

# 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**



State of Kansas

*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 made for approval of the Chief Engineer to change the

- Place of Use
- (Check one or more)  Point of Diversion
- Use Made of Water

WATER RESOURCES  
RECEIVED

MAR 27 2023  
1231

KS DEPT OF AGRICULTURE

File No. 4665

2. Name of applicant: City of Garden City, Attention Water Department

Address: PO Box 998, 301 N 8<sup>th</sup> St

City, State and Zip: Garden City, KS 67846

Phone Number: (620)276-1291 E-mail address: fred.jones@gardencity.ks.us

What is your relationship to the water right;  owner  tenant  agent  other? If other, please explain. \_\_\_\_\_

Name of water use correspondent: SAME

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): \_\_\_\_\_

Loss of production due to mechanical failure in current well and need to relocate. Not adequate space on current property

The change(s) (was) (will be) completed by As soon as approved

(Date)

For Office Use Only:														
F.O. Code	<u>4</u>	GMD	<u>3</u>	Meets K.A.R. 5-5-1	<input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO	Use	<u>MUN</u>	Source	<input checked="" type="checkbox"/> G / <input type="checkbox"/> S County	FI	By	<u>ALB</u>	Date	<u>3/28/23</u>
Code	<u>CGT</u>	Fee \$	<u>200</u>	TR #		Receipt Date	<u>3/27/23</u>	Check #	<u>139397</u>					

3/29/2023  
LMoody

Assisted by: GMD3/JLN

4. The presently authorized place of use is:

Owner of Land — NAME: No Change

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

List any other water rights that cover this place of use. \_\_\_\_\_

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

List any other water rights that cover this place of use. \_\_\_\_\_

(If there are more than two landowners, attach additional sheets as necessary.)

5. It is proposed that the place of use be changed to:

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

List any other water rights that cover this place of use. \_\_\_\_\_

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

List any other water rights that cover this place of use. \_\_\_\_\_

6. The presently authorized point(s) of diversion (is) (are) 7 wells and discharge  
(Provide description and number of points)

7. The proposed point(s) of diversion (is) (are) 7 wells and discharge  
(Provide description and number of points)

**List all presently authorized point(s) of diversion:**

8. **Presently authorized point of diversion:**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the SW Quarter  
 of Section 17, Township 24 South, Range 32 W,  
 in Finney County, Kansas, 2515 feet North 3330 feet West of Southeast corner of section.  
 Authorized Rate 465gpm Authorized Quantity 203.79AF blanket authority (Limited)  
 (DWR use only: Computer ID No. 22 GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  
**Proposed point of diversion: (Complete only if change is requested)**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter  
 of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W),  
 in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
 Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_  
 This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

9. **Presently authorized point of diversion:**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the SE Quarter  
 of Section 17, Township 24 South, Range 32 W,  
 in Finney County, Kansas, 1710 feet North 2175 feet West of Southeast corner of section.  
 Authorized Rate 420gpm Authorized Quantity 203.79AF blanket authority (Limited)  
 (DWR use only: Computer ID No. 24 GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  
**Proposed point of diversion: (Complete only if change is requested)**  
 One in the SE Quarter of the NW Quarter of the SE Quarter  
 of Section 17, Township 24 South, Range 32 w,  
 in Finney County, Kansas, 1734 feet North 1779 feet West of Southeast corner of section.  
 Proposed Rate 420gpm Proposed Quantity 203.79AF blanket authority (Limited)  
 This point is:  Additional Well  Geo Center List other water rights that will use this point 519, 1230, 4665

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 North 2035 feet West of Southeast corner of section.  
 Authorized Rate 1205gpm Authorized Quantity 203.79AF blanket authority (Limited)  
 (DWR use only: Computer ID No. 19 GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  
**Proposed point of diversion: (Complete only if change is requested)**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter  
 of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ W,  
 in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North 2 feet West of Southeast corner of section.  
 Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_  
 This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used. \_\_\_\_\_  
Proper plug once new well is completed

WATER RESOURCES  
RECEIVED  
MAR 27 2023  
KS DEPT OF AGRICULTURE

**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

WATER RESOURCES  
RECEIVED

MAR 27 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

MAR 27 2023

**Presently authorized point of diversion:**  
One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_  
of Section 18, Township 24 South, Range 20 W,  
in Finney County, Kansas, 1950 feet North 1960 feet West of Southeast corner of section.  
Authorized Rate 780gpm Authorized Quantity 203.79AF blanket Depth of well \_\_\_\_\_ (feet)  
(DWR use only: Computer ID No. 20 GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  No change, point better described with GPS as follows:  
**Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)**  
One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_  
of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W),  
in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_ Proposed well depth (feet) \_\_\_\_\_  
This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

**Presently authorized point of diversion:**  
One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_  
of Section 18, Township 24 South, Range 32 W,  
in Finney County, Kansas, 2950 feet North 5000 feet West of Southeast corner of section.  
Authorized Rate 1200gpm Authorized Quantity 203.79AF blanket Depth of well \_\_\_\_\_ (feet)  
(DWR use only: Computer ID No. 22 GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  No change, point better described with GPS as follows:  
**Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)**  
One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_  
of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W),  
in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_ Proposed well depth (feet) \_\_\_\_\_  
This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

**Presently authorized point of diversion:**  
One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_  
of Section 13, Township 24 South, Range 32 W,  
in Finney County, Kansas, 4980 feet North 1296 feet West of Southeast corner of section.  
Authorized Rate 495gpm Authorized Quantity 203.79AF blanket Depth of well \_\_\_\_\_ (feet)  
(DWR use only: Computer ID No. 65 GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  No change, point better described with GPS as follows:  
**Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)**  
One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_  
of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W),  
in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_ Proposed well depth (feet) \_\_\_\_\_  
This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

**Presently authorized point of diversion:**  
One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_  
of Section 13, Township 24 South, Range 32 W,  
in Finney County, Kansas, 2382 feet North 1047 feet West of Southeast corner of section.  
Authorized Rate 695gpm Authorized Quantity 203.79AF blanket Depth of well \_\_\_\_\_ (feet)  
(DWR use only: Computer ID No. 67 GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)  
 This point will not be changed  This point will be changed as follows:  No change, point better described with GPS as follows:  
**Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)**  
One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_  
of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W),  
in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_ Proposed well depth (feet) \_\_\_\_\_  
This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

12. The presently authorized use of water is for MUN purposes.  
It is proposed that the use be changed to MUN purposes.

13. If changing the place of use and/or use made of water, describe how the consumptive use will not be increased.

No change needed for current consumptive use.

WATER RESOURCES  
RECEIVED

MAR 27 2023

(Please show any calculations here.)

KS DEPT OF AGRICULTURE

14. It is requested that the maximum annual quantity of water be reduced to \_\_\_\_\_ (acre-feet or million gallons).

15. It is requested that the maximum rate of diversion of water be reduced to \_\_\_\_\_ gallons per minute (\_\_\_\_\_ c.f.s.).

16. The application must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 1:24,000, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, Kansas 66047-3726 ([www.usgs.gov](http://www.usgs.gov)). The map should show the location of the presently authorized point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. The presently authorized place of use should also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate section, township, and range numbers on the map. In addition the following information must also be shown on the map.

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 Southeast corner of the section must be shown. Please be certain that the information shown on the map agrees with the information shown in Paragraph Nos. 9, 10 and 11 of the application.
- 2) If the source of supply is groundwater, please show the location of existing water wells of any kind, including domestic wells, within 1/2 mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please indicate so on the map.
- 3) If the source of supply is surface water, the names and mailing addresses of all landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.

b. If a change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be certain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.

17. Attach documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same local source of supply as to which the water right relates. This information may include statements, plats, geology reports, well logs, test hole logs, and other information as necessary information to show the above. Additional comments may be made below.

See attached plat and supporting documentation

18. If the proposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, please identify the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why the request should be granted. Attach documentation showing that granting the request will not impair existing water rights and will not prejudicially and unreasonably affect the public interest.

Waiver needed for minimum spacing, KAR 5-23-3, not met at proposed location.



**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

Any use of water that is not as authorized by the water right or permit to authorize water **before** 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 identified herein, or that I represent all such owners and am authorized to make this application on their behalf, and declare further that the statements contained herein are true, correct, and complete. By filing this application I authorize the chief engineer to permanently reduce the quantity of water and/or rate of diversion as specified in sections 14 and 15 of this application.

