OF0 60			
50 -60	-	_	-
60 - 70	-	_	_
70 -80	-	-	=
80 -90	-	=	-
90 -100	: - ;	-	
100 -110			_
110 -120	_	_	_
120 -137	_		_
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Washed and unwashed samples.

OWNER: Raymond Spain
DRILLER: Mitchell W & P Co.

COUNTY: Prince George

W#: 5141 C#: 211

TOTAL DEPTH: 137'
QUAD: Petersburg

GEOLOGIC LOG

Depth (feet)

- 0-10 Sand grayish orange; abundant clay grayish orange, dark yellowish orange; medium to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; some feldspar.
- 10-20 Clay very pale orange; slightly sandy; medium to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 20-30 Sand light olive gray; slightly clayey; coarse to very coarse grained, 5% granules, few pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet; few grains of glauconite.
- 30-40 As above except 15% granules, 5% pebbles; no glauconite.
- 40-50 Sand olive light gray; moderate clay; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; 15% shell fragments; some black phosphatic material; few spines.
- 50-60 Clay olive light gray; moderate sand; fine to coarse grained; subangular to subrounded; moderately sorted; 40% shell fragments; quartz; some black phosphatic material; few grains of glauconite; few spines; forams rare (inc. Buccella).
- 60-70 Sand olive light gray; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 35% shell fragments; some black phosphatic material; some spines; few grains of glauconite; forams (inc. Quinqueloculina).
- 70-80 As above except fine to medium grained, some coarse grains; 30% shell fragments.
- 80-90 As above except fine to coarse grained.
- 90-100 Clay olive light gray; few shell fragments; few black phosphatic fragments; few grains of glauconite; few quartz grains.
- 100-110 Sand multicolored; coarse grained to granular, some medium grains; subangular to subrounded; moderately sorted; quartz; 2% shell fragments; 2% black phosphatic material; some glauconite; pyrite.

Depth (feet)

110-120 Sand — off white; slightly clayey; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar; few black phosphatic fragments; few grains of glauconite.

120-137 Sand — off white; coarse grained to granular, few
pebbles; subrounded; moderately sorted; quartz; feldspar;
few shell fragments.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Rock Unit	Time Rock Unit
0-40	40	Moorings "Unit"	Pleistocene
40-100	60	Calvert Formation	Miocene-Eocene
100-110	10	Nanjemoy Formation	Eocene
110-137	27+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist September 20, 1978