W-3287

COMMONWEALTH OF VIRGINIA C-264

DEPARIMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:			MINERAL RES		OFFICE ADDRES	
rlottesville, VA 22903	WATER	WELL	COMPLETION	REPORT	Charlottesville,	
OWNER: Mountain Run	Development,	Site #3	(Well #1) Mailing Address:	Box 217, New	Market, Va. 2	2844

(Well	#1) Mailing Address: Box 217, New Market, Va. 22844
	Mailing Address:
DRILLER: George F. Burner Well Drilling	Mailing Address: Box 98, McGaheysville, VA 22840
WELL LOCATION: County Shenandoah	Approx. 400 feet northwest (direction) of
State Rt. 730 and 50	feet U.S. Forestry Service & Mountain Run
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T COUNTY HIGHWAY OR OTHER MAP.)	property line.
DATE STARTED: October 7, 1971	DATE COMPLETED: October 12, 1971
TYPE OF DRILL RIG USED: air rotary	TOTAL DEPTH710feet
WATER LEVEL: Stands 160 feet below	surface <u>OR</u>
has <u>NATURAL</u> flow of_	gallons per minute.
YIELD TEST: Method air lift	HOLE SIZE: 10inches from 0to104 _feet
Drawdown540 feet	6 1/8 inches from 104 to 710 feet
Rate 20 gal. per min.	inches fromtofeet
Duration 2 hrs., 0 min.	SCREEN SIZE:inches fromtofeet
NATER ZONES: from 99 to 100 * feet(1	GPM)inches fromtofeet
from 187 to 188 feet(2)	GPM)inches fromtofeet
fromtofeet	CASE SIZE: 6 inches from 0 to 104 feet
NATER: ColorTaste	inches fromtofeet
OdorNoneTemp°F	inches fromtofeet
NELL TO SUPPLY: (check one) Home	GROUTING: Methodpressure
Farm Town School	Material cement Depth 100 feet
IndustryOther_Ski Resort	PUMP: Type
VATER ANALYSIS AVAILABLE:YesNo_X	Capacitygal_per_min
ORILL CUTTINGS SAVED: Yes_71_No	Depth of intakefeet
	NTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS
MARKS: * Sealed off by casing and grouting.	

-	aCommide Ri	R, COMMISSIONER M	IRVIAO LI TEMALVE	3657
DEP (fee	TH TO	TYPE OF ROCK OR SOIL PENET (gravel, clay, etc., hardness, color		REMARKS (water, caving, shot, screen, sample, etc.)
0	21	Overburden & weathered shal	e	FNANT: Ski Resort
21855	710	Shale, blue-gray, medium ha	rdness III o	
a (nods		Appear 400 Raks northyest		FELL LOCATION: Courty Shenandosh
	dougtsin acty line	to (milestic) describing per to the contract of the contract o	03	State Rt. 730
MO - 9				GIVE DRECTION AND GISTANGE "A FEET ON COUNTY HIGHWAY OR OTHER MAP.)
	1791 .5	DATE COMPLETED. Delober	1777	ATE STARTED. October 7
[99]	21.0	TOTAL DEPTH		YPE OF DRILL RIG USED LAIR ED
			wolld for	PATER LEVELT Standa 160
		elunum ieq enoling	_ic well j	nos NATURA
11 AC	D 40 1			NELD TEST: Marmon alr life
0.		6 1/8 19	195	01-09-1 04-0 S-40
1011	Q1		.7(1)	Role 20 gal per l
1111		SCREEN SIZEnrhee from	n	n O codion C notice
tout			1)100) * 00	ATER ZONES: Item 99 to 1
two1	n+	[mull 268726] [MGD]	18 tee (2.0	1 or 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1001_50	1 0 0	CASE SIZE 6 inches train	19.01	
(19)				(ATERI CojorTaste
test.			70	одог Моде темр
		GROUTING Methorpressure		FELL TO SUPPLY!(check one) Home ;
ta al	001 4	Moterial cement ne		FarmSchool
			ir	Industry Other Ski Rose
nim tan	10 p		X_ on	ATER ANALYSIS AVAILABLE: YOU
(3=1			- W	RILL OUTTINGS SAVED: YELT
SIHT)	T 0304142		TODY OF TA	DRILL CUTTINGS SHOULD AS COLLECTED
			and grouting.	ARKS: * Sealed off by Lasing

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

INTERVAL SHEET

C-264
Page 1 of 1 Well Repository No: 3287

Date rec'd: 10/24/71 ; processed 11/5/71 Sample Interval; from 0 to: 710'

PROPERTY: Mountain Run Ski Resort Well #1 Number of samples: 71

COMPANY: G. F. Burner Well Drilling Co. Total Depth: 710

COUNTY: Shenandoah (New Market) Oil or Gas: Water:x Exploratory:

1					
	Fron	m-To	From-To	From-To	From-To
	0		250 _ 260	500 - 510	<u> </u>
	10		260 _ 270	510 - 520	1944
	20		270 _ 280	520 - 530	:=:
	30		280 _ 290	530 - 540	1-1
	40	- 50	290 - 300	540 - 550	=
)	50	- 60	300 - 310	550 - 560	-
	60	- 70	310 - 320	560 - 570	a -
	70	- 80	320 _ 330	570 - 580	tena
	80	- 90	330 _ 340	580 - 590	-
	90	_ 100	340 _ 350	590 - 600	-
	100	_ 110	350 _ 360	600 _ 610	-
	110	_ 120	360 _ 370	610 - 620	
	120	_ 130	370 _ 380	620 - 630	
	130	_ 140	380 - 390	630 - 640	_
	140	_ 150	390 _ 400	640 - 650	-
	150	- 160	400 - 410	(50 ((0	
				650 - 660	<u></u>
	160		410 - 420	660 - 670	-
	170		420 - 430	670 - 680	₩.
	180		430 - 440	680 - 690	===
	190	_ 200	440 - 450	690 - 700	<u> </u>
	200	_ 210	450 - 460	700 - 710	-
	210	_ 220	460 - 470	-	=
	220	_ 230	470 - 480	<u> </u>	, , ,
	230	_ 240	480 - 490	-	_
)	240	_ 250	490 - 500	-	-

OWNER: Mountain Run Ski Resort Well #1
DRILLER: George F. Burner Well Drilling

COUNTY: Shenandoah (New Market)

W - 3287 C - 264 T.D. - 710'

GEOLOGIC LOG

Depth (in feet)	
0-10	Sandstone, siltstone, sandy saprolite, silty and/or clayey saprolite — sandstone is pinkish-white, purple or purple-brown, ferruginous, well sorted, subrounded, non-friable, with little porosity; siltstone is pinkish-brown and poorly indurated; sandy saprolite is buff colored, poorly sorted, well rounded and porous; silty and/or clayey saprolite is a mixture of buff, white, and reddish-purple porous material
10-20	Shale - gray-brown, fissile; with fragments of thinly-laminated siltstone
20-30	Shale - dark gray, fissile, sulphurous
30-40	Shale - dark gray, fissile, slightly calcareous; minor amount of light, brass-colored pyrite
40-50	Shale - dark gray, fissile, slightly calcareous
50-60	Shale — dark gray, fissile, slightly calcareous; minor amount of coarsely-crystalline white calcite
60-70	ш
70-80	Shale — dark gray, fissile, slightly calcareous; small yellow- brown stains suggest former presence of pyrite
80-90	Shale - dark gray, fissile; slightly calcareous
90-100	ti .
100-110	Shale — dark gray, fissile, slightly calcareous; minor amount of coarsely-crystalline white calcite

OWNER:	Mountain F Well #1	tun Sk	i Resor	rt -2-			W-3287 C-264	
110-120	Shale —					calcareous lline white	; a few thin vectorial	eins
120-130		п						
130-140		11	not cal	.careou	S			
140-150		11						
150-160		п				ine white o talline clea	alcite; one fr ar quartz	ag-
160-170	Shale —						; a few small presence of py	
170-180		11		.careou lline qu		all grain o	of coarsely-	
180-190	Shale —	prese	nce of	pyrite;		s of coars	suggest form ely-crystallin	
190-200	Shale —	dark	gray, f	issile,	slightly	calcareous	1	
200-210	Shale —		gray, f e and p		slightly	calcareous	; traces of	
210-220	Shale —	dark	gray, f	issile,	slightly	calcareous	į	
220-230		11	with fr	agment	s of coar	sely-cryst	calline white	calcite
230-240		11	not cal	.careou	S			
240-250	Shale —	dark calcit		issile;	some coa	ursely-cry	stalline white	2
250-260	Shale —	dark	gray, f	issile				
260-270		11						
270-280		Ħ		inor an		coarsely-c	rystalline ca	lcite

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W-3287

OWNER: Mountain Run Ski Resort

410-420	Shale — mostly dark gray, fissile, slightly calcareous; considerable amount of lighter gray, more granular, and more calcareous shale; minor amount of thinly-laminated shale, and trace of pyrite; with fragments of coarsely-crystalline white calcite
420-430	п
430-440	Shale - dark gray, fissile, calcareous, somewhat granular; traces of pyrite and coarsely-crystalline white calcite
440-450	11
450-460	Shale - mostly dark-gray, fissile, calcareous, granular; minor amount of very dark-gray, non-granular, and slightly-calcareous shale; trace of weathered pyrite
460-470	with trace of coarsely-crystalline white calcite
470-480	no calcite
480-490	и и
490-500	Shale - dark gray, fissile, granular, calcareous; trace of weathered pyrite
500-510	п
510-520	Shale — dark gray fissile, granular, calcareous; with traces of pyrite and coarsely-crystalline white calcite
520-530	Shale - mostly dark gray, fissile, granular, calcareous; with trace of pyrite
530-540	11
540-550	п
550-560	п

OWNER:	Mountain Run Ski Resort	-5-	W-3287
	Well #1		C-264

560-570	Shale - mostly dark gray, fissile, granular, calcareous; with trace of pyrite
570-580	11
580-590	п
590-600	11
600-610	п
610-620	п
620-630	п
630-640	Shale — dark gray, fissile, somewhat granular, slightly calcareous; with traces of pyrite and coarsely-crystalline calcite
640-650	iii
650-660	п
660-670	п
670-680	THE STATE OF THE S
680-690	п
690-700	°II
700-710	Shale - dark gray, fissile; somewhat granular, calcareous; with trace of pyrite

GEOLOGIC SUMMARY

Rock Unit	Age

Martinsburg Formation Late Ordovician

Virginia Division of Mineral Resources Paul G. Nystrom, Jr., Geologist November 22, 1971