

Kansas Department of Agriculture  
 Division of Water Resources  
**CHANGE: P/D WORKSHEET**

1. File Number: <b>12323</b>	2. Status Change Date: <i>3-6-2023</i>	3. Change Num: <b>C2</b>	4. Field Office: <b>4</b>	5. GMD: <b>3</b>
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6. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return	7. Filing Date of Change: <b>3/01/2023</b>
--	---

8a. Applicant(s), Landowner, WUC, New to system <input type="checkbox"/> Person ID <u>5855</u> Add Seq# _____  <b>CITY OF GARDEN CITY</b> <b>PO BOX 998 301 N 8TH ST</b> <b>GARDEN CITY, KS 67846-0998</b>	8c. Landowner(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____
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8b. Landowner(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____	8d. WUC New to system <input type="checkbox"/> Person ID _____ Add Seq# _____
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9. Documents and Enclosure(s):  DWR Meter(s) Date to Comply: 12/31/2023     N & P Date to Comply: 3/1/2024

Anti-Reverse Meter     Meter Seal     Check Valve     N & P Form     Water Tube     Driller Copy     H & E Letter  
 Conservation Plan    Date Required: \_\_\_\_\_    Date Approved: \_\_\_\_\_    Date to Comply: \_\_\_\_\_

10. Use Made of Water    From: \_\_\_\_\_    To: \_\_\_\_\_

Date Prepared: **3/3/2023**    By: **MAM**  
 Date Entered: \_\_\_\_\_    By: \_\_\_\_\_

12. Points of Diversion  
 CHK  
 MOD  
 DEL PDIV  
 ENT  
 Qualifier      S      T      R      ID      'N      'W      Comment (AKA Line)      Rate gpm      Quantity mgy      Additional Rate gpm      Quantity mgy      Overlap PD Files

**DEL 32461**

**ENT SWNESE 36 24 33W 1744 694 WELL #1-SANDHILL #1 1450 263.613 1450 251.658 NONE**

**CHK 18645**

**CHK 20179**

**CHK 32062**

13. Storage: Rate \_\_\_\_\_ NF      Quantity \_\_\_\_\_ ac/ft      Additional Rate \_\_\_\_\_ NF      Additional Quantity \_\_\_\_\_ ac/ft

14. Limitation: \_\_\_\_\_ af/yr at \_\_\_\_\_ gpm ( \_\_\_\_\_ cfs) when combined with file number(s) \_\_\_\_\_  
 Limitation: \_\_\_\_\_ af/yr at \_\_\_\_\_ gpm ( \_\_\_\_\_ cfs) when combined with file number(s) \_\_\_\_\_

15. 5YR Allocation:      Allocation Type \_\_\_\_\_      Start Year \_\_\_\_\_      5 YR Amount \_\_\_\_\_      Amount Unit \_\_\_\_\_      Base Acres \_\_\_\_\_      Comment \_\_\_\_\_

16. Place of Use CHK MOD DEL ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files
						NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼				
<b>CHK 5915</b>																									

Base Acres:      Year:      Minimum Reasonable Quantity:  
 Comments: **ADD COND FOR WELL SEAL**

Garden City Field Office  
4532 W. Jones, Suite B  
Garden City, KS 67846



Phone: 620-276-2901  
Fax: 620-276-9315  
www.agriculture.ks.gov

Mike Beam, Secretary

Laura Kelly, Governor

March 6, 2023

CITY OF GARDEN CITY  
PO BOX 998 301 N 8TH ST  
GARDEN CITY, KS 67846-0998

RE: Field Office Application for Change  
Water Right, File No. 12323

Dear Sir:

Enclosed is an order executed by the designee of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the application for change under the above referenced file number.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in these approvals for change. A condition of this approval is that an acceptable water flow meter must be installed on the diversion works authorized under the referenced file number and meet current specifications. Please return the required notification of completion of the diversion works and installation of the required meter as soon as these actions are completed. Please note the additional well construction condition attached.

Since the order modifies the original document referred to above, it should be recorded with the Register of Deeds as other instruments affecting real estate.

The abandoned well must be plugged in accordance with the requirements of Article 30 of the Rules and Regulations as adopted by the Kansas Department of Health and Environment.

Should you have any questions, please feel free contact this office. If you would prefer, you could arrange an appointment for additional assistance.

Sincerely,

A handwritten signature in blue ink that reads "Michael A. Meyer".

Michael A. Meyer  
Water Commissioner

MAM:  
Enclosures

**CERTIFICATE OF SERVICE**

On this 6<sup>th</sup> day of March 2023, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 12,323 dated 6<sup>th</sup> day of March 2023 was mailed postage prepaid, first class, US mail to the following:

CITY OF GARDEN CITY  
PO BOX 998 301 N 8TH ST  
GARDEN CITY, KS 67846-0998

A handwritten signature in blue ink that reads "Aaron Halsted". The signature is written in a cursive style and is positioned above a horizontal line.

Division of Water Resources Staff

Submit completed application to:  
 Kansas Department of Agriculture  
 Division of Water Resources  
 Field Office for your area.

Call for address:

Topeka -- (785) 296-5733  
 Stafford -- (620) 234-5311  
 Stockton -- (785) 425-6787  
 Garden City -- (620) 276-2901  
<http://agriculture.ks.gov/dwr>

## DWR FIELD OFFICE APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF USE AND/OR THE POINT OF DIVERSION



**STATE OF KANSAS**

**Filing Fee Must Accompany the Application, K.S.A. 82a-708b(b), as amended.  
 Fee Schedule is on the third page of this application form.**

**Paragraph Nos. 1, 2, 3 & 5 must be completed. Complete all other applicable portions.** If change in point of diversion is greater than 100 feet, or if place of use will be changed, include a topographic map or detailed plat showing the authorized and proposed point(s) of diversion and/or place of use.

**RECEIVED**  
 9:45 am  
 MAR 01 2023

File No. 12323

1. Application is hereby made for approval of the Chief Engineer to change the (check one or both):

Place of Use                       Point of Diversion

Garden City Field Office  
 Division of Water Resources

under the water right which is the subject of this application in accordance with the conditions described below.

The source of supply is:                       Groundwater                       Surface water

2. Name and address of Applicant: CITY OF GARDEN CITY

PO BOX 998, 301 N 8<sup>TH</sup> ST GARDEN CITY KS 67846

Phone Number: (     ) \_\_\_\_\_

Email address: \_\_\_\_\_

Name and address of Water Use Correspondent: NO CHANGE

Phone Number: (     ) \_\_\_\_\_

Email address: \_\_\_\_\_

3. The presently authorized place of use is:

Owner of Land ---- NAME: NO CHANGE

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

(If there is more than one landowner, attach supplemental sheets as necessary.)