Dated at Garden City, Kansas, this 20<sup>th</sup> day of March, 2023.  
City of Garden City, Kansas

Fred Jones (Owner) \_\_\_\_\_ (Spouse) \_\_\_\_\_

Fred Jones, Water Resource Mgr (Please Print) \_\_\_\_\_ (Please Print) \_\_\_\_\_

\_\_\_\_\_  
(Owner) \_\_\_\_\_ (Spouse) \_\_\_\_\_

\_\_\_\_\_  
(Please Print) \_\_\_\_\_ (Please Print) \_\_\_\_\_

\_\_\_\_\_  
(Owner) \_\_\_\_\_ (Spouse) \_\_\_\_\_

\_\_\_\_\_  
(Please Print) \_\_\_\_\_ (Please Print) \_\_\_\_\_

 Notary Public  
(Please Print)  
State of Kansas  
Kacy Quintana  
My Commission Expires 10-29-24

State of Kansas }  
County of Finney } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 20<sup>th</sup> day of March, 2023.

Kacy Quintana  
Notary Public

My Commission Expires 10-29-24

**FEE SCHEDULE**

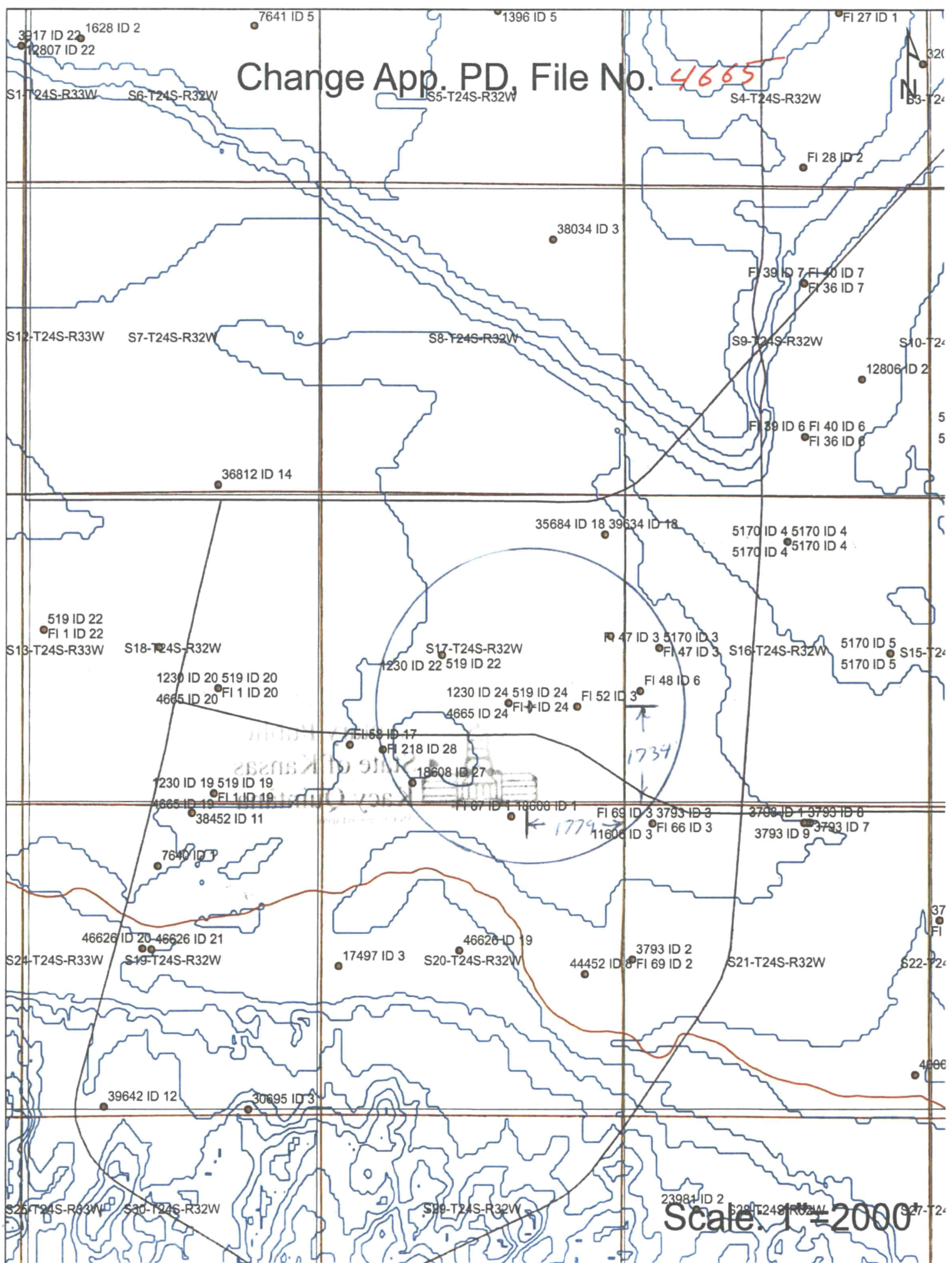
Each application to change the place of use, the point of diversion or the use made of the water under this section shall be accompanied by the application fee set forth in the schedule below:

- (1) Application to change a point of diversion 300 feet or less ..... \$100
- (2) Application to change a point of diversion more than 300 feet ..... \$200
- (3) Application to change the place of use ..... \$200
- (4) Application to change the use made of the water ..... \$300

Make check payable to **Kansas Department of Agriculture.**

WATER RESOURCES  
RECEIVED  
MAR 27 2023  
KS DEPT OF AGRICULTURE

Change App. PD, File No. 4665



Scale: 1"=2000

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

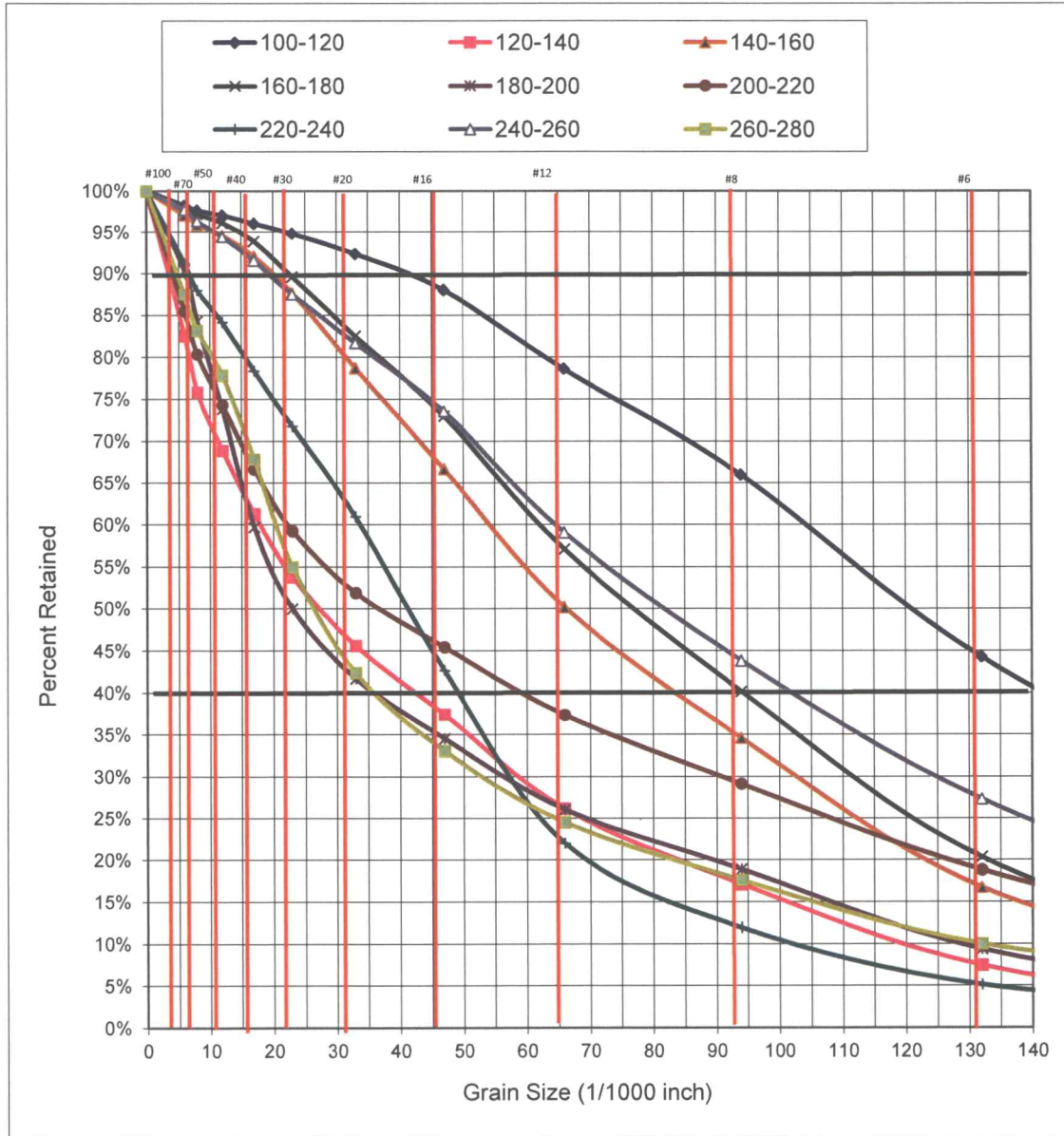
Some of the wells, such as FI 52 are listed as "Verified Report DWR" and I am not certain how they handle those.

