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Date rec'd: July 6, 1966

PROP: Va. Road Force Camp #4, well #6

COMP: C. C. Powell & Sons

COUNTY: Mecklenburg (Baskerville)

VDMR Well No: 1644

Sample Interval: from 1 to 280

Number of samples: 28

Total Depth: 280

Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
1 - 10 10 - 20 20 - 30 30 - 40 40 - 50	- - - -	- - - -	- - - -
50 - 60 60 - 70 70 - 80 80 - 90 90 100	- - - -	- - - -	- - - -
100 - 110 110 - 120 120 - 130 130 - 140 140 - 150	- - - -	- - - -	-
150 - 160 160 - 170 170 - 180 180 - 190 190 200	= = = = = = = = = = = = = = = = = = = =	- - - -	-
200 - 210 210 - 220 220 - 230 230 - 240 240 - 250	= = = = = = = = = = = = = = = = = = = =	- - - -	=
250 - 260 260 - 270 270 - 280 -	- - - -	- - - -	=

OWNER: State Convict Road Force Camp #4, well #6

DRILLER: C. C. Powell & Sons, Inc.

COUNTY: Mecklenburg (Stony Cross)

VDMR 1644 WWCR 67 TOTAL DEPTH: 2801

GEOLOGIC LOG

Chlorite schist — green; plagioclase, quartz, epidote, magnetic with vein quartz with vein quartz vein quartz color of the schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase color of the schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase color of the schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase color of the schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite color of the schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite color of the schist of the schief		
Chlorite schist — green; plagioclase, quartz, epidote, magnonic with vein quartz with vein quartz vein quartz control of the schist in the preen; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase control of the schist in the preen; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase control of the schist in the preen; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase control of the schist in the schiet in the schie	1 - 10	Overburden - light reddish tan clay with very fine mica
30 - 40 " with vein quartz 40 - 50 " 50 - 60 " 60 - 70 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 70 - 80 " with vein quartz 90 - 100 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 100 - 110 " with some pink schist 110 - 120 Chlorite schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite 120 - 130 " 130 - 140 " 140 - 150 " 150 - 160 " 1 trace of vein quartz	10 - 20	Overburden — dark tan clay, weathered brown and green schist
40 - 50 " 50 - 60 " 60 - 70 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 70 - 80 " 80 - 90 " with vein quartz 90 - 100 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 100 - 110 " with some pink schist 110 - 120 Chlorite schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite 120 - 130 " 130 - 140 " 140 - 150 " 150 - 160 " 1 trace of vein quartz	20 - 30	Chlorite schist - green; plagioclase, quartz, epidote, magnetic
50 - 60 " 60 - 70 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 70 - 80 " 80 - 90 " with vein quartz 90 - 100 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 100 - 110 " with some pink schist 110 - 120 Chlorite schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite 120 - 130 " 130 - 140 " 140 - 150 " 150 - 160 " 1 trace of vein quartz	30 - 40	with vein quartz
Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 70 - 80 " with vein quartz 90 - 100 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 100 - 110 " with some pink schist 110 - 120 Chlorite schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite 120 - 130 " 130 - 140 " 150 - 160 " trace of vein quartz	40 - 50	in .
slightly calcareous, magnetic, plagioclase 70 - 80 " 80 - 90 " With vein quartz 90 - 100 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 100 - 110 " With some pink schist 110 - 120 Chlorite schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite 120 - 130 " 130 - 140 " 150 - 160 " trace of vein quartz	50 - 60	TT .
80 - 90 " with vein quartz 90 - 100 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 100 - 110 " with some pink schist 110 - 120 Chlorite schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite 120 - 130 " 130 - 140 " 140 - 150 " 150 - 160 " 1 trace of vein quartz	60 - 70	
90 - 100 Chlorite schist — green; epidote, calcite crystals, quartz, slightly calcareous, magnetic, plagioclase 100 - 110 " with some pink schist 110 - 120 Chlorite schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite 120 - 130 " 130 - 140 " 140 - 150 " 150 - 160 " 160 - 170 " trace of vein quartz	70 - 80	rri
slightly calcareous, magnetic, plagioclase 100 - 110	80 - 90	with vein quartz
110 - 120 Chlorite schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite 120 - 130 " 130 - 140 " 140 - 150 " 150 - 160 " 160 - 170 " trace of vein quartz	90 - 100	
chlorite, epidote, magnetite 120 - 130	100 - 110	with some pink schist
130 - 140 " 140 - 150 " 150 - 160 " 160 - 170 " trace of vein quartz	110 - 120	Chlorite schist — medium to light green; quartz, plagioclase, chlorite, epidote, magnetite
140 - 150 " 150 - 160 " 160 - 170 " trace of vein quartz	120 - 130	п
150 - 160 " 160 - 170 " trace of vein quartz	130 - 140	TI.
160 - 170 " trace of vein quartz	140 - 150	tt.
The second secon	150 - 160	n .
170 100 Chlorita gabiet madium to light group growth playinglass	160 - 170	" trace of vein quartz
chlorite schist — medium to light green; quartz, plagioclase chlorite, epidote, magnetite; porous, weathered with vugular calcite and calcareous schist; fractures with slickensides	170 - 180	
180 - 190 " some brown-stained calcite	180 - 190	some brown-stained calcite

190 - 200	Chlorite schist — medium to light green; quartz, plagioclase, epidote and porous weathered schist that has slickensides and brown stained calcite
200 - 210	with white to dark blue-black chert
210 - 220	Chlorite schist — medium to light green with pink tints; quartz, plagioclase, epidote and porous weathered schist that has slickensides and brown stained calcite
220 - 230	TI .
230 - 240	Chlorite schist — medium to light green; quartz, plagioclase, epidote, and porous weathered schist that has slickensides and brown stained calcite
240 - 250	11
250 - 260	Chlorite schist — gray-green to light gray-green; quartz, plagioclase, chlorite, epidote, magnetite, calcareous in part.
260 - 270	TI .
270 - 280	Chlorite schist — gray-green to light gray-green; quartz, plagioclase, chlorite, epidote, magnetite, calcareous in part; with some slickensides and vugular calcite

GEOLOGIC SUMMARY

Chlorite schist of Cambrian (?) age

Virginia Division of Mineral Resources Warren J. Souder, Geologist July 1966