NOTICE

This scan only represents the application as filed. The information contained herein meets the requirements of K.A.R. 5-3-1 or K.A.R. 5-5-1, and has been found acceptable for filing in the office of the Chief Engineer. The application should not be considered to be a complete application as per K.A.R. 5-3-1b or K.A.R. 5-5-2a.

Submit To: CHIEF ENGINEER
Division of Water Resources
Kansas Department of Agriculture
1320 Research Park Drive
Manhattan, Kansas 66502
http://agriculture.ks.gov/dwr

APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF USE, THE POINT OF DIVERSION OR THE USE MADE OF THE WATER UNDER AN EXISTING WATER RIGHT



Filing Fee Must Accompany the Application (Please refer to Fee Schedule on signature page of application form.)

Paragraph Nos. 1, 2, 3, 4 & 8 must be completed. Complete all other applicable portions. A topographic map or detailed plat showing the authorized and proposed points(s) of diversion and /or place of use must accompany this application.

1.	Application is hereby ma	ade for approval of the Chie Place of Use X Point of Diversion Use Made of Water	f Engineer to change the		WATER RESOURCES RECEIVED MAR 2 7 2023 /2:37 KS DEPT OF AGRICULTURE
		File No.	FI 01		
2.	Name of applicant: City of	of Garden City, Attention W	ater Department		
	Address: PO Box 998, 3	01 N 8 th St			
	City, State and Zip: Gard	den City, KS 67846			
	Phone Number: (620)27	6-1291	E-mail address: fred.jon	es@garden	ncity.ks.us
	What is your relationship	to the water right; owner	er ☐ tenant X☐ agent	other?	If other, please explain
	Name of water use corre	espondent: SAME			
	Address:				
	City, State and Zip:				
	Phone Number: ()		E-mail address:		
3.					equate space on current property
	The change(s) (was) (will	Il be) completed by As soon	n as approved	(Date)	
Fo F.C	or Office Use Only: O. 4 GMD 3 Meets Ode GT	K.A.R. 5-5-1 (YES NO) U Fee \$ TI	se MUN Sour <mark>ce G</mark> /S R#Receij	County_ ot Date <u>3</u>	FI By ALB ate 3/28/2 27/23 Check # _/ 39399

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	Owne	er of La	nd —	NAM	E: <u>No</u>	Char	nge												
			AD	DRES	S:														
				NE	1/4			NV	V1/4			sv	V1/4			SI	Ξ¼		TOTAL
Sec.	Twp.	Range	NE¼	NW¼	SW1/4	SE¼	NE¼	NW¼	SW1/4	SE¼	NE¼	NW1/4	SW¼	SE¼	NE1/4	NW1/4	SW¼	SE1/4	ACRES
ist any	other	water r	ights t	hat co	ver th	is plac	ce of u	se											
	Owne	er of La	nd —	NAM	E:														
				NE	=1/4			NV	V¼			SV	V¼			S	E¼		TOTAL
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•	(If the		more	than t	wo lan	down	ers, at	tach a											
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•	(If the	ere are	more at the	than to place - NAM DRES	wo lan of use IE:	downer	ers, at	tach a	dditior	nal she	ets a	s nece	essary	.)			E¼		TOTAL
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Sec.	(If the proper of the proper o	ere are essed that er of La Range	more at the at the AD NE%	place NAM DRES NI NW%	wo lan of use IE: SS: Sw½	be ch	NE%	NW%	w/4 SW/4	SE%	NE%	s nece	vv4 sw4	SE%		s	T	SE¼	
Sec.	(If the proper of the proper o	ere are osed that er of La Range	more at the and — AD NE%	place NAM DRES NI NW½	wo land of use IE:SS:SW%	be ch	NE%	tach a d to:	N/4 SW/4	SE¼	NE%	s nece	vv4 sw4	SE%		s	T	SE½	
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Sec.	Owner Owner Owner	ere are essed that er of La Range	more at the at the AD NE%	name than to place NAM DRES	wo land of use IE:	be ch	NE%	tach a d to:	N/4 SW/4	SE%	NE%	s nece	vv4 sw4	SE%	NE½	S NW1/4	SW¼		ACRES
Sec.	Owner Owner Owner	ere are essed that er of La Range water i	more at the and — AD NE% AD AD	name than to place NAM DRES	wo land of use IE:	be ch	NE%	tach a d to:	N/4 SW/4	SE%	NE%	s nece	vv4 sw4	SE%	NE½	S NW1/4	SW¼		ACRES
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Sec.	Owner Owner Owner	ere are essed that er of La Range water i	more at the at the AD NE%	name than to place NAM DRES	wo land of use IE:	be ch	NE%	tach a d to:	N/4 SW/4	SE%	NE%	s nece	vv4 sw4	SE%	NE½	S NW1/4	SW¼		ACRES

				Fil	e No. <u>FI 01</u>	
The presently a	uthorized point(s	s) of diversion (is) (are)]	7 wells and disc	harge (Provide description and numbe	and a signal	
The proposed o	oint(a) of divorai	on (ia) (ara) 7 walls and	diochargo	(Provide description and number	er of points)	
The proposed p	omi(s) or diversi	on (is) (are) 7 wells and	discharge	(Provide description and number	er of points)	,
List all present	ly authorized p	oint(s) of diversion:				
	orized point of					
				Quarter of the	SW	Quarter
				South, Range		
				3330 feet West of S		
		Authorized Quantity				
I				feet North	feet We	est)
		nged 🔲 This point wi				
Proposed poin	t of diversion: (Complete only if chan	ae is requeste	d)		
				Quarter of the		Quarte
				South, Range		
				feet West of S		
		Proposed Quantity				
				 its that will use this point _		
Presently auth	orized point of	diversion:				
One in the		Quarter of the		Quarter of the	SE	Quarte
of Section	17	, Township	24	South, Range	32	W
in Finney	Coı	unty, Kansas, _ 1710	feet North _	2175 feet West of S	outheast corne	er of section.
Authorized Rate	1736gpm	Authorized Quantity	480mgy blanke	et authority		
(DWR use only	: Computer ID	No. <u>24</u> G	PS	feet North	feet We	est)
☐ This point w	vill not be chang	ged X□ This point v	vill be change	d as follows:		
Proposed poin	t of diversion:	(Complete only if chan	ige is requeste	ed)		
				Quarter of the	SE	Quarte
				South, Range		
				1779 feet West of S		
		Proposed Quantity				
This point is:	Additional Well	I ☐ Geo Center List	other water righ	nts that will use this point	519, 1230, 466	5
	orized point of					
				Quarter of the		
	18	, Township	24	South Pance	32	
in Einness						er of section
	Cou	unty, Kansas, <u>170</u>	feet North _	2035 feet West of S) OI 3000011.
Authorized Rate	Cou e <u>1736gpm</u>	unty, Kansas, <u>170</u> Authorized Quantity	feet North _ 48mgy blanket	2035 feet West of Stauthority	outheast corne	
Authorized Rate (DWR use only	Coupe 1736gpm 7: Computer ID	unty, Kansas, <u>170</u> Authorized Quantity No. <u>19</u> G	feet North _ 48mgy blanke PS	2035 feet West of Stauthority feet North	outheast corne	
Authorized Rate (DWR use only	Coupe 1736gpm 7: Computer ID	unty, Kansas, <u>170</u> Authorized Quantity	feet North _ 48mgy blanke PS	2035 feet West of Stauthority feet North	outheast corne	
Authorized Rate (DWR use only X This point	Con 2 1736gpm 7: Computer ID will not be cha	unty, Kansas, <u>170</u> Authorized Quantity No. <u>19</u> G	feet North _ 48mgy blanke PS ill be changed	2035 feet West of S t authority feet North as follows:	outheast corne	
Authorized Rate (DWR use only X This point Proposed point One in the	Control Control Control Computer ID will not be chaut of diversion:	unty, Kansas, 170 Authorized Quantity No. 19 Ginged This point wi (Complete only if change) Quarter of the	feet North _ v 48mgy blanke PS ill be changed nge is requeste	2035 feet West of S t authority feet North as follows: Quarter of the	outheast corne	est) Quarte
Authorized Rate (DWR use only X This point Proposed point One in the of Section	2 1736gpm 2: Computer ID will not be chaut of diversion:	unty, Kansas,170 Authorized Quantity No. 19 G nged	feet North 48mgy blanke PS III be changed nge is requeste	2035 feet West of S t authority feet North as follows: d) Quarter of the South, Range	outheast corne	est) Quarte
Authorized Rate (DWR use only X This point Proposed point One in the of Section	2 1736gpm 2: Computer ID will not be chaut of diversion:	unty, Kansas,170 Authorized Quantity No. 19 G nged	feet North 48mgy blanke PS III be changed nge is requeste	2035 feet West of S t authority feet North as follows: Quarter of the	outheast corne	est) Quarte
Authorized Rate (DWR use only X This point Proposed point One in the of Section in Proposed Rate	Computer ID will not be cha	unty, Kansas,170 Authorized Quantity No. 19 G nged	feet North / 48mgy blanke PS ill be changed nge is requeste feet North	2035 feet West of S t authority feet North as follows: ed) Quarter of the South, Range 2 feet West of S	feet W	Quarte Quarte Wer of section.
Authorized Rate (DWR use only X This point Proposed point One in the of Section in Proposed Rate	Computer ID will not be cha	unty, Kansas,170 Authorized Quantity No. 19 G nged	feet North / 48mgy blanke PS ill be changed nge is requeste feet North	2035 feet West of S t authority feet North as follows: ed) Quarter of the South, Range 2 feet West of S	feet W	Quarte Wer of section.
Authorized Rate (DWR use only X This point Proposed poin One in the of Section in Proposed Rate This point is:	Country Country Computer ID will not be changed at of diversion: Country Coun	unty, Kansas,170 Authorized Quantity No. 19 G nged	feet North / 48mgy blanke PS ill be changed nge is requeste feet North other water righ	2035 feet West of S t authority feet North as follows: ed) Quarter of the South, Range 2 feet West of S nts that will use this point	feet W	Quarte Quarte Wer of section.
Authorized Rate (DWR use only X This point Proposed poin One in the of Section in Proposed Rate This point is:	Control Control Control Computer ID will not be chant of diversion: Control C	unty, Kansas,170 Authorized Quantity No. 19	feet North / 48mgy blanke PS ill be changed nge is requeste feet North other water right ny point(s) of div	2035 feet West of S t authority feet North as follows: ed) Quarter of the South, Range 2 feet West of S	feet W	Quarte Wer of section.