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.

WATER RESOURCES  
RECEIVED

MAR 9 7 2023

KS DEPT OF NATURAL RESOURCES



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

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

Casing  $\phi$  16 in  
Screen  $\phi$  16 in

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.*

C10923-2

**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 Nazman (Geologist)

JOB NAME: Garden City Street Deep

LOCATION: NWSE 17-24S-32W

TEST HOLES, DIAMETER: 6 1/4

TEST HOLES, DEPTH: 295

DRILLING METHOD: Mud Rotary

DRILLING FLUID: Quik Gel

DESIRED YIELD: 600 to 800

STATIC WATER LEVEL: 93'

WELL CASING DIAMETER: 16"

WELL SCREEN DIAMETER: 16"

WELL SCREEN LENGTH: 194-207 229-260

WELL APPLICATION: Municipal

DESIGN TYPE: Naturally Developed  or Gravel Pack

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, B.DOWNEY@DOWNEYDRILLING.COM

COMMENTS: amessenger@downeydrilling.com

WATER RESOURCES  
RECEIVED

MAR 27 2023

SIEVE ANALYSIS FORM 12/30/2022

KS DEPT OF AGRICULTURE



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

WATER RESOURCES  
RECEIVED

MAR 27 2023

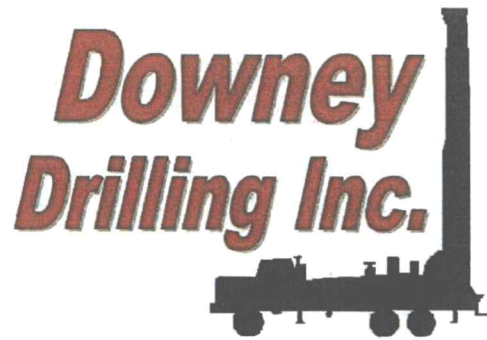
KS DEPT OF AGRICULTURE



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

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

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



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

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

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

WATER RESOURCES  
RECEIVED

MAR 27 2023

KS DEPT OF AGRICULTURE

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

Constructed

KOLAR DOC ID 1678972 WELL ID \_\_\_\_\_

Original Record  Correction  Change in Well Use

**LOCATION OF WATER WELL**

Latitude	37.965278	Longitude	-100.853333	Section	17	Township	24	Range	32	<input type="checkbox"/> E <input checked="" type="checkbox"/> W	Fraction	SE ¼ NW ¼ SE ¼
Datum	NAD83	Elevation	2831	County	Finney							

**WATER WELL OWNER**

Name	
Business	CITY OF GARDEN CITY
Address	PO BOX 998 GARDEN CT KS 67846
Well location	238 FT SOUTH FROM E LAUREL ST, 300 FT EAST
<input type="checkbox"/> at owner's address	

**WELL WATER USE**

Other **PIEZOMETER**

**COMPLETION**

Depth of completed well: 250 ft.  
 Depth(s) groundwater encountered:  
 (1) \_\_\_\_\_ ft.; (2) \_\_\_\_\_ ft.;  
 (3) \_\_\_\_\_ ft.; (4)  dry well

Static water level in well: 93 ft.  
 measured below land surface on (mm/dd/yy): 12/02/2022  
 measured above land surface on (mm/dd/yy): \_\_\_\_\_

Estimated yield: \_\_\_\_\_ gpm  
 Water level was: \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 Pump installed?  Yes  No

Water well disinfected?  Yes  No  
 Date disinfected (mm/dd/yy): \_\_\_\_\_

Aquifer, if known: \_\_\_\_\_

**NEAREST SOURCE OF POTENTIAL CONTAMINATION**

Source: \_\_\_\_\_  
 Distance from well: \_\_\_\_\_ Direction from well: \_\_\_\_\_  
 Source description: \_\_\_\_\_  
 Source: \_\_\_\_\_  
 Distance from well: \_\_\_\_\_ Direction from well: \_\_\_\_\_  
 Source description: \_\_\_\_\_  
 No potential source of contamination within 100 feet.

**CONSTRUCTION**

Borehole interval: from 0 to 250 ft. Borehole diameter: 6.25 in.  
 from \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_ in.

Casing height above land surface: 31 in.  
 If casing height is less than 12 in. has a variance been approved?\*  Yes  No  
 \*variance not required for monitoring or environmental remediation wells  
 Casing type: ThermalPlastic

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 no.: SCH 40

Blank casing interval: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Blank casing diameter: \_\_\_\_\_ in.  
 Casing joints: \_\_\_\_\_  
 Weight: \_\_\_\_\_ lbs/ft.  
 Wall thickness or gauge no.: \_\_\_\_\_

Grout interval: 0 ft. to 230 ft.  
 Grout material: Bentonite

Grout interval: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Grout material: \_\_\_\_\_

Screen / perforation material: PVC  
 Screen / perforation openings: Continuous slot  
 Screen / perforation intervals:  
 From 240 ft. to 250 ft.  
 Slot size .01 unit inches  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Slot size \_\_\_\_\_ unit \_\_\_\_\_

Gravel pack intervals:  
 Gravel pack not used:  Gravel size #40 in  
 From 230 ft. to 250 ft.  
 Gravel pack not used:  Gravel size \_\_\_\_\_ in  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**LITHOLOGIC LOG**

FROM	TO	LITHOLOGY INTERVALS
Attach	Attach	Attached

**COMMENTS**

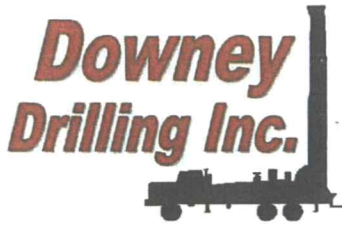
**CONTRACTOR'S OR LANDOWNERS CERTIFICATION**

This water well was constructed  reconstructed  pursuant to the stated water well contractor's license and was completed on 12/02/2022. I certify that this record is true to the best of my knowledge and belief. This water well record was completed on 01/09/2023 under the business name of Downey Drilling, Inc. #748, Kansas Water Well Contractor's License No. 748 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.

# WELL LOG

DATE: 12/2/2022



CUSTOMER NAME: CITY OF GARDEN CITY KS

LEGAL: NWSE 17-24S-32W

COUNTY: FINNEY

GPS: 37.965278 N

100.853333 W

CHESTNUT - DEEP

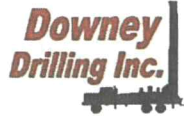
DRILLER: RYAN

WO: 22-1440

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	5	TOP SOIL	SOFT	DARK	FAST	NO	SMOOTH
	5	11	SANDY CLAY	SOFT	LI BR	FAST	NO	SMOOTH
	11	46	FINE-MED-COARSE GRAVEL	SOFT	RED/BR	FAST	NO	CHATTER
	46	73	SANDY CLAY	SOFT	LT BR	SLOW	NO	SMOOTH
	73	108	FINE-MED GRAVEL / THIN SANDY CLAY LAYERS	SOFT	RED/BR	FAST	NO	CHATTER
	108	136	SANDY CLAY / FINE-MED SAND	FIRM	LT BR	SLOW	NO	SMOOTH
	136	148	FINE-MED GRAVEL / THIN CLAY STRIPS	SOFT	RED/BR	FAST	NO	CHATTER
	148	190	FINE-MED GRAVEL	SOFT	RED/BR	FAST	NO	CHATTER
	190	194	SANDY CLAY	SOFT	LI BR	FAST	NO	SMOOTH
	194	207	MED-COARSE SAND / T FINE-GRAVEL / THIN CLAY LAYERS	SOFT	BR/RED	FAST	NO	CHATTER
	207	229	SANDY CLAY	SOFT	LT BR	FAST	NO	SMOOTH
	229	250	COARSE SAND / FINE GRAVEL	SOFT	BR/RED	FAST	NO	CHATTER
	250	254	SANDY CLAY	SOFT	LT BR	FAST	NO	SMOOTH
	254	260	COARSE SAND	SOFT	RED/BR	FAST	NO	CHATTER
	260	270	FINE-MED-COARSE SAND	SOFT	BR	FAST	NO	SLIGHT CHATTER
	270	276	SANDY CLAY	SOFT	LT BR	SLOW	NO	SMOOTH
	276	282	LIMESTONE / CLAY	HARD	WHITE	SLOW	YES	CHOPPY
	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					