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	

4. If this application is for a change in place of use, it is proposed that the place of use be changed to:

Owner of Land ---- NAME: NO CHANGE

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

(If there is more than one landowner, attach supplemental sheets as necessary.)

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	

**For Office Use Only:** Code \_\_\_\_\_ Fee \$ 100.00 TR # \_\_\_\_\_ Receipt Date 3-1-23 Check # 139355

5. **Presently authorized point of diversion:**  
 One in the NC Quarter of the NE Quarter of the SE Quarter  
 of Section 36, Township 24 South, Range 33 W,  
 in FI County, Kansas, 1970 feet North 800 feet West of Southeast corner of section.  
 Authorized Rate --- Authorized Quantity --- Depth of well --- (feet)  
 (DWR use only: Computer ID No. 04 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 SW Quarter of the NE Quarter of the SE Quarter  
 of Section 36, Township 24 South, Range 33 W,  
 in FI County, Kansas, 1744 feet North 694 feet West of Southeast corner of section.  
 Proposed Rate --- Proposed Quantity --- Proposed well depth (feet) 389  
 This point is:  Additional Well  Geo Center List other water rights that will use this point ---

6. **Presently authorized point of diversion:**  
 One in the CS Quarter of the SW Quarter of the SW Quarter  
 of Section 36, Township 24 South, Range 33 W,  
 in FI County, Kansas, 50 feet North 4620 feet West of Southeast corner of section.  
 Authorized Rate --- Authorized Quantity --- Depth of well --- (feet)  
 (DWR use only: Computer ID No. 05 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 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 \_\_\_\_\_

7. The changes herein are desired for the following reasons?  
 (please be specific) \_\_\_\_\_  
 \_\_\_\_\_

8. If a well, is the test hole log attached?  Yes  No

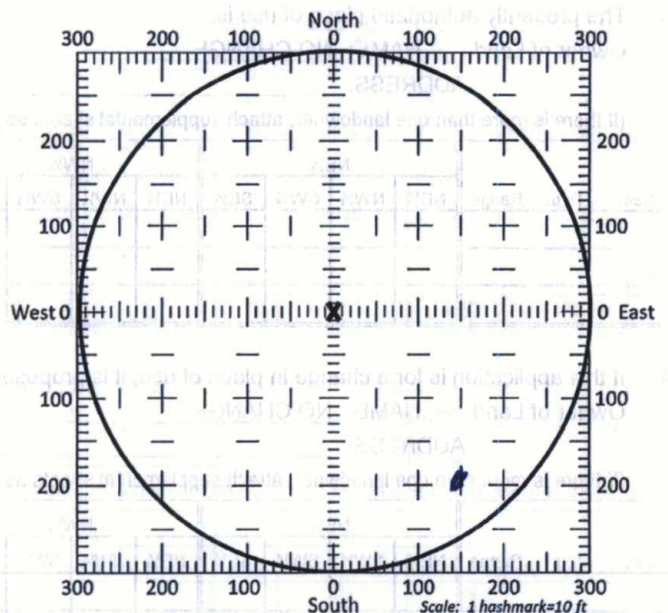
9. The change(s) (was)(will be) completed by?  
 \_\_\_\_\_

10. If the point of diversion is a well:  
 (a) What are you going to do with the old well?  
 \_\_\_\_\_  
 (b) When will this be done? \_\_\_\_\_

11. Groundwater Management District recommendation attached?  
 Yes  No

12. Assisted by MM'GCFO

13a. If the proposed point of diversion will be relocated more than 300 feet but within 2,640 feet of the existing point of diversion, attach a topographic map or aerial photograph. For groundwater sources, show all wells (including domestic) within one-half mile of the proposed point of diversion and the names and mailing addresses of the owners. For surface water sources, show the names and addresses of the landowner(s) one-half mile downstream and one-half mile upstream from your property lines



13b. If the proposed point of diversion will be relocated within a 300 foot radius of the existing point of diversion, indicate its location on the diagram shown above in relation to the existing point of diversion. The proposed point of diversion must be located within the circle shown above. (PLEASE NOTE: The "X" in center of diagram above represents the presently authorized point of diversion.)

APPLICATION FOR APPROVAL TO CHANGE  
THE PLACE OF USE AND/OR POINT OF DIVERSION  
SUPPLEMENTAL SHEET  
FILE NO. 12323

**Presently authorized point of diversion:**

One in the NC Quarter of the S2 Quarter of the SE Quarter  
of Section 1, Township 25 South, Range 33 W,  
in FI County, Kansas, 750 feet North 1450 feet West of Southeast corner of section.  
Authorized Rate --- Authorized Quantity --- Depth of well \_\_\_\_\_ (feet)  
(DWR use only: Computer ID No. 02 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)**

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 \_\_\_\_\_ 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 NC Quarter of the NE Quarter  
of Section 1, Township 25 South, Range 33 W,  
in FI County, Kansas, 3750 feet North 1400 feet West of Southeast corner of section.  
Authorized Rate --- Authorized Quantity --- Depth of well \_\_\_\_\_ (feet)  
(DWR use only: Computer ID No. 01 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)**

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 \_\_\_\_\_ 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 Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W),  
in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_ Depth of well \_\_\_\_\_ (feet)  
(DWR use only: Computer ID No. \_\_\_\_\_ 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)**

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 \_\_\_\_\_ 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 Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W),  
in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_ Depth of well \_\_\_\_\_ (feet)  
(DWR use only: Computer ID No. \_\_\_\_\_ 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)**

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 \_\_\_\_\_ Proposed well depth (feet) \_\_\_\_\_  
This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

14. If the proposed groundwater point of diversion is 300 or fewer feet from the existing point of diversion, complete the following:

- (a) Does the undersigned represent all owners of the currently authorized place(s) of use identified in this application?  
 Yes     No    (If no, all owners must sign this application.)
- (b) Will the ownership interest of any owner of the currently authorized place(s) of use identified in this application be adversely affected if this application is approved as requested?  
 Yes     No    (If yes, all owners must sign this application.)
- (c) If this application is not approved expeditiously, will there be substantial damage to property, public health or safety?  
 Yes     No    (If no, all owners must sign this application.)

If the application proposes a surface water change in point of diversion, a groundwater change in point of diversion greater than 300 feet, or a change in place of use, the application must be signed by all owners of the currently authorized place of use, or their duly authorized agent (attach notarized statement authorizing representation).

