(159)

INTERVAL SHEET

_age	1		VDMR WELL NO.: 4/3
Date	November 14, 1960		Sample Interval: from 80 to
PROP:	Clarence Lutz		Total Depth
COMP:	Sydnor		OilGasWater_X Exploratory
COUNTY:	Shenandoah (Harkin's Town)		Cuttings X Core Other
From-To	From-To	From-T	o From-To From-To
80_	Unwashed Samples	-	
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-		-	1 comment
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COMMONWEALTH OF VIRGINIA

DIVISION OF MINERAL RESOURCES

WWCR# 159
VDMR# 473

)		Station, Charlottesville, Virginia COMPLETION REPORT	O.A.T.	180
OWNER: Clare	nce Lutz	Mailing Address: Mt Jackson	Va.	MORE
TENANT:	Sudvan Prime (Wall	Mailing Address:	7007	0
DRILLER: ALE	bydnor rump & well	Co Mailing Address: Richmond, V	ler fil	
WELL LOCATION:	county Shenandoah	Approx.	miles	16
(dire	or tenths of mile from two reference points - roads towns	rivers, etc.— on county highway or other map.)	LOIL V2	#3
		low Wweathered limentone	JAMES JAMES AND STREET	- AC - OE
	DEPTH	011011011111111111111111111111111111111	Tor M	O.C.
STATIC WATER LE	DEPTH 27!	Home about 0.5 m	log Nonth	0.606
	ssures or formations supplying water)			O.P.
(from)	(to) (from) (to)	US Hwy No. 11.		247
	(10) (110111) (10)			43
ft	ind≅ <u>c</u> +z tr	y limentone	87D 08	45
	JANTITY OF WATER			
WELL PUMPED (or	bailed) at 12 Gal. per Min. wit	th		
	DOWN after 4 HOURS PUMPIN	The state of the s		E
	G.P.M. HEADft. (above gro			
REMARKS:	70	111011		
COLOR light ODOR none ANALYSIS: AVAILABLE- TEMPERATURE (solf, brackish, iron, sul	WATERftft.	ft.	umping	
USE OF WATER:	Domestic 🕰 Town 🗆 Industry 🗆 Farm 🗆 Pub	lic D S		f.
	CONSTRUCTION	HOLE SIZE	CASING SIZE	
RIG TYPE (or method)	Ari rotary rotary, cable, bored, driven, etc)	(diam) (from) (to) ft	(diam.) (from)	(to)
DATE' Started 9-	30-60 · completed 9-30-60	9 0 20 5	5 0	22'7
TOTAL DEPTH	80 ° f+	SCREEN (or per	forations)	
BEDROCK at	16 t	(diam.) (from) (to)	(opening size)	
	UTING INFORMATION	Programme and the second secon		
METHOD USED		PUMP (inst	diled)	
GROUTING MATERIAL		TYPE	pm)	
DEPTH OF GROUTIN	201 27:20	H.P Depth of int	ake	ft.
REMARKS:				
NEWANKS.	Samples for Div. of Mi	neral Resources		

FURNISHED BY Sydnor Pump and Well Co. Inc. DATE: 9-20-60

from drillers Mitchell & Stockner's logs by Jesse Snyder, Jr.

DEI (fe	PTH et)	TYPE OF SOIL OR ROCK PENETRATE	D	REMARKS
FROM	то	(gravel, clay, etc., hardness, color, etc.	:)	(water, caving, shot, screen, sample, etc.)
0 1 16 24 26 30	1 16 24 26 30 36	Top soil Yellow clay Gray limestone Yellow weathered limesto Gray limestone Yellow weathered limesto	ne	water with lots of mud (7-8 gpm)?
36 40 42 43 45	40 42 43 45 80	Gray limestone Weathered limestone Gray limestone Gray limestone broken Gray limestone		2-3 gpm
			allia jugi lea Zonkanis si	to Sile to (belied to) GESKNIS JUL Sile & Latte with the Latter A
			2-15 gpm af com 70	ter 4 hrs. air testing
		#will elear with pumpin		QUALITY OF WATER OF LIGHT YELLOW TASKE OF OR MOME ALYSIS WALLED HEL MISHIELD TO MERATURE WATER
	BIIS 9M	8		WOTTOUATEROJ
22.17	0	9 0 20 5	9-30-60	vrador indvrador indva. 2917
	to up parent	Citatol se tol MASSING		PACES OF THE SO THE SECOND SEC
			100	THOO UNID GROWITY OUT WATERING COMENT AND WE FIN OF SHOUTHER 20" LUE
	(UN)	W. Regources	ef Miner	MARKS: Samples for Di-

