Kansas Department of Agriculture Division of Water Resources

CHANGE: P/D WORKSHEET

1. File Number:	2. Status Change Date:	3. Change Num:	4. Field Office:	5. GMD:
12323	3-6-2023	C2	4	3
6. Status: ☐ Approved ☐ Deni	ed by DWR/GMD	Dismiss by Reques		7. Filing Date of Change:
				3/01/2023
8a. Applicant(s), Landowner, WUC, New to system □	Person ID <u>5855</u> Add Seq#	8c. Landown		Person IDAdd Seq#
CITY OF GARDEN CITY PO BOX 998 301 N 8TH GARDEN CITY, KS 67846				
8b. Landowner(s) New to system	Person IDAdd Seq#	8d. WUC New to sy	rstem □	Person IDAdd Seq#
9. Documents and Enclosure(s): 🛛 DV	VR Meter(s) Date to Comp	ly: 12/31/2023	N & P Date to C	Comply: 3/1/2024
☐ Anti-Reverse Meter ☐ Meter	Seal	⊠ N & P Form		ller Copy ☐ H & E Letter
☐ Conservation Plan Date Requir	ed: Da	ite Approved:	Date to 0	Comply:
10. Use Made of Water From:		To: _		
			Date Prepared: 3/3/202 Date Entered:	23 By: MAM By:

File No.	12323		11. County	y: FI	Ва	sin: Al	RKAN	SAS R	IVER			S	tream:							Fo	ormation C	ode: 211	Special Use	: 016
CHK MOD	nts of Diver	sion															and Q Author	uantity ized		А	dditional			
DEL	PDIV	Qualifier	S	Т	R	ID		'N	'W		Com	ment	(AKA	Line)		Rate		Quanti mgy		Rate		antity	Overlap PD Files	
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снк	20179																						•	
снк	32062																							
13. Stor	age: Rate			.NF	Qua	ntity _					_ac/ft	А	dditior	nal Ra	te				NF	Add	itional Qua	antity		ac/ft
Limi	tation:		af/yr	at			_	gpm (cfs) w	hen co	mbine	ed with	n file n	umber	(s)						
15. 5YR	Allocation:	Allocation	Туре	_ St	art Yea	r		5 YR	Amou	nt _		Amo	ount U	nit	_	Base	Acres		_ c	omment				
16. Plac	ce of Use				N	E1/4			NV	V1/4			sv	V ¹/₄			5	SE1/4		Total	Owner	Chg?	Overlap Files	
MOD DEL ENT	PUSE	STR	ID	NE 1/4		SW 1/4	SE 1/4	NE 1⁄4	NW ¼	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE ¼					
CHK	5915																							
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Base Ad		Year:		Minimu	m Reas	sonable	e Qua	ntity:																

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

www.agriculture.ks.gov

Laura Kelly, Governor

Mike Beam, Secretary

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,

Michael A. Meyer Water Commissioner

MAM: Enclosures

CERTIFICATE OF SERVICE

On this 6th 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 6th 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

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:

Tor 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.