I hereby verify, being first duly sworn upon my oath or affirmation and under penalty of perjury, that I am of lawful age and the owner, the spouse of the owner, or a duly authorized agent of the owner(s) to make this application on their behalf, in regards to the water right(s) to which this application pertains. I further verify that the statements contained in this application are true, correct and complete.

Dated at Garden City, Kansas, this 23<sup>rd</sup> day of February, 2023.

City of Garden City, KS  
by Fred Jones, Water Resource Mgr.  
(Owner) (Spouse)

City of Garden City by Fred Jones  
(Please Print) Water Resource Mgr. (Please Print)

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

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

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

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

State of Kansas }  
County of Finney } SS



Notary Public  
State of Kansas  
Kaoy Quintana  
My Commission Expires 10-29-24

I hereby certify that the foregoing application was signed in my presence and signed to before me this 23 day of February, 2023.

Kaoy Quintana  
Notary Public

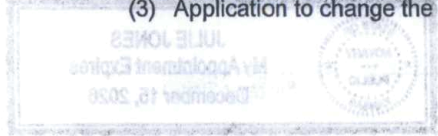
My Commission Expires 10/29/24.

**ONLY COMPLETE APPLICATIONS WILL BE PROCESSED.** To be complete, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid.

**FEE SCHEDULE**

Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: **Kansas Department of Agriculture**

- (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

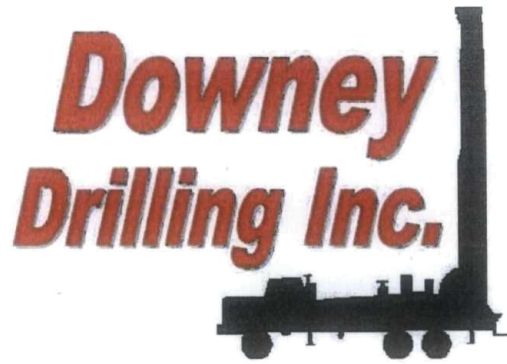








CORPORATE  
75471 ROAD 435  
LEXINGTON, NE 68850  
308-324-2303



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 36-24S-33W  
FINNEY CO  
SANDHILLS SITE  
DEEP MONITORING WELL

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

Constructed

KOLAR DOC ID 1678934 WELL ID \_\_\_\_\_

Original Record  Correction  Change in Well Use

**LOCATION OF WATER WELL**

Latitude	37.92186	Longitude	-100.88594	Section	36	Township	24	Range	33	<input type="checkbox"/> E <input checked="" type="checkbox"/> W	Fraction	SW ¼ NE ¼ SE ¼
Datum	NAD83	Elevation	2877	County	Finney							

**WATER WELL OWNER**

Name	
Business	CITY OF GARDEN CITY
Address	PO BOX 998 GARDEN CT KS 67846
Well location	400 FT EAST OF S OLD HWY 83
<input type="checkbox"/> at owner's address	

**WELL WATER USE**

Other PIEZOMETER

**COMPLETION**

Depth of completed well: 360 ft.  
 Depth(s) groundwater encountered:  
 (1) \_\_\_\_\_ ft.; (2) \_\_\_\_\_ ft.;  
 (3) \_\_\_\_\_ ft.; (4)  dry well

Static water level in well: 190 ft.  
 measured below land surface on (mm/dd/yy): 12/07/2022  
 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 <u>0</u> to <u>360</u> ft.	Borehole diameter: <u>6.25</u> in.
Blank casing interval: from _____ to _____ ft.	Blank casing diameter: <u>2.38</u> in.
Casing height above land surface: <u>32</u> in. If casing height is less than 12 in. has a variance been approved?* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No *variance not required for monitoring or environmental remediation wells	Casing type: <u>ThermalPlastic</u>
Casing joints: <u>Threaded</u>	Weight: <u>.72</u> lbs/ft.
Blank casing interval: _____ ft. to _____ ft.	Wall thickness or gauge no.: <u>SCH 40</u>
Blank casing diameter: _____ in.	Casing joints: _____
Casing joints: _____	Weight: _____ lbs/ft.
Grout interval: <u>0</u> ft. to <u>340</u> ft.	Grout material: <u>Bentonite</u>
Grout interval: _____ ft. to _____ ft.	Grout material: _____
Screen / perforation material: <u>PVC</u>	Screen / perforation openings: <u>Continuous slot</u>
Screen / perforation intervals: From <u>350</u> ft. to <u>360</u> ft. Slot size <u>.01</u> unit <u>inches</u>	
From _____ ft. to _____ ft. Slot size _____ unit _____	
Gravel pack intervals: Gravel pack not used: <input type="checkbox"/> Gravel size <u>#40</u> in	
From <u>340</u> ft. to <u>360</u> ft.	
Gravel pack not used: <input type="checkbox"/> 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 12/07/2022. 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	1678934
Well Owner	CITY OF GARDEN CITY
Contractor	Downey Drilling, Inc. #748

#### Lithology

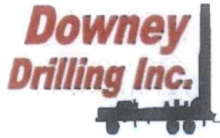
From	To	Lithology Intervals
0	2	sand, fine to coarse, tan, soft
2	8	clay, sandy, F/M/C SAND
8	30	sand, medium to coarse, red, soft
30	60	gravel, fine to medium, red, soft
60	81	gravel, fine to coarse, red, soft
81	101	clay, brown, soft
101	123	clay, fine to coarse, sandy, tan, soft
123	155	sand, fine to coarse, gravelly, red, soft
155	160	clay, fine, sandy, tan, soft
160	180	clay, fine to medium, clayey, tan, soft
180	195	clay, sandy, reddish, tan, soft
195	197	sand, fine to coarse, tan, soft
197	200	clay, sandy, tan, soft
200	215	gravel, fine to coarse, sandy, tan, soft
215	234	clay, fine to medium, white, soft
234	240	sand, fine to coarse, red, soft
240	252	clay, fine to coarse, red, soft
252	256	sand & gravel, fine to coarse, red, soft
256	260	clay, tan, soft

Form	WWC5.2 - Water Well Record
Doc ID	1678934
Well Owner	CITY OF GARDEN CITY
Contractor	Downey Drilling, Inc. #748

Lithology

From	To	Lithology Intervals
260	276	clay, fine to coarse, sandy, tan, soft
276	279	sand, fine to coarse, red, soft
279	281	clay, tan, soft
281	307	sand & gravel, fine to coarse, red, soft
307	317	sand & gravel, fine to medium, red, soft
317	330	clay, tan, soft
330	340	clay, sandy, white, hard
340	352	clay, sandy, tan, soft
352	360	sand, fine to coarse, red, soft





