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	ef Engineer to change the	WATER RESOURCES RECEIVED MAR 27 2023 [23]
		File No.	4665	KS DEPT OF AGRICULTURE
2.	Name of applicant: City	of Garden City, Attention V	Vater Department	
	Address: PO Box 998, 3	801 N 8 th St	MANAGEMENT NEW YORK OF THE PROPERTY OF THE PRO	
	City, State and Zip: Gard	den City, KS 67846		
	Phone Number: <u>(620)27</u>	6-1291	E-mail address: fred.jones@	@gardencity.ks.us
	What is your relationship	p to the water right; owr	ner ☐ 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.	• , , , ,		-	specific): Not adequate space on current property
	The change(s) (was) (w	ill be) completed by As soc	on as approved	Date)
F.	or Office Use Only: O. 4 GMD 3 Meets odeCGT	s K.A.R. 5-5-1 (YES) / NO)	Use MUN Source G S C	County FI By ALBoate 3/28/23 Date 327/73 Check # 13 9397

3/29/2023 LMoody Assisted by: 6mp3/5Lm

															F	ile No	. <u>466</u> 5	5	
The	prese	ntly au	thorize	ed plac	ce of u	ise is:													
	Owne	r of La	nd —	NAM	E: <u>No</u>	Chan	ge												
			ADI	DRES	S:														
				NE	1/4			NW	11/4			SW	11/4			SE	1/4		TOTAL
Sec.	Twp.	Range	NE¼			SE¼	NE¼	NW¼	SW1/4	SE¼	NE%	NW¼	SW¼	SE¼	NE¼	NW¼	SW1/4	SE¼	ACRES
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	Own	er of La	ınd —	- NAM	1E:														
			AD	DRES	SS:														
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Sec.	Twp.	Range	NE1/4	T T	T	SE¼	NE1/4	NW1/4		SE¼	NE%	NW1/4	T	SE¼	NE%	T	SW1/4	SE1/4	ACRES
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List any other water rights that cover this place of use.

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE

APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF USE AND/OR POINT OF DIVERSION SUPPLEMENTAL SHEET FILE NO. 4665

WATER RESOURCES RECEIVED

Presently author	ized point of c	liversion:				
One in the		Quarter of the		Quarter of the	KS DEPT OF AGRICULTURE Quar	rter
of Section	18	, Township	24	South, Range	20	W.
					of Southeast corner of section	
		Authorized Quanti				
(DWR use only:	Computer ID I	No. 20	GPS	feet North	feet West)	
☑This point will no	t be changed [This point will be cha	nged as follows:	No change, point bette	r described with GPS as follows	s.
Proposed point of	of diversion: (Complete only if cha	ange is requested	or if existing point	is better described by GPS	S)
One in the		Quarter of the		Quarter of the	Quar	rter
of Section		, Township		South, Range	(E/	W).
in	Cou	nty, Kansas.	feet North	feet West of	of Southeast corner of section	n.
Proposed Rate		Proposed Quantity	<u> </u>	Proposed well dep	th (feet)	
This point is:	Additional Well	Geo Center Lis	st other water rights	that will use this poi	int	—.
				Tarac vini add and por		
Presently author						
One in the		Quarter of the		Quarter of the _	Quar	rter
					32	
in Finney	Cou	nty, Kansas,2950	feet North	5000 feet West of	of Southeast corner of section	n.
Authorized Rate _	1200gpm	_ Authorized Quanti	ty 203.79AF blanke	et Depth of well	(feet)	
(DWR use only:	Computer ID I	No. <u>22</u>	GPS	feet North	feet West)	
☑This point will no	t be changed	This point will be cha	nged as follows:	No change, point bette	r described with GPS as follows	s:
					is better described by GPS	
					Quar	
of Section		, Township		South, Range _	(E/\	W),
in	Cou	nty, Kansas,	feet North	feet West of	of Southeast corner of section	n.
Proposed Rate		Proposed Quantity	/	Proposed well dep	th (feet)	
This point is:	dditional Well	☐ Geo Center Lis	st other water rights	that will use this poi	nt	
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Presently author	ized point of d	liversion:				
Presently author One in the	ized point of d	liversion: Quarter of the				
One in the	13	Quarter of the , Township	24	Quarter of the _	Quar	rter W,
One in the of Section in Finney	13 Cou	Quarter of the , Township nty, Kansas,4980	24 feet North	Quarter of the _ South, Range _ 1296 feet West of	Quar 32 of Southeast corner of section	rter W,
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IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