WATER RESOURCES RECEIVED

MAR 27 2023



**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

**DRILLER**  
BRENT

**METHOD**  
STR MUD ROTARY

<u>CASING</u>	
TYPE:	FLUSH JOINT PVC
DIAMETER:	2"
LENGTH:	243'

<u>SCREEN</u>	
TYPE:	FLUSH JOINT PVC
DIAMETER:	2"
LENGTH:	10'
SLOT SIZE	0.01

<u>FILTER PACK</u>	
TYPE:	#40 RED FLINT
AMOUNT:	1000#

<u>GROUT</u>	
TYPE:	NA
AMOUNT:	NA

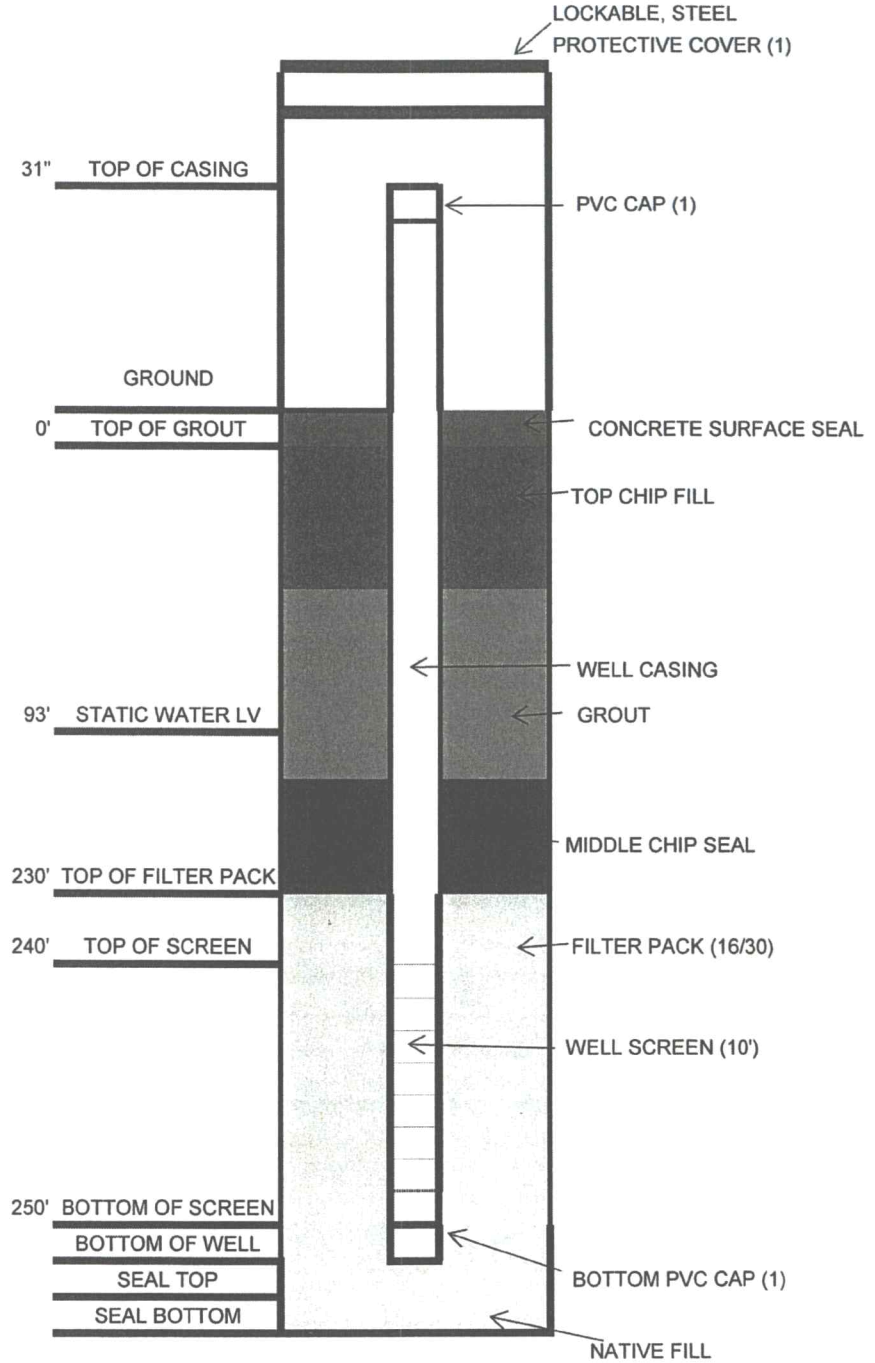
<u>SEALS: AMT &amp; TYPE:</u>	
BOT:	
MID:	0-230'
TOP:	
TYPE:	3500# HOLE PLUG

<b>SITE#:</b>	CHESTNUT
---------------	----------

<b>TH#:</b>	DEEP WELL
-------------	-----------

<u>WELL DEVELOPMENT</u>	
METHOD:	AIR LIFT
DURATION:	1 HOUR

<u>COMMENTS:</u>	
2X2 CONCRETE PAD	





# Century GEOPHYSICAL CORP.

## GARDEN CITY CHESTNUT SITE

COMPANY : DOWNEY DRILLING INC  
 WELL : GARDEN CITY CHESTNUT SIT  
 LOCATION/FIELD : TH #1 DEE  
 COUNTY : FINNEY  
 LOCATION : NWSE  
 SECTION : 17

OTHER SERVICES:

TOWNSHIP : 24S RANGE : 32W

DATE : 12/02/22  
 DEPTH DRILLER : 295  
 LOG BOTTOM : 293.10  
 LOG TOP : 0.30

PERMANENT DATUM : GL

KB :  
 DF :  
 GL :

LOG MEASURED FROM: GL  
 DRL MEASURED FROM: GL

CASING DIAMETER : 10.  
 CASING TYPE :  
 CASING THICKNESS:

LOGGING UNIT : 1903  
 FIELD OFFICE : DDI  
 RECORDED BY : BRENT

BIT SIZE : 6.25  
 MAGNETIC DECL. : 0  
 MATRIX DENSITY : 2.71  
 NEUTRON MATRIX : LIMESTON

BOREHOLE FLUID : MUD  
 RM :  
 RM TEMPERATURE :  
 MATRIX DELTA T : 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

MAR 27 2023

KS DEPT OF AGRICULTURE



# Century GEOPHYSICAL CORP.

## GARDEN CITY CHESTNUT SITE

COMPANY : DOWNEY DRILLING INC  
 WELL : GARDEN CITY CHESTNUT SIT  
 LOCATION/FIELD : TH #1 DEE  
 COUNTY : FINNEY  
 LOCATION : NWSE  
 SECTION : 17

OTHER SERVICES:  
 [Empty box for other services]

TOWNSHIP : 24S RANGE : 32W

DATE : 12/02/22  
 DEPTH DRILLER : 295  
 LOG BOTTOM : 293.10  
 LOG TOP : 0.30

PERMANENT DATUM : GL  
 LOG MEASURED FROM: GL  
 DRL MEASURED FROM: GL

KB :  
 DF :  
 GL :

CASING DIAMETER : 10.  
 CASING TYPE :  
 CASING THICKNESS:

LOGGING UNIT : 1903  
 FIELD OFFICE : DDI  
 RECORDED BY : BRENT

BIT SIZE : 6.25  
 MAGNETIC DECL. : 0  
 MATRIX DENSITY : 2.71  
 NEUTRON MATRIX : LIMESTON

BOREHOLE FLUID : MUD  
 RM :  
 RM TEMPERATURE :  
 MATRIX DELTA T : 49

FILE : ORIGINAL  
 TYPE : 8144A  
 LGDATE: 12/02/22  
 LGTIME : 10:39:  
 THRESH: 99999

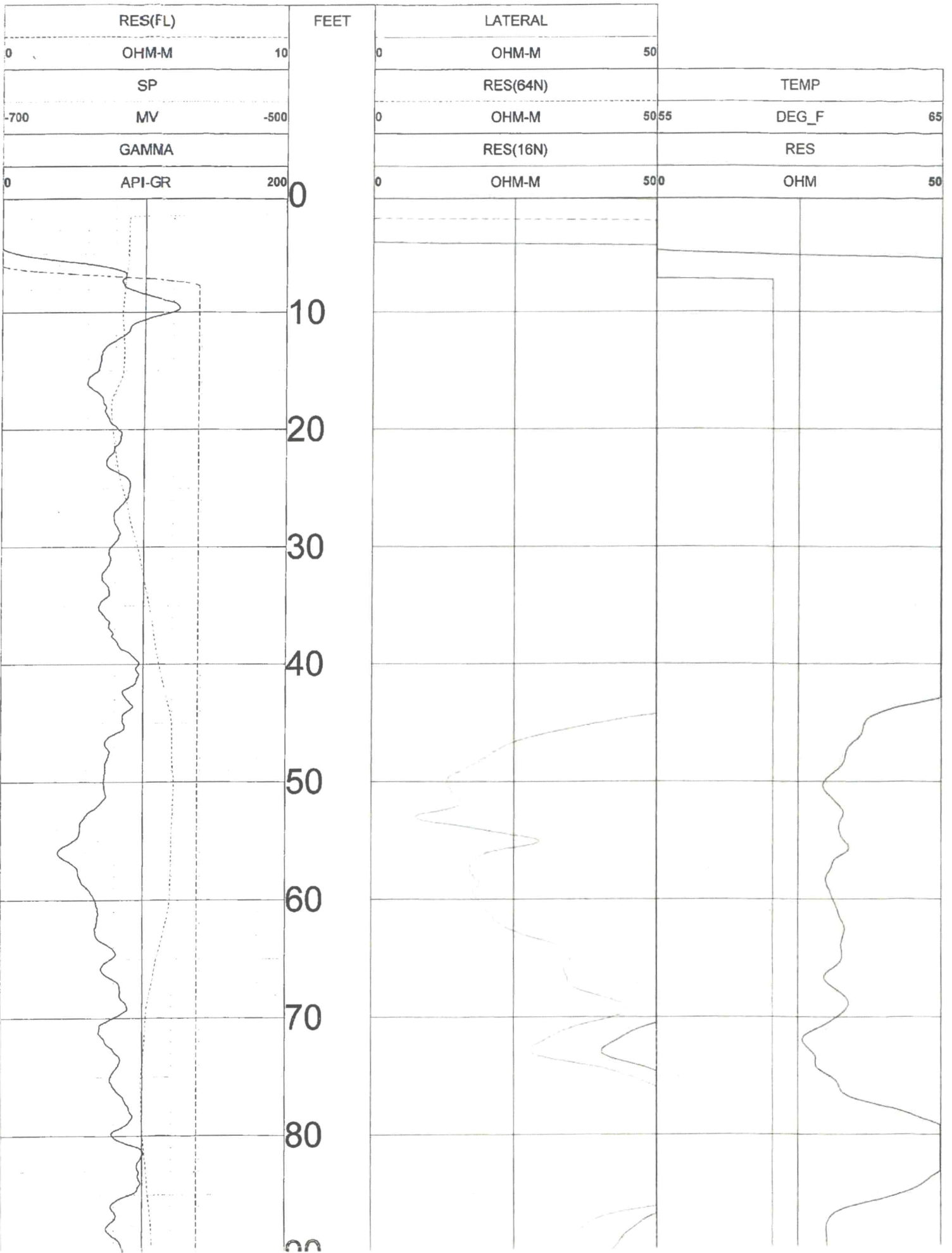
N 37.57'55"  
 W -100 51'12"

