COMMONWEALTH OF VIRGINIA

W#: 3654 C#: 154

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Br 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Lottesville, VA 22903 WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Natkins & Company, Inc.	Mailing Address:	Rt. 1 Ashland,	VA	To a	
TENANT:	. Mailing Address:	P.O. Box	4009	-02	
DRILLER: Atlantic Pump & Equipment Co.	. Mailing Address:—			8.5	0.1
WELL LOCATION County Hanover	Approx. <u>150</u>	feet Wes	t la	(dir	
U.S. Hwy. 1and1.2	milesNort	h(direct	on) of Her	rico (Co. Line
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TOURNTY HIGHWAY OR OTHER MAP.)	TWO REFERENCE PO		TOWNS, RI	The second	ETC ON
DATE STARTED: July 8, 1972		TED: July	15, 1972		
TYPE OF DRILL RIG USED: Air Rotary	sdiesan desid			200	fee9
WATER LEVEL: Stands 30 feet below	surface <u>OR</u>				
has <u>NATURAL</u> flow of_	gallons	per minu	te.		
YIELD TEST: Methodpumped	HOLE SIZE:		from0	to	fe et
Drawdown <u>120</u> feet		6_inches	from <u>51</u>	to	<u>200</u> feet
Rate <u>85</u> gal. per min.	1	inches	from	to	feet
Duration 24 hrs., min.	SCREEN SIZE	inches	fr om	to	feet
WATER ZONES: from 58 to feet		inches	from	† o	feet
from <u>122</u> tofeet	-	inches	from	to	feet
from <u>152</u> to <u>158</u> feet	CASE SIZE:	6_inches	fromO	to	feet
WATER: Color None Taste 0	-	inches	from	t o	feet
Odor <u>None</u> Temp. <u>61</u> °F	-	inches	from	t o	feet
WELL TO SUPPLY: (check one) Home	GROUTING:	Method Pre	ssure		
Farm Town School	Materia	Cement_	Depth	51	feet
IndustryXXOther	PUMP: T	ype <u>Subme</u>	rsible		
WATER ANALYSIS AVAILABLE: Yes XX No		Capacity	40	gal	per min
DRILL CUTTINGS SAVED: Yes XX No	C	Depth of intak	e	168	feet
(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH				IIPPED 7	ro THIS
R ARKS:					
Desire the second secon				Control Control	

FURNISHED BY: Charles Thomas

_DATE:_____July 8, 1972

DEPTH (feet)	TYPE OF ROCK OR SOIL PENE	TYPE OF ROCK OR SOIL PENETRATED		
FROM T	O (gravel, clay, etc., hardness, col	or, etc.)	(water, caving, shot, screen, sample, etc.	
10 18 3 3 5 5 8 6 6 6 5 9 6 10 8 14 14 7 15 15 2 15	Black & white quartz White brown & black granite	2.1	nomqirpi a gara bidastdA 3 GPM 2 GPM 80 GPM VIII	
da'al	* HISBU 1850	Enthany	THE LOCK CHE SHIP IN PARTY	
	To as they	40,00	30 SIGNAL 30	
	ATACAS ING PRODES	- To work o	REPLANT TO THE REPLANT OF THE PARTY OF THE P	
10	1_0			
250 = 1	1 2 3	F-100	Demandam 320	
f fed	- Will 65 (10-5) 11		111 19	
(4) h	1 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	15.0	24 mg 24 mg	
2 - 1 - a - a - a - a) mc v - w k - v		SE MATER ZONES OUT SE	
1489	Land Mart 2001	1011	vr.o. 122 w.	
31fqc	1 0 -001 101- 3 -5512 NAS	158	152	
1981	entit god, per		- Mone None	
leat	*		bookbro	
	SPOUTING Warras Pressure		MILL TO SUPPLY COMES OF HIME	
51	Marine of Centeral Control		001.1	
	PUMP New Submersible			
1 10 1010 121			LUNCTER ANALYSIS NAME RETAIN	
88.		33	er care sourtes into	
			2 M R A	

(Use additional forms if necessary)