				File No. <u>4665</u>
2.	The	pre	sently authorized use of water is for MUN	_ purposes.
	lt is	pro	osed that the use be changed to MUN	purposes.
3.	lf cl	nang	ing the place of use and/or use made of water, describe how the consumpt	ive use will not be increased.
	No	char	ge needed for current consumptive use.	WATER RESOURCE
1.0				RECFIVED
				MAR 2 7 2023
9	(Ple	ase s	now any calculations here.)	KS DEPT OF AGRICULTURE
4.	lt is	req	ested that the maximum annual quantity of water be reduced to	(acre-feet or million gallons).
5.	lt is	req	ested that the maximum rate of diversion of water be reduced to	gallons per minute (c.f.s.).
	1:24 Kar Dist	4,00 nsas tanc ould a	lication must include either a topographic map or detailed plat. A U.S. Gol, is available through the Kansas Geological Survey, 1930 Constant A 66047-3726 (www.usgs.gov). The map should show the location of the pass North and West of the Southeast corner of the section must be shown also be shown. Identify the center of the section, the section lines and the township, and range numbers on the map. In addition the following inform	venue, University of Kansas, Lawrence, presently authorized point(s) of diversion. The presently authorized place of use section corners 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 W must be shown. Please be certain that the information shown on the m Paragraph Nos. 9, 10 and 11 of the application.	
		2)	If the source of supply is groundwater, please show the location of exdomestic wells, within $\frac{1}{2}$ mile of the proposed well or wells. Identify each mailing address of the property owner or owners. If there are no wells with	n well as to its use and furnish name and
		3)	If the source of supply is surface water, the names and mailing addresse and $\frac{1}{2}$ mile upstream from your property lines must be shown.	es of all landowner(s) ½ mile downstream
	b.		change in the place of use is desired, show the proposed place of use be ain that the information shown on the map agrees with the information show	
	loca well	al so I log	ocumentation to show the change(s) proposed herein will not impair exisurce of supply as to which the water right relates. This information may in set hole logs, and other information as necessary information to show the low.	nclude statements, plats, geology reports,
	See	atta	ched plat and supporting documentation	
				18 - 18 - 17 - 18 - 18 - 18 - 18 - 18 -
	ider requ	ntify uest	oposed change(s) does not meet all applicable rules and regulations of the the rules and regulations for which you request a waiver. State the reas should be granted. Attach documentation showing that granting the reque prejudicially and unreasonably affect the public interest.	son why a waiver is needed and why the
	Wai	iver	needed for minimum spacing, KAR 5-23-3, not met at proposed location.	

IF MORE SP	ACE IS NEEDED), ATTACH AL	ODITIONAL SI	HEETS AS I	NECESSARY	

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File N	No. 46	65

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.

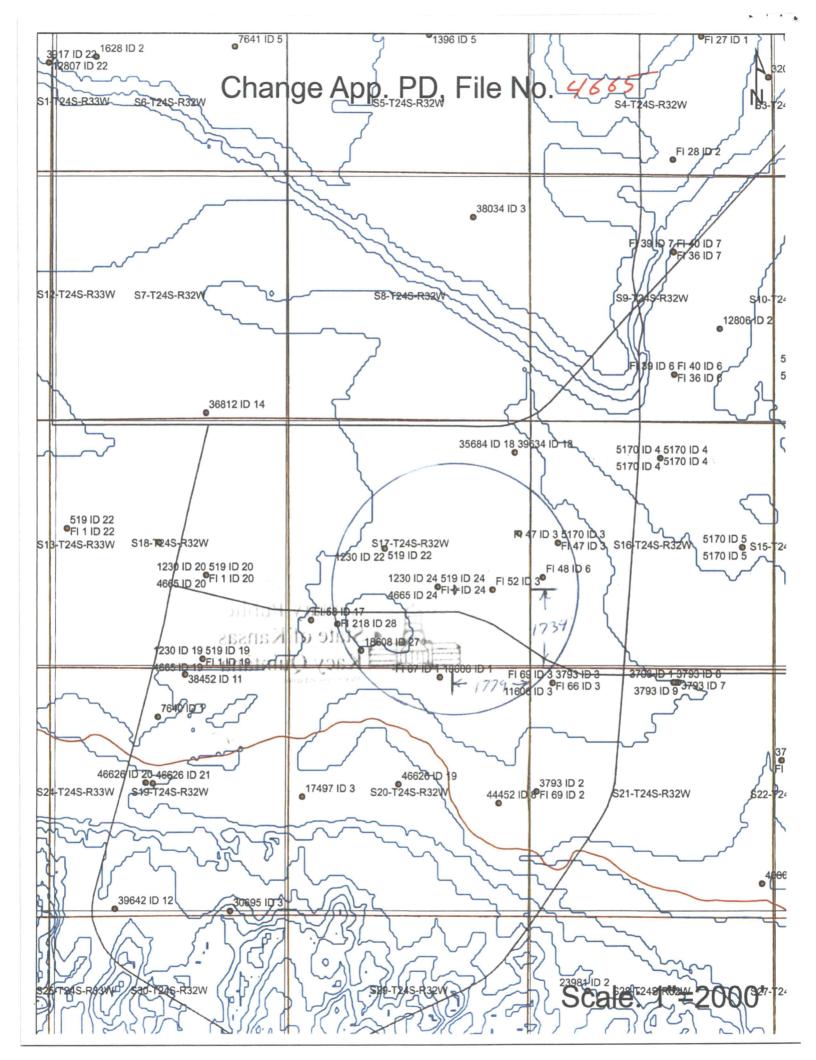
I declare that I am an owner of the currently authorized place of use as authorized to make this application on their behalf, and declare furthe complete. By filing this application I authorize the chief engineer to per as specified in sections 14 and 15 of this application.	that the etatemente contained begain are true correct and
Dated at Garden City, Kansas, this_ City of Garden City, Kansas, Kansas, this_	manently reduce the quantity of water and/or rate of diversion $\frac{20 + h}{\text{day of } \text{March}}$, 20 $\frac{23}{\text{day of }}$.
Fred Jones, Water Resource Mor (Please Print)	(Spouse)
(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 SS	Kacy Quintana My Commission Expires 10-29-24
Hereby certify that the foregoing application was signed in my promoted in the foregoing application was signed in my promoted in the foregoing application was signed in my promoted in the foregoing application was signed application.	. /
My Commission Expires	Notary Public
FEE SCHEDUI	<u>E</u>
Each application to change the place of use, the point of diversion or the use rapplication fee set forth in the schedule below:	nade 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	

