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	f Engineer to change the	WATER RESOURCES RECEIVED
		☐ Place of Use		
	(Check one or more)	X☐ Point of Diversion		MAR 2 7 2023
		☐ Use Made of Water		/33
				KS DEPT OF AGRICULTURE
		File No.	519	
2.	Name of applicant: City	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: <u>(620)27</u>	6-1291	E-mail address: fred.jon	es@gardencity.ks.us
	What is your relationship	o to the water right; owne	er ☐ tenant X☐ agent	other? If other, please explain.
	Name of water use corre	espondent: <u>SAME</u>		
	Address:			
	City, State and Zip:			
	Phone Number: ()		E-mail address:	
3.	The change(s) proposed	herein are desired for the	following reasons (please	be specific):
	Lose of production due to	to mechanical failure in curr	ent and need to relocate.	Not adequate space on current property
			•	
	The change(s) (was) (wi	ill be) completed by As soor	n as approved	(Date)
_	***************************************			
F.C	or Office Use Only: D. 4 GMD 3 Meets	K.A.R. 5-5-1 (YES / NO) U Fee \$ 200 TI	se <u>MUN</u> Source G S R # <u>Rec</u> eij	County FI By ALBate 3/28/2 of Date 3/27/23 Check # /39 398
			Г	

3/29/2023 LMoody

Assisted by: Gmp3/5LN

															I	File No	5. <u>519</u>		
l. The	prese	ently au	thorize	ed plac	ce of u	ise is:													
	Owne	er of La	nd —	NAM	E: <u>No</u>	Char	ige												
			AD	DRES	s:														
				NE	1/4			NV	V¼			sv	V1/4			SE	1/4		TOTAL
Sec.	Twp.	Range	NE¼	NW¼	SW1/4	SE¼	NE1/4	NW¼	SW¼	\$E¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	ACRES
ist any	other	water	ights t	that co	ver th	is plac	ce of u	se											
	Owne	er of La	nd —	NAM	IE:														
													V¼			SI	Ε¼		TOTAL
Sec.	Twn	Range	NF1/4		5W1/4	SE¼	NE¼		sw ₁ / ₄	SE¼	NE¼		SW1/4	SE1/4	NE¼			SE¼	ACRES
	1 ttp.	range	142/4	1417,4	01174	02/4	712,1	111174		02.1	1.12/2								
								_								-		-	
ist any	othor	water	riabte :	that co	ver th	ie pla	ce of u	150							<u> </u>				
LIST arry													ccan	`					
	(II the	ere are	more	ınan ı	wo lan	down	ers, at	lach a	aailloi	iai siie	ecs a	s riece	ssaiy.	.)					
5. It is	propo	sed th	at the	place	of use	be ch	nange	d to:											
	Own	er of La	nd —	NAN	1E:														
			AD	DRES	SS:														
		,		NI	E¼		T	N	N¼			SV	N¼		SE¼		TOTAL		
Sec.	Twp.	Range	NE1/4		SW1/4	SE1/4	NE1/4	Г	SW1/4	SE¼	NE¼	NW¼		SE¼	NE%			SE¼	ACRES
			-		-		 -	-					_						
																_			
List any	other	water	riahts	that co	over th	is pla	ce of i	ise			1								
	Own	er of La																	
			AD	DRES	SS: _														
				N	E¼			N	N1/4			SI	N1/4				E¼		TOTAL
Sec.	Twp.	Range	NE¼	NW¼	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW1/4	SE¼	ACRES
					-	-	-	1	-	-			-		 	+-	-	-	
List any	other	water	rights	that co	over th	nis pla	ce of u	ıse											
			_			-													

		· ·	File No. <u>519</u>
6.	The presently authorized point(s) of diversion (is) (are) 7 wells a	and discharge	
	. , , , , , , , , , , , , , , , , , , ,	(Provide description and num	ber of points)
7.	The proposed point(s) of diversion (is) (are) 7 wells and dischar	'GE (Provide description and nurr	ther of points)
	List all presently authorized point(s) of diversion:	(1.51.55.55.75.55.55.55.55.55.55.55.55.55.55.	
8.	Presently authorized point of diversion:		
٥.	One in the Quarter of the	Quarter of the	SW Quarter
	of Section17, Township24		
	in Finney County, Kansas, 2515 feet		
	Authorized Rate 1736gpm Authorized Quantity 547.7m		
	(DWR use only: Computer ID No. 22 GPS		feet West)
	X☐ This point will not be changed ☐ This point will be ch		
	Proposed point of diversion: (Complete only if change is re	_	
	One in the Quarter of the		Quarter
	of Section, Township		
	in County, Kansas, feet		
	Proposed Rate Proposed Quantity		
	This point is: Additional Well Geo Center List other w		·
,			
9.	Presently authorized point of diversion:		
	One in the Quarter of the		
	of Section17, Township24		
	in Finney County, Kansas, 1710 feet		Southeast corner of section.
	Authorized Rate 1736gpm Authorized Quantity 547.7m		f
	(DWR use only: Computer ID No. 24 GPS		teet west)
	☐ This point will not be changed X☐ This point will be o	~	
	Proposed point of diversion: (Complete only if change is re		
	One in the SE Quarter of the N		
	of Section 17 , Township 24		
	in Finney County, Kansas, 1734 feet		Southeast corner of section.
	Proposed Rate 1736gpm Proposed Quantity 547.7mm		+ 540 1220 4665
	This point is: Additional Well Geo Center List other w	ater rights that will use this point	1 319, 1230, 4003
10.	Presently authorized point of diversion:		
	One in the Quarter of the	Quarter of the	SE Quarter
	of Section 18 , Township 24	South, Range	32 W,
	in Finney County, Kansas, 170 feet		
	Authorized Rate 1736gpm Authorized Quantity 547.7n	ngy blanket authority	
	(DWR use only: Computer ID No. 19 GPS	feet North	feet West)
	(DWR use only: Computer ID No. 19 GPS GPS X□ This point will not be changed □ This point will be ch		feet West)
		nanged as follows:	feet West)
	X□ This point will not be changed □ This point will be ch	nanged as follows:	
	X This point will not be changed This point will be changed Proposed point of diversion: (Complete only if change is red) One in the Quarter of the Quarter of the Township Township	nanged as follows: equested) Quarter of the South, Range	Quarter W,
	X This point will not be changed This point will be changed This point will be change is represented to the Quarter of the Of Section Township County, Kansas, feet	nanged as follows: equested) Quarter of the South, Range North2 feet West of	Quarter W,
	X This point will not be changed This point will be changed Proposed point of diversion: (Complete only if change is red) One in the Quarter of the Quarter of the Township Township	nanged as follows: equested) Quarter of the South, Range North2 feet West of	Quarter W,
	X This point will not be changed This point will be changed Proposed point of diversion: (Complete only if change is red) One in the Quarter of the One in the County, Township In County, Kansas, Feet Proposed Rate Proposed Quantity This point is: Additional Well Geo Center List other w	nanged as follows: equested) Quarter of the South, Range North2 feet West of	QuarterW, Southeast corner of section. tWATER RESOURCES
11	X This point will not be changed This point will be changed Proposed point of diversion: (Complete only if change is red) One in the Quarter of the One in the County, Township In County, Kansas, Feet Proposed Rate Proposed Quantity This point is: Additional Well Geo Center List other w	nanged as follows: equested) Quarter of the South, Range North2 feet West of	QuarterW, Southeast corner of section. tWATER RESOURCES
11	X This point will not be changed This point will be changed Proposed point of diversion: (Complete only if change is red) One in the Quarter of the Of Section Township In County, Kansas, Feet Proposed Rate Proposed Quantity	nanged as follows: equested) Quarter of the South, Range North2 feet West of	QuarterW, Southeast corner of section. tWATER RESOURCES

