COMMONWEALTH OF VIRGINIA

W# 4501 C# 188

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

B 3667 WATER WELL COMPLETION REPORT C. lottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road Charlottesville, Virginia

OFFICE ADDRESS:

OWNER: Lewis E. Kirkland,	Rt. 1, Box 148 Carson, VA. 23830
TENANT: _same # BISMAR	Mailing Address: Rt. 1, Box 148, Carson, VA. 23830
DRILLER: J. J. Mitchell, Jr.	23834 Mailing Address: 16815 Happy Hill Rd. Col. Hgts. Va
WELL LOCATION: County Prince George	Approx. 1/8 miles south (direction) of
# 623 on # 30; in Carson area and	feet(direction) of
10	TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON L
DATE STARTED: August 1975	
TYPE OF DRILL RIG USED: cable tool	TOTAL DEPTH 146feet
WATER LEVEL: Stands 45 feet below	surface OR 110' test pipe - took no air
has <u>NATURAL</u> flow of_	18 gallons per minute.
YIELD TEST: Method <u>pumped</u>	HOLE SIZE: 7 inches from 0 to 12 feet
Drawdown took no air feet	
Rate 18 gal. per min.	inches fromtofeet
not continuous Durationhrs.,min.	SCREEN SIZE: 4 inches from 136 to 146 feet
WATER ZONES: fromtofeet	inches fromtofeet
fromtofeet	inches fromtofeet
fromtofeet	CASE SIZE: 4 inches from 0 to 137-4"feet
WATER: ColorTaste	inches fromtofeet
OdoroF	inches fromtofeet
WELL TO SUPPLY: (check one) Home x	GROUTING: Method sand & gravel poured in.
Farm Town School	Material sand & gravel Depth 12 feet
IndustryOther	PUMP: Type
WATER ANALYSIS AVAILABLE: YesNo	Capacitygal per min
ORILL CUTTINGS SAVED: Yes X XX (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH R ARKS:	

FURNISHED BY:____

DATE:

	rh t)	TYPE OF ROCK OR SOIL PENET	RATED REMARKS
FROM	ТО	SAL (gravel, clay, etc., hardness, color	, etc.) (water, caving, shot, screen, sample, etc.)
10 20 30 70 90 100 110	10 20 30 70 90 100 110 120 146	tan dirt orange dirt red mud gray mud gray sand tan and gray sand gray sand gray mud gray mud gray mud gray sand and gray sand	# SAMPLE # 1 . J. Mitchell, 3r. 1 2 . J. Mitchell, 3r. 1 2 . J. Mitchell, 3r. 1 5 . J. Mitchell, 3r. 1 1 . J. Mitchell, 3r. 1 1 . J. Mitchell, 3r. 1 2 . J. Mitchell, 3r. 1 2 . J. Mitchell, 3r. 1 2 . J. Mitchell, 3r. 1 3 . J. Mitchell, 3r. 1 4
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1	s on do	c eve on 110' test pipe - t	TATER LETTL. Sterrag As as reas
		Area sa massa	Landa and a <u>contract</u> when
2	I	0 m2 mm 27 . 33 ft max	LL D TE31 ALS pumped
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37-4"	I	Const. of all No. 3297 Blood	97.00
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	3-14/5/		C. C. C. C. Services and Manager Managers and
			Rec'd 11/18/75 D. Waly

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: W- 4501 C- 188

Date rec'd: 11/18/75 Date Processed: 11/9/76 Sample Interval: from:0 to: 146

PROPERTY: Lewis E.Kirkland Number of samples: 14

COMPANY: Mitchell's Well & Pump Co. Total Depth: 146'

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

From-To	From-To	From-To	From-To
0-10	-	-	=
10 - 20	_	_	_
20 - 30	_	-	_
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	_	-	_
50 - 70	_	_	_
70 - 80	-	1-1	_
80 - 90	_	_	_
90-100	-	-	-
100 - 10	_	-	—
10 - 20	-	i —	_
20 - 30	_	_	_
30 - 46'	_	-	_
-	-	<u> </u>	=
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-	_	=	-
-	-	÷	=
-	=	-	-

shed & unwashed samples

OWNER: Lewis E. Kirkland

DRILLER: Mitchell's

COUNTY: Prince George

(Carson)

W#: 4501 C#: 188

TOTAL DEPTH: 146'

GEOLOGIC LOG

Depth (feet)

- 0-10 Clay grayish yellow; moderate sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 10-20 Clay dark yellowish orange; abundant sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; few opaques.
- 20-30 Clay moderate reddish orange, light gray, dark yellowish orange; moderate sand; very fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; some feldspar; few grains of glauconite.
- 30-40 Clay very light gray, dark yellowish orange, moderate reddish orange; slightly sandy; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; few grains of glauconite.
- 40-50 Clay light gray, moderate reddish orange, dark yellowish orange; moderate sand; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; few grains of glauconite.
- 50-60 Clay light gray, dark yellowish orange; few grains of glauconite; few grains of quartz.
- 60-70 Clay light gray; slightly sandy; fine to medium grained; subangular to rounded; moderately well sorted; glauconite 60% of sand sized fraction; quartz.
- 70-80 Sand salt and pepper; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; 3% black phosphatic material; few grains of garnet.
- 80-90 As above plus some iron staining; 2% black phosphatic material.
- 90-100 Sand white; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some black phosphatic material; pyrite.
- 100-110 Sand white; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 110-120 Clay medium gray; moderate sand; coarse grained; subrounded; well sorted; quartz; feldspar; few grains of glauconite.
- 120-130 Sand white; coarse grained to granular (50%), few pebbles; angular to subrounded; moderately sorted; quartz; feldspar; some pyrite; few grains of glauconite; few grains of garnet.

Depth (feet)

130-146 As 120-130' except 20% granules; subangular to subrounded; few pyrite grains.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Rock Unit	Time Rock Unit
0-30	30	Moorings "Unit"	Pleistocene
30-60	30	Calvert Formation	Miocene-Eocene
60-70	10	Nanjemoy-Mattaponi Formation	Eocene-Cretaceous
70-146	76 ÷	Patuxent Formation	Cretaceous

NOTE: Last 26 feet may represent Basement contact (Petersburg Granite).

VIRGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist August 17, 1978