Make check payable to Kansas Department of Agriculture.

KS DEPT OF AGRICULTURE

WATER RESOURCES

RECEIVED



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

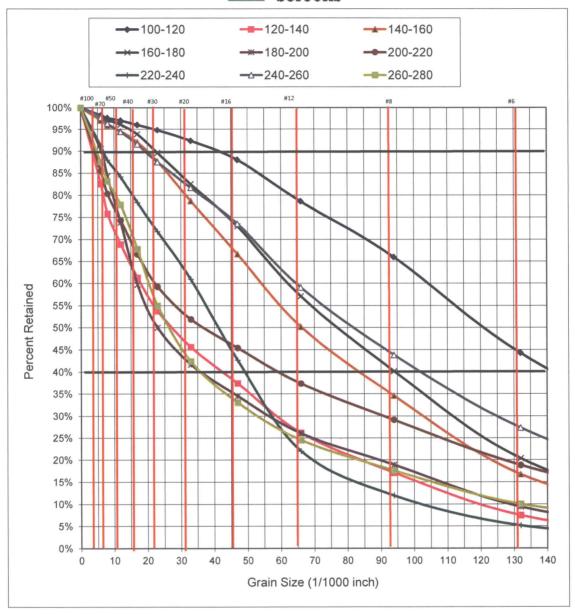
18608 D2: Deverne R Cartmill ET AL, 1112 Kingsury, Garden City, KS 67846

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 Screen ϕ 16 in

Sample ID 010923-4 Analyzed by: Duvall, Steven Date: 1/10/2023

Desired Yield 600 - 800 GPM 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.

Prepared by: Duvall, Steven

Send Samples to 1950 Old Highway 8, New Brighton, MNF\$132 RCES RECEIVED

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 Nuzman (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:	aux 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 17-24S-32W

COUNTY: FINNEY

GPS: 37.57'55'N

100.51'12"W

EDON	то	FINNEY ST. SITE / CHESTNUT D	RILLER: RYAN	COLOR	epcen	WO:	22-1437 OTHER / DRILLING
FROM			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	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	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	locon.	YES	
202	230	OT INCL	TAKO	DEAGIN		ILG	SMOOTH
		3 CUPS SODA ASH					
		10 BAGS QUIK GEL					
						-	
		1 GALLON EZ MUD			-		1
		#6 QUIK TROL LV				-	
		3000 GAL WATER			-	-	-
						-	
					-	-	
					-	-	
						-	-
							1

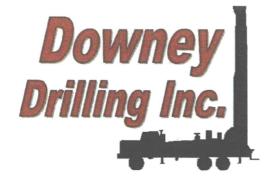
0 OHM-M 10		0	OHM-M	50
RES(FL)	FEET		LATERAL	

WATER RESOURCES RECEIVED

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

		OLIVIAL MOM	DEIL 300					
		DATE	TIME	SENSOR	STA	NDARD	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] [OHM-M]	7595.000 64820.000	[CPS]
	3	Jan14,22 Jan14,22	08:32:51 08:32:51	SP SP	0.000 381.500	[MV]	327 7 68.000 164650.000	[CPS]
	4	Jan14,22 Jan14,22	08:33:01 08:33:01	RES(16N) RES(16N)	0.000	[W-MHO]	3453.000 448089.000	[CPS]
	5	Jan 14,22	08:33:10	RES(64N)	0.000	[OHM-M] [OHM-M]	3163.000 449170.000	[CPS]
	6	Jan14,22 Jul12,17	08:33:10 13:17:49 13:17:49	RES(64N) TEMP TEMP	33.400 102.200	[DEG_F]	66910.000 270930.000	[CPS]
	7	Jul12,17 Jan14,22 Jan14,22	08:33:36 08:33:36	RES RES	0.000 944.000	[OHM]	21285.000 190148.000	[CPS]
- 1								

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	WELL ID	
✓	Original Record		Correction	☐ Change in Well	Us

۲	OCA	IN OUT	OF	MALA"	TED	VA/ET	

Latitude	37.965278	Longitude	-100.853333	Section	17	Township	24	Range	32	□E ✓ W Fraction	SE	14 N	1W	1/4	SE	1/4
Datum	NAD83	Elevation	2831	County	Finne	y		*								
WATER WE	I OWNER		WELL	WATER	ISF				NEA	DEST SOURCE OF	POTE	ITIAI	CONT	A AA I	MATI	ON