COMMONWEALTH OF VIRGINIA

DIVISION OF MINERAL RESOURCES

Box 3667, University Station, Charlottesville, Virginia

OWNER: Clayesce Luty TENANT: TENATT: TENANT:	WATER WELL CO	MPLETION REPORT	UPMR# 413
TENANT: DRILLERPING 65 Supplies Auror and Well CITY Comming Actives Richested Vicinity WELL LOCATION: Computational and a supplying waters and a supplying waters and a supplying waters are a supplying waters. WATER CONDITIONS DEPTH STATIC WATER LEVEL L OUANTITY OF WATER WELL PUMPED (or bailed) at 22 Gal. per Min, with feet DRAWDOWN after HOURS PUMPING. FLOW (natural) G.P.M. HEAD ft. (above ground) WEMARKS: QUALITY OF WATER CUITH FRUIT PUMPED (or bailed) at 22 Gal. per Min, with feet DRAWDOWN after HOURS PUMPING. FLOW (natural) G.P.M. HEAD ft. (above ground) WEMARKS: QUALITY OF WATER CUITH TASTE OK COOR MATER. Consisting Of the Comming of the	OWNER: Clarence Lutz	Mailing Address: Mt Jack	kson, Virginia
WELL LOCATION: General County Steeland Coald (Girection) of Control Steeland Coald WATER CONDITIONS DEPTH STATIC WATER LEVEL Z' WATER ZONES (fissures or formations supplying water) ((from) (10) (from) ((from) (10) (from) ((from) (10) (from) ((form) (form) (from) ((form) (form) (from) ((form) (from) (from) ((form) (from) (from) (from) (from) ((form) (from) (TENANT:	Mailing Address	(7
MATER CONDITIONS N		Mailing Address: Richenond	Virginia
WATER CONDITIONS DEPTH STATIC WATER LEVEL (from) (io) (it) (io) (it) (iv) (i	WELL LOCATION: County Sherrandoal	Approx.	ft. miles
WATER CONDITIONS DEPTH STATIC WATER LEVEL T/ WATER ZONES (fissures or formations supplying water) (from) (fo) (from) (to) Grown (from) (to) (from) (to) Grown (from) (to) (from) (to) GRANTITY OF WATER WELL PUMPED (or bailed) at /2 Gal. per Min. with feet DRAWDOWN after HOURS PUMPING. FLOW Inditural) G.P.M. HEAD ft. (above ground) REMARKS: GUALITY, OF WATER CUTTLA PAULOPING COLOR FIGHT Yellow WY TASTE OK ODOR TOLLO OTHER ANALYSIS. AVAILABLE Yes O NOO. ATTACHED YES ONO. TEMPERATURE WATER COMBINED TOWN OF Industry OF Form O Public ON TEMPERATURE CONSTRUCTION RIG TYPE (or method) (public, policid, general, general, stc.) DATE: Storted 9-30-40, Completed 9-30-60 TOTAL DEPTH 80 ft. GROUTING INFORMATION METHOD USED GYAVITY GROUTING INFORMATION METHOD USED GYAVITY SCREEN (or perforations) GROUTING MATERIAL COMPANY THE COMPANY OF MILE OF		and tf miles o	1
STATIC WATER LEVEL 27 WATER ZONES (fissures or formations supplying water) (from) (to) (from) (to) (from) (to) (from) (from	(Give direction and distance in feet or tenths of mile from two reference points - roads, towns, rive	s, etc On county highway or other map.)	6.00 87 4/
STATIC WATER LEVEL WATER ZONES (fissures or formations supplying water) (from) (fro	WATER CONDITIONS	HERRITERIN MEG	15/ 15
WATER ZONES (fissures or formations supplying water) (from)	DEPTH	How hit	5 mil. 1. 41
(from) (to) (trom) (to) (t	STATIC WATER LEVEL	Mone a neur	miles world
COLOR FIGURE OF WATER WELL PUMPED (or bailed) at 12 Gal. per Min, with feet PRAWDOWN after 4 HOURS PUMPING. FLOW (natural) G.P.M. HEAD ft. (above ground) W REMARKS: QUALITY, OF WATER CUTTL PRINCIPLE ODOR FLOW OF WATER (UTTL PRINCIPLE ODOR FLOW OF WATER OF ORDER ODOR FLOW OF WATER (UTTL PRINCIPLE ODOR FLOW OF WATER OF ORDER ODOR FLOW OF WATER ODOR FLOW OF WATER OF ORDER ODOR FLOW OF ORDER ODOR FLOW OF ORDER ODOR FLOW OF WATER OF ORDER ODOR FLOW	WATER ZONES (fissures or formations supplying water)	of Housekinston	was Fast Sida