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF USE AND/OR POINT OF DIVERSION SUPPLEMENTAL SHEET

FILE NO. FI 01

RECEIVED

WATER RESOURCES

Presently authoriz	ed point of diversion:			KS DEPT OF AGRICULTURE
One in the	Quarter of the		Quarter of the	Quarter
of Section	18, Township	24	South, Range	W,
in Finney	County, Kansas,1950	_ feet North	1960 feet West o	f Southeast corner of section.
Authorized Rate	1736gpm Authorized Quantity 4	480mgy blanket	Depth of well	(feet)
	omputer ID No. 20 GPS			
⊠This point will not	be changed This point will be change	ed as follows:	No change, point better	r described with GPS as follows:
Proposed point of	diversion: (Complete only if change	e is requested	or if existing point	is better described by GPS)
One in the	Quarter of the		Quarter of the	Quarter
of Section	, Township		South, Range	(E/W),
in	County, Kansas,	_ feet North	feet West o	f Southeast corner of section.
Proposed Rate	Proposed Quantity		_ Proposed well dept	th (feet)
This point is: Ad	Iditional Well Geo Center List of	ther water rights	that will use this poin	nt
	ed point of diversion:			
One in the	Quarter of the		Quarter of the	Quarter
	, Township			
	County, Kansas,2950			
Authorized Rate	1736gpm Authorized Quantity 4	480mgy blanket	Depth of well	(feet)
	computer ID No. 22 GPS			
	be changed This point will be change			
	diversion: (Complete only if change			
	Quarter of the			
of Section	, Township		South, Range	(E/W),
	County, Kansas,			
	Proposed Quantity			
This point is: Ac	Iditional Well Geo Center List of	ther water rights	that will use this poi	nt
Decomply and having	and a class of discovering			
	ed point of diversion:		0	0
one in the	Quarter of the	24	Quarter of the	Quarter
	, Township			
	County, Kansas, 4980			
	1736gpm Authorized Quantity 4 computer ID No. 65 GPS			
1				
	be changed This point will be change			
	diversion: (Complete only if change			
of Section	Quarter of the		Quarter or the	Quarter
in Section	, Township County, Kansas,	foot North	South, Range	f Courthouse coston
Dranged Bata	County, Kansas,	_ leet North	reet west o	b (fact)
This point is:	Proposed Quantity Iditional Well Geo Center List of	than water rights	Proposed well depl	
This point is: A	iditional Well	ther water rights	s that will use this poil	nt
Presently authoriz	ed point of diversion:			
			Quarter of the	Quarter
of Section	Quarter of the 13, Township	24	South, Range	32 W.
in Finney	County, Kansas, 2382	feet North	1047 feet West o	of Southeast corner of section.
	1736gpm Authorized Quantity			
	computer ID No. 67 GP:			
☑This point will not	be changed This point will be change	ed as follows:	No change, point bette	r described with GPS as follows:
	diversion: (Complete only if change			
	Quarter of the			
of Section	, Township		South Range	(E/W)
in	County, Kansas,	feet North	feet West o	of Southeast corner of section
	Proposed Quantity			
	dditional Well Geo Center List of			
This polities. LI AC	Iditional Mail Geo Celifel Fist 0	arei water ngilt	and will use this por	· · · · · · · · · · · · · · · · · · ·

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

12.	The	pre	ently authorized use of water is for MUN pur	poses.
	It is p	prop	osed that the use be changed to MUN	purposes.
13.	If ch	ang	ng the place of use and/or use made of water, describe how the consumptive u	se will not be increased.
	No c	har	ge needed for current consumptive use.	
	(Plea	se s	ow any calculations here.)	
14.	It is	requ	ested that the maximum annual quantity of water be reduced to	(acre-feet or million gallons).
15.	It is	requ	ested that the maximum rate of diversion of water be reduced to	gallons per minute (c.f.s.).
16.	1:24 Kans Dista	,000 sas ance ald a	ication must include either a topographic map or detailed plat. A U.S. Geological survey, 1930 Constant Avenuation of the Kansas Geological Survey, 1930 Constant Avenuation 66047-3726 (www.usgs.gov). The map should show the location of the presess North and West of the Southeast corner of the section must be shown. The section lines and the section be shown. Identify the center of the section, the section lines and the section in the following information of the map. In addition the following information.	ue, University of Kansas, Lawrence, ently authorized point(s) of diversion. he presently authorized place of use on corners and show the appropriate
	a.	lf a	change in the location of the point(s) of diversion is proposed, show:	
		1)	The location of the proposed point(s) of diversion. Distances North and West on must be shown. Please be certain that the information shown on the map are a paragraph Nos. 9, 10 and 11 of the application.	
		2)	If the source of supply is groundwater, please show the location of existing domestic wells, within $\frac{1}{2}$ mile of the proposed well or wells. Identify each we mailing address of the property owner or owners. If there are no wells within $\frac{1}{2}$	II as to its use and furnish name and
		3)	If the source of supply is surface water, the names and mailing addresses of and $\frac{1}{2}$ mile upstream from your property lines must be shown.	all landowner(s) ½ mile downstream
			change in the place of use is desired, show the proposed place of use by crain that the information shown on the map agrees with the information shown in	
17.	loca	l so log	ocumentation to show the change(s) proposed herein will not impair existing arce of supply as to which the water right relates. This information may include, test hole logs, and other information as necessary information to show the allow.	le statements, plats, geology reports,
	<u>See</u>	atta	ched plat and supporting documentation	
	_			
18.	iden requ	tify est	posed change(s) does not meet all applicable rules and regulations of the Kar he rules and regulations for which you request a waiver. State the reason with should be granted. Attach documentation showing that granting the request with rejudicially and unreasonably affect the public interest.	vhy a waiver is needed and why the
	Wai	ver	eeded for minimum spacing, KAR 5-23-3, not met at proposed location.	WATER RECOURCES
				WATER RESOURCES RECEIVED
				MAR 2 7 2823

File No. FI 01

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

File No.	FI 01	

Any use of water that is not as authorized by the water right or permit to authorize water <u>before</u> the chief engineer approves this application is a violation of the Kansas Water Appropriation Act for which criminal or civil penalties may be assessed. Such violation is a class C misdemeanor, punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. K.S.A. 82a-728(b). Civil penalties shall be not less than \$100 nor more than \$1,000 per violation. In the case of a continuing violation, each day such violation continues may be deemed a separate violation. In addition to these penalties the water right may be modified or suspended. K.S.A. 82a-737, as amended.

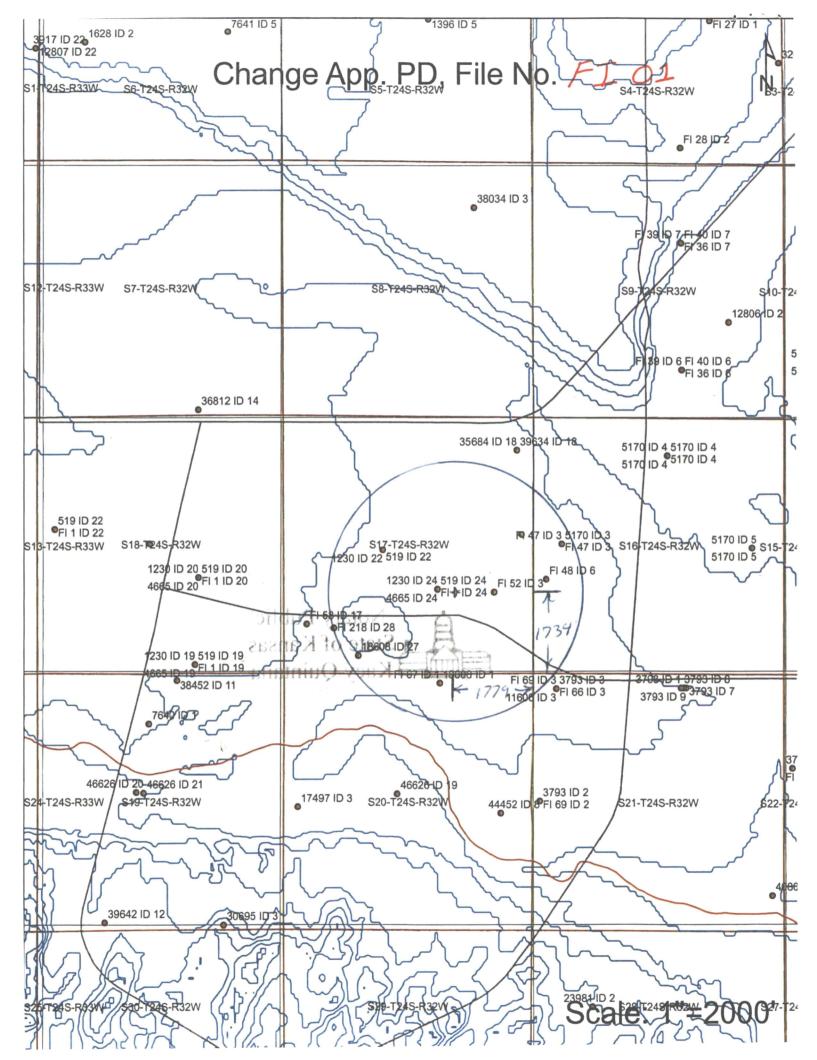
The application must be signed by all owners of the place of use authorized under the water right and his or her spouse, if married. Please indicate if there is no spouse. If land is being purchased under contract, the seller must sign as landowner until such time as the contract is completed.