**DRILLER**  
RYAN

**METHOD**  
STR MUD ROTARY

**PROJECT**  
CITY OF GARDEN CITY

**COUNTY**  
FINNEY

**LOGGED BY**  
ADAM

**WELL NUMBER**  
SANDHILLS - DEEP

**LAND LEGAL**  
NWSE 36-24S-33W

**BOREHOLE DIA.**  
6.25

**DATE CONSTRUCTED**  
12/7/2022

**TOTAL DEPTH**  
360'

**GPS LOCATION**  
37.92186 N  
100.885940 W

**CASING**

TYPE: FLUSH JOINT PVC

DIAMETER: 2"

LENGTH: 350' + 32"

**SCREEN**

TYPE: FLUSH JOINT PVC

DIAMETER: 2"

LENGTH: 10'

SLOT SIZE .010 SLOT

**FILTER PACK**

TYPE: #40 RED FLINT

AMOUNT: 2500 LBS

**GROUT**

TYPE:

AMOUNT:

**SEALS: AMT & TYPE:**

BOT:

MID: 0-340'

TOP:

TYPE: 3/4" HOLE PLUG 2000#

**SITE#:** SANDHILLS

**TH#:** DEEP

**WELL DEVELOPMENT**

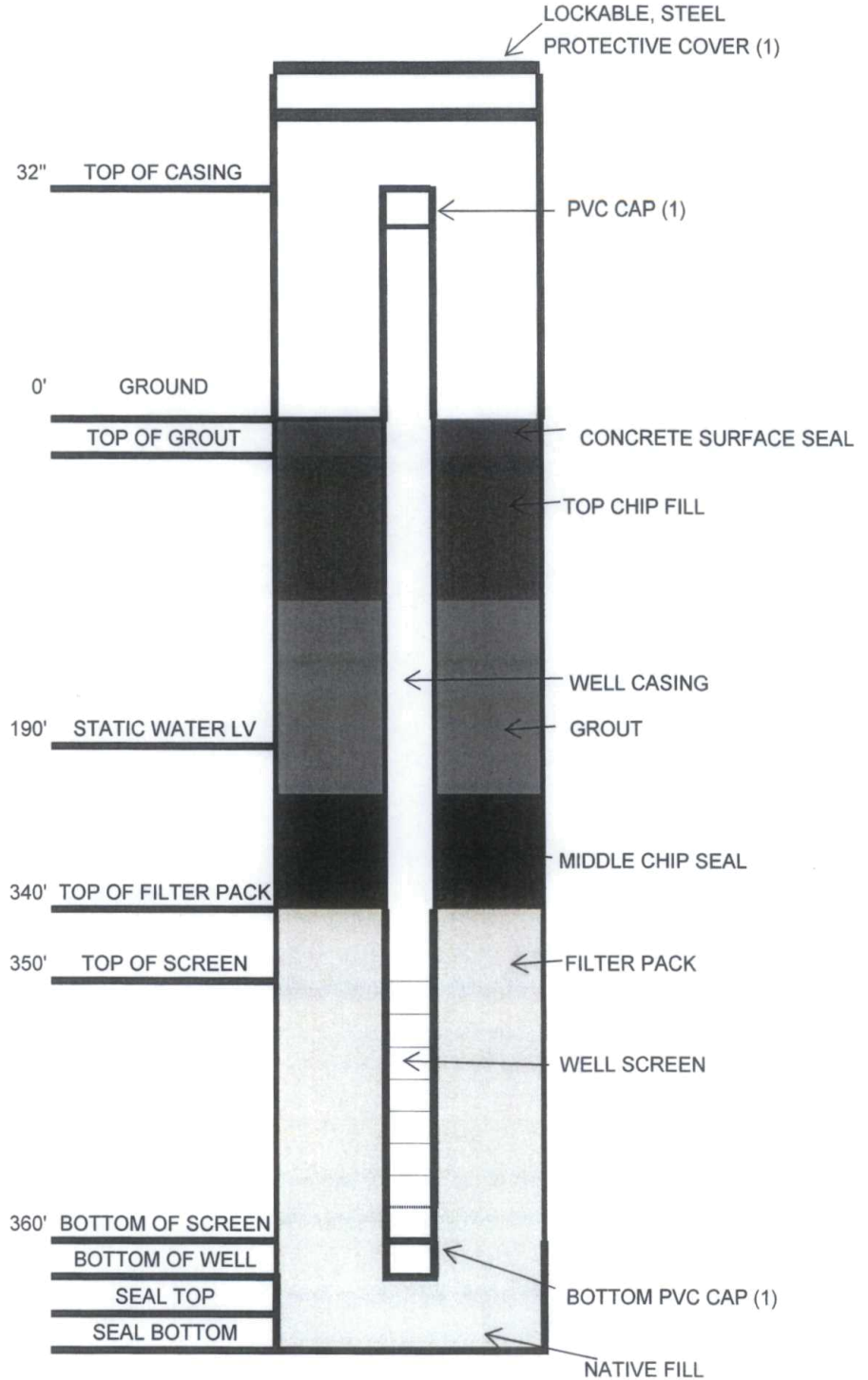
METHOD: AIR LIFT

DURATION: 1 HOUR

**COMMENTS:**

2X2 CONCRETE PAD

1 WELL PROTECTOR







# Century GEOPHYSICAL CORP.

## GARDEN CITY SANDHILLS DEEP

COMPANY : DOWNEY DRILLING INC  
WELL : GARDEN CITY SANDHILLS DEE  
LOCATION/FIELD : TH #1 DEE  
COUNTY : FINNEY  
LOCATION : NWSE  
SECTION : 36

OTHER SERVICES:

TOWNSHIP : 24S RANGE : 33W

DATE : 12/07/22  
DEPTH DRILLER : 389  
LOG BOTTOM : 386.20  
LOG TOP : 0.90

PERMANENT DATUM : GL

KB :  
DF :  
GL :

CASING DIAMETER : 10.  
CASING TYPE :  
CASING THICKNESS:

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

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: 12/07/22  
LGTIME : 13:51:  
THRESH: 99999