WELL PUMPED (or bailed) at 2 Gal. per Min, with feet DRAWDOWN after HOURS PUMPING. FLOW (natural) G.P.M. HEAD ft. (above ground) REMARKS: QUALITY OF WATER CUTTL FULL PLAY COLOR Light Yellow W TASTE OK ODOR HOLL Yellow W TASTE OK ODOR HOLL Yellow WATER (WITCH) TEMPERATURE OTHER ANALYSIS: AVAILABLE—YES ON NO: ATTACHED YES ON NO: TEMPERATURE WATER: Observed, other) CONSTRUCTION RIG TYPE (or method) Fl. (100) TOTAL DEPTH 80' ft. BEDROCK at 1/6 ft. BEDROCK at 1/6 ft. GROUTING INFORMATION METHOD USED Gravity GROUTING INFORMATION METHOD USED Gravity GROUTING MATERIAL CEMENT & Water DEPTH OF GROUTING 20' Plus REMARKS: Samples for A) in of Mich. (1705) TYPE Cap. (gpm) H.P. Depth of intake ft. REMARKS: Samples for A) in of Mich. (1705) TYPE Cap. (gpm) H.P. Depth of intake ft.	(from) (to) (from) (to)		2.0
WELL PUMPED (or bailed) at Gal. per Min, with feet DRAWDOWN after HOURS PUMPING. FLOW (natural) G.P.M. HEAD ft. (above ground) W REMARKS:	ft ft	of U.S. Huy No.	11
WELL PUMPED (or bailed) at 2 Gal. per Min. with feet DRAWDOWN after 4 HOURS PUMPING. FLOW (natural) G.P.M. HEAD ft. (above ground) W REMARKS: QUALITY OF WATER CUTTL FULL PLAY COLOR Light Yellow W' TASTE ODOR TASTE ON TASTE ON THER ANALYSIS. AVAILABLE—YES ON NOC: ATTACHED YES ON NO O TEMPERATURE GOOD, FOR WATER (100) WATER (100) TEMPERATURE GOODSTRUCTION RIG TYPE (or method) (100) ATTACHED TOWN OF WATER (100) RIG TYPE (or method) (100) FOR TOTAL DEPTH 80' ft. GROUTING INFORMATION METHOD USED GYAVITY GROUTING MATERIAL CEMEUR 4 Water TYPE Cap. (gpm) TYPE Depth of intake ft.	QUANTITY OF WATER	A. I.	
The feet DRAWDOWN after HOURS PUMPING. FLOW (natural) G.P.M. HEAD ft. (above ground) REMARKS: QUALITY, OF WATER COLOR HIGHT Yellow WY TASTE OK ODOR OTHER ANALYSIS. AVAILABLE—YES D. NOD. ATTACHED YES D. NOD. TEMPERATURE WATER: OF WATER: Demestic D. Town D. Industry D. Form D. Public D. CONSTRUCTION RIG TYPE (or method) Ft. (to) ft. GROUTING INFORMATION METHOD USED Gray TY GROUTING INFORMATION METHOD USED Gray TY GROUTING MATERIAL CEMEEN & Water BEDROCK at 6 ft. GROUTING INFORMATION METHOD USED Gray TY GROUTING ATTACHED AND TO THE COMPLETE OF TOWN D. Industry D. Form D. Public D. SOREEN (or perforations) (diam) (from) (to) (diam) (from) (to) (opening size) TYPE Cap. (gpm) H.P. Depth of intake ft. REMARKS: Samples for Div. of Min. 1785647055.		Sugar Stones Stones	Va 47 H .
QUALITY OF WATER CUIT PAULIPING COLOR Agas yellow WY TASTE OK ODOR Movie OTHER ANALYSIS: AVAILABLE— Yes D NOD: ATTACHED Yes D NOD TEMPERATURE (soin, brackish, iron, sulfur, cold, other) USE OF WATER: Domestic D Town D Industry D Form D Public D RIG TYPE (or method) Attack of the deven, etc.) DATE: Started 9.30-60 Completed 9.30-60 TOTAL DEPTH 80' ft. GROUTING INFORMATION METHOD USED Gravity GROUTING INFORMATION METHOD USED Gravity GROUTING MATERIAL Censely & Water DEPTH OF GROUTING 20' Plus REMARKS: Saugles for Div. of Mile 1 1/2566/1765.	The state of the s		
QUALITY OF WATER CUIT PALLAPING COLOR 1914 Yellew WY TASTE OK ODOR Movie OTHER ANALYSIS: AVAILABLE— Yes D NOD: ATTACHED Yes D NOD TEMPERATURE (soin, brackish, iron, sulfur, cold, other) USE OF WATER: Domestic D Town D Industry D Form D Public D RIG TYPE (or method)	FLOW (natural)G.P.M. HEADft. (above ground	d) W	4 45 6