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

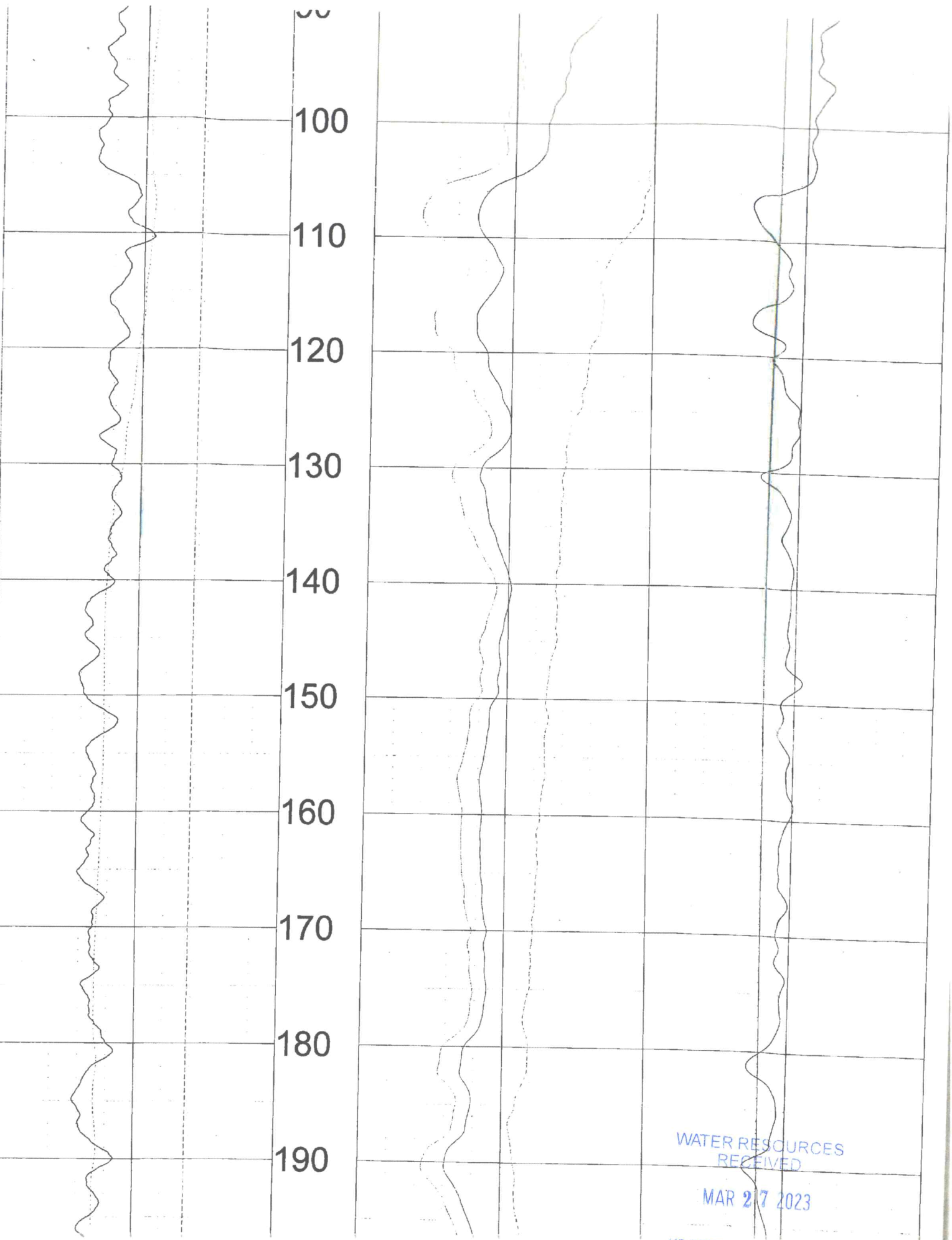
WATER RESOURCES  
 RECEIVED

MAR 27 2023

KS DEPT OF AGRICULTURE



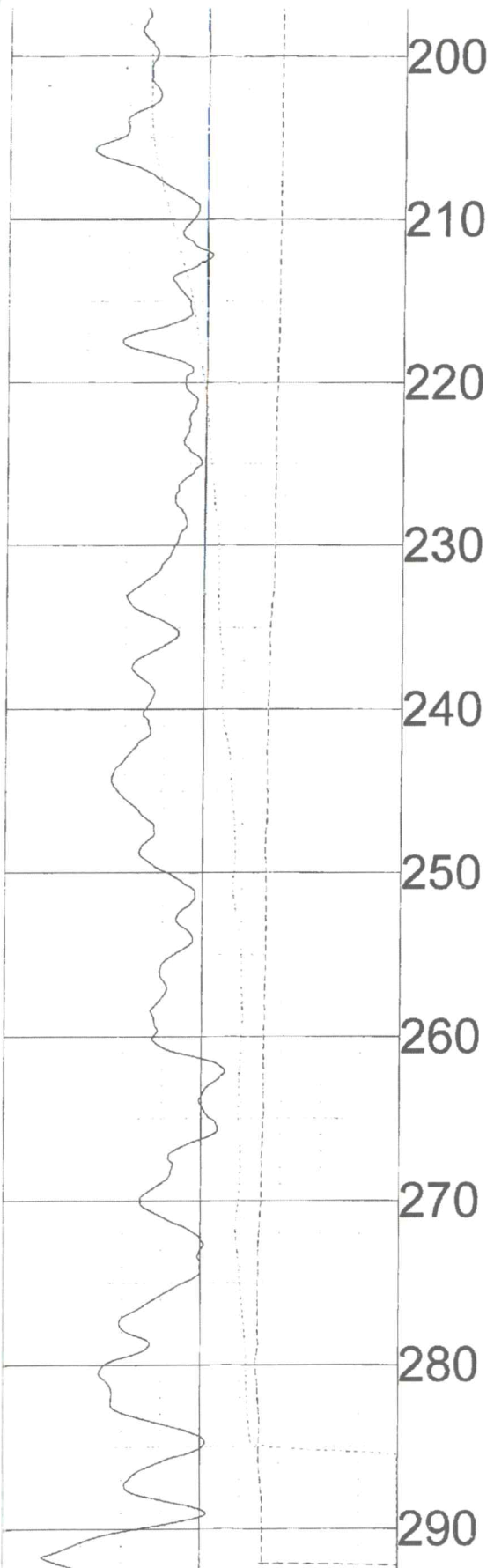




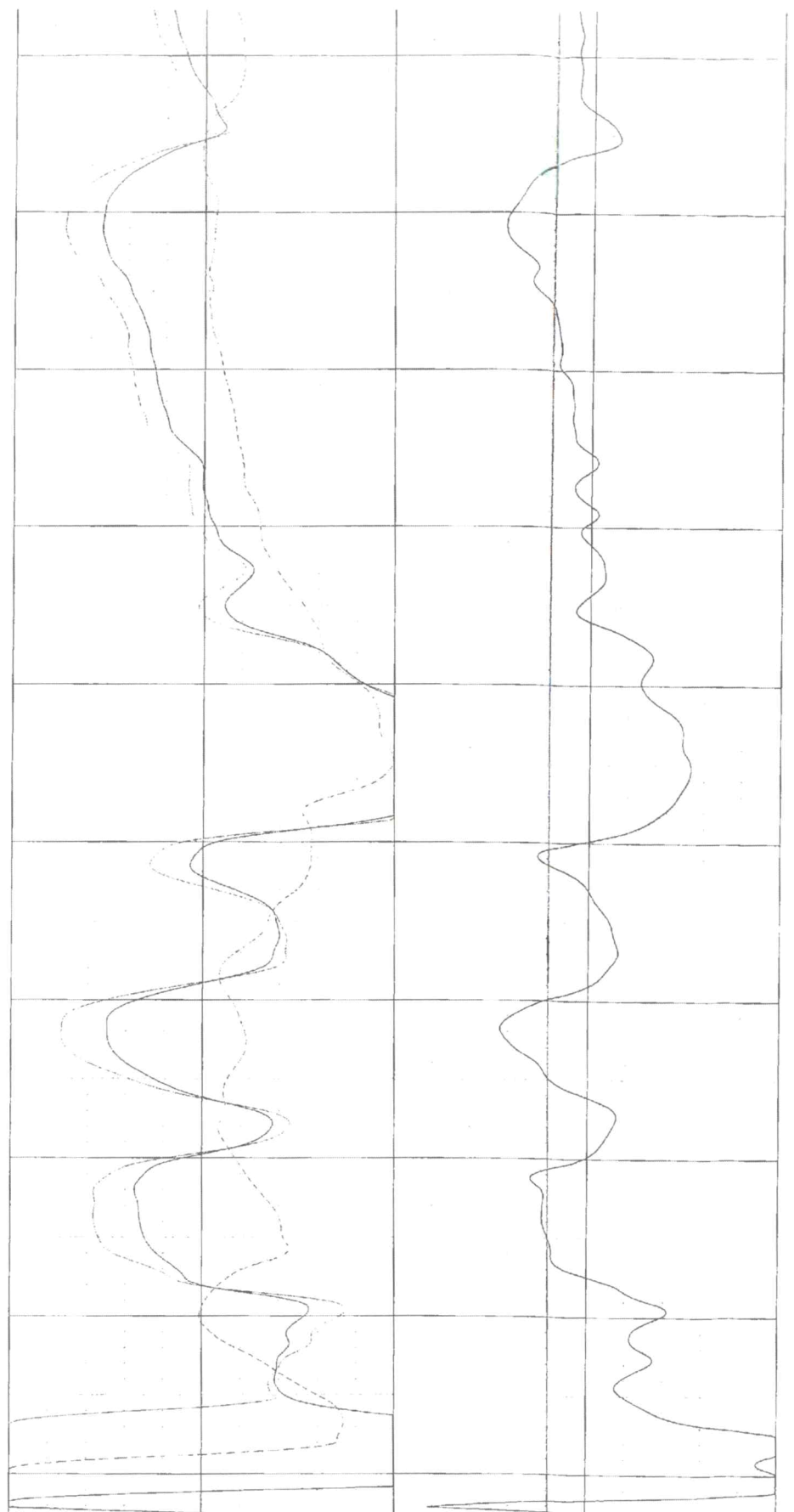
WATER RESOURCES  
RECEIVED

MAR 27 2023

KS DEPT OF AGRICULTURE



0	API-GR	200
	GAMMA	
-700	MV	-500
	SP	



0	OHM-M	500	OHM	50
	RES(16N)		RES	
0	OHM-M	5055	DEG_F	65
	RES(64N)		TEMP	

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

pH	8.0
Total Dissolved Solids (TDS) Est, ppm	411
Electrical Conductivity, mmho/cm	0.69
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 <sub>3</sub>	297
Nitrate, NO <sub>3</sub> -N	1.5 (SAFE)
Sulfate, SO <sub>4</sub> -S	66
Chloride, Cl	24
Carbonate, CO <sub>3</sub>	< 1.0
Bicarbonate, HCO <sub>3</sub>	159
Total Alkalinity, CaCO <sub>3</sub>	131
Fluoride, F	0.64
Total Iron, Fe	< 0.01
Manganese, Mn	< 0.01

"<" - Not Detected / Below Detection Limit

WATER RESOURCES  
RECEIVED

MAR 27 2023

KS DEPT OF AGRICULTURE

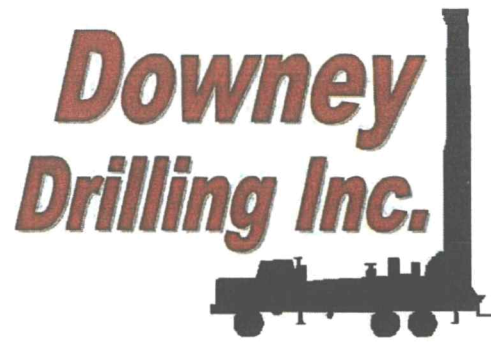
Reviewed By : Raymond Ward

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 27 2023

KS DEPT OF AGRICULTURE

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

Constructed

KOLAR DOC ID 1678995 WELL ID \_\_\_\_\_

Original Record  Correction  Change in Well Use

**LOCATION OF WATER WELL**

Latitude	37.965272	Longitude	-100.853436	Section	17	Township	24	Range	32	<input checked="" type="checkbox"/> E <input checked="" type="checkbox"/> W	Fraction	SE ¼ NW ¼ SE ¼
Datum	NAD83	Elevation	2831	County	Finney							

**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
<input type="checkbox"/> at owner's address	

**WELL WATER USE**

Other PIEZOMETER

**COMPLETION**

Depth of completed well: 155 ft.  
 Depth(s) groundwater encountered:  
 (1) \_\_\_\_\_ ft.; (2) \_\_\_\_\_ ft.;  
 (3) \_\_\_\_\_ ft.; (4)  dry well

Static water level in well: 87 ft.  
 measured below land surface on (mm/dd/yy): 12/06/2022  
 measured above land surface on (mm/dd/yy): \_\_\_\_\_

Estimated yield: \_\_\_\_\_ gpm  
 Water level was: \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 Pump installed?  Yes  No

Water well disinfected?  Yes  No  
 Date disinfected (mm/dd/yy): \_\_\_\_\_

Aquifer, if known: \_\_\_\_\_

**NEAREST SOURCE OF POTENTIAL CONTAMINATION**

Source: \_\_\_\_\_  
 Distance from well: \_\_\_\_\_ Direction from well: \_\_\_\_\_  
 Source description: \_\_\_\_\_

Source: \_\_\_\_\_  
 Distance from well: \_\_\_\_\_ Direction from well: \_\_\_\_\_  
 Source description: \_\_\_\_\_

No potential source of contamination within 100 feet.