		ind/or p	ace of	use.											7.		RE	CE	IVED
						o neith	File No	. 1232	3	2		ento.							2023
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						□ P	lace of	Use			Point	of Dive	rsion			Div	ision	of Wat	er Resour
ı	under the	e water	right v	vhich is	the s	ubject	of this	applic	ation i	n acco	rdance	with t	he cor	ditions	s desc	ribed b	elow.		SIMME
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5.	Presently authorized point of diversion:				
	One in the Quarter of the	NE	Quarter of the	SE	Quarter
	of Section 36 , Township	24	South, Range	33	W,
	in <u>FI</u> County, Kansas, <u>1970</u> fe	et North _	800 feet West of	of Southeast corne	r of section.
	Authorized Rate Authorized Quantity (DWR use only: Computer ID No. 04 GPS	MALIER	Depth of well	(fee	et)
	(DWR use only: Computer ID No. 04 GPS GPS	INT OF	feet North	feet We	est)
Ý	☐This point will not be changed ☐This point will be changed as	s follows:	No change, point bette	r described with GP	S as follows:
	Proposed point of diversion: (Complete only if change is				
	One in the Quarter of the	NE	Quarter of the	SE	Quarter
	One in the SW Quarter of the of Section 36 , Township	24	South, Range	2601111 33	W,
	in FI County, Kansas, 1744 fe	et North	694 feet West of	of Southeast corne	r of section.
19](Proposed Rate Proposed Quantity				
(5)	This point is: Additional Well Geo Center List other				
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6.	Presently authorized point of diversion:	CONTRACTOR OF	Robert B		
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	of Section				
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	Authorized Rate Authorized Quantity				
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	Proposed point of diversion: (Complete only if change is	4.3	About do ou world. Total	and a design on the same	
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	in County Kennes	of Month	South, Range	COUNTY NEW	(E/VV),
	Proposed Pete	os iremia _	Description of the state of the	of Southeast come	M shorts
	One in the Quarter of the of Section, Township in County, Kansas, fe Proposed Rate Proposed Quantity This point is: \[\begin{array}{c c c c c c c c c c c c c c c c c c c	water righ	to that will use this poi	tn (teet)	Name an
L	This point is. Additional Well Geo Center List other	water right	its triat will use triis poi	int	
7.	The changes herein are desired for the following reasons?				
	(please be specific)		Nor	h bushon a dre	
		300	200 100 Nor	100 200	300
		E'		CORESS	''''
8	If a well, is the test hole log attached? X Yes No	in earlings	1 + 1	owne than one lando	ai ence ((ii)
0.	in a well, is the test hole log attached? Z Tes 140	200	-1/+1+1=	A I + I -	1=200
9.	The change(s) (was)(will be) completed by?	E	/ =		\-
	A The Land County Land Cases Reves 19:30 The County	100		- + +	1 100
					1 100
10.	If the point of diversion is a well:	!			1
	(a) What are you going to do with the old well?	West 0 +	+dindindindinding) ուլուսիումումում	I I I I I I I I I I I I I I I I I I I
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	that the place of use to obstruct us	100		silentian is for a cha	9 A 100
	(b) When will this be done?	100	(Thirdow	BMAL - Chall	1 100
		E	\ =	BB EMOGA	/=
11.	Groundwater Management District recommendation attached?	200 E	-1 1 + 1 =	1+4+/	1 - 200
	☐ Yes No				
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12.	Assisted by MM'GCFO	300	200 100 0	100 200	300
130	If the proposed point of diversion will be relocated more than 300		Sou		rk=10 ft
IJa	feet but within 2.640 feet of the existing point of diversion, attach	13b.If the	proposed point of diver	sion will be relocat	ed within a 300
	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	foot ra	adius of the existing point diagram shown above	nt of diversion, indi	cate its location
	of the proposed point of diversion and the names and mailing	on the	e diagram shown above sion. The proposed po	oint of diversion m	existing point of
	addresses of the owners. For surface water sources, show the	within	the circle shown above	e. (PLEASE NOT	E: The "X" in
	names and addresses of the landowner(s) one-half mile downstream and one-half mile upstream from your property	cente	er of diagram abor	ve represents	the presently
	lines	autile	point of diversit	, , , , , , , , , , , , , , , , , , , ,	

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

FILE NO. 12323

	zed point of	diversion.				
One in the	NC	Quarter of the	S2	Quarter of the South, Range 1450 feet West of S	SE	Quarter
of Section	1	, Township	25	South, Range	33	W,
in FI	Co	unty, Kansas, 750	feet North	1450 feet West of S	outheast corne	er of section.
Authorized Rate		Authorized Quantity		Depth of well	(fe	et)
(DWR use only: (Computer ID	No. <u>02</u> G	PS	Depth of well feet North	feet We	est)
This point will no	t be changed	☐ This point will be cha	nged as follows:	No change, point better o	lescribed with G	PS as follows:
Proposed point o	f diversion:	(Complete only if chan	ge is requeste	d)		
One in the		Quarter of the		Quarter of the		Quarter
of Section		, Township		