COLOR INCLUDED TOWN TASTE OK ODOR Movie OTHER ANALYSIS: AVAILABLE—YES ID NO ID ATTACHED YES ID NO ID TEMPERATURE WATER (Irom) ft. (10) ft. USE OF WATER: Domestic D Town ID Industry ID Form ID Public ID RIG TYPE (or method) Ft. (10) ft. DATE: Started 9-30-60 Completed 9-30-60 TOTAL DEPTH 80 ft. GROUTING INFORMATION METHOD USED Gravity GROUTING MATERIAL Comeant & Water DEPTH OF GROUTING 20' plus REMARKS: Samples for Div. of Mich. (Pesoux cest.) Aliv. of Mich. (10) (10) (10) (10) (10) (10) (10) (10)		a Jay John N	
COLOR INCLUDED THE COLOR INCLUDED TO THE COL	Search Marth Anna	and the same of the	9 4 4 5
ODDR 1800 OTHER ANALYSIS: AVAILABLE—YES No ATTACHED YES No OTHER TEMPERATURE	QUALITY OF WATER		
ODDR // DUE OTHER ANALYSIS: AVAILABLE—YES No ATTACHED YES No TEMPERATURE (soil, brockish, iron, sullur, ocid, other) USE OF WATER: Domestic Town Industry Form Public CONSTRUCTION RIG TYPE (or method) Fit F	COLOR Light Gellow W TASTE OK	The same of the same of the same	45 86 6.
TEMPERATURE WATER WATER (from) ft. (to) ft. USE OF WATER: Domestic p Town Industry Form Public RIG TYPE (or method)	ODOR Novie OTHER	£.	
WATER (from) ft. (10) ft. USE OF WATER: Domestic D Town Industry Form Public CONSTRUCTION RIG TYPE (or method)	ANALYSIS: AVAILABLE- Yes No ATTACHED Yes No		
(Sain, brockish, iron, sulfur, ocid, other) USE OF WATER: Domestic D Town Industry Form Public CONSTRUCTION RIG TYPE (or method) Fit Refarce Given, etc) DATE: Started 9-30-60 Completed 9-30-60 TOTAL DEPTH 80' ft. GROUTING INFORMATION METHOD USED Gravity Grouting MATERIAL Comest Fit Grouting MATERIAL Comest Fit Grouting MATERIAL Comest Fit Grouting MATERIAL Comest Fit Grouting Fit Grouting Fit Grouting Fit Grouting Fit Grouting Fit Fit Grouting Fit Fit Grouting Fit Fit Fit Grouting Fit			
USE OF WATER: Domestic D Town Industry Form Public CONSTRUCTION RIG TYPE (or method) A12 Rs 1 a r y ((salt brackish iron sulfur acid other) ftft		
CONSTRUCTION RIG TYPE (or method)		11-31 S	
RIG TYPE (or method) Air Refary		HOLE SIZE	CASING SIZE
DATE: Started 9-30-60 Completed 9-30-60 TOTAL DEPTH 80' ft. BEDROCK at 16 ft. GROUTING INFORMATION METHOD USED Gravity GROUTING MATERIAL Cement + Water DEPTH OF GROUTING 20' plus REMARKS: Samples for Div. of Mill. Messaurces.	0. 01 03 talent		
TOTAL DEPTH 80' ft. BEDROCK at 16' ft. GROUTING INFORMATION METHOD USED Gravity GROUTING MATERIAL Cement + Water DEPTH OF GROUTING 20' plus REMARKS: Samples for Div. of Mill., Messaurces.	(rotary, cable, bored, diven, etc)	in trom (to)	in ft ft
BEDROCK at	DATE: Started 9-30-60 Completed 9-30-60	5 15' 80'	<u> </u>
GROUTING INFORMATION METHOD USED Gravity GROUTING MATERIAL General + Water DEPTH OF GROUTING 20' plus REMARKS: Samples for Div. of Min. Pessurces.	TOTAL DEPTHft.		
METHOD USED Gravity GROUTING MATERIAL Cement + Water DEPTH OF GROUTING 20' plus REMARKS: Samples for Div. of Min. Mesources.	BEDROCK atft.		(opening size)
METHOD USED Gravity GROUTING MATERIAL Cement + Water DEPTH OF GROUTING 20' plus REMARKS: Samples for Div. of Min. Resources.	GROUTING INFORMATION	PUMP	installed)
DEPTH OF GROUTING 20' plus REMARKS: Samples for Div. of Min. Messages.	METHOD USED Gravity		
REMARKS: Samples for Div. of Mili. Nessurces.		TYPE	(gpm)
Samples for Div. of Min. 18esauxces.	DEPTH OF GROUTING 20' plus	H.P Depth of	intakeft.
Samples for Div. of Min. 18esources.	DEMARKS:	*	
	Samples for Div. of Mic	, Resources.	
	Apparatus and Ap		