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

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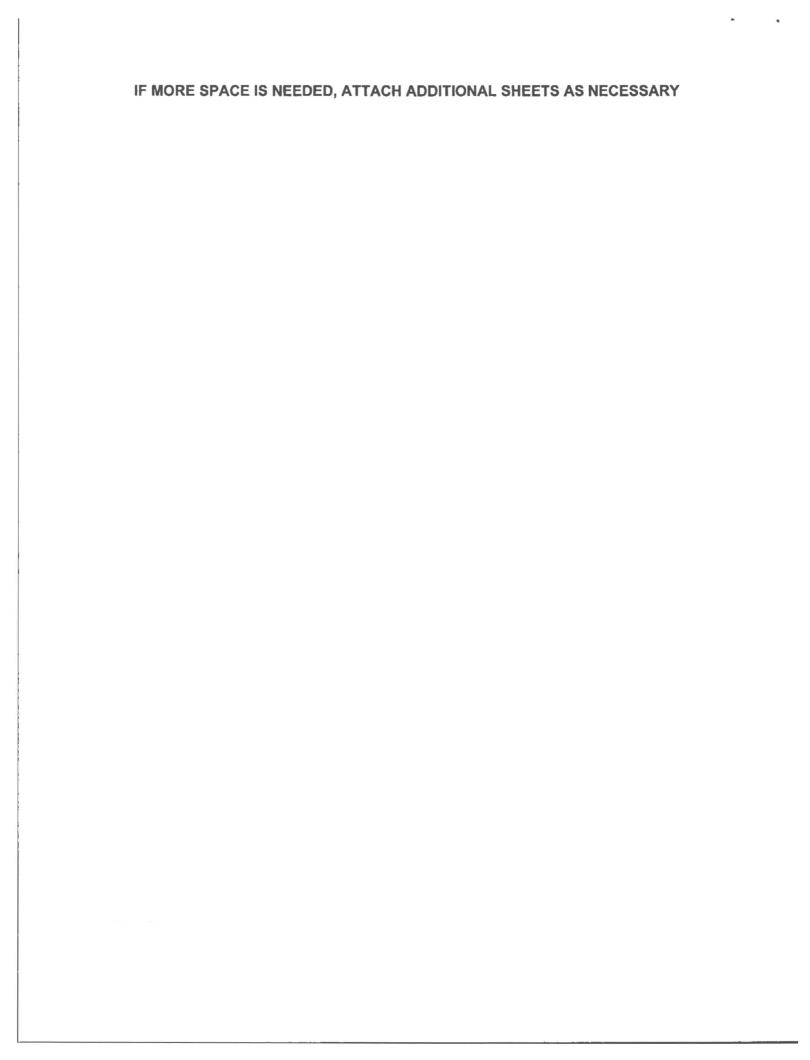
WATER RESOURCES RECEIVED

MAR 2 7 2023

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

FILE NO. <u>519</u>

		TILL NO	. 013		KO DEDT OF AGRIC	CUITURE
Presently author					KS DET TOT MOTH	
One in the		Quarter of the		Quarter of the		Quarte
				South, Range		
				1960 feet West of		
				nket Depth of well		
				feet North		
This point will n	ot be changed	This point will be change	ed as follows: [No change, point better	described with GPS a	s follows:
Proposed point	of diversion: (C	complete only if change	ge is requeste	ed or if existing point is	better described	by GPS)
One in the		Quarter of the		Quarter of the		Quarte
of Section		, Township		South, Range		(E/W)
in	Cour	nty, Kansas,	_ feet North _	feet West of	Southeast corner of	f section.
Proposed Rate_		Proposed Quantity _		Proposed well depth	(feet)	
				hts that will use this point		
				•		
Presently author	rized point of d	<u>iversion:</u>				
One in the		Quarter of the		Quarter of the		Quarte
of Section	18	, Township	24	South, Range	32	W
in Finney	Cour	nty, Kansas, <u>2950</u>	feet North _	5000 feet West of	Southeast corner of	of section.
Authorized Rate	1040gpm	_ Authorized Quantity	547.7mgy blai	nket Depth of well	(feet)	
				feet North		
				No change, point better		
Proposed point	of diversion: (C	complete only if change	ge is request	ed or if existing point is	better described	by GPS)
One in the		Quarter of the		Quarter of the		Quarte
				South, Range		
in	Cour	nty, Kansas,	_ feet North _	feet West of	Southeast corner of	of section.
				Proposed well depth		
				hts that will use this point		
Presently author						
One in the	,	Quarter of the		Quarter of the		Quarte
of Section	13	, Township	24	South, Range	32	W
				1296 feet West of		
				nket Depth of well		
(DWR use only:	Computer ID N	lo. <u>65</u> GF	PS	feet North	feet West	:)
This point will r	ot be changed	This point will be chang	ed as follows:	No change, point better	described with GPS	as follows:
				ed or if existing point is		
One in the		Quarter of the		Quarter of the		Quarte
of Section		, Township		South, Range		(E/W)
in	Cour	nty, Kansas,	feet North _	feet West of	Southeast corner of	of section.
Proposed Rate		Proposed Quantity _		Proposed well depth	(feet)	
				hts that will use this poin		
Presently author						
One in the		Quarter of the		Quarter of the South, Range		Quarte
of Section	13	, Township	24	South, Range	32	W
in Finney	Cour	nty, Kansas, <u>2382</u>	feet North _	1047 feet West of	Southeast corner of	of section.
				ket Depth of well		
(DWR use only:	Computer ID N	lo. <u>67</u> GF	PS	feet North	feet West	:)
☑This point will r	ot be changed	This point will be chang	ed as follows:	☐ No change, point better	described with GPS	as follows:
				ed or if existing point is		
				Quarter of the		
				South, Range		
				feet West of		
Proposed Rate		Proposed Quantity		Proposed well depth	(feet)	
				hts that will use this poin		
R 1-121-2 (Rev. 04/2	(4/2018)	P	age		File No.	