In the event that all applicants cannot appear before one notary public, they may as necessary sign separate copies of the application before any notary public conveniently available to them. All copies signed in this manner shall be considered to be valid parts of the application.

If the request is signed on behalf of any Owner by someone with legal authority to do so (for example, an agent, one who has power of attorney, or an executor, executrix, conservator), it will be necessary to attach proper documents showing such authority.

I declare that I am an owner of the currently authorized place of use authorized to make this application on their behalf, and declare fur complete. By filing this application I authorize the chief engineer to as specified in sections 14 and 15 of this application.	ther that the statements contained herein are true, correct, and permanently reduce the quantity of water and/or rate of diversion
Dated at Garden City, Kansas, thi City of Garden City, Kansas 69 (Owner)	s $\frac{20^{11}}{\text{day of}}$ day of $\frac{\text{March}}{\text{March}}$, $\frac{20}{3}$.
()	()
Fred T. Jones, Water Resource Mgr (Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	Notary Public (Please Print) State of Kansas
State of Kansas County of Finney	Kacy Quintana My Commission Expires 10-29-24
I hereby certify that the foregoing application was signed in my Murch , 20 23	presence and sworn to before me this 20^{12} day of
My Commission Expires 10-29-24	Notary Public
FEE SCHE	DULE
Each application to change the place of use, the point of diversion or the u application fee set forth in the schedule below:	se made of the water under this section shall be accompanied by the
 (1) Application to change a point of diversion 300 feet or less (2) Application to change a point of diversion more than 300 feet (3) Application to change the place of use (4) Application to change the use made of the water	\$100 \$200 \$200 \$300
Make check payable to Kansas Department of Agriculture.	WATER RESOURCES RECEIVED

KS DEPT OF AGRICULTURE



Neighboring wells within half mile of City of Garden City proposed change to FI 01, 519, 1230 & 4665. All under ID 24. Proposed location is located 1734'N 1779'W in 17-24-32, Finney County.

FI 67 & 18608 D1: Robin L & Debra A Huber, PO Box 1359, Garden City, KS 67846

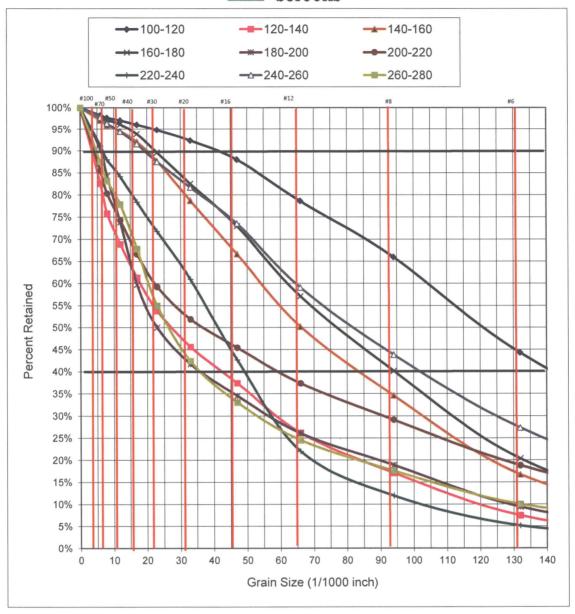
18608 D2: Deverne R Cartmill ET AL, 1112 Kingsury, Garden City, KS 67846

FI 218: Ehresman Packing Co, 912 E Fulton St, Garden City, KS 67846

Some of the wells, such as FI 52 are listed as "Verified Report DWR" and I am not certain how they handle those.

Some might have some old domestic wells in the area, but that is very hard to determine. With this being a City project, a notice in the paper could also serve as notice.





Job Name Chestnut Deep Location Garden City, KS Driller Downey Drilling

 Casing φ 16 in
 Desired Yield 600 - 800 GPM

 Screen φ 16 in
 SWL (ft) 190

Recommended Slot Size: 60 slot (0.060") screen from 194'-207' & 229'-260' bgs. Recommended Gravel Pack: P.W. Gillibrand 8 x 16 Rescreen

Based exclusively on the samples provided by the contractor, a sieve analysis graph and suggested screen slot size is provided as requested. Since numerous construction considerations and site circumstances influence successful well completion, Johnson Screens assumes no responsibility for final well performance nor awareness of local regulations pertaining to well installations.

Sample ID 010923-4

Analyzed by: Duvall, Steven

Date: 1/10/2023

Prepared by: Duvall, Steven

Send Samples to 1950 Old Highway 8, New Brighton, MN-58142URCES

C10973-4

SIEVE ANALYSIS INFORMATION

PLEASE FILL OUT THE FOLLOWING INFORMATION AND MAIL ALONG WITH YOUR SAMPLES TO:

Bilfinger Water Technologies / Johnson Screens 1950 Old Highway 8 NW New Brighton, MN 55112 Phone - 651-638-3160

DRILLER:	DOWNEY DRILLING, INC
ENGINEER:	Carl Nurman (Geoligist)
JOB NAME:	Garden City Shrestant Deep
LOCATION:	NWSE 17-245-32W
TEST HOLES, DIAMETER:	6/4
TEST HOLES, DEPTH:	295
DRILLING METHOD:	Much Roberty
DRILLING FLUID:	auik Gel
DESIRED YIELD:	600 to 800
STATIC WATER LEVEL:	931
WELL CASING DIAMETER:	
WELL SCREEN DIAMETER:	/6"
WELL SCREEN LENGTH:	194-207 229-260
WELL APPLICATION:	Municipal
DESIGN TYPE:	Naturally Developed or Gravel Pack XXX
SAMPLES SENT BY:	DOWNEY DRILLING, INC
PURCHASE ORDER NO:	22-1437
COPIES TO BE SENT TO:	DOWNEY DRILLING, INC
	PO BOX 278
	LEXINGTON, NE 68850
PHONE:	308-324-2303
FAX:	308-324-4825
EMAIL ADDRESS:	T DOWNEY@DOWNEYDRILLING.COM , BDOWNEY@DOWNEYDRILLING.COM
COMMENTS:	amessenger adowney drilling com

WATER RESOURCES RECEIVED

> MAR 2 7 2023 SIEVE SNALYSIS FORM12/30/2022



CUSTOMER NAME:	CITY (OF GARDEN	CITY KS
----------------	--------	-----------	---------

LEGAL: NWSE 17-245-32W

COUNTY: FINNEY

GPS: 37.57'55'N

100.51'12"W

			DRILLER: RYAN	1	T	WO:	22-1437 OTHER / DRILLING
FROM	то	ТҮРЕ	HARDNESS	COLOR	SPEED	DOWN	ACTION
0	5	TOP SOIL	SOFT	DARK	FAST	NO	SMOOTH
5	11	SANDY CLAY	SOFT	LIBR	FAST	NO	SMOOTH
11	46	FINE-MED-COARSE GRAVEL	SOFT	RED/BR	FAST	NO	CHATTER
46	73	SANDY CLAY	SOFT	LTBR	SLOW	NO	SMOOTH
73	108	FINE-MED GRAVEL / THIN SANDY CLAY LAYERS	SOFT	RED/BR	FAST	NO	CHATTER
108	136	SANDY CLAY / FINE-MED SAND	FIRM	LT BR	SLOW	NO	SMOOTH
136	148	FINE-MED GRAVEL / THIN CLAY STRIPS	SOFT	RED/BR	FAST	NO	CHATTER
148	190	FINE-MED GRAVEL	SOFT	RED/BR	FAST	NO	CHATTER
190	194	SANDY CLAY	SOFT	LIBR	FAST	NO	SMOOTH
194	207	MED-COARSE SAND / T FINE-GRAVEL / THIN CLAY LAYERS	SOFT	BR/RED	FAST	NO	CHATTER
207	229	SANDY CLAY	SOFT	LT BR	FAST	NO	SMOOTH
229	250	COARSE SAND / FINE GRAVEL	SOFT	BR/RED	FAST	NO	CHATTER
250	254	SANDY CLAY	SOFT	LT BR	FAST	NO	SMOOTH
254	260	COARSE SAND	SOFT	RED/BR	FAST	NO	CHATTER
260	270	FINE-MED-COARSE SAND	SOFT	BR	FAST	NO	SLIGHT CHATTER
270	276	SANDY CLAY	SOFT	LT BR	SLOW	NO	SMOOTH
276	282	LIMESTONE / CLAY	HARD	WHITE	SLOW	YES	СНОРРУ
282	295	SHALE	HARD	BLACK		YES	SMOOTH
		3 CUPS SODA ASH					
		10 BAGS QUIK GEL					
		1 GALLON EZ MUD					
		#6 QUIK TROL LV					
		3000 GAL WATER					
					i		
					1		
				1		1	
				-	1	+	+