05	PTH	From A	Briller's Estocher	ell Logs k	By Jene Shuple)
	et) TO		E OF SOIL OR ROCK PENET ravel, clay, etc., hardness, colo		REMARKS (water, caving, shot, screen, sample, etc.)
0	1	Top :	,	minute and a second	1784
1	16		clay	1651 Co INC.	15 Right - Sydney thing da
		/	1		LEGERICH. Com Silver 19 and See Mar.
16	24		Limestone	/	and the second second
4	16	Yellon	w weathered	Limestone	. [SMOTTINGO STAW]
2.6	30	Gray	Limestone		TO WATER LEVEL 27
30	36	Yellow	weathered t	unes tone -	water with lots of mus
	40	Gray	Linestone		(7-8 6 PM 7)
34					RETAIN TO YTIFHAUD
40	42		hered Limeston	e diw min 199	L PUMPED (or brilled) of Z2 Cot.
42	43	Gray	Lime stone		SABR MR.D. (Invutni)
	45	(-0.	Line stone	Broken	78KS
43	12	Gray	Lives tone -	- 2-3	PURTUE OF STREET
					The second secon
				and the of	LYSIS AVAIDABLE - WELD HAST ATTACHED WAS PERFORMED WAS PERFORMED.
	arra adi		12-15 G1	on, afte	e 4 hrs Air Testing
	UNG STZE		12 - 15 G1 3x12 3J0H	P.M. after	GO MONTOURTEMOS
(10)	(mest)	CAS		from	TYPE OF MINOR PROPERTY OF THE PARTY OF THE P
	(mast)		HOLE SIZE TO DESCRIPTION SERVED (OR SOREEN	from	TYPE or mined His Ry La P. Completed P-30-62 Completed It DERTH 86 It
	(24)	.5 °C	HDLE SIZE	from	CONSTRUCTION TYPE or mined #1
	(24)	To perform the many of the contract of the con	HOLE SIZE	from	CONSTRUCTION TYPE or mined #11 Re fare General Confidence General Script Scrip
	(24)	.5 °C. perforation AP (massed) Cap. (gpm)	HOLE SIZE The control of the contro	from	CONSTRUCTION TYPE or mined #1
6,26	(24)	.5 °C. perforation AP (massed) Cap. (gpm)	101.E SIZE 10	from	COMSTRUCTION CYPE (COMPLETE STATE) COMPLETE STATES COM
6,26	(24)	.5 °C. perforation AP (massed) Cap. (gpm)	HOLE SIZE The control of the contro	from	COMSTRUCTION CYPE (COMPLETE STATE S
6,26	(24)	.5 °C. perforation AP (massed) Cap. (gpm)	101.E SIZE 10	from	COMSTRUCTION CYPE (COMPLETE STATE) COMPLETE STATES COM
6,26	(24)	.5 °C. perforation AP (massed) Cap. (gpm)	101.E SIZE 10	from	COMSTRUCTION CYPE (COMPLETE STATE) COMPLETE STATES COM
(, 26	(a by buve)	.5 °C. perforation AP (massed) Cap. (gpm)	101.E SIZE 10	from	COMSTRUCTION CYPE (COMPLETE STATE) COMPLETE STATES COM