				File No. <u>519</u>
12.	The	e pre	sently authorized use of water is for MUN purpose	es.
	It is	pro	posed that the use be changed to MUN	purposes.
13.			ing the place of use and/or use made of water, describe how the consumptive use water needed for current consumptive use.	
	_			
	(Ple	ase s	how any calculations here.)	
14.	It is	req	uested that the maximum annual quantity of water be reduced to	(acre-feet or million gallons).
15.	It is	req	uested that the maximum rate of diversion of water be reduced to	gallons per minute (c.f.s.).
16.	1:2 Kar Dis	4,00 nsas tanc ould	olication must include either a topographic map or detailed plat. A U.S. Geological 0, is available through the Kansas Geological Survey, 1930 Constant Avenue, U 66047-3726 (www.usgs.gov). The map should show the location of the presently es North and West of the Southeast corner of the section must be shown. The praise be shown. Identify the center of the section, the section lines and the section contourship, and range numbers on the map. In addition the following information must	Iniversity of Kansas, Lawrence, authorized point(s) of diversion. resently authorized place of use priners and show the appropriate
	a.	If 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 of the must be shown. Please be certain that the information shown on the map agree Paragraph Nos. 9, 10 and 11 of the application.	
		2)	If the source of supply is groundwater, please show the location of existing was domestic wells, within $\frac{1}{2}$ mile of the proposed well or wells. Identify each well as mailing address of the property owner or owners. If there are no wells within $\frac{1}{2}$ miles	to its use and furnish name and
		3)	If the source of supply is surface water, the names and mailing addresses of all la and $\frac{1}{2}$ mile upstream from your property lines must be shown.	andowner(s) ½ mile downstream
	b.		change in the place of use is desired, show the proposed place of use by crossh tain that the information shown on the map agrees with the information shown in Par	
17.	loc we	al so Il log	documentation to show the change(s) proposed herein will not impair existing wate curce of supply as to which the water right relates. This information may include state, the state of th	atements, plats, geology reports,
	Se	e att	ached plat and supporting documentation	
	_			
	_			
18.	ide rec	ntify uest	roposed change(s) does not meet all applicable rules and regulations of the Kansas the rules and regulations for which you request a waiver. State the reason why a should be granted. Attach documentation showing that granting the request will no prejudicially and unreasonably affect the public interest.	a waiver is needed and why the
	Wa	aiver	needed for minimum spacing, KAR 5-23-3, not met at proposed location.	WATER RESOURCES RECEIVED
	_			MAR 2 7 2023

. . . .

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY	

File No. 519	
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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 a authorized to make this application on their behalf, and declare furth complete. By filing this application I authorize the chief engineer to be as specified in sections 14 and 15 of this application.	er that the statements contained herein are true, correct, and
Dated at Garden City, Kansas, this City of Garden City 1 Kensas by: Market 1 Journal (Owner)	day of <i>March</i> , 20 23.
Fred Jones, Water Resource Mgr (Please Print)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	Notary Public Print) State of Kansas
State of Kansas County of	Kacy Quintana My Commission Expires /0-79-24
I hereby certify that the foregoing application was signed in my March, 2023.	presence and sworn to before me this 20^{-4} day of
My Commission Expires /1, -29-24.	Notary Public
FEE SCHED	ULE
Each application to change the place of use, the point of diversion or the use application fee set forth in the schedule below:	e 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	

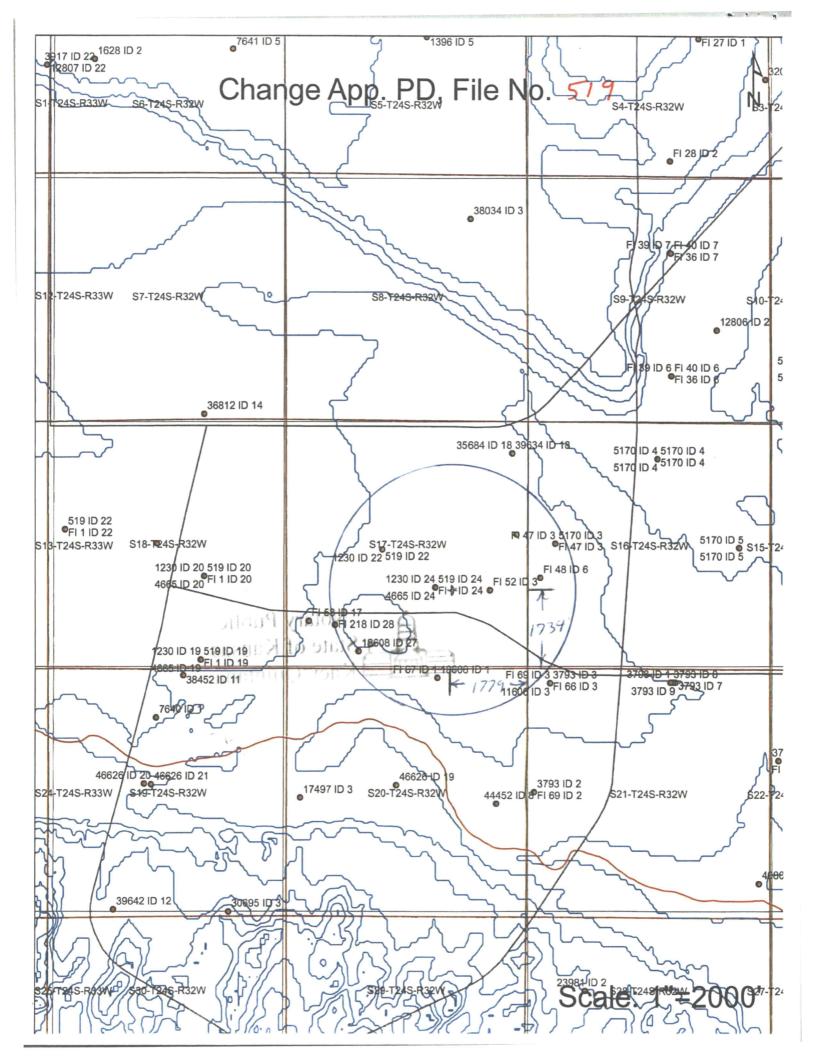
Application to change the use made of the water

Make check payable to Kansas Department of Agriculture.