OTHER SERVICES:

GARDEN CITY CHESTNUT SITE

COMPANY

: DOWNEY DRILLING INC

WELL

: GARDEN CITY CHESTNUT SIT TH#1 DEL

LOCATION/FIELD

COUNTY

: FINNEY

LOCATION

: NWSE

SECTION

: 17

TOWNSHIP

: 245

RANGE: 32W

DATE

: 12/02/22

PERMANENT DATUM : GL

KB

LOG BOTTOM

DEPTH DRILLER

: 295 : 293.10

LOG MEASURED FROM: GL

DF

LOG TOP

BIT SIZE

: 0.30

DRL MEASURED FROM: GL

GL

CASING DIAMETER: 10.

LOGGING UNIT

: 1903

CASING TYPE CASING THICKNESS: FIELD OFFICE

: DDI

RECORDED BY

: BRENT

: 6.25

BOREHOLE FLUID

: MUD

FILE : ORIGINAL

MAGNETIC DECL. : 0

: 49

TYPE : 8144A

RM TEMPERATURE

MATRIX DENSITY : 2.71

LGDATE: 12/02/22

NEUTRON MATRIX: LIMESTON

MATRIX DELTA T

RM

LGTIME: 10:39: THRESH: 99999

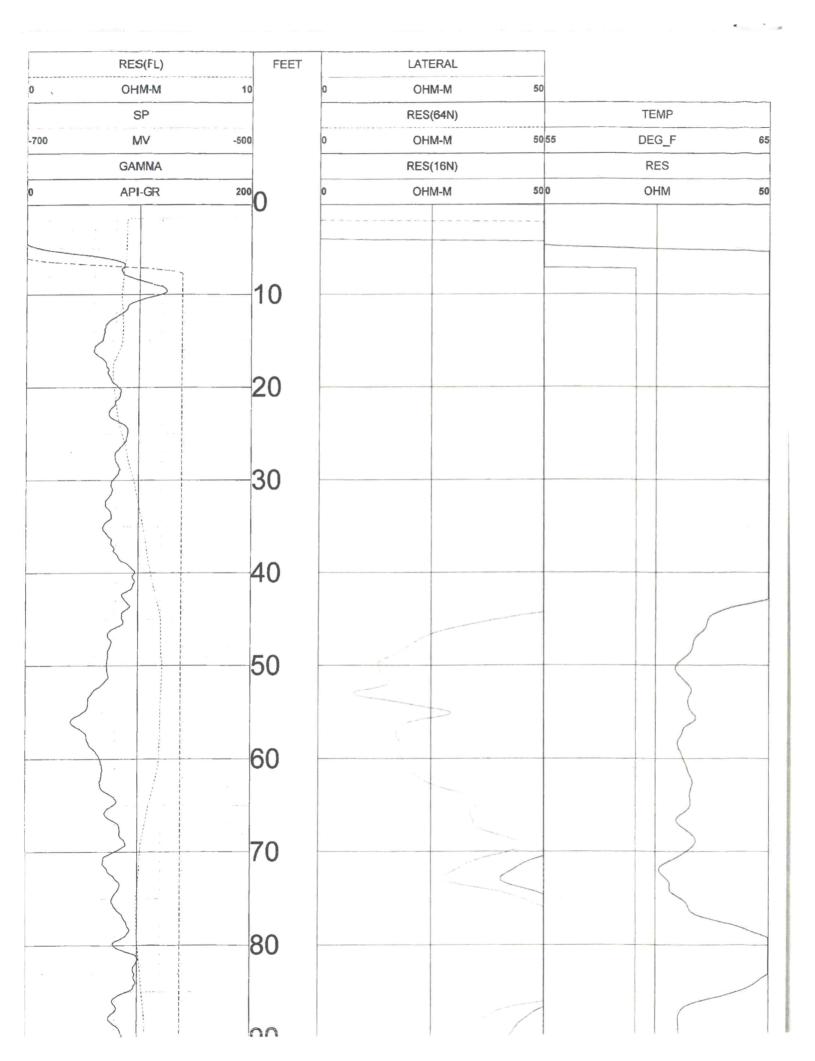
N 37.57'55" W -100 51'12"

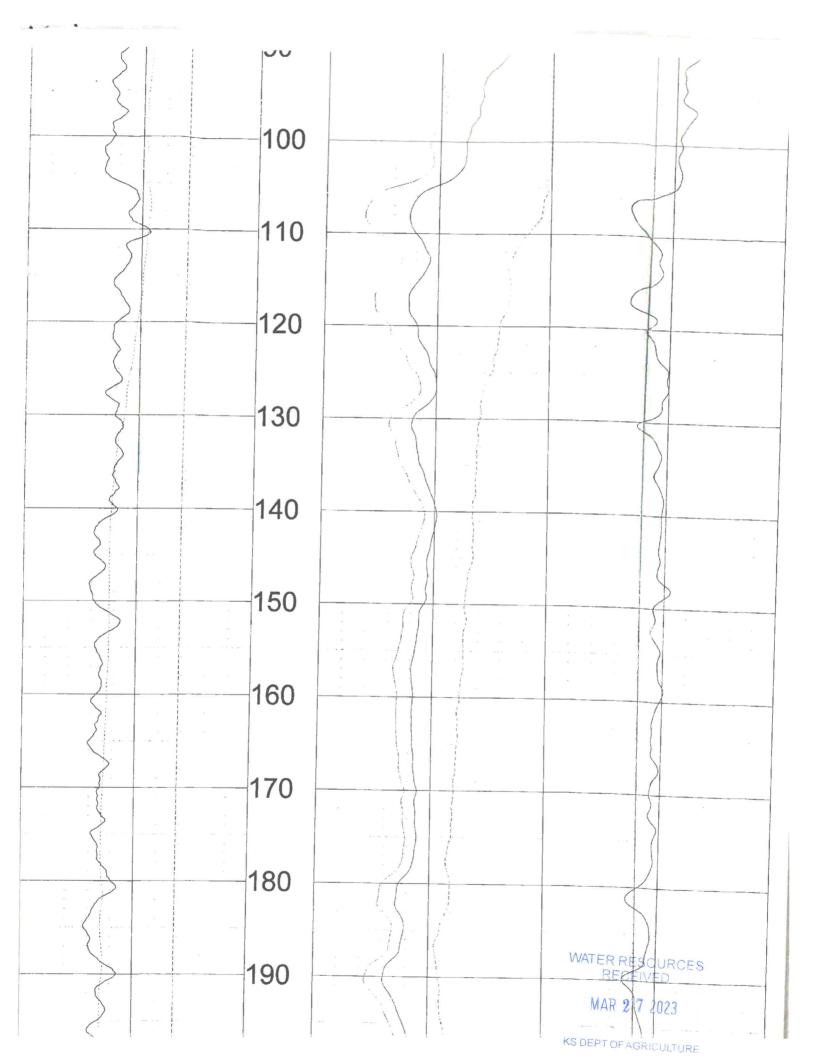
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

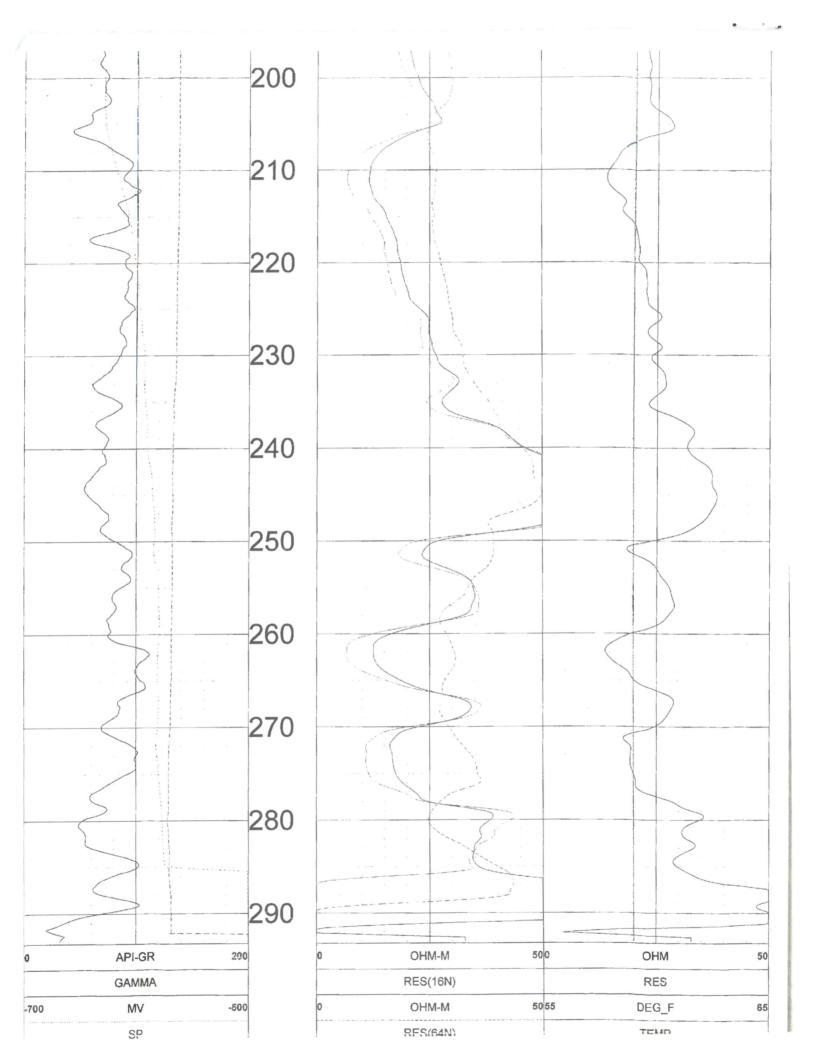
WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE







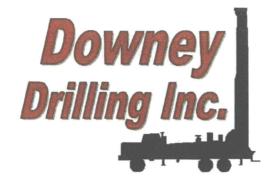
0 OHM-M 10		0	OHM-M	50
RES(FL)	FEET		LATERAL	

WATER RESOURCES RECEIVED

TOQL CALIBRATION GARDEN CITY CHESTNUT SITE 12/02/22 10:39 TOOL 8144A TM VERSION 1 SERIAL NUMBER 365

1	OC. 17 12 1101111	2211					
	DATE	TIME	SENSOR	STAN	IDARD	RES	PONSE
1	Feb08,18 Feb08,18	07:51:35 07:51:35	GAMMA GAMMA	1.000 340.000	[API-GR] [API-GR]	4.000 290.000	[CPS]
2	Jul12,17 Jul12,17	13:24:17 13:24:17	RES(FL) RES(FL)	1.330 42.700	[OHM-M]	7595.000 64820.000	[CPS]
3	Jan14,22	08:32:51	SP	0.000	[MV]	327768.000	[CPS]
4	Jan14,22 Jan14,22	08:32:51 08:33:01	SP RES(16N)	381.500 0.000	[MV] [OHM-M]	164650.000 3453.000	[CPS] [CPS]
5	Jan14,22 Jan14,22	08:33:01 08:33:10	RES(16N) RES(64N)	1951.500 0.000	[OHM-M] [OHM-M]	448089.000 3163.000	[CPS] [CPS]
	Jan 14,22	08:33:10	RES(64N)	1994.000	[ОНМ-М]	449170.000	[CPS]
6	Jul12,17 Jul12,17	13:17:49 13:17:49	TEMP TEMP	33.400 102.200	[DEG_F] [DEG_F]	66910.000 270930.000	[CPS] [CPS]
7	Jan14,22 Jan14,22	08:33:36 08:33:36	RES RES	0.000 944.000	[OHM]	21285.000 190148.000	[CPS]
					■ 30 × 30 × 30 × 30		

CORPORATE
75471 ROAD 435
LEXINGTON, NE 68850
308-324-2303



3210 ANTELOPE AVE. STE D **KEARNEY, NE 68847** 308-237-9283

525 INDUSTRIAL DR **GARDEN CITY, KS 67846** 620-277-7971

CITY OF GARDEN CITY NWSE 17-24S-32W FINNEY CO CHESTNUT SITE DEEP MONITORING WELL

WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE

WATER	WELL	RECORD	(WWC-5)
-------	------	---------------	---------

Constructed

	KOLAR DOC	ID.	1678972	W	ELL ID
∢	Original Record		Correction		Change in Well Us

LOCA	TION	OF	1A/ A 7	ED	WEI	ı

Latitude	37.965278	Longitude	-100.853333	Section	17	Township	24	Range	32	□E ✓ W Fraction	SE	1/4	NW	1/4	SE	1/4
Datum		Elevation	2831	County	Finne			-								

WATER WELL OWNER

Name	
Business	CITY OF GARDEN CITY
	PO BOX 998
Address	GARDEN CI' KS 67846
Well location	238 FT SOUTH FROM E LAUREL ST, 300 FT EAST
at owner's address	

CONSTRUCTION	
Borehole interval:	Borehole diameter:
from0 to250 ft.	_6.25 in.
fromtoft.	in.
Casing height above land sur	rface: 31 in.
If casing height is less the has a variance been appr	
*variance not required for or environmental remed	liation wells
Casing type: Therm	nalPlastic
Blank casing interval:	
Blank casing diameter: 2	.38 in.
Casing joints:	Threaded
Weight:72_lbs	/ft.
Wall thickness or gauge 1	no.: SCH 40
Blank casing interval:	ft. toft.
Blank casing diameter:	in.
Casing joints:	
Weight:lbs	/ft.
Wall thickness or gauge i	no.:
Grout interval:0 ft. to	230 ft.
Grout material: Ben	tonite
Grout interval: ft. to	ft.
Grout material:	
	PUG

Screen /	perforation material: _	PVC
Screen /	perforation openings:	Continuous slot

Screen / perfor	ation in	iterval	s:	
From 240	ft. to	250	<u>f</u> t.	
Slot size	.01	unit	inches	
From	ft. to		_ft.	
Slot size		unit		
Gravel pack in	tervals:			
Gravel pack	not us	ed: 🗆	Gravel size	#40 in
From 23	0 ft. to	25	50 ft.	
Gravel pack	c not us	ed: 🗆	Gravel size	ir
From	ft. to)	ft.	

WELL WATER USE

VELL WATER USE	NEAREST SOURCE OF POTENTIAL CONTAMINATION
Other PIEZOMETER	Source:
OMPLETION	Distance Direction from well:
Depth of completed well:ft. Depth(s) groundwater encountered: (1)ft.; (2)ft.; (3)ft.; (4) □ dry well	Source description: Source: Distance Direction
Static water level in well: 93 ft.	from well: from well: Source description:
measured above land surface on (mm/dd/yy):	✓ No potential source of contamination within 100 feet.
Estimated yield:gpm	PERMIT & ID NUMBERS (AS REQUIRED)
Water level was:gpm pumpinggpm Pump installed? □ Yes ✔ No	DWR Application No.: KDHE / EPA Project Code: Site Name: CHESTNUT DEEP
Water well disinfected? Yes No Date disinfected (mm/dd/yy): Aquifer, if known:	KDHE UIC Class V Form Completed: Yes No County Permit: Yes No Permit ID: Lease Name & Well #: # of boreholes: # of dewatering wells:
THOLOGIC LOG	

FROM	то	LITHOLOGY INTERVALS
Attache	Attache	Attached

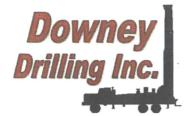
COMMENTS

CONTRACTOR'S OR LANDOWNERS CERTIFICATION

This water well was constructed ✓ reconstructed ☐ pursuant to the stated water well
contractor's license and was completed on $\underline{12/02/2022}$. I certify that this record is true to
the best of my knowledge and belief. This water well record was completed on $\phantom{00000000000000000000000000000000000$
under the business name of Downey Drilling, Inc. #748,
Kansas Water Well Contractor's License No748 under the authority of the designated
person as defined in K.A.R. 28-30-2(j) and signed and certified by the electronic signature of the $\frac{1}{2}$
designated person at its submittal: Thomas Downey

Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka KS 66612-1367(785) 296-3565 | K.S.A. 82a-1212 | v2022c



CUSTOMER NAME: CITY OF GARDEN CITY KS

LEGAL: NWSE 17-24S-32W

COUNTY: FINNEY

GPS: 37.965278 N

100.853333 W

			CHESTNUT - DEEP DRILLER	: RYAN			WO:	22-1440
TW	FROM	то	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	5	TOP SOIL	SOFT	DARK	FAST	NO	SMOOTH
	5	11	SANDY CLAY	SOFT	LI BR	FAST	NO	SMOOTH
	11	46	FINE-MED-COARSE GRAVEL	SOFT	RED/BR	FAST	NO	CHATTER
	46	73	SANDY CLAY	SOFT	LT BR	SLOW	NO	SMOOTH
	73	108	FINE-MED GRAVEL / THIN SANDY CLAY LAYERS	SOFT	RED/BR	FAST	NO	CHATTER
	108	136	SANDY CLAY / FINE-MED SAND	FIRM	LT BR	SLOW	NO	SMOOTH
	136	148	FINE-MED GRAVEL / THIN CLAY STRIPS	SOFT	RED/BR	FAST	NO	CHATTER
	148	190	FINE-MED GRAVEL	SOFT	RED/BR	FAST	NO	CHATTER
	190	194	SANDY CLAY	SOFT	LI BR	FAST	NO	SMOOTH
	194	207	MED-COARSE SAND / T FINE-GRAVEL / THIN CLAY LAYERS	SOFT	BR/RED	FAST	NO	CHATTER
	207	229	SANDY CLAY	SOFT	LT BR	FAST	NO	SMOOTH
	229	250	COARSE SAND / FINE GRAVEL	SOFT	BR/RED	FAST	NO	CHATTER
	250	254	SANDY CLAY	SOFT	LT BR	FAST	NO	SMOOTH
	254	260	COARSE SAND	SOFT	RED/BR	FAST	NO	CHATTER
	260	270	FINE-MED-COARSE SAND	SOFT	BR	FAST	NO	SLIGHT CHATTER
	270	276	SANDY CLAY	SOFT	LT BR	SLOW	NO	SMOOTH
	276	282	LIMESTONE / CLAY	HARD	WHITE	SLOW	YES	СНОРРУ
	282	295	SHALE	HARD	BLACK		YES	SMOOTH
			3 CUPS SODA ASH					
			10 BAGS QUIK GEL					
			1 GALLON EZ MUD					
			#6 QUIK TROL LV					
			3000 GAL WATER					
					<u> </u>	1		
				1		WATER	RESOUR	CES
_				+	1	RE	CEIVED	