N 37.9218  
W 100.88594

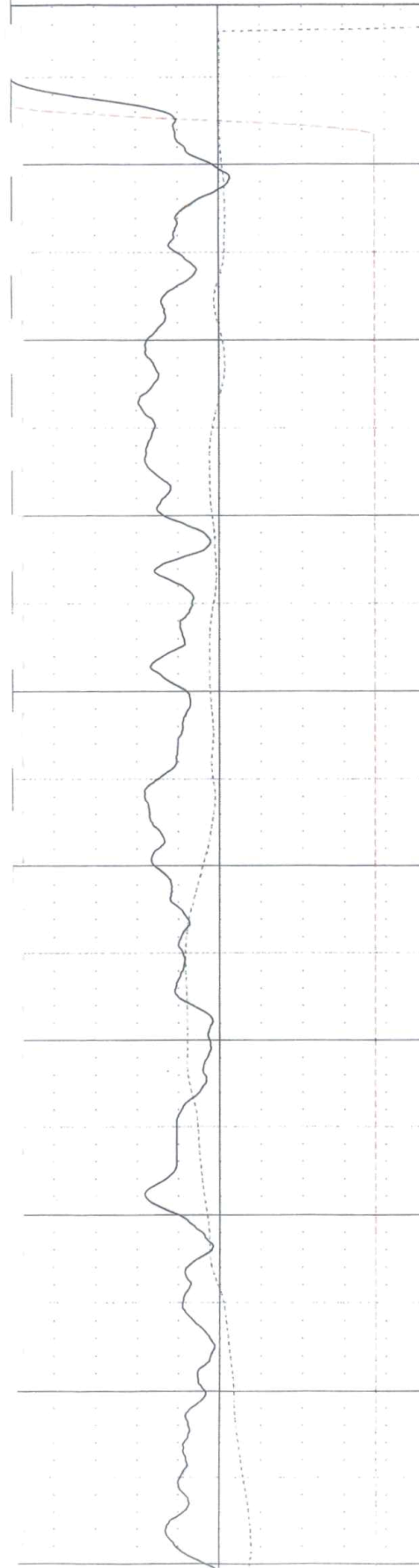
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

RES(FL)	
OHM-M	10
SP	
MV	-500
GAMMA	
API-GR	200

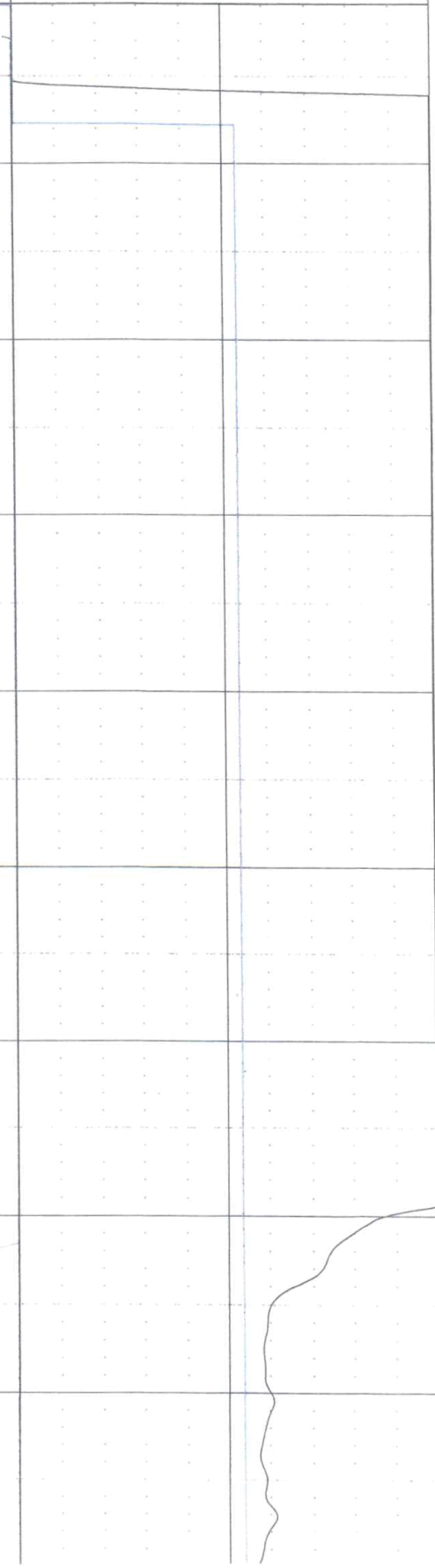
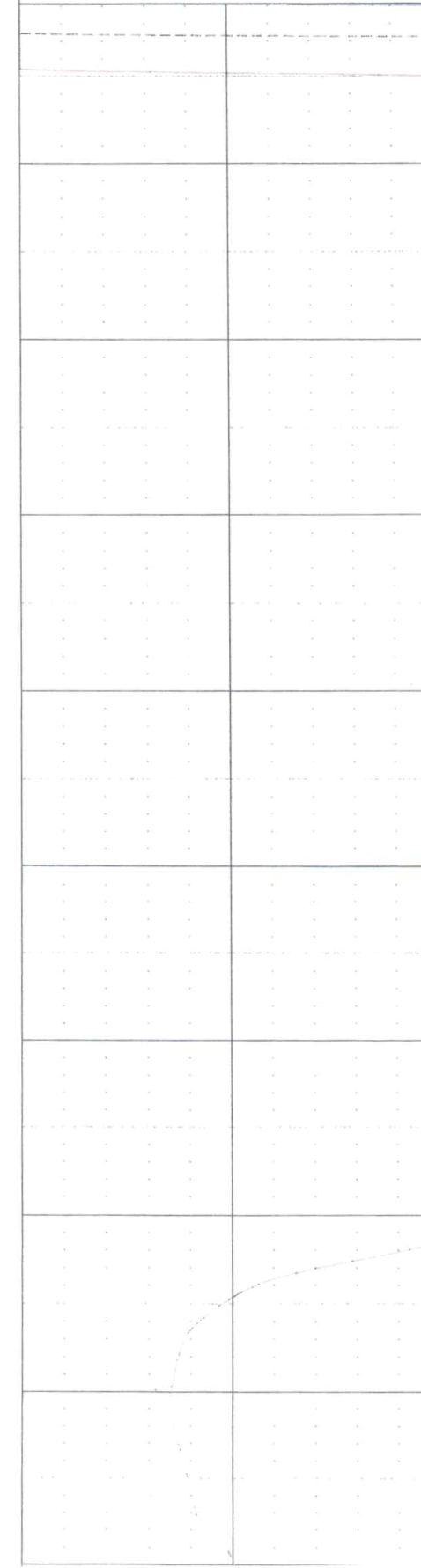
FEET