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Box 3667

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JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903 WATER WELL CC)MPLETION REPORT Charlottesville, Virgin
OWNER: NATKINS & COMPANY, INC.	Molling Address: Rt 1 Ashland, Virginia
TENANT: Natkins & Company., Inc.	Mailing Address: Same
DRILLER: Atlantic Pump & Equipment Co	
Rt 1 Hanover Co; and 1.2	Approx. 150 Willet West (direction) **More Menuro Co line miles North (direction) of Allege Rd
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TV COUNTY HIGHWAY OR OTHER MAP.)	
DATE STARTED: July 8, 1972	DATE COMPLETED: July 15, 1972
TYPE OF DRILL RIG USED: Air Rotary	TOTAL DEPTH 200 fee
WATER LEVEL: Stands 30 feet below	suriace <u>OR</u>
has <u>NATURAL</u> flow of	gallons per minute.
YIELD TEST: Method Pump	HOLE SIZE: 10 inches from 0 to 51 fee
Drawdown <u>150</u> feet	6 inches from 25/to 200 fee
Rate <u>85</u> gal. per min.	inches fromtofee
Duration 24 hrs., omin.	SCREEN SIZE:inches fromtofee
WATER ZONES: from 58 to feet	inches fromtofee
from 122 to feet	inches fromtofee
from 180 to feet	CASE SIZE: 6 inches from 0 to 51 fee
WATER: Color None Taste O	inches fromtofee
Odor <u>None</u> Temp. <u>61</u> °F	inches fromtofee
WELL TO SUPPLY: (check one) Home	GROUTING: Method Pressure
Farm Town School	Material <u>Cement</u> Depth 51 fee
Industry X Other	PUMP: Type Submersible
WATER ANALYSIS AVAILABLE:Yes X No	Capacity40_gal. per mir
DRILL CUTTINGS SAVED: Yes No OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE	Depth of intake
REMARKS: YELLOW TAVERN QUADRANG	ile
ELEV. : 182 1	

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

INTERVAL SHEET

Page	е	1	of	1			ository No:	~!! 3.F.4
Date	e rec'	d: 9/18/7	2 Da	te Processed	d: 1/5/73	Sample In	nterval: fr	om: to:
PROI	PERTY:	Natkins	& Co.,	Inc.		Number of	f samples:	19
COMI	PANY:	Atlanti	c P & E	Co.		Total Dep	oth: 200'	
COU	NTY:	Hanover (Richmo				Oil or Ga	as: <u>Water</u> :	Exploratory:
Fron	m-To		From-	То	From-To		From-To	
0 -	10		_		_		s 2	
10 -			_				-	
20 -			-		_		_	
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All intervals have both washed & unwashed samples.

OWNER: Natkins and Co., Inc. DRILLER: Atlantic P & E Co.

COUNTY: Hanover

(Richmond)

W#: 3654 C#: 154

TOTAL DEPTH: 200' QUAD: Yellow Tavern

GEOLOGIC LOG

	Depth (feet)						
	0 - 10	Sand very dark yellowish orange; moderate clay; fine to medium grained, some coarse grains, some granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; few fragments of ferricrete.					
	10 - 20	Granite (heavily weathered) light olive brown; moderate clay; quartz; white potassic feldspar; 5% biotite; some muscovite.					
	20 - 30	As above except 2% muscovite.					
40 - 50 - 60 - 70 - 80 - 100	30 - 40	Granite (heavily weathered) light olive brown; moderate clay; quartz; white potassic feldspar; 5% biotite; some muscovite.					
	40 - 50	Granite (weathered) light olive gray; moderate clay; quartz; white potassic feldspar; 20% biotite; some muscovite.					
	50 - 60	As above.					
	60 - 70	Granite (slightly weathered) light olive gray; quartz; white potassic feldspar; 15% muscovite; 10% biotite.					
	70 - 80	Granite (slightly weathered) grayish olive; slightly clayey; quartz; white potassic feldspar; 40% biotite; some muscovite.					
	80 - 90	Granite (slightly weathered) medium light gray, white; quartz; white potassic feldspar; 35% biotite; 3% muscovite; few grains of pyrite.					
	90 - 100	Biotite schist medium dark gray; 60% biotite; quartz; white potassic feldspar; few flakes of muscovite.					
	100 - 110	As above except 75% biotite.					
	110 - 120	Biotite schist medium dark gray, pale yellowish brown; 50% biotite, quartz; white potassic feldspar; 7% muscovite; some pyrite.					
	120 - 130	As above except 40% biotite; 12% muscovite; few grains of pyrite.					
	130 - 140	As above.					

Depth (feet)

- 140 150 Granite -- white; quartz; white potassic feldspar; 10% biotite schist fragments; 5% biotite (schist only); few flakes of muscovite.
- 150 160 Biotite schist -- medium dark gray; 60% biotite; quartz; white potassic feldspar; few flakes of muscovite; pyrite.
- 160 170 As above.
- 170 180 As above except slightly weathered; 40% biotite; some muscovite.
- 180 200 As above plus few grains of garnet.

Logged by: Michael T. Currie Feb. 6, 1979

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Rock Unit	Time Rock Unit
0 - 10	10	Columbia Group	Pleistocene
10 - 200	190	Petersburg Granite	Paleozoic (?)

VIRGINA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist February 12, 1979