DRILLER BRENT

METHOD

STR MUD ROTARY

CASING

TYPE: FLUSH JOINT PVC

DIAMETER: 2"

LENGTH: 243'

SCREEN

TYPE: FLUSH JOINT PVC

DIAMETER: 2" LENGTH: 10'

SLOT SIZE 0.01

FILTER PACK

TYPE: #40 RED FLINT AMOUNT: 1000#

GROUT TYPE:

NA AMOUNT: NA

SEALS: AMT & TYPE:

BOT:

MID: 0-230'

TOP:

TYPE: 3500# HOLE PLUG

SITE#: CHESTNUT

TH#: **DEEP WELL**

WELL DEVELOPMENT

METHOD: AIR LIFT

DURATION: 1 HOUR

COMMENTS:

2X2 CONCRETE PAD

PROJECT CITY OF GARDEN CITY, KS

> COUNTY **FINNEY**

LOGGED BY

ADAM

WELL NUMBER

DEEP - CHESTNUT

LAND LEGAL NWSE 17-24S-32W BOREHOLE DIA.

6.5"

DATE CONSTRUCTED

12/2/2022

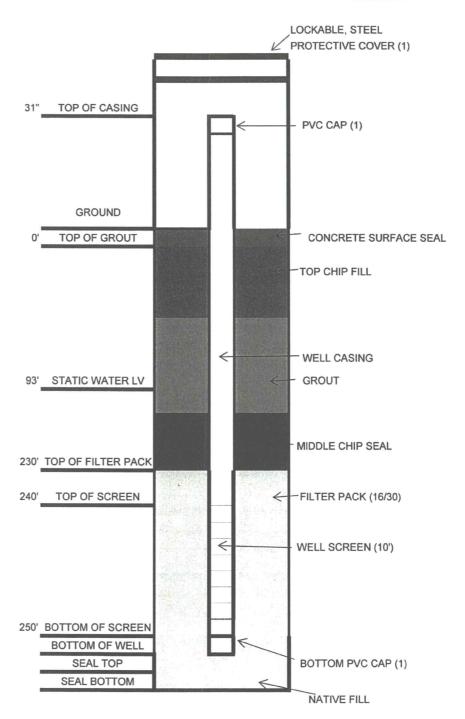
TOTAL DEPTH

250'

GPS LOCATION

37.965278

100.853333







GARDEN CITY CHESTNUT SITE

COMPANY

: DOWNEY DRILLING INC

WELL

: GARDEN CITY CHESTNUT SIT TH #1 DEE

LOCATION/FIELD

COUNTY

: FINNEY

LOCATION

SECTION

: NWSE

: 17

TOWNSHIP

: 24S

RANGE: 32W

KB

DF

GL

65

50

DATE

LOG TOP

: 12/02/22

: 295

LOG BOTTOM : 293.10

: 0.30

LOG MEASURED FROM: GL

PERMANENT DATUM : GL

DRL MEASURED FROM: GL

OTHER SERVICES:

CASING DIAMETER: 10.

CASING TYPE

DEPTH DRILLER

CASING THICKNESS:

LOGGING UNIT

FIELD OFFICE

: 1903 : DDI

RECORDED BY

: BRENT

BIT SIZE : 6.25

MAGNETIC DECL. : 0

MATRIX DENSITY : 2.71

NEUTRON MATRIX: LIMESTON

BOREHOLE FLUID

RM TEMPERATURE

MATRIX DELTA T

: 49

: MUD

FILE : ORIGINAL

TYPE : 8144A

LGDATE: 12/02/22

LGTIME: 10:39:

THRESH: 99999

N 37.57'55"

W -100 51'12"

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

WATER RESOURCES





Ag Testing - Consulting

Account No.: 41160

Water Analysis Report

DOWNEY DRILLING

PO BOX 278 LEXINGTON

NE 68850-0278

Invoice No.:

1392001

Date Received:
Date Reported:

12/19/2022 12/20/2022

Lab Number:

30521

Results For: 22-1432

Location:

Sample ID: CN DEEP

рН				
Total Dissolved	Solids	(TDS)	Est, ppm	

Electrical Conductivity, mmho/cm

0.69 8.1 / 7.5

8.0

411

Sodium, Na

Cations / Anions, me/L

ppm

Calcium, Ca Magnesium, Mg Total Hardness, CaCO₃ Nitrate, NO₃-N

Potassium, K

Sulfate, SO₄-S Chloride, Cl Carbonate, CO₃

Bicarbonate, HCO₃ Total Alkalinity, CaCO₃ Fluoride, F

Total Iron, Fe Manganese, Mn 49 4 76.7 25 297 1.5 (SAFE) 66 24 < 1.0 159

> 131 0.64 < 0.01

< 0.01

"<" - Not Detected / Below Detection Limit

WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE

Reviewed By: Raymond Ward

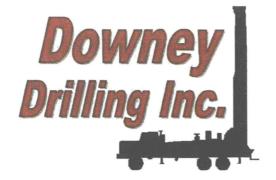
12/23/2022

Copy: 1

Page 3 of 8

Bus: 308-234-2418 Fax: 308-234-1940 web site www.wardlab.com

4007 Cherry Ave., P.O. Box 788 Kearney, Nebraska 68848-0788 CORPORATE
75471 ROAD 435
LEXINGTON, NE 68850
308-324-2303



3210 ANTELOPE AVE. STE D **KEARNEY, NE 68847** 308-237-9283

525 INDUSTRIAL DR GARDEN CITY, KS 67846 620-277-7971

CITY OF GARDEN CITY NWSE 17-24S-32W FINNEY CO CHESTNUT SITE SHALLOW MONITORING WELL

WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE

WATER WELL RECOR

Constructed

KOLAR DOC II	1678995	WELL ID
Original Record	Correction	☐ Change in Well Use

ı	OCA	TION	OF	MALA	TED	MICH	1

Latitude	37.965272	Longitude	-100.853436	Section	17	Township	24	Range	32	□E ✓ W Fraction	SE	1/4	NW	1/4 5	SE	1/4
Datum	NAD83	Elevation	2831	County	Finne	ey								-		

WATER WELL OWNER

Name	
Business	CITY OF GARDEN CITY
	PO BOX 998
Address	GARDEN CI KS 67846
Well location	238 FT SOUTH FROM E LAUREL ST, 280 FT EAST
at owner's address	

CONSTRUCTION	
Borehole interval:	Borehole diameter:
from0 to155 ft.	_6.25 in.
fromto ft.	in.
Casing height above land sur	
If casing height is less that	
has a variance been appr	
*variance not required for or environmental remed	liation wells
Casing type: Thern	nalPlastic
Blank casing interval:	0 ft. to 145 ft.
Blank casing diameter: 2	.38 _{in.}
Casing joints:	Threaded
Weight:72 lbs	/ft.
Wall thickness or gauge r	no.: SCH 40
Blank casing interval:	
Blank casing diameter:	in.
Casing joints:	
Weight:lbs	/ft.
Wall thickness or gauge r	10.:
Grout interval:0 ft. to	140 ft.
Grout material: Ben	
Grout interval: ft. to	ft.
Grout material:	
Screen / perforation material:	PVC
Screen / perforation opening	
Screen / perforation intervals	
From145_ft. to155	
Slot size01 _ unit _i	
From ft. to	
Slot size unit _	
Gravel pack intervals:	440
Gravel pack not used:	
From 140 ft. to 155	_
Gravel pack not used: □	Gravel size in

From _____ ft. to ____ ft.