KS DEPT OF AGRICULTURE

MAR 2 7 2023

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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

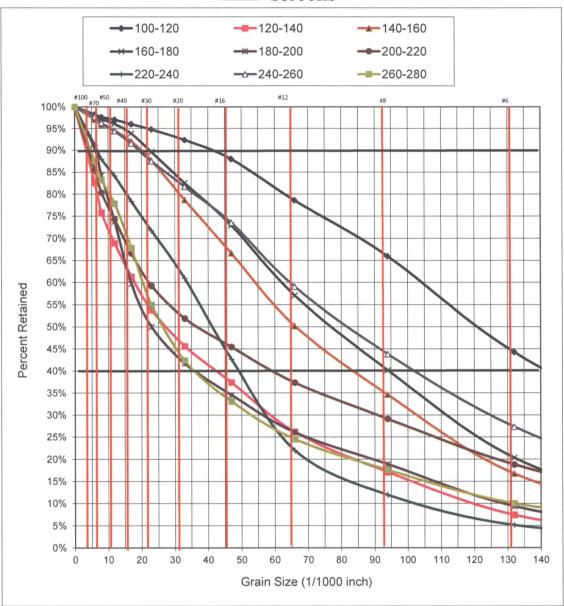
18608 D2: Deverne R Cartmill ET AL, 1112 Kingsury, Garden City, KS 67846

Fl 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, MNS\$132 RCES RECEIVED

C10923-4

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 Nuzman (Geoligist)
JOB NAME:	Carden 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	MAAAF.	CITY	OF GARDEN	CITY KS

LEGAL: NWSE 17-24S-32W

COUNTY: FINNEY

GPS: 37.57'55'N

100.51'12"W

FROM	то	FINNEY ST. SITE / CHESTNUT D	RILLER: RYAN HARDNESS	COLOR	SPEED	PULL DOWN	22-1437 OTHER / DRILLIN 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	LTBR	FAST	NO	SMOOTH
229	250	COARSE SAND / FINE GRAVEL	SOFT	BR/RED	FAST	NO	CHATTER
250	254	SANDY CLAY	SOFT	LTBR	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	LTBR	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					





OTHER SERVICES:

GARDEN CITY CHESTNUT SITE

COMPANY

: DOWNEY DRILLING INC

WELL

: GARDEN CITY CHESTNUT SIT TH#1 DEE

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.

CASING TYPE

LOGGING UNIT

: 1903

CASING THICKNESS:

FIELD OFFICE

: DDI

RECORDED BY

: BRENT

: 6.25

BOREHOLE FLUID

RM

: MUD

FILE : ORIGINAL

MAGNETIC DECL. : 0

: 49

TYPE : 8144A

MATRIX DENSITY : 2.71

RM TEMPERATURE

LGDATE: 12/02/22

NEUTRON MATRIX : LIMESTON

MATRIX DELTA T

LGTIME: 10:39:

THRESH: 99999

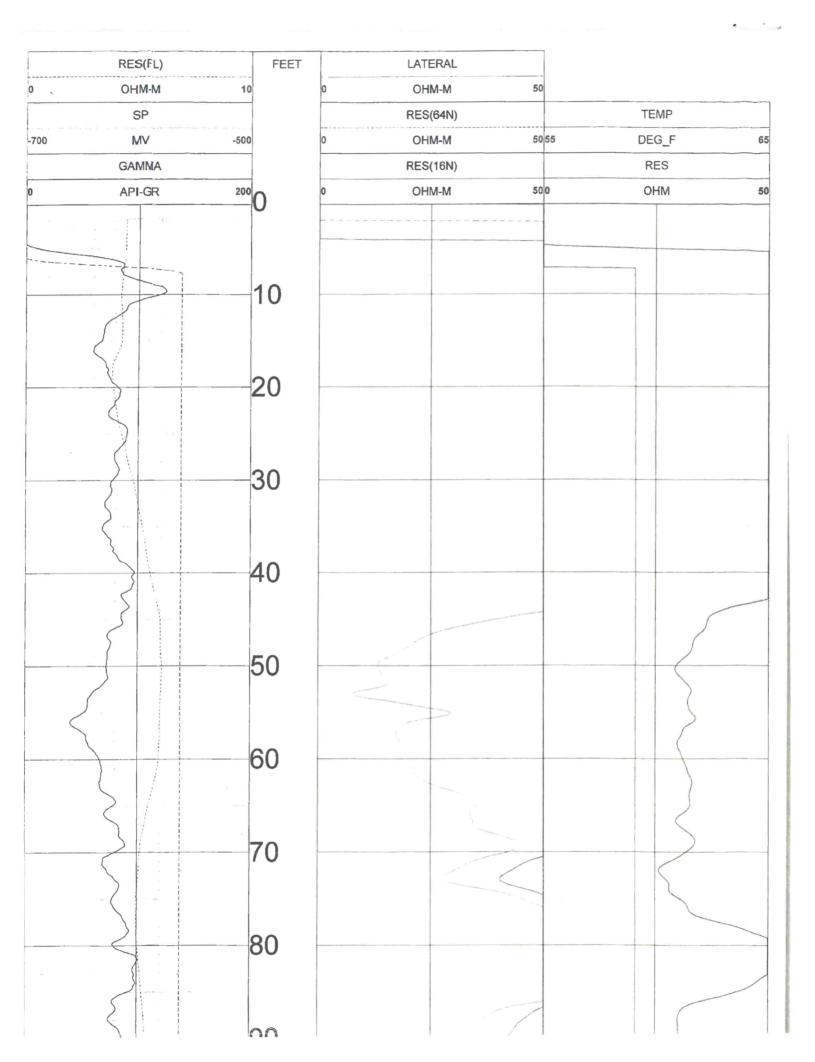
N 37.57'55" W -100 51'12"

