R Massanutten Development Company

P Well No. 4

COMMONWEALTH OF VIRGINIA

W-3405 C-619

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

P × 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

rlottesville, VA 22903 WATER WELL COMPLETION REPORT Charlottesville, Virginia

	Mailing Address: P. O. Box 1227, Harrisonburg, Va.
TENANT: Well #4	Mailing Address:
DRILLER: Burner Well Drilling	Mailing Address: P. O. Box 98, McGaheysville, Va.
WELL LOCATION: County Rockingham	Approx. 10,800 feet East (direction) of
78°47'30" Longitude and 10,700	feet miles North (direction) of 38°22"30" Latitud
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T COUNTY HIGHWAY OR OTHER MAP.)	WO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: January 27, 1972	DATE COMPLETED: February 15, 1972
TYPE OF DRILL RIG USED: Air Rotary	TOTAL DEPTH 397 feet
WATER LEVEL: Standsfeet below	surface <u>OR</u>
has NATURAL flow of	gallons per minute.
YIELD TEST: Method Air	HOLE SIZE: 8 inches from 0 to 47 feet
Drawdown feet	6 1/8 inches from 47 to 300 feet
Rate 25 (below 47 feet)	6inches from300to397feet
Durationhrs.,min.	SCREEN SIZE:inches fromtofeet
0 47 WATER ZONES: from 47 to 100 feet	inches fromtofeet
100 200 from 200 to 300 feet	inches fromtofeet
fromtofeet	CASE SIZE: 6 inches from 0 to 47 feet
WATER: Color Clear Taste	inches fromtofeet
Odor <u>None</u> Temp°F	inches fromtofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Not grouted this date
FarmTownSchool	Material Depthfeet
IndustryOther_Lodge	PUMP: Type Not pumped this date
WATER ANALYSIS AVAILABLE:Yes_X_No	Capacitygal per min
DRILL CUTTINGS SAVED: Yes_X_No	Depth of intakefeet
(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT I OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE	
ARKS:	

H-3405

FURNISHED BY: Burner Well Drilling

DATE: February

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETR	REMARKS		
FROM	TO.	(gravel, clay, etc., hardness, color,	(water, caving, shot, screen, sample, etc.)		
0	42	Gravel-Sandstone with intermitte	nt Shale	THAME	
42	300	Unconsolidated shale-soft & brok	en	BILLER Burner Well Drilling	
300	397	Shale Table 188 003.01		FELL LOCATION COME. Rockingham	
nilde.	1021221301	to [mosest]	10,700	78°47'30" Longitude	
ed . to	MINERSY E	CHARL SCHOOL SCALE - STALE BANKE DATE	9357 ES.10		
	5, 1972	CAYE COMPLETENC February 1		ATE STARTED: January 27, 1972	
last	397	TABL DATOT		TYPE OF CRILL RIG USEDAIR POLE	
		SE monto na	estes to		
	2	arasom tag anothing	'i woll i		
usel	(A) A) (B)			TELD TEST Nemos Air	
		6 1/8 5 4			
		6 - 244 0 000		25 (below 47 fe	
	- 10 P	SORDEN STEEL STEEL STEEL	0.0		
		_ most_cases	47 100 +++1 200	O ATER ZONES from 47 NO 100	
447		TOTAL STREET	1691000		
7	0	And 2 7512 3245	1973	(A)	
		mark radius		MILE CHE Clear Yalle	
			¥	Drive_NoneTens	
	d this da	GROWTHER Wenned Not growte		two tex projections of dis-	
				Desired	
	is date	PUNE Lot brimed th		odestryvitester	
				ATER AMECYSIS AVAILABLE, NY	
a la Y				OI RILL CUTTINGS SAVED VILL	
				THE DESIGNATION OF COLUMN AND ADDRESS OF THE CAR.	
				DARKS	

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

INTERVAL SHEET

C-619
Page 1 of 1 Well Repository No.: W-3405

Date rec'd: 2-14-72; Date Processed: 3-28-72 Sample Interval: from 0 to: 397'

PROPERTY: Massanuttan Dev. Co. #4 Number of samples: 41

COMPANY: G. F. Burner Total Depth: 397'