WEL		

NEAREST SOURCE OF POTENTIAL CONTAMINATION
Source:
Distance Direction from well:
Source description:
Source:
Distance Direction from well: from well:
Source Holl well.
description:
✓ No potential source of contamination within 100 feet.
PERMIT & ID NUMBERS (AS REQUIRED)
DWR Application No.:
KDHE / EPA Project Code:
Site Name: CHESTNUT SHALLOW
KDHE UIC Class V Form Completed: ☐ Yes ☐ No
County Permit: Yes No Permit ID:
Lease Name & Well #:
of boreholes: # of dewatering wells:

FROM	то	LITHOLOGY INTERVALS
Attache	Attache	Attached

COMMENTS

CONTRACTOR'S OF	LANDOWNERS CERTIFICATION	
CONTINACTOR 3 OR	LANDOWNERS CERTIFICATION	

This water well was constructed ✓ reconstructed ☐ pursuant to the stated water well
contractor's license and was completed on12/06/2022 I certify that this record is true to
the best of my knowledge and belief. This water well record was completed on01/09/2023
under the business name of Downey Drilling, Inc. #748,
Kansas Water Well Contractor's License No748 under the authority of the designated
person as defined in K.A.R. 28-30-2(j) and signed and certified by the electronic signature of the
designated person at its submittal: Thomas Downey

Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

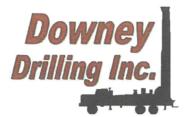
Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka KS 66612-1367 (785) 296-3565 | K.S.A. 82a-1212 | v2022c

Form	WWC5.2 - Water Well Record
Doc ID	1678995
Well Owner	CITY OF GARDEN CITY
Contractor	Downey Drilling, Inc. #748

Lithology

From	To	Lithology Intervals
0	5	topsoil,tan,soft
5	10	clay,red,soft
10	45	sand & gravel,fine to medium,red,soft
45	75	clay,fine to medium,sandy,tan,soft
75	110	sand & gravel,fine to coarse,red,soft
110	140	clay,fine to medium,sandy,tan,soft
140	146	sand & gravel,fine to coarse,red,soft
146	148	clay,tan,soft
148	155	sand & gravel,fine to medium,red,soft

WATER RESOURCES RECEIVED



CUSTOMER NAME: CITY OF GARDEN CITY KS

LEGAL: NW/SE 17-24S-32W

COUNTY: FINNEY CO.

GPS: N 37.965272

W 100.853436

_			CHESTNUT - SHALLOW DRILLER:	RYAN			WO:	22-1438
TW	FROM	то	ТҮРЕ	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
_	0	5	TOP SOIL	SOFT	TAN	FAST	NO	SMOOTH
	5	10	CLAY	SOFT	RED	FAST	NO	SMOOTH
	10	45	FINE-MED-SOARSE SAND FINE-MED-COARSE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	45	75	SANDY CLAY FINE-MED SAND	SOFT	TAN	FAST	NO	SLIGHT
_	75	110	FINE-MED-SOARSE SAND FINE-MED GRAVEL CLAY & MAH STRINGE	SOFT	RED	FAST	NO	CHATTER
	110	140	FINE-MED SAND SANDY CLAY	SOFT	TAN	FAST	NO	SLIGHT
	140	146	FINE-MED-SOARSE SAND FINE GRAVEL	SOFT	RED	FAST	NO	SMOOTH
	146	148	CLAY	SOFT	TAN	FAST	NO	CHATTER
	148	160	FINE-MED-SOARSE SAND FINE GRAVEL	SOFT	RED	FAST	NO	CHATTER
<u></u>								
_								
			QUIK GEL - 9					
			SODA ASH - 4 CUPS					
			QUIK TROL - 6 #'S					
			EZ MUD - 1/2 GAL					
1								



DRILLER **RYAN**

METHOD

STRAIGHT MUD

CASING

FLUSH JOINT PVC

DIAMETER:

TYPE:

LENGTH:

145' + 32"

SCREEN

TYPE:

FLUSH JOINT PVC 2"

DIAMETER:

10'

LENGTH: SLOT SIZE

0.01

FILTER PACK TYPE:

#40 RED FLINT

AMOUNT:

1200 LBS

GROUT

TYPE:

AMOUNT:

SEALS: AMT & TYPE:

вот:

MID: 0-140'

TOP:

TYPE 3/4" HOLE PLUG

SITE#:

SHALLOW

TH#:

CHESTNUT

WELL DEVELOPMENT

METHOD:

AIR LIFT

DURATION:

1 HOUR

COMMENTS:

2X2 CONCRETE PUD 1 WELL PROTECTOR

PROJECT CITY OF GARDEN CITY

COUNTY

FINNEY LOGGED BY

ADAM

WELL NUMBER

SHALLOW / CHESTNUT

LAND LEGAL

NWSE 17-24S-32W

BOREHOLE DIA. 6.25"

12/6/2022 **TOTAL DEPTH**

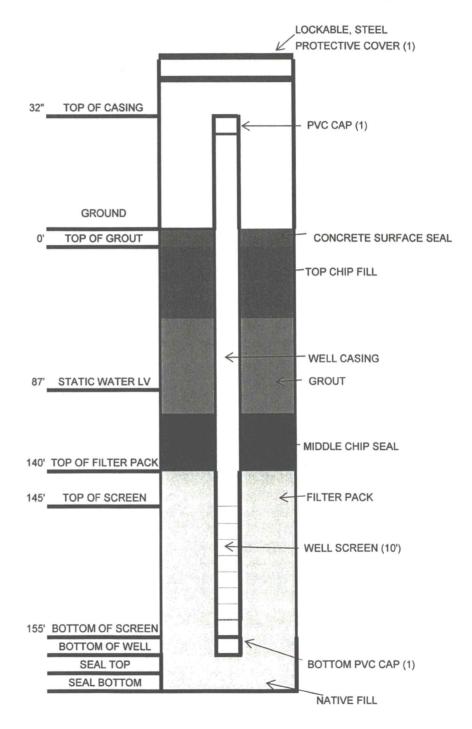
DATE CONSTRUCTED

155'

GPS LOCATION

37.965272

100.853436



WATER RESOURCES RECEIVED





Ag Testing - Consulting

Account No.: 41160

Water Analysis Report

DOWNEY DRILLING

PO BOX 278

LEXINGTON

NE 68850-0278

Invoice No.:

1392001

Date Received:

1392001

Date Reported:

12/20/2022

Lab Number:

30520

Results For: 22-1432

Location:

Sample ID: CN SHALLOW

рН

7.6

Total Dissolved Solids (TDS) Est, ppm

1632

Electrical Conductivity, mmho/cm

2.72

Cations / Anions, me/L

35.6 / 35.7

	ppm
Sodium, Na	352
Potassium, K	9
Calcium, Ca	291.5
Magnesium, Mg	66
Total Hardness, CaCO3	1005
Nitrate, NO ₃ -N	6.3 (SAFE)
Sulfate, SO ₄ -S	443
Chloride, CI	107
Carbonate, CO ₃	< 1.0
Bicarbonate, HCO ₃	271
Total Alkalinity, CaCO ₃	223
Fluoride, F	0.14
Total Iron, Fe	< 0.01
Manganese, Mn	< 0.01

[&]quot;<" - Not Detected / Below Detection Limit

Reviewed By: Raymond Ward

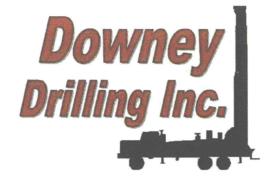
12/23/2022

Copy: 1

Page 2 of 8

Bus: 308-234-2418 Fax: 308-234-1940 web site www.wardlab.com

4007 Cherry Ave., P.O. Box 788 Kearney, Nebraska 68848-0788 CORPORATE 75471 ROAD 435 LEXINGTON, NE 68850 308-324-2303



3210 ANTELOPE AVE. STE D **KEARNEY, NE 68847** 308-237-9283

525 INDUSTRIAL DR GARDEN CITY, KS 67846 620-277-7971

CITY OF GARDEN CITY NWSE 17-24S-32W FINNEY CO CHESTNUT SITE MIDDLE MONITORING WELL

WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE

WATER WEL	L RECORD	(WWC-5)
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Constructed

KOLAR DOC	ID_	1678985	W	ELL ID	
Original Record		Correction		Change in Well U	Ise

LOCATION OF WATER WE	11

Latitude	37.96528	Longitude	-100.853391	Section	17	Township	24	Range	32	□E ✓ W Fraction	SE	1/4	NW	1/4	SE	1/4
Datum	NAD83	Elevation	2832	County	Finne	y										

WATER WELL OWNER

Name	
Business	CITY OF GARDEN CITY
	PO BOX 998
Address	GARDEN CI' KS 67846
Well location	238 FT SOUTH FROM E LAUREL ST, 280 FT EAST
at owner's address	

CONSTRUCTION								
Borehole interval:	Borehole diameter:							
from0 to200 ft.	_6.25 in.							
fromto ft.	in.							
Casing height above land su	rface: 32 in.							
If casing height is less the has a variance been appr								
or environmental remed	*variance not required for monitoring or environmental remediation wells							
Casing type: Therr	nalPlastic							
Blank casing interval:	0 ft. to 190 ft.							
Blank casing diameter: 2	.38 in.							
Casing joints:	Γhreaded							
Weight: .72 lbs	s/ft.							
Wall thickness or gauge	no.: SCH 40							
Blank casing interval:	ft. toft.							
Blank casing diameter:	in.							
Casing joints:								
Weight:lbs	s/ft.							
Wall thickness or gauge	no.:							
Grout interval: 0 ft. to	185 _{ft.}							
Grout material: Ben	tonite							
Grout interval: ft. to								
Grout material:								

Screen / per	rforation n	naterial: _	PVC
Screen / pe	rforation o	penings:	Continuous slot
Screen / per	rforation ir	ntervals:	
From	190 ft. to	200 ft	
Slot s	ize01	unit_in	ches
From	ft. to	ft	
Slots	i70	unit	

PVC

100	1.0		120
Gravel	macle	intamo	Ic.
Glavel	Pack	HILLIA	Ц5.