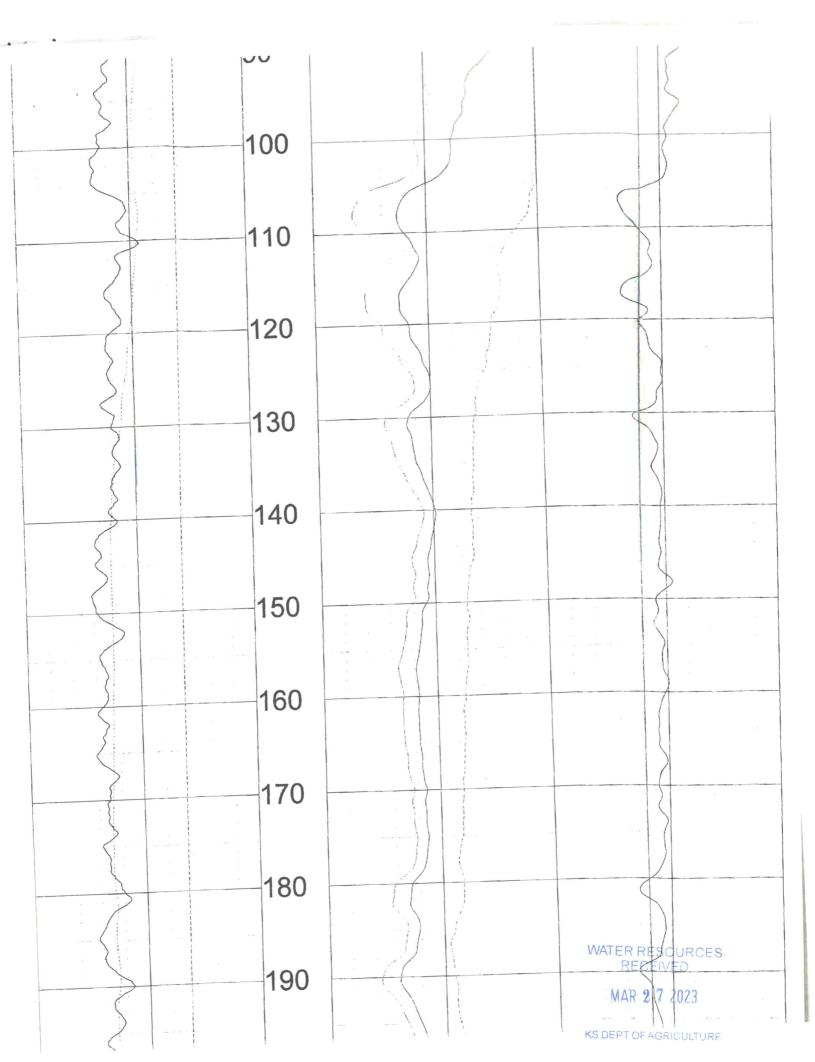
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

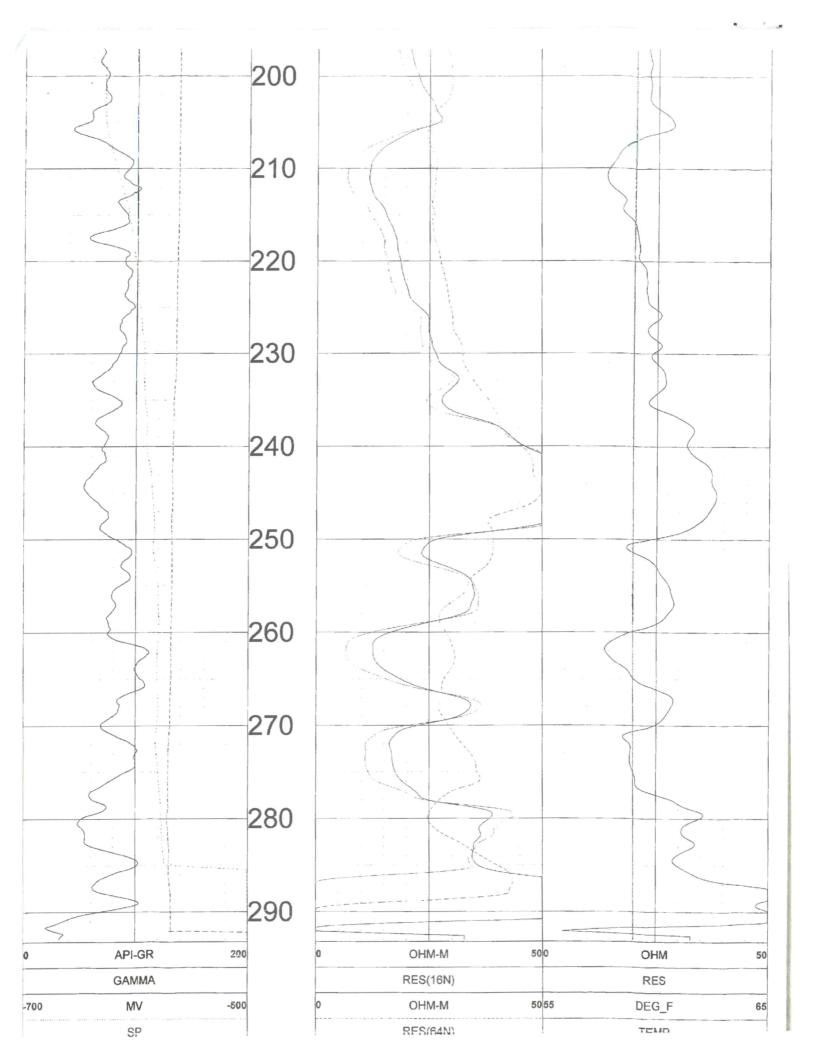
WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE







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

WATER RESOURCES RECEIVED

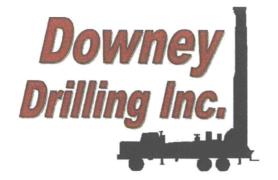
MAR 2 7 2023

KS DEPT OF AGRICULTURE

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

1	OLI (I) (L I TO III	2211					
	DATE	TIME	SENSOR	STAN	IDARD	RESP	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] [OHM-M]	7595.000 64820.000	[CPS]
3	Jan14,22	08:32:51	SP	0.000	[MV]	327 7 68.000 164650.000	[CPS]
4	Jan14,22 Jan14,22	08:32:51 08:33:01	SP RES(16N)	381.500 0.000	[MV] [OHM-M]	3453.000	[CPS] [CPS]
_	Jan14,22	08:33:01	RES(16N)	1951.500	[OHM-M] [OHM-M]	448089.000 3163.000	[CPS]
5	Jan14,22 Jan14,22	08:33:10 08:33:10	RES(64N) RES(64N)	0.000 1994.000	[OHM-M]	449170.000	[CPS] [CPS]
6	Jul12,17	13:17:49	TEMP TEMP	33.400 102.200	[DEG_F] [DEG F]	66910.000 270930.000	[CPS]
7	Jul12,17 Jan14,22 Jan14,22	13:17:49 08:33:36 08:33:36	RES RES	0.000 944.000	[OHM]	21285.000 190148.000	[CPS] [CPS]
	Jan 17,22	00.00.00	1120	0-1-1.000	form. 1		[0. 0]

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

WATER WELL RECORD (WWC-5)