**CONSTRUCTION**

Borehole interval: from 0 to 155 ft. Borehole diameter: 6.25 in.  
 from \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_ in.

Casing height above land surface: 32 in.  
 If casing height is less than 12 in. has a variance been approved?  Yes  No  
 \*variance not required for monitoring or environmental remediation wells  
 Casing type: ThermalPlastic

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 no.: SCH 40

Blank casing interval: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Blank casing diameter: \_\_\_\_\_ in.  
 Casing joints: \_\_\_\_\_  
 Weight: \_\_\_\_\_ lbs/ft.  
 Wall thickness or gauge no.: \_\_\_\_\_

Grout interval: 0 ft. to 140 ft.  
 Grout material: Bentonite  
 Grout interval: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Grout material: \_\_\_\_\_

Screen / perforation material: PVC  
 Screen / perforation openings: Continuous slot  
 Screen / perforation intervals:  
 From 145 ft. to 155 ft.  
 Slot size .01 unit inches  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Slot size \_\_\_\_\_ unit \_\_\_\_\_

Gravel pack intervals:  
 Gravel pack not used:  Gravel size #40 in  
 From 140 ft. to 155 ft.  
 Gravel pack not used:  Gravel size \_\_\_\_\_ in  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**LITHOLOGIC LOG**

FROM	TO	LITHOLOGY INTERVALS
Attach	Attach	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 12/06/2022. I certify that this record is true to the best of my knowledge and belief. This water well record was completed on 01/09/2023 under the business name of Downey Drilling, Inc. #748, Kansas Water Well Contractor's License No. 748 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.

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

Lithology

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

WATER RESOURCES  
RECEIVED

MAR 27 2023

KS DEPT OF AGRICULTURE





**PROJECT**  
CITY OF GARDEN CITY  
**COUNTY**  
FINNEY  
**LOGGED BY**  
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  
100.853436

**DRILLER**  
RYAN  
**METHOD**  
STRAIGHT MUD

**CASING**  
TYPE: FLUSH JOINT PVC  
DIAMETER: 2"  
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:

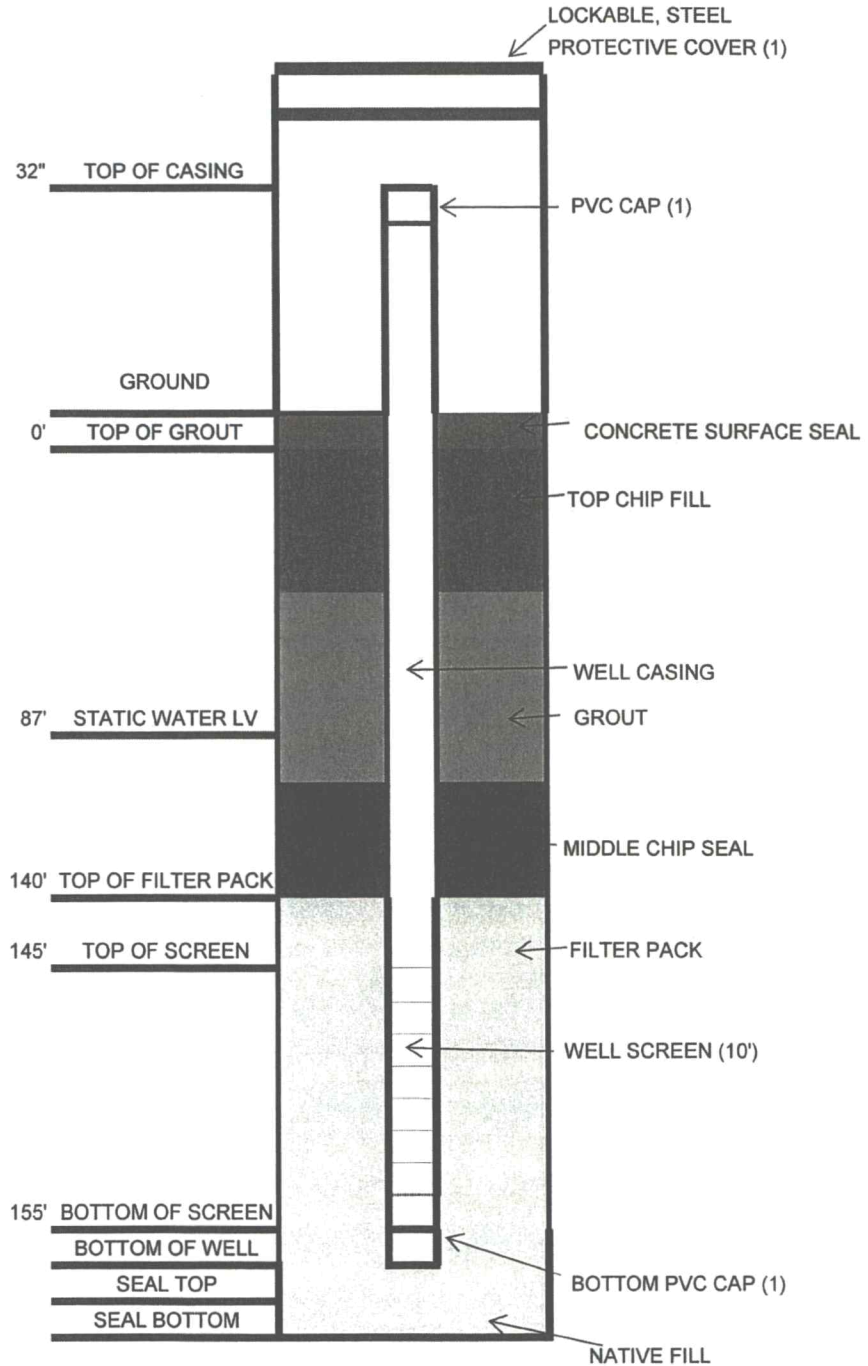
**SEALS: AMT & TYPE:**  
BOT:  
MID: 0-140'  
TOP:  
TYPE: 3/4" HOLE PLUG

**SITE#:** CHESTNUT

**TH#:** SHALLOW

**WELL DEVELOPMENT**  
METHOD: AIR LIFT  
DURATION: 1 HOUR

**COMMENTS:**  
  
2X2 CONCRETE PUD  
1 WELL PROTECTOR



WATER RESOURCES  
RECEIVED

MAR 27 2023

KS DEPT OF AGRICULTURE



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

pH	7.6
Total Dissolved Solids (TDS) Est, ppm	1632
Electrical Conductivity, mmho/cm	2.72
Cations / Anions, me/L	35.6 / 35.7

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

"<" - Not Detected / Below Detection Limit

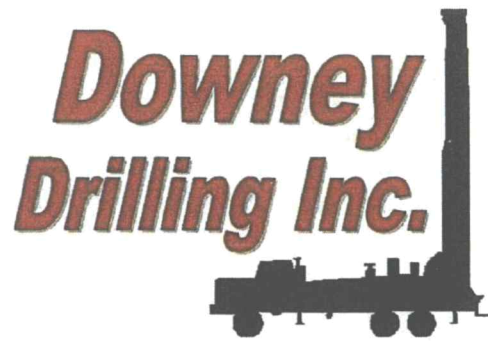
Reviewed By : Raymond Ward

12/23/2022

Copy : 1

Page 2 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  
MIDDLE MONITORING WELL

WATER RESOURCES  
RECEIVED

MAR 27 2023

KS DEPT OF AGRICULTURE

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

Constructed

KOLAR DOC ID 1678985 WELL ID \_\_\_\_\_

Original Record  Correction  Change in Well Use

**LOCATION OF WATER WELL**

Latitude	37.96528	Longitude	-100.853391	Section	17	Township	24	Range	32	<input type="checkbox"/> E <input checked="" type="checkbox"/> W	Fraction	SE ¼ NW ¼ SE ¼
Datum	NAD83	Elevation	2832	County	Finney							

**WATER WELL OWNER**

Name	
Business	CITY OF GARDEN CITY
Address	PO BOX 998 GARDEN CT KS 67846
Well location	238 FT SOUTH FROM E LAUREL ST, 280 FT EAST
<input type="checkbox"/> at owner's address	

**WELL WATER USE**

Other PIEZOMETER

**COMPLETION**

Depth of completed well: 200 ft.