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	

THE STATE OF THE S	
CONSTRUCTION	
Borehole interval:	Borehole diameter:
from0 to250 ft	
fromto ft	in.
Casing height above lan	d surface: 31 in.
If casing height is les has a variance been	ss than 12 in. approved?* □ Yes ✔ No
*variance not requir or environmental re	emediation wells
Casing type:Tl	nermalPlastic
Blank casing interval:	0 ft. to240 ft.
Blank casing diameter:	2.38_in.
Casing joints:	Threaded
Weight: .72	lbs/ft.
Wall thickness or ga	uge no.:SCH 40_
Blank casing interval:	ft. toft.
Blank casing diameter:	in.
Casing joints:	
Weight:	_lbs/ft.
Wall thickness or gas	age no.:
Grout interval: 0	
Grout material:	Bentonite
Grout interval:	ft. toft.
Grout material:	
	DVC

Screen / perforation material:	rvc
Screen / perforation openings:	Continuous slot
Screen / perforation intervals:	

From 2	40 ft. to	250 ft.		
Slot si	e01	unit	inches	
From	ft. to		ft.	
Slot si	e	unit		

Gravel	pack	in	terva	ls

Gravel	pack n	ot used	: 🗆	Gravel size	#40 in
From	230	ft. to	25	0 ft.	
Gravel	nack n	ot used	. п	Gravel size	in

Gravel	pack not used:	Gravel size	in
From	ft. to	ft.	

Other PIEZOMETER	Source:
COMPLETION	Distance from well:
Depth of completed well:	Source description:
(1) ft.; (2) ft.;	Source:
(3) ft.; (4) dry well	Distance from well:
Static water level in well: 93 ft. # measured below land surface on (mm/dd/yy): 12/02/2022	Source description:
measured above land surface on (mm/dd/yy):	✓ No potential s within 100 fee
Estimated yield:gpm	PERMIT & ID NUM
Water level was: ft. after hours	DWR Application
pumpinggpm	KDHE / EPA Pro
Pump installed? ☐ Yes No	Site Name:
	KDHE UIC Class
Water well disinfected? ☐ Yes ☐ No	County Permit-

Direction from well:
Direction from well:

DWR Application	on No.:
KDHE / EPA Pr	oject Code:
Site Name:	CHESTNUT DEEP
KDHE UIC Clas	ss V Form Completed: 🗆 Yes 🗆 No
County Permit:	☐ Yes ☐ No Permit ID:
Lease Name & V	Vell #:
# of boreholes: _	# of dewatering wells:

Aquifer, if known: LITHOLOGIC LOG

Date disinfected (mm/dd/yy): ___

FROM	то	LITHOLOGY INTERVALS
Attache	Attache	Attached

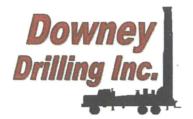
COMMENTS

CONTRACTOR'S OR LANDOWNERS CERTIFICATION

This water well was constructed √ recon	structed	pursuant to the state	ed water well
contractor's license and was completed on	12/02/2022	I certify that this re	cord is true to
the best of my knowledge and belief. This wa	ter well recor	d was completed on _	01/09/2023
under the business name of	Downey D	rilling, Inc. #748	
Kansas Water Well Contractor's License No.	748	under the authority o	of the designated
person as defined in K.A.R. 28-30-2(j) and si	gned and cer	tified by the electroni	c signature of the
designated person at its submittal: The	omas Downe	у .	

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

NO S NO C NO S NO C NO C NO C NO S NO C NO C NO C NO C	OTHER / DRILLING ACTION SMOOTH CHATTER SMOOTH CHATTER SMOOTH CHATTER SMOOTH CHATTER
NO S NO C NO S NO C	SMOOTH CHATTER SMOOTH CHATTER SMOOTH
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NO C	HATTER
NO S	
	CHATTER
40 C	SMOOTH
	CHATTER
NO S	SMOOTH
NO C	CHATTER
NO S	SMOOTH
NO C	CHATTER
NO S	SLIGHT CHATTER
NO S	SMOOTH
YES C	CHOPPY
YES S	SMOOTH
	CEC
RESOUR	ULU
N N	0 S 0 S ES 0



DRILLER BRENT METHOD STR MUD ROTARY <u>PROJECT</u> CITY OF GARDEN CITY, KS

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'

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 AMOUNT: 1000#

GROUT

TYPE: NA AMOUNT: NA

SEALS: AMT & TYPE:

BOT:

MID: 0-230'

TOP:

TYPE: 3500# HOLE PLUG

SITE#: CHESTNUT

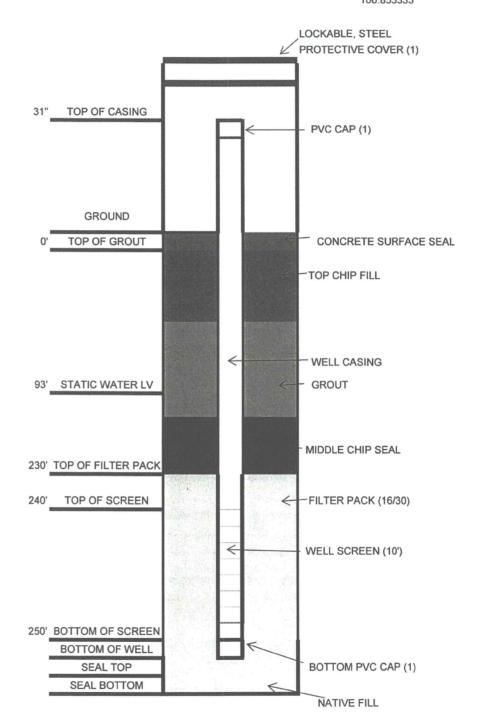
TH#: DEEP WELL

WELL DEVELOPMENT

METHOD: AIR LIFT DURATION: 1 HOUR

COMMENTS:

2X2 CONCRETE PAD







GARDEN CITY CHESTNUT SITE

COMPANY

: DOWNEY DRILLING INC

WELL

: GARDEN CITY CHESTNUT SIT TH #1 DEE

LOCATION/FIELD

: FINNEY

: 17

COUNTY LOCATION

: NWSE

SECTION

TOWNSHIP

: 24S

OTHER SERVICES:

RANGE: 32W

DATE

: 12/02/22

: 295

: 293.10 : 0.30

LOG MEASURED FROM: GL

PERMANENT DATUM : GL

DRL MEASURED FROM: GL

KB DF

GL

CASING DIAMETER: 10.

CASING TYPE

DEPTH DRILLER

LOG BOTTOM

LOG TOP

CASING THICKNESS:

LOGGING UNIT : 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

RM

FIELD OFFICE

: MUD

: 49

FILE : ORIGINAL

50

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





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

: 293.10

: 295

LOG MEASURED FROM: GL

DF

LOG TOP

: 0.30

DRL MEASURED FROM: GL

GL

CASING DIAMETER: 10.

CASING TYPE CASING THICKNESS: LOGGING UNIT

: 1903

FIELD OFFICE

: DDI

RECORDED BY

: BRENT

BIT SIZE

: 6.25

BOREHOLE FLUID

: MUD

FILE : ORIGINAL

MAGNETIC DECL. : 0

RM

TYPE : 8144A

MATRIX DENSITY : 2.71

RM TEMPERATURE

LGDATE: 12/02/22

NEUTRON MATRIX : LIMESTON

MATRIX DELTA T

: 49

LGTIME: 10:39:

THRESH: 99999

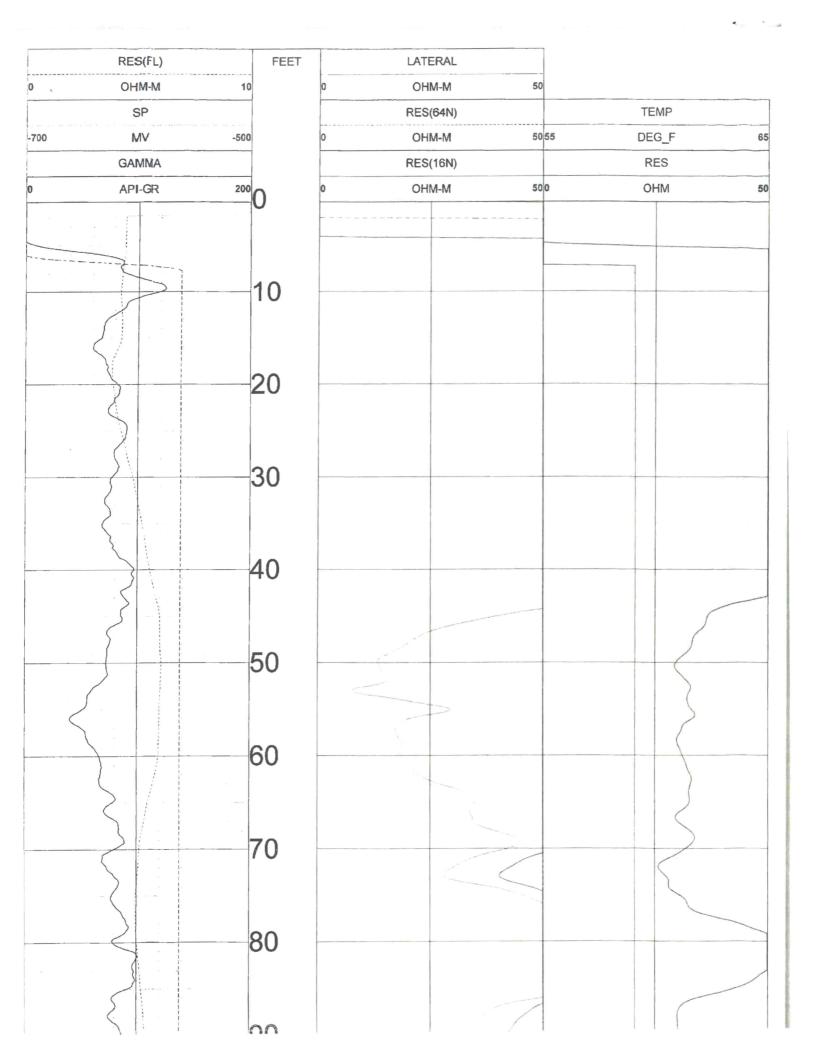
N 37.57'55" W -100 51'12"