Constructed

	KOLAR DOC	ID_	1678972	V	/ELL ID	
✓	Original Record		Correction		Change in Well Use	4

LOCATION OF WATER WEI	

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	NAD83	Elevation	2831	County	Finne	ey				A CONTRACTOR OF THE PARTY OF TH						

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	
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:	0 ft. to 240 ft.
Blank casing diameter: 2	.38 in.
Casing joints:	Threaded
Weight: .72 lbs	/ft.
Wall thickness or gauge 1	
Blank casing interval:	ft. toft.
Blank casing diameter:	in.
Casing joints:	
Weight:lbs	/ft.
Wall thickness or gauge r	10.:
Grout interval:0 ft. to	
Grout material: Ben	tonite
Grout interval: ft. to	
Grout material:	
Screen / perforation material:	PVC
Screen / perforation opening	e. Continuous slot
octeen / perioration opening	o, Communación diot

Screen / perforation material: _	PVC
Screen / perforation openings:	Continuous s
Screen / perforation intervals:	

				77.5		
Fron	n 240	ft. to	250)_ft.		
5	Slot size	.01	unit	inches		
Fron	n	ft. to		_ft.		
5	Slot size		unit			
Grave	pack in	ervals:				
Gr	avel pacl	not us	ed: 🗆	Gravel size	#40 :	iп
Fre	om23	0 ft. to	25	60 ft.		
Gr	avel pack	not us	ed: 🗆	Gravel size	-	ir

From _____ ft. to ____ ft.

WELL WATER USF

WELL WATER USE	NEAREST SOURCE OF POTENTIAL CONTAMINATION
Other PIEZOMETER	Source:
COMPLETION	Distance Direction from well: from well:
Depth of completed well: 250 ft. Depth(s) groundwater encountered:	Source description:
(1) ft.; (2) ft.;	Source:
(3) ft.; (4)	Distance Direction from well: from well:
Static water level in well:93_ft.	Source
	description:
measured above land surface on (mm/dd/yy):	✓ No potential source of contamination within 100 feet.
	PERMIT & ID NUMBERS (AS REQUIRED)
Estimated yield:gpm	
Water level was:ft. afterhours	DWR Application No.:
pumpinggpm	KDHE / EPA Project Code:
Pump installed? ☐ Yes No	Site Name: CHESTNUT DEEP
	KDHE UIC Class V Form Completed: ☐ Yes ☐ No
Water well disinfected? ☐ Yes ☐ No	County Permit: Yes No Permit ID:
Date disinfected (mm/dd/yy):	Lease Name & Well #:
Aquifer, if known:	# of boreholes: # of dewatering wells:
LITHOLOGIC LOG	
FROM TO LITHOLOGY INTERVALS	

FROM	то	LITHOLOGY INTERVALS
Attache	Attache	Attached

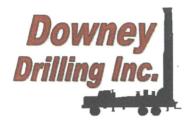
COMMENTS

CONTRACTOR'S OR LANDOWNERS CERTIFICATION

This water well was constructed ✓ reconstructed ☐ pursuant to the stated water well
contractor's license and was completed on 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



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
FROM	то	ТҮРЕ	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		SOFT	LT BR	slow	NO	SMOOTH
	282		HARD	WHITE	slow	YES	СНОРРУ
282	295		1	BLACK		YES	SMOOTH
		3 CUPS SODA ASH					
					<u> </u>		
			 				
	1						
			1		WATER	RESOUR	CES
	FROM 0 5 11 46 73 108 136 148 190 194 207 229 250 270 276 282	0 5 5 11 11 46 46 73 73 108 108 136 136 148 148 190 190 194 194 207 207 229 229 250 250 254 254 260 260 270 276 282	FROM TO TYPE 0 5 TOP SOIL 5 11 SANDY CLAY 11 46 FINE-MED-COARSE GRAVEL 46 73 SANDY CLAY 73 108 FINE-MED GRAVEL / THIN SANDY CLAY LAYERS 108 136 SANDY CLAY / FINE-MED SAND 136 148 FINE-MED GRAVEL / THIN CLAY STRIPS 148 190 FINE-MED GRAVEL 190 194 SANDY CLAY 194 207 MED-COARSE SAND / T FINE-GRAVEL / THIN CLAY LAYERS 207 229 SANDY CLAY 229 250 COARSE SAND / FINE GRAVEL 250 . 254 SANDY CLAY 254 260 COARSE SAND 260 270 FINE-MED-COARSE SAND 270 276 SANDY CLAY 276 282 LIMESTONE / CLAY	FROM TO TYPE	FROM TO	FROM TO TYPE	FROM TO TYPE



DRILLER BRENT

METHOD STR MUD ROTARY

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

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 1000#

AMOUNT:

GROUT

TYPE: AMOUNT:

NA NA

SEALS: AMT & TYPE:

BOT:

MID:

0-230'

TOP:

TYPE: 3500# HOLE PLUG

SITE#:

CHESTNUT

TH#:

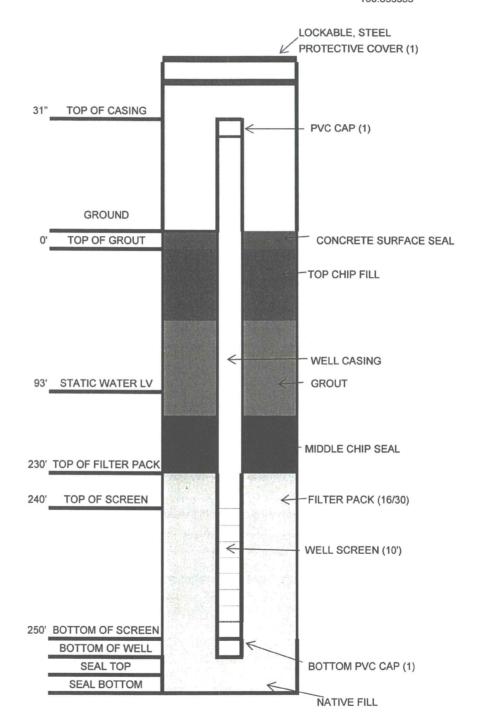
DEEP WELL

WELL DEVELOPMENT

METHOD: DURATION: AIR LIFT 1 HOUR

COMMENTS:

2X2 CONCRETE PAD







GARDEN CITY CHESTNUT SITE

COMPANY

: DOWNEY DRILLING INC

WELL

: GARDEN CITY CHESTNUT SIT TH #1 DEE

LOCATION/FIELD

COUNTY

: FINNEY

LOCATION : NWSE

SECTION

: 17

TOWNSHIP

: 248

OTHER SERVICES:

RANGE: 32W

DATE

: 12/02/22

DEPTH DRILLER : 295

: 293.10

: 0.30

PERMANENT DATUM : GL

LOG MEASURED FROM: GL

DRL MEASURED FROM: GL

KB

GL

DF

CASING DIAMETER: 10.