Depth(s) groundwater encountered:  
 (1) \_\_\_\_\_ ft.; (2) \_\_\_\_\_ ft.;  
 (3) \_\_\_\_\_ ft.; (4)  dry well

Static water level in well: 87.9 ft.

measured below land surface on (mm/dd/yy): 12/05/2022

measured above land surface on (mm/dd/yy): \_\_\_\_\_

Estimated yield: \_\_\_\_\_ gpm

Water level was: \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm

Pump installed?  Yes  No

Water well disinfected?  Yes  No

Date disinfected (mm/dd/yy): \_\_\_\_\_

Aquifer, if known: \_\_\_\_\_

**NEAREST SOURCE OF POTENTIAL CONTAMINATION**

Source: \_\_\_\_\_

Distance from well: \_\_\_\_\_ Direction from well: \_\_\_\_\_

Source description: \_\_\_\_\_

Source: \_\_\_\_\_

Distance from well: \_\_\_\_\_ Direction from well: \_\_\_\_\_

Source description: \_\_\_\_\_

No potential source of contamination within 100 feet.

**CONSTRUCTION**

Borehole interval: from 0 to 200 ft. Borehole diameter: 6.25 in.

from \_\_\_\_\_ to \_\_\_\_\_ ft. \_\_\_\_\_ in.

Casing height above land surface: 32 in.

If casing height is less than 12 in. has a variance been approved?\*  Yes  No

\*variance not required for monitoring or environmental remediation wells

Casing type: ThermalPlastic

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: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Blank casing diameter: \_\_\_\_\_ in.

Casing joints: \_\_\_\_\_

Weight: \_\_\_\_\_ lbs/ft.

Wall thickness or gauge no.: \_\_\_\_\_

Grout interval: 0 ft. to 185 ft.

Grout material: Bentonite

Grout interval: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Grout material: \_\_\_\_\_

Screen / perforation material: PVC

Screen / perforation openings: Continuous slot

Screen / perforation intervals:  
 From 190 ft. to 200 ft.  
 Slot size .01 unit 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 \_\_\_\_\_ in

From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**PERMIT & ID NUMBERS (AS REQUIRED)**

DWR Application No.: \_\_\_\_\_

KDHE / EPA Project Code: \_\_\_\_\_

Site Name: CHESTNUT MIDDLE

KDHE UIC Class V Form Completed:  Yes  No

County Permit:  Yes  No Permit ID: \_\_\_\_\_

Lease Name & Well #: \_\_\_\_\_

# of boreholes: \_\_\_\_\_ # of dewatering wells: \_\_\_\_\_

**LITHOLOGIC LOG**

FROM	TO	LITHOLOGY INTERVALS
Attach	Attach	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 12/05/2022. I certify that this record is true to the best of my knowledge and belief. This water well record was completed on 01/09/2023 under the business name of Downey Drilling, Inc. #748, Kansas Water Well Contractor's License No. 748 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.

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

MAR 27 2023

KS DEPT OF AGRICULTURE





**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  
-100.853391

**DRILLER**  
RYAN

**METHOD**  
STR MUD ROT

<u>CASING</u>	
TYPE:	FLUSH JOINT PVC
DIAMETER:	2"
LENGTH:	190' + 32"

<u>SCREEN</u>	
TYPE:	FLUSH JOINT PVC
DIAMETER:	2"
LENGTH:	10'
SLOT SIZE	0.01

<u>FILTER PACK</u>	
TYPE:	#40 RED FLINT
AMOUNT:	1000LBS

<u>GROUT</u>	
TYPE:	
AMOUNT:	

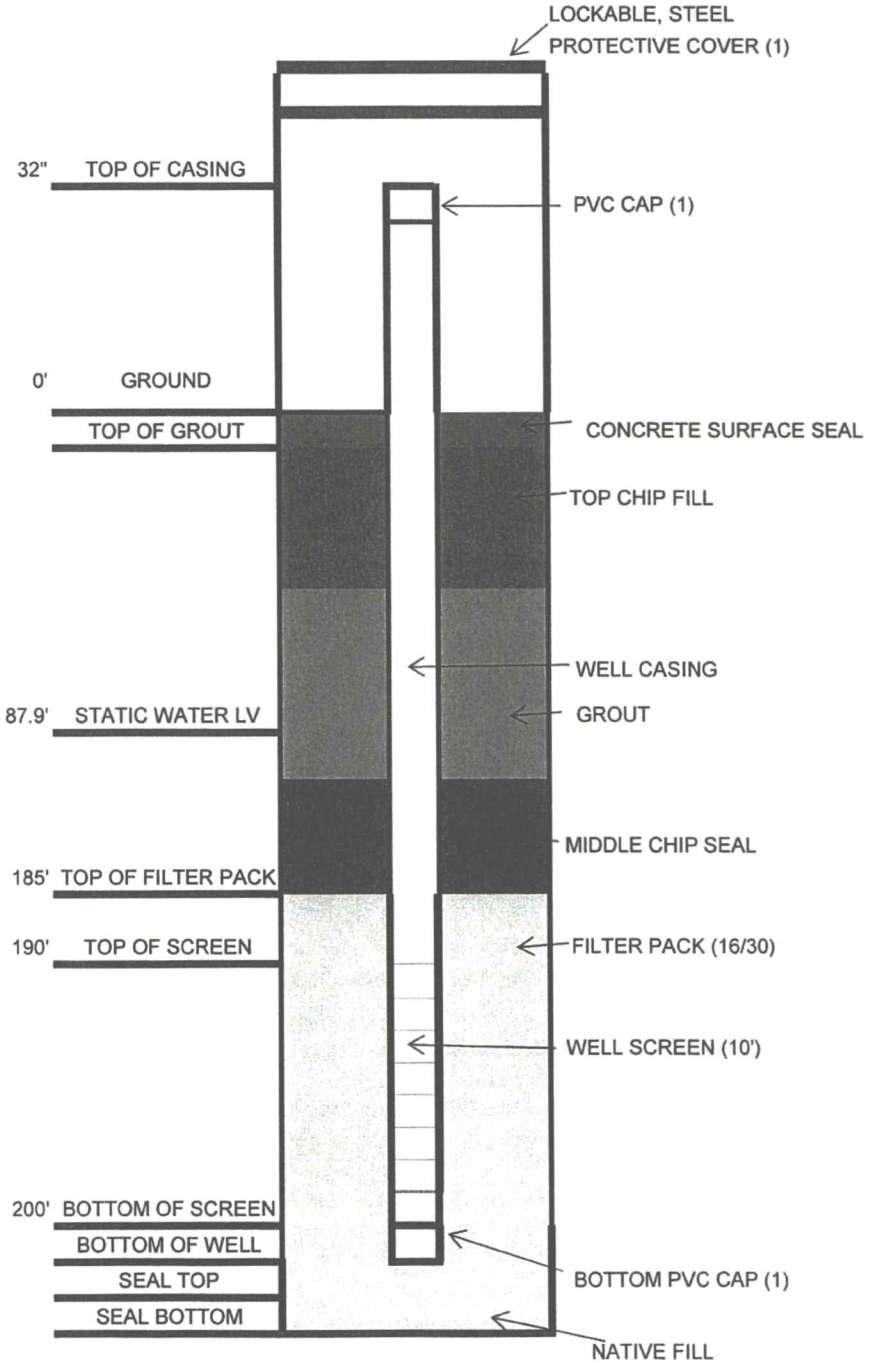
<u>SEALS: AMT &amp; TYPE:</u>	
BOT:	
MID:	0-185'
TOP:	
TYPE:	3/4" HOLE PLUG

<b>SITE#:</b>	CHESTNUT
---------------	----------

<b>TH#:</b>	MIDDLE
-------------	--------

<u>WELL DEVELOPMENT</u>	
METHOD:	AIR LIFT
DURATION:	1 HOUR

<u>COMMENTS:</u>	
2X2 CONCRETE PAD	
1 WELL PROTECTOR	



WATER RESOURCES  
RECEIVED  
MAR 27 2023  
KS DEPT OF AGRICULTURE

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

	<u>ppm</u>
Sodium, Na	263
Potassium, K	9
Calcium, Ca	350.6
Magnesium, Mg	92
Total Hardness, CaCO <sub>3</sub>	1261
Nitrate, NO <sub>3</sub> -N	4.0 (SAFE)
Sulfate, SO <sub>4</sub> -S	487
Chloride, Cl	111
Carbonate, CO <sub>3</sub>	< 1.0
Bicarbonate, HCO <sub>3</sub>	217
Total Alkalinity, CaCO <sub>3</sub>	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

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 , ATTENTION 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 [agriculture.ks.gov/divisions-programs/dwr](http://agriculture.ks.gov/divisions-programs/dwr). 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,

A handwritten signature in black ink that reads "Kristen Baum". The signature is written in a cursive style.

Kristen Baum  
New Applications and Changes Supervisor  
Water Appropriation Program