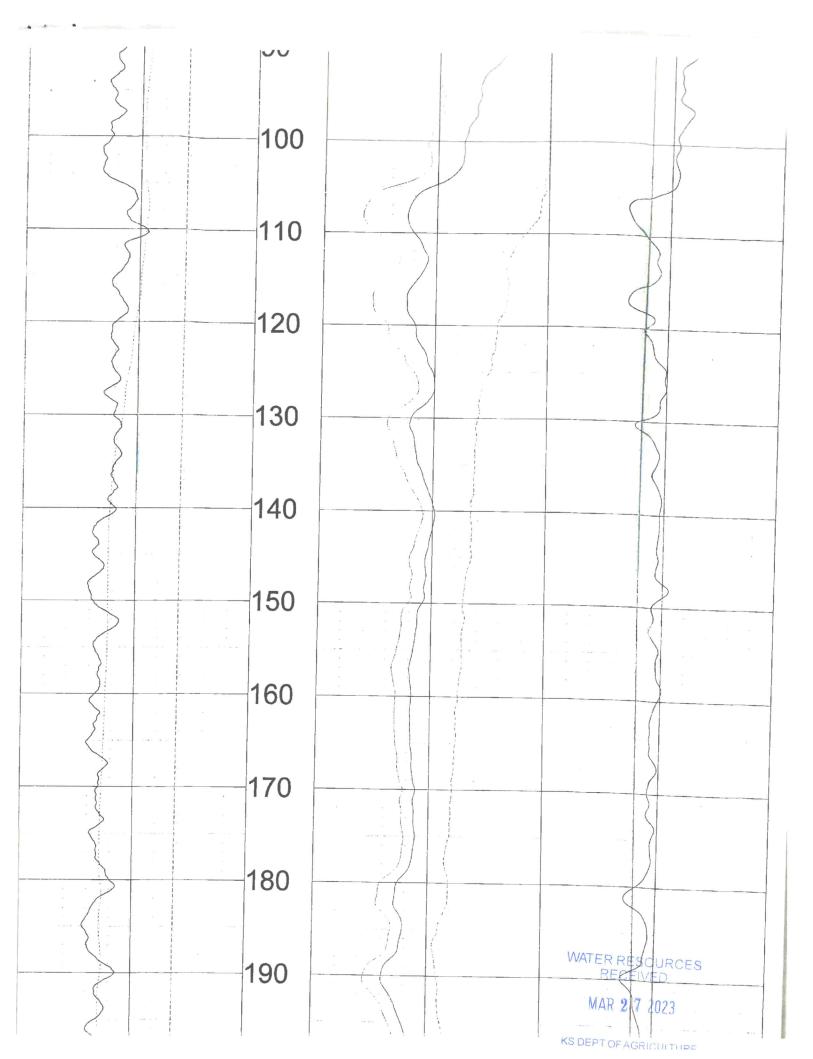
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

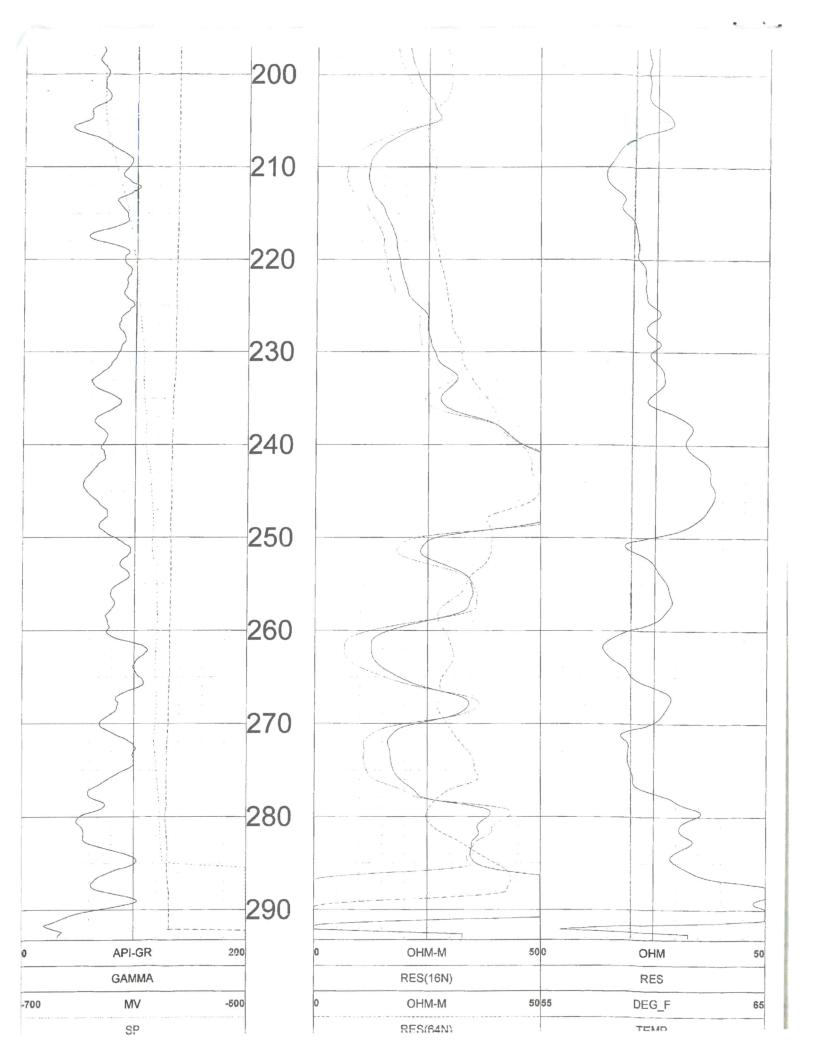
WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE











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.	mag	

Electrical Conductivity, mmho/cm

0.69

8.0 411

Cations / Anions, me/L

8.1 / 7.5

	ppm
Sodium, Na	49
Potassium, K	4
Calcium, Ca	76.7
Magnesium, Mg	25
Total Hardness, CaCO ₃	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, CaCO3	131
Fluoride, F	0.64
Total Iron, Fe	< 0.01
Manganese, Mn	< 0.01

"<" - Not Detected / Below Detection Limit

WATER RESOURCES RECEIVED

MAR 2 7 2023

KS DEPT OF AGRICULTURE

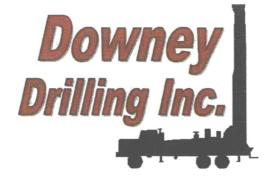
Reviewed By: Raymond Ward

12/23/2022

Copy: 1

Page 3 of 8

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	WELL ID
\checkmark	Original Record	☐ Correction	☐ Change in Well Use

	TION		

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
Address	PO BOX 998
	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	rface: 32 in.
If casing height is less that has a variance been appr	an 12 in. oved?* □ Yes ✔ No
*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 1	no.: SCH 40
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	ft.
Grout material:	

Screen / perforation material: PVC
Screen / perforation openings: Continuous slo
Screen / perforation intervals:
From 145 ft. to 155 ft.
Slot size01unit _inches
Fromft. toft.
Slot sizeunit
Gravel pack intervals:
Gravel pack not used: ☐ Gravel size #40 i
From 140 ft. to 155 ft.
Gravel pack not used: ☐ Gravel sizei
From ft. to ft.

WELL WATER USE	NEAREST SOURCE OF POTENTIAL CONTAMINATION
Other PIEZOMETER	Source:
COMPLETION	Distance Direction from well:
Depth of completed well:155_ft. Depth(s) groundwater encountered:	Source description:
(1) ft.; (2) ft.;	Source:
(3) ft.; (4)	Distance Direction from well:
Static water level in well:87_ft.	Source
✓ measured below land surface on (mm/dd/yy): 12/06/2022	description:
measured above land surface on (mm/dd/yy):	✓ No potential source of contamination within 100 feet.
Fabina de desiral	PERMIT & ID NUMBERS (AS REQUIRED)
Estimated yield: gpm Water level was: ft. after hours	DWR Application No.:
pumpinggpm	KDHE / EPA Project Code:
Pump installed? ☐ Yes ✓ No	Site Name: CHESTNUT SHALLOW
	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 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

DATE: 12/6/2022

Downey Drilling Inc.

CUSTOMER	NA AA E.	CITY	OFC	APDEN	CITY	KC
COSIONIEK	INAME.	CIII	Ur G	AKDEN	CIII	V2

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	TYPE	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					
						Ì		
\exists								
\neg								



DRILLER RYAN

METHOD

STRAIGHT MUD

CASING

TYPE: **FLUSH JOINT PVC**

DIAMETER:

LENGTH: 145' + 32"

SCREEN

TYPE: FLUSH JOINT PVC DIAMETER: 2" LENGTH: 10' SLOT SIZE 0.01

FILTER PACK

TYPE: #40 RED FLINT AMOUNT: 1200 LBS

GROUT

TYPE: AMOUNT:

SEALS: AMT & TYPE:

BOT:

MID: 0-140'

TOP:

TYPE: 3/4" HOLE PLUG

SITE#: CHESTNUT

TH#: SHALLOW

WELL DEVELOPMENT

METHOD: AIR LIFT DURATION: 1 HOUR

COMMENTS:

2X2 CONCRETE PUD 1 WELL PROTECTOR

PROJECT CITY OF GARDEN CITY COUNTY **FINNEY**

LOGGED BY

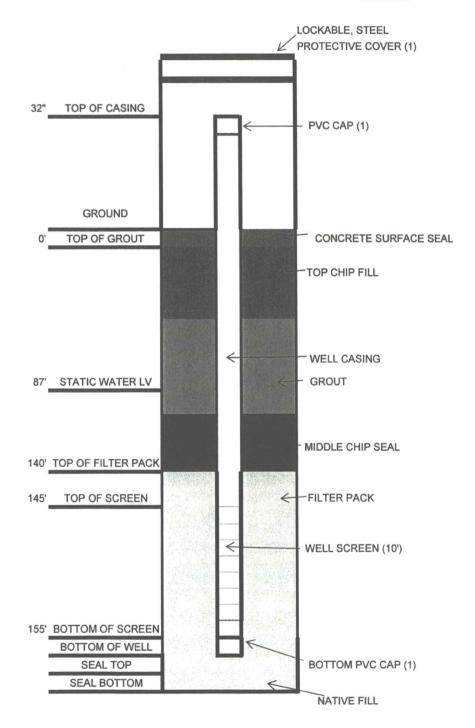
ADAM

SHALLOW / CHESTNUT LAND LEGAL NWSE 17-24S-32W BOREHOLE DIA. 6.25"