Gravel	pack not used:		Gravel size	#40 .	in
From _	185 ft. to _	20	0_ft.		
Gravel	pack not used:		Gravel size	-	in
From_	ft. to		_ ft.		

- SECRETARIO SECO	
WELL WATER USE	NEAREST SOURCE OF POTENTIAL CONTAMINATION
Other PIEZOMETER	Source:
COMPLETION	Distance Direction from well:
Depth of completed well:ft. Depth(s) groundwater encountered:	Source description:
(1) ft.; (2) ft.; (3) ft.; (4) \(\price \) dry well	Source: Distance Direction
Static water level in well: 87.9 ft. ✓ measured below land surface on (mm/dd/yy): 12/05/2022	from well: from well: Source description:
measured above land surface on (mm/dd/yy):	✓ No potential source of contamination within 100 feet.
Estimated yield: gpm	PERMIT & ID NUMBERS (AS REQUIRED)
Water level was: ft. afterhours	DWR Application No.:
pumpinggpm	KDHE / EPA Project Code:
Pump installed? ☐ Yes ✔ No	Site Name: CHESTNUT MIDDLE
Water well disinfected? ☐ Yes ☐ No Date disinfected (mm/dd/yy):	KDHE UIC Class V Form Completed: ☐ Yes ☐ No County Permit: ☐ Yes ☐ No Permit ID: Lease Name & Well #:
Aquifer, if known:	# of boreholes: # of dewatering wells:
LITHOLOGIC LOG	

FROM	то	LITHOLOGY INTERVALS
Attache	Attache	Attached

COMMENTS

CONTRACTOR'S OR LA	NDOWNERS	CERTIFICATION
--------------------	----------	---------------

This water well was constructed ✓ reconstructed pursuant to the stated water well	
contractor's license and was completed on $\underline{12/05/2022}$. I certify that this record is true to	
the best of my knowledge and belief. This water well record was completed on01/09/2023	
under the business name of Downey Drilling, Inc. #748,	
Kansas Water Well Contractor's License No748 under the authority of the designated	l
person as defined in K.A.R. 28-30-2(j) and signed and certified by the electronic signature of the	le
designated person at its submittal: Thomas Downey	

Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

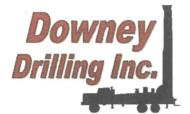
Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka KS 66612-1367 (785) 296-3565 | K.S.A. 82a-1212 | v2022c

Form	WWC5.2 - Water Well Record
Doc ID	1678985
Well Owner	CITY OF GARDEN CITY
Contractor	Downey Drilling, Inc. #748

Lithology

From	To	Lithology Intervals
0	5	topsoil,tan,soft
5	11	clay,brown,soft
11	46	sand & gravel,fine to coarse,gravelly,red,soft
46	74	clay,sandy,tan,soft
74	110	sand & gravel,fine to coarse,tan,soft
110	140	clay,fine to medium,sandy,tan,soft
140	186	sand & gravel,medium to coarse,red,soft
186	192	clay,fine to medium,sandy,tan,soft
192	200	sand & gravel,fine to coarse,red,soft

WATER RESOURCES RECEIVED



CUSTOMER NAME: CITY OF GARDEN CITY KS

LEGAL: NW/SE 17-24S-32W

COUNTY: FINNEY CO.

GPS: N 37.965280

W 100.853391

	CHESTNUT - MIDDLE DRILLER: RYAN WO: 22-1439							
TW	FROM	то	ТҮРЕ	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	5	тс	SOFT	TAN	FAST	NO	SMOOTH
	5	11	CLAY	SOFT	BRW/RED	FAST	NO	SMOOTH
	11	46	FINE-MED-COARSE SAND FINE-MED-COARSE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	46	74	SANDY CLAY	SOFT	TAN	FAST	NO	SMOOTH
	74	110	FINE-MED-COARSE SAND FINE-MED-COARSE GRAVEL CLAY STRINGES	SOFT	TAN/RED	FAST	NO	SLIGHT
	110	140	SANDY CLAY FINE-MED SAND	SOFT	TAN	FAST	NO	SLIGHT
	140	186	FINE-MED-COARSE SAND FINE-MED-COARSE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	186	192	SANDY CLAY FINE-MED-COARSE SAND	SOFT	TAN	FAST	NO	SLIGHT
	192	204	FINE-MED-COARSE SAND FINE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	204	205	MAG	SOFT	WHITE	FAST	NO	CHOPPY
	205	210	SANDY CLAY	SOFT	BROWN	FAST	NO	SMOOTH
			6 CUPS SODA ASH					
			QUIK GEL - 8 BAGS					
			QUIK TROL - NONE					
\neg			EZ MUD5 GALLON					
\neg								
\forall								
\forall								
\forall								
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DRILLER **RYAN**

METHOD STR MUD ROT

PROJECT CITY OF GARDEN CITY

COUNTY **FINNEY** LOGGED BY

ADAM

185' TOP OF FILTER PACK

190' TOP OF SCREEN

WELL NUMBER

MIDDLE - CHESTNUT

LAND LEGAL NWSE 17-24S-32W BOREHOLE DIA.

6.25"

DATE CONSTRUCTED

12/5/2022

TOTAL DEPTH

200'

GPS LOCATION

37.96528 -100.853391

CASING

TYPE:

FLUSH JOINT PVC

DIAMETER:

2"

LENGTH:

190' + 32"

SCREEN

TYPE:

FLUSH JOINT PVC

DIAMETER: LENGTH:

10' 0.01

SLOT SIZE

FILTER PACK

TYPE: AMOUNT: #40 RED FLINT 1000LBS

GROUT

TYPE: AMOUNT:

SEALS: AMT & TYPE:

BOT: MID:

0-185'

TOP: TYPE:

3/4" HOLE PLUG

SITE#:

CHESTNUT

TH#:

MIDDLE

WELL DEVELOPMENT

METHOD: DURATION: AIR LIFT 1 HOUR

COMMENTS:

2X2 CONCRETE PAD 1 WELL PROTECTOR

LOCKABLE, STEEL PROTECTIVE COVER (1) 32" TOP OF CASING - PVC CAP (1) **GROUND** TOP OF GROUT CONCRETE SURFACE SEAL TOP CHIP FILL \leftarrow WELL CASING - GROUT 87.9' STATIC WATER LV

200' BOTTOM OF SCREEN **BOTTOM OF WELL SEAL TOP** BOTTOM PVC CAP (1) **SEAL BOTTOM**

<

WATER RESOURCES RECEIVED

NATIVE FILL

MIDDLE CHIP SEAL

FILTER PACK (16/30)

WELL SCREEN (10')

MAR 2 7 2023

KS DEPT OF AGRICULTURE





Ag Testing - Consulting

Account No.: 41160

Water Analysis Report

DOWNEY DRILLING

PO BOX 278

LEXINGTON NE 68850-0278

Invoice No.:

1392001

Date Received:

12/19/2022

Date Reported:

12/20/2022

Lab Number:

30519

Results For: 22-1432

Location:

Sample ID: CN MIDDLE

На

7.7

Total Dissolved Solids (TDS) Est, ppm

1644

Electrical Conductivity, mmho/cm

2.74

Cations / Anions, me/L

36.9 / 37.5

	ppm
Sodium, Na	263
Potassium, K	9
Calcium, Ca	350.6
Magnesium, Mg	92
Total Hardness, CaCO₃	1261
Nitrate, NO ₃ -N	4.0 (SAFE)
Sulfate, SO ₄ -S	487
Chloride, Cl	111
Carbonate, CO ₃	< 1.0
Bicarbonate, HCO ₃	217
Total Alkalinity, CaCO ₃	179
Fluoride, F	0.14
Total Iron, Fe	< 0.01
Manganese, Mn	0.01

"<" - Not Detected / Below Detection Limit

Reviewed By: Raymond Ward

12/23/2022

Copy: 1

Page 1 of 8

Bus: 308-234-2418 Fax: 308-234-1940

web site www.wardlab.com

4007 Cherry Ave., P.O. Box 788 Kearney, Nebraska 68848-0788 1320 Research Park Drive Manhattan, KS 66502 785-564-6700 www. agriculture.ks.gov



900 SW Jackson, Room 456 Topeka, KS 66612 785-296-3556

Mike Beam, Secretary

Laura Kelly, Governor

April 7, 2023

CITY OF GARDEN CITY , ATTENTTION WATER DEPARTMENT PO BOX 998 301 N 8TH ST GARDEN CITY KS 67846

RE:

File No(s). 1-FI

Dear Sir or Madam:

The Division of Water Resources (Division) has received your application(s) to change the place of use, point of diversion or use made of water for the file number(s) referenced above. Please be aware that the Division may have a large number of pending applications on hand at times and makes every attempt to process them in the order in which they are received. You will be contacted if additional information is required.

Please note, this letter only acknowledges receipt of your application(s) and does not guarantee approval. In accordance with the provisions of the Kansas Water Appropriation(s) Act, the use of water as proposed prior to approval of the application(s) is unlawful.

Additional information about the process may be found on our website at <u>agriculture.ks.gov/divisions-programs/dwr</u>. If you have any other questions, please contact our office at 785-564-6640 or your local Garden City Field Office at 620-276-2901. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Kristen Baum

New Applications and Changes Supervisor

Water Appropriation Program

Kristen a Baum