COUNTY: Rockingham (McGaheysville) Oil or Gas: Water:X Exploratory:

From-To	From-To	From-To	From-To	From-To
0_10	340_350		(pa)	
10_20	350_360	- -	=	_
20_25	360_370	-		
25_30	370_380	_		_
30_40	380_390			_
	390 397			
40-50	_	=	=	-
50-60	=	=	(<u>a)</u>	_
60-70	-	-	-	-
70-80	_	-	_	_
80-90	-	-	-	-
90-100	-	-	-	-
100-110	-	-	200 200	-
110-120	-	-	-	-
120-130	-		_	-
130-140	-	_	_	-
140-150	-	-	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	-
150-160	-	-	=	-
160-170	-	-	-	-
170-180	7	_	-	-
180-190	-	-1	-	-
190-200	-	=		-
200-210	ATT-		-	-
210-220	-		-	
220-230	-	-	-	-
230-240	-	-		-
240-250	-	-	-	-
250-260	7	-		-
260-270	_	_	-:	-
270-280	=	<u>-</u>	-	-
280-290	-	70A)	-	=
290-300	_	-	4.	_
300-310	_	_:	_	_
310-320	_	_		_
320-330	_	_	-	-
330-340	_	=	=	-

OWNER: Massanutten Development Co. (well #4)

DRILLER: Burner Well Drilling

COUNTY: Rockingham (McGaheysville)

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C-619 TOTAL DEPTH: 397'

GEOLOGIC LOG

Depth in feet

UNCONSOLIDATED ALLUVIUM (0-40')

0-10	Unconsolidated quartz sand
10-20	Unconsolidated quartz sand
20-25	Unconsolidated quartz sand and shale fragments
25-30	Quartzite and shale fragments
30-40	Ouartzite and shale fragments

NEEDMORE FORMATION (40-400')

40-50	Calcareous	shale	_	light	gray			
50-60	Calcareous	shale	-	light	gray			
60-70	Calcareous	shale	_	light	gray			
70-80	Calcareous	shale	-	light	gray			
80-90	Calcareous	shale	-	light	gray	with	calcite	fragments
90-100	Calcareous	shale	-	light	gray			
100-110	Calcareous	shale	-	light	gray			
110-120	Calcareous	shale	-	light	gray			
120-130	Calcareous	shale	-	light	gray	with	calcite	fragments
130-140	Calcareous	ahale	-	light	gray			
140-150	Calcareous	shale	-	light	gray	with	calcite	fragments
150-160	Calcareous	shale		light	gray	(low	calcite	content)
160-170	Calcareous	shale	-	light	gray	(low	calcite	content)

OWNER: Massanutten Development Co. (well #4) W-3405

	Depth in feet	
	170-180	Calcareous shale (low calcite content)
	180-190	Calcareous shale (low calcite content)
	190-200	Calcareous shale (low calcite content)
	200-210	Calcareous shale (low calcite content)
	210-220	Calcareous shale (low calcite content)
	220-230	Calcareous shale (low calcite content) with calcite fragments
	230-240	Calcareous shale (low calcite content) with calcite fragments
	240-250	Shale with calcite fragments
	250-260	Shale with calcite fragments
	260-270	Calcareous shale (low calcite) with calcite fragments
	270-280	Calcareous shale with calcite and pyrite fragments
	280-290	Calcareous shale with calcite fragments
	290-300	Calcareous shale
	300-310	Calcareous shale
	310-320	Calcareous shale and quartzite
	320-330	Calcareous shale
	330-340	Calcareous shale with calcite fragments and quartz sand
	340-350	Calcareous shale
	350-360	Calcareous shale
	360-370	Calcareous shale
	370-380	Calcareous shale with calcite fragments
	380-390	Calcareous shale
)	390-400	Calcareous shale

OWNER:

Massanutten Development Co. #4

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GEOLOGIC SUMMARY

	Rock Unit	Age	
40'	Unconsolidated Alluvium	Recent(?)	
360'	Needmore Formation	Devonian	

Virginia Division of Mineral Resources P. S. Frischmann, Geologist May 5, 1978