CASING TYPE

LOG BOTTOM

LOG TOP

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

: MUD RM

: 49

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 RECEIVED





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:

30521

Results For: 22-1432

Location:

Sample ID: CN DEEP

рН

Total Dissolved Solids (TDS) Est, ppm

Electrical Conductivity, mmho/cm

Cations / Anions, me/L

8.0

411

0.69

8.1 / 7.5

< 0.01

	ppm
Sodium, Na	49
Potassium, K	4
Calcium, Ca	76.7
Magnesium, Mg	25
Total Hardness, CaCO3	297
Nitrate, NO ₃ -N	1.5 (SAFE)
Sulfate, SO ₄ -S	66
Chloride, Cl	24
Carbonate, CO ₃	< 1.0
Bicarbonate, HCO ₃	159
Total Alkalinity, CaCO ₃	131
Fluoride, F	0.64
Total Iron, Fe	< 0.01

"<" - Not Detected / Below Detection Limit

WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE

Reviewed By: Raymond Ward

Manganese, Mn

12/23/2022

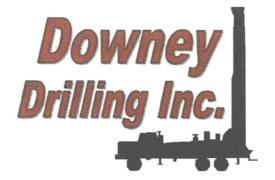
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Page 3 of 8

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 RECORD (WWC-5)

Constructed

	KOLAR DOC	ID_	1678995	 WELLID
✓	Original Record		Correction	☐ Change in Well Use

IOC	MONTA	OF	WATER	MELL

Latitude	37.965272	Longitude	-100.853436	Section	17	Township	24	Range	32	□E ✓ W Fraction	SE	1/4	NW	1/4	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	d surface: 32 in.
If casing height is les has a variance been	ss than 12 in. approved?* □ Yes ✔ No
*variance not require or environmental re	emediation wells
Casing type:Th	nermalPlastic
Blank casing interval:	0 ft. to145 ft.
Blank casing diameter:	2.38_in.
Casing joints:	Threaded
Weight: .72	lbs/ft.
Wall thickness or gat	uge no.: SCH 40
Blank casing interval:	ft. toft.
Blank casing diameter:	in.
Casing joints:	
Weight:	_lbs/ft.
Wall thickness or gau	ıge no.:
Grout interval: 0	
Grout material:	Bentonite
Grout interval:f	
Grout material:	
-	DVC

10.10
Grout material:
DVC
Screen / perforation material: PVC
Screen / perforation openings: Continuous slot
Screen / perforation intervals:
From 145 ft. to 155 ft.
Slot size01 unit _inches
From ft. to ft.
Slot size unit
Gravel pack intervals:
Gravel pack not used: Gravel size #40 in
From140 ft. to155 ft.
Gravel pack not used: Gravel size in
From ft. to ft.

WEL		

		MEANEST SOURCE OF FOTERTIAL CONTAININATION		
Other PIEZOME	TER	Source:		
COMPLETION		Distance Direction from well:		
Depth of completed	well:ft.	Source		
Depth(s) groundwa	ter encountered:	description:		
(1) ft.; (2)	ft.;	Source:		
(3) ft.; (4)	☐ dry well	Distance Direction from well:		
Static water level in	well:87_ft.	Source		
✓ measured below on (mm/dd/yy):	10/00/0000	description:		
measured above on (mm/dd/yy):		No potential source of contamination within 100 feet.		
Estimated yield:		PERMIT & ID NUMBERS (AS REQUIRED)		
	ft. after hours	DWR Application No.:		
vider level was.	pumping gpm	KDHE / EPA Project Code:		
Pump installed?		Site Name: CHESTNUT SHALLOW		
	100 7 170	KDHE UIC Class V Form Completed: ☐ Yes ☐ No		
Water well disinfect	ed? □ Yes □ No	County Permit: Yes No Permit ID:		
Date disinfected (m	m/dd/yy):	Lease Name & Well #:		
Aquifer, if known:		# of boreholes: # of dewatering wells:		
LITHOLOGIC LOG				
FROM TO	LITHOLOGY INTERVALS			

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 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

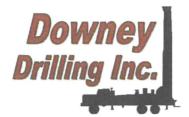
Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka KS 66612-1367 (785) 296-3565 | K.S.A. 82a-1212 | v2022c

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

Lithology

From	То	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
			QUIK GEL - 9					
			SODA ASH - 4 CUPS					
			QUIK TROL - 6 #'S					
			EZ MUD - 1/2 GAL					
							1	
			*					



DRILLER RYAN METHOD STRAIGHT MUD

COUNTY FINNEY LOGGED BY

PROJECT

CITY OF GARDEN CITY

ADAM

WELL NUMBER
SHALLOW / CHESTNUT
LAND LEGAL
NWSE 17-24S-32W
BOREHOLE DIA.

6.25"

DATE CONSTRUCTED

12/6/2022

TOTAL DEPTH

155'

GPS LOCATION

37.965272

 CASING

 TYPE:
 FLUSH JOINT PVC

 DIAMETER:
 2"

 LENGTH:
 145' + 32"

FILTER PACK

TYPE: #40 RED FLINT

AMOUNT: 1200 LBS

<u>Grout</u> Type: Amount:

BOT: MID: 0-140' TOP:

SEALS: AMT & TYPE:

SITE#: CHESTNUT

3/4" HOLE PLUG

SHALLOW

TYPE:

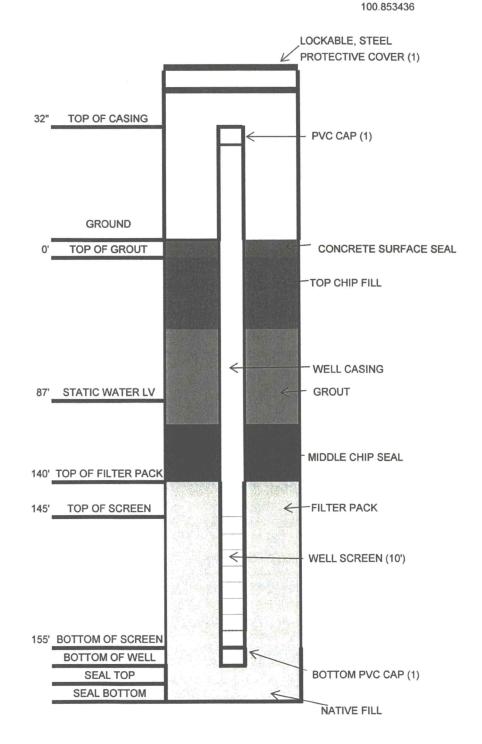
TH#:

WELL DEVELOPMENT
METHOD: AIR LIFT
DURATION: 1 HOUR

COMMENTS:

2X2 CONCRETE PUD

1 WELL PROTECTOR



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:

12/19/2022

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, CaCO ₃	1005
Nitrate, NO ₃ -N	6.3 (SAFE)
Sulfate, SO ₄ -S	443
Chloride, Cl	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

"<" - Not Detected / Below Detection Limit

Reviewed By: Raymond Ward

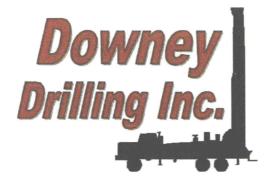
12/23/2022

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

Constructed

	KOLAR DOC I	D_	1678985	V	VELL ID	
√	Original Record		Correction		Change in Well Use	2

		WELL

	0															
							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	

STEER BALLERY	
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	
*variance not required fo or environmental remed	liation wells
Casing type: Therm	nalPlastic
Blank casing interval:	0 ft. to 190 ft.
Blank casing diameter: 2	.38 _{in.}
Casing joints:	Threaded
Weight: .72 lbs	/ft.
Wall thickness or gauge	no.: SCH 40
Blank casing interval:	
Blank casing diameter:	in.
Casing joints:	
Weight:lbs	/ft.
Wall thickness or gauge	no.:
Grout interval: 0 ft. to	185 _{ft.}
Grout material: Ben	
Grout interval: ft. to	
Grout material:	
6. 1.6	PVC
Screen / perforation materials	Cantinuana
Screen / perforation opening	
Screen / perforation intervals	:

Screen / per	foration r	PVC	
Screen / per	foration	Continuous slot	
Screen / per	foration i	ntervals:	
From	190 ft. to	200 f	i.
Slot si	ze01	_unit_in	ches
From	ft. to	fi	

Slot size	unit	
Cravel pack interv	ale	

	pack not used:	☐ Gravel size	#40 :	in
	185 ft. to _			
Gravel	pack not used:	☐ Gravel size		in
From	ft. to	ft.		

- County Fiffiley	
WELL WATER USE	NEAREST SOURCE OF POTENTIAL CONTAMINATION
Other PIEZOMETER	Source:
COMPLETION	Distance Direction from well: from well:
Depth of completed well:	Source description:
(1) ft.; (2) ft.;	Source:
(3) ft.; (4) dry well	Distance Direction from well:
Static water level in well: 87.9 ft.	Source Irom wen:
✓ measured below land surface on (mm/dd/yy): 12/05/2022	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. after hours	DWR Application No.:
pumping gpm	KDHE / EPA Project Code:
Pump installed? ☐ Yes No	Site Name: CHESTNUT MIDDLE
W II I'' C. D. F.W. F.W.	KDHE UIC Class V Form Completed: Yes No
Water well disinfected? ☐ Yes ☐ No	County Permit: Yes No Permit ID:
Date disinfected (mm/dd/yy):	Lease Name & Well #:
Aquifer, if known:	# of boreholes: # of dewatering wells:
LITHOLOGIC 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 on12/05/202	22 . I certify that this record is true to
the best of my knowledge and belief. This water well re	cord was completed on01/09/2023
under the business name of Downe	ey 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 Dov	vney

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

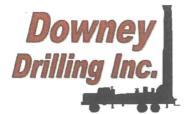
Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka KS 66612-1367 (785) 296-3565 | K.S.A. 82a-1212 | v2022c

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	NIA AAE.	CITY	OF CAP	DENIC	TITY PC
COZIOWEK	NAME:	CHI	OF GAR	DEN C	JIII KA

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

COUNTY: FINNEY CO.

GPS: N 37.965280

W 100.853391

W 100.03371									
			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	СНОРРУ	
	205	210	SANDY CLAY	SOFT	BROWN	FAST	NO	SMOOTH	
			6 CUPS SODA ASH						
			QUIK GEL - 8 BAGS						
			QUIK TROL - NONE						
			EZ MUD5 GALLON						
							1		
-									
-									
-							-		
\dashv							-		
\dashv							1		



DRILLER RYAN

METHOD STR MUD ROT

PROJECT CITY OF GARDEN CITY

> COUNTY FINNEY

LOGGED BY **ADAM**

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

CASING

TYPE:

FLUSH JOINT PVC

DIAMETER:

LENGTH:

190' + 32"

SCREEN

TYPE:

FLUSH JOINT PVC 2"

DIAMETER: LENGTH:

10'

SLOT SIZE

0.01

FILTER PACK

TYPE: AMOUNT: #40 RED FLINT 1000LBS

GROUT

TYPE:

AMOUNT:

SEALS: AMT & TYPE:

BOT: MID:

0-185'

TOP: TYPE:

CHESTNUT

SITE#: TH#:

MIDDLE

3/4" HOLE PLUG

WELL DEVELOPMENT

METHOD:

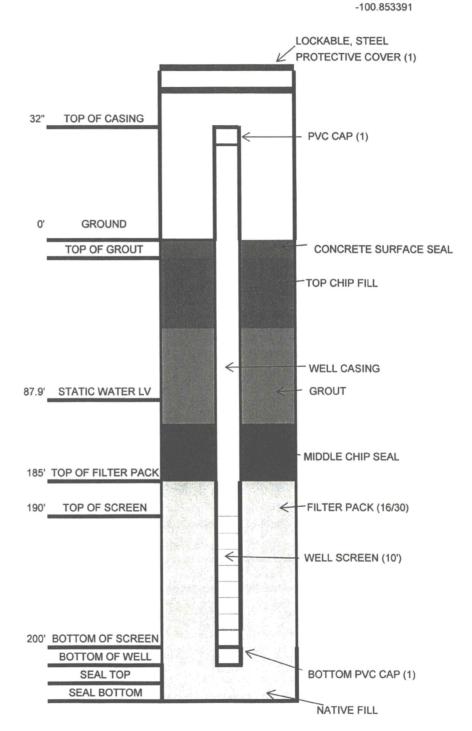
AIR LIFT

DURATION:

1 HOUR

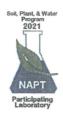
COMMENTS:

2X2 CONCRETE PAD 1 WELL PROTECTOR



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:

12/19/2022

Date Reported:

12/20/2022

Lab Number:

30519

Results For: 22-1432

Location:

Sample ID: CN MIDDLE

pH

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, CI	111
Carbonate, CO ₃	< 1.0
Bicarbonate, HCO ₃	217
Total Alkalinity, CaCO3	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). 519

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