WELL NUMBER

DATE CONSTRUCTED 12/6/2022 **TOTAL DEPTH** 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 : Date Reported :

12/19/2022 12/20/2022

Lab Number:

30520

Results For: 22-1432

Location:

Sample ID: CN SHALLOW

рΗ

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

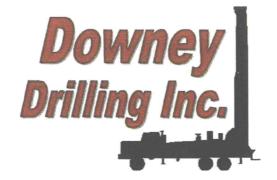
12/23/2022

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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 WELL RECORD (WW	VC-5	1
------------------------------	------	---

Constructed

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

LOCA	TION	OF W	ATED	TAKET I

LOCATION	OF WATER WELL	•														
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	у										

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 th has a variance been app	
*variance not required for or environmental reme	diation wells
Casing type: Therr	
Blank casing interval:	
Blank casing diameter: 2	.38 in.
Casing joints:	Threaded
Weight:72_lbs	s/ft.
Wall thickness or gauge	
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:	

Grout interval: ft. to ft.
Grout material:
DVC
Screen / perforation material: PVC
Screen / perforation openings: Continuous slot
Screen / perforation intervals:
From 190 ft. to 200 ft.
Slot size01unit _inches
From ft. to ft.
Slot size unit
Gravel pack intervals:
Gravel pack not used: Gravel size #40 in
From 185 ft. to 200 ft.
Gravel pack not used: Gravel size ir
From ft. to ft.

WELL WATER USE	NEAREST SOURCE OF POTENTIAL CONTAMINATION
Other PIEZOMETER	Source:
COMPLETION	Distance Direction from well: from well:
Depth of completed well:ft. Depth(s) groundwater encountered:	Source description:
(1) ft.; (2) ft.;	Source:
(3) ft.; (4)	Distance Direction from well:
Static water level in well: 87.9 ft.	Source
✓ 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.
	PERMIT & ID NUMBERS (AS REQUIRED)
Estimated yield:gpm	DIA/D Application No.
Water level was: ft. afterhours	DWR Application No.:
pumping gpm	KDHE / EPA Project Code:
Pump installed? ☐ Yes No	Site Name: CHESTNUT MIDDLE
Water well disinfected? ☐ Yes ☐ No	KDHE UIC Class V Form Completed: ☐ 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	

LITHOLOG	THOLOGIC LOG								
FROM	то	LITHOLOGY INTERVALS							
Attache	Attache	Attached							

COMMENTS

CONTRA	CTOR'S OR I	ANDOWNERS CER	TIFICATION

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

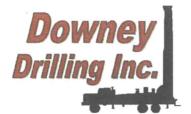
Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka KS 66612-1367 (785) 296-3565 | K.S.A. 82a-1212 | v2022c

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	СНОРРУ
	205	210	SANDY CLAY	SOFT	BROWN	FAST	NO	SMOOTH
			6 CUPS SODA ASH					
			QUIK GEL - 8 BAGS					
			QUIK TROL - NONE					
			EZ MUD5 GALLON					
						-		
				-		-		
	7					-		
					1			



DRILLER **RYAN**

METHOD STR MUD ROT

PROJECT CITY OF GARDEN CITY

> COUNTY FINNEY LOGGED BY **ADAM**

> > **SEAL BOTTOM**

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:

LENGTH:

190' + 32"

SCREEN

TYPE:

2" DIAMETER: LENGTH: 10' SLOT SIZE

TYPE: AMOUNT: #40 RED FLINT

GROUT

TYPE: AMOUNT:

BOT:

0-185'

TOP:

TYPE: 3/4" HOLE PLUG

SITE#: TH#:

METHOD:

2X2 CONCRETE PAD

FLUSH JOINT PVC

0.01

FILTER PACK

1000LBS

SEALS: AMT & TYPE:

MID:

CHESTNUT MIDDLE

WELL DEVELOPMENT

DURATION:

AIR LIFT 1 HOUR

COMMENTS:

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 4 - WELL CASING - GROUT 87.9' STATIC WATER LV MIDDLE CHIP SEAL 185' TOP OF FILTER PACK 190' TOP OF SCREEN FILTER PACK (16/30) < WELL SCREEN (10') 200' BOTTOM OF SCREEN **BOTTOM OF WELL** BOTTOM PVC CAP (1) SEAL TOP

> WATER RESOURCES RECEIVED

NATIVE FILL





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:

30519

Results For: 22-1432

Location:

Sample ID: CN MIDDLE

рΗ

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, CaCO ₃	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 web site
Fax: 308-234-1940 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). 4665

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

Krister a Baum