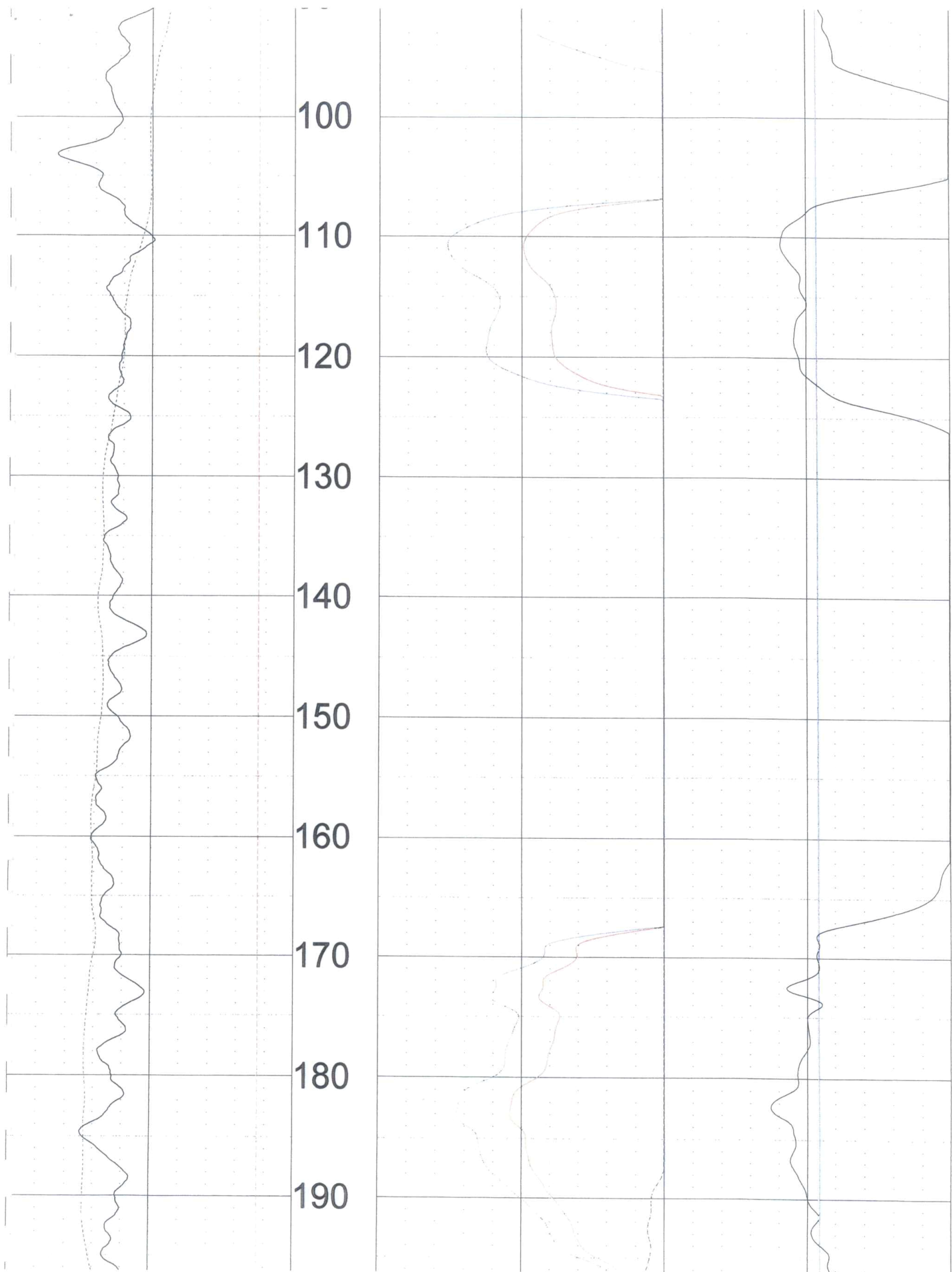
LATERAL	
OHM-M	50
RES(64N)	
OHM-M	50 55
RES(16N)	
OHM-M	500

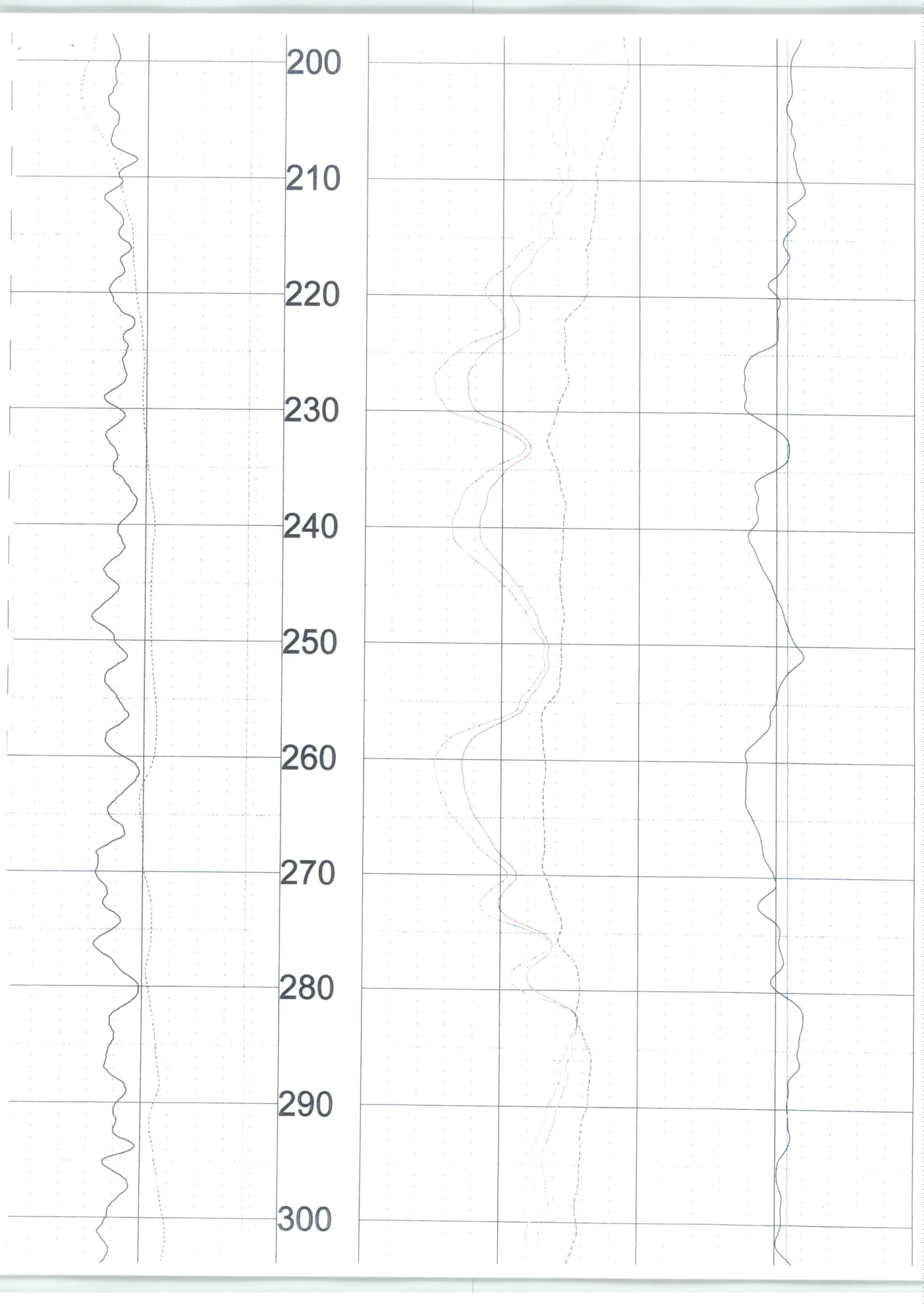
TEMP	
DEG_F	65
RES	
OHM	50

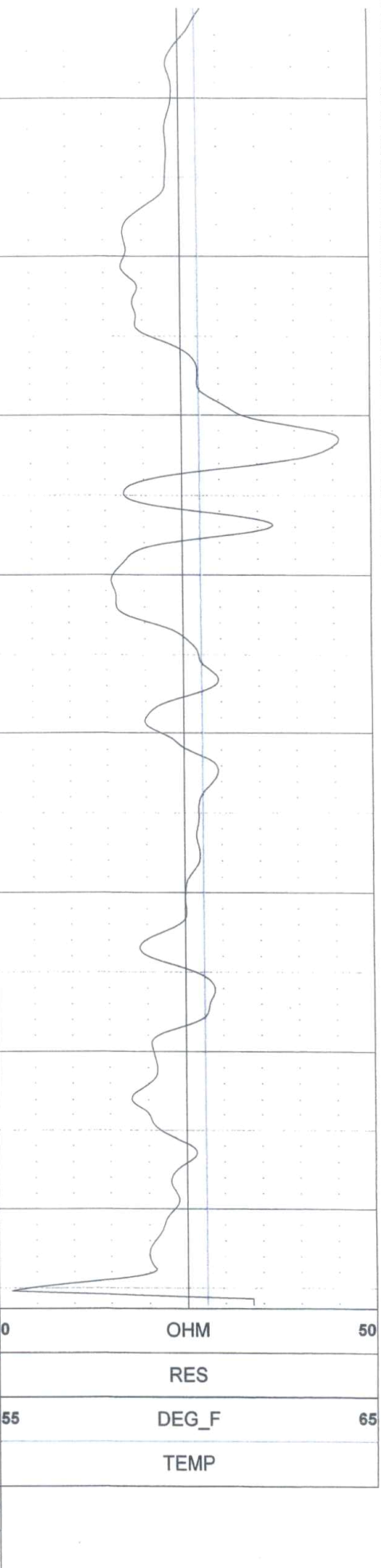
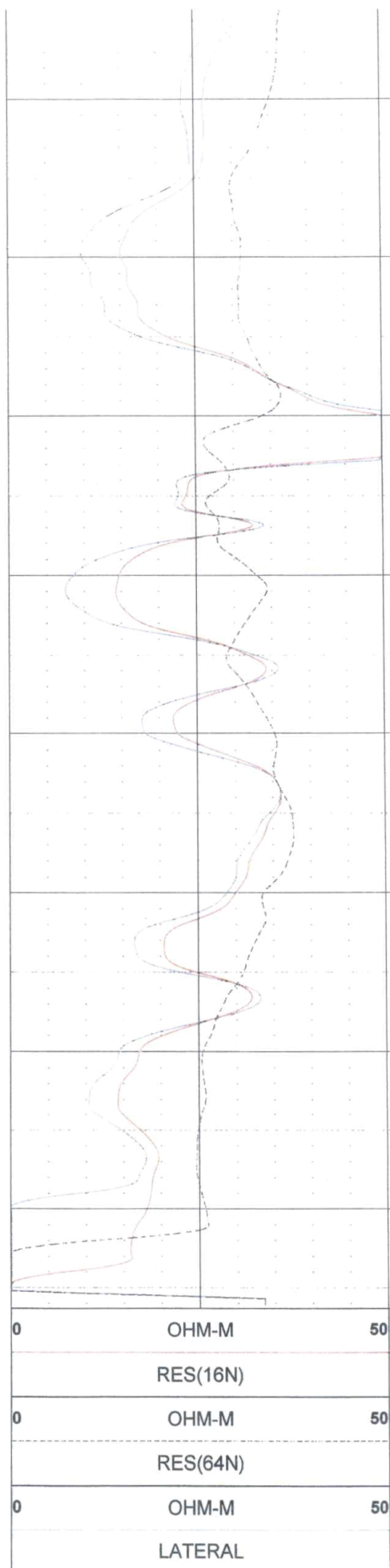
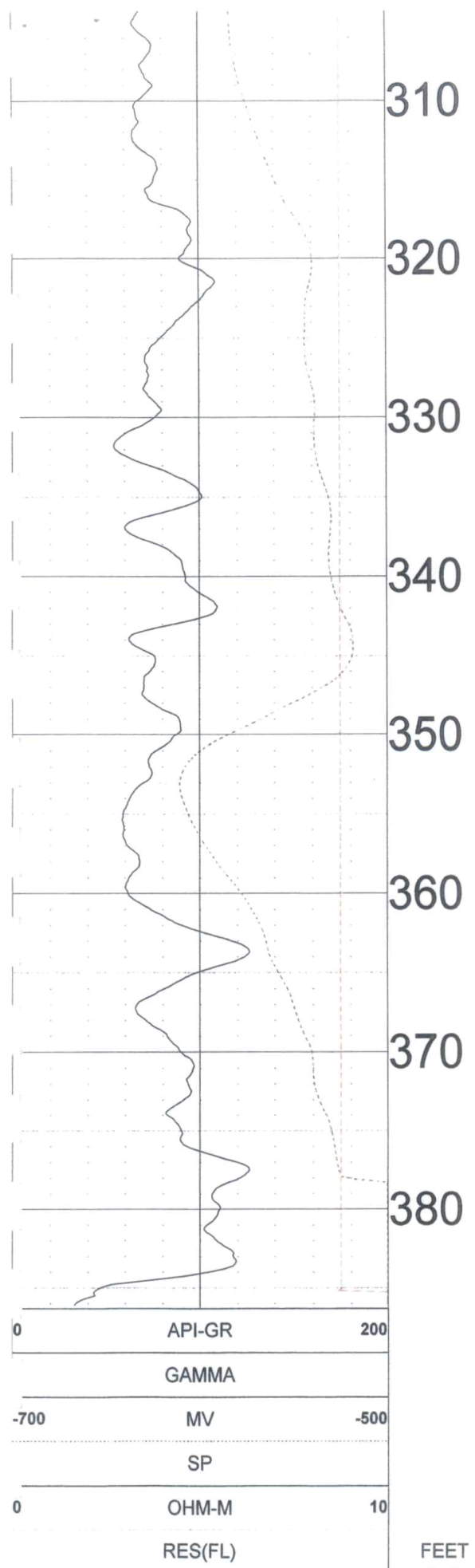


0  
10  
20  
30  
40  
50  
60  
70  
80  
90







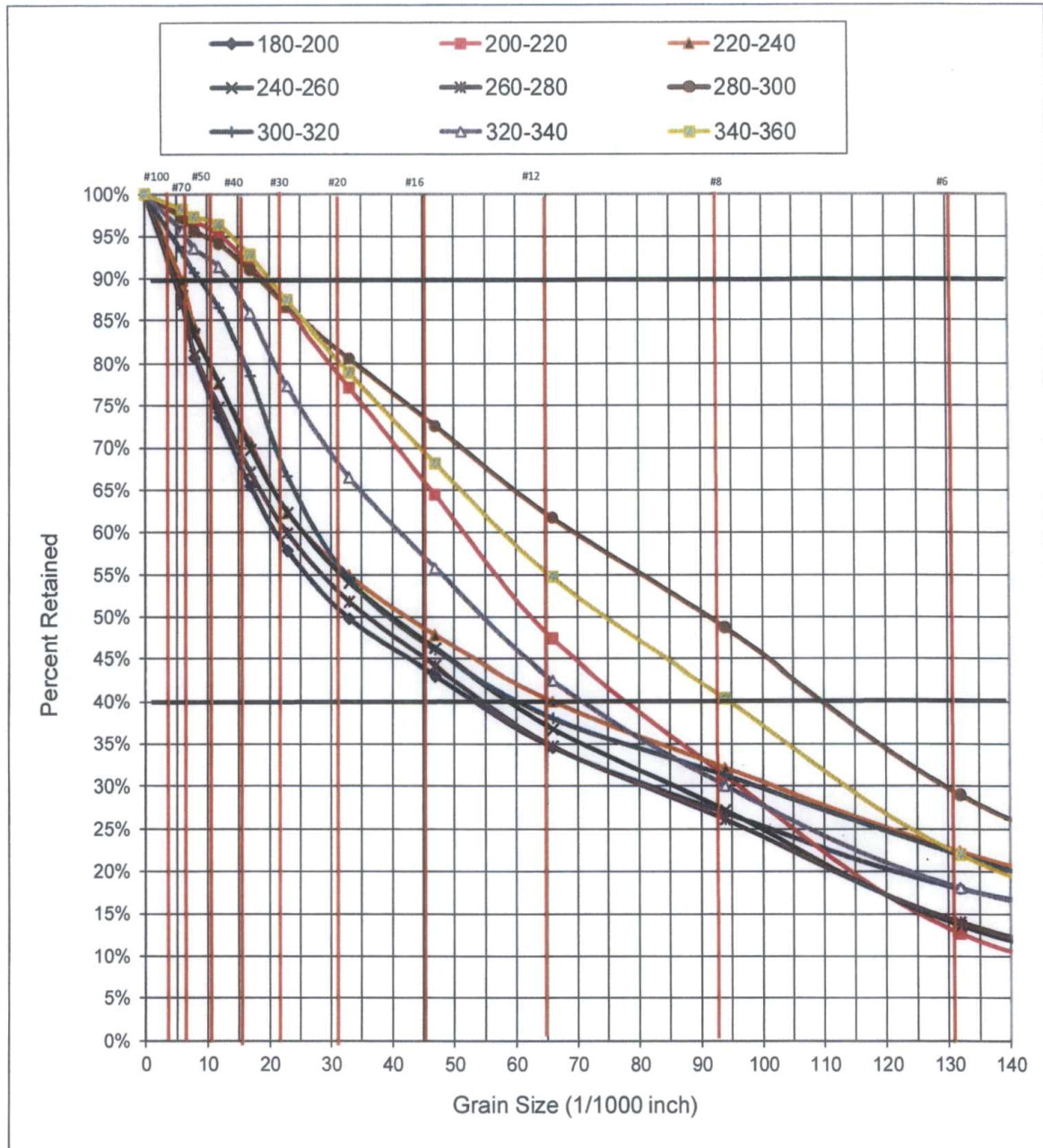


TOOL CALIBRATION GARDEN CITY SANDHILLS DEEP 12/07/22 13:51

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]



Job Name Sandhills Test Hole #1  
Location Garden City, KS  
Driller Downey Drilling

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

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

Desired Yield 800 GPM  
SWL (ft) 190

Recommended Slot Size: 60 slot (0.060") screen from 270'-370' bgs.  
Recommended Gravel Pack: P.W. Gillibrand 8 x 12 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.*

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 : 30523**

**Results For : 22-1432**  
**Location :**  
**Sample ID : SH DEEP**

pH	7.9
Total Dissolved Solids (TDS) Est, ppm	816
Electrical Conductivity, mmho/cm	1.36
Cations / Anions, me/L	17.0 / 16.6
	<u>ppm</u>
Sodium, Na	90
Potassium, K	7
Calcium, Ca	183.6
Magnesium, Mg	45
Total Hardness, CaCO <sub>3</sub>	648
Nitrate, NO <sub>3</sub> -N	3.3 (SAFE)
Sulfate, SO <sub>4</sub> -S	196
Chloride, Cl	58
Carbonate, CO <sub>3</sub>	< 1.0
Bicarbonate, HCO <sub>3</sub>	149
Total Alkalinity, CaCO <sub>3</sub>	123
Fluoride, F	0.30
Total Iron, Fe	0.07
Manganese, Mn	< 0.01

"<" - Not Detected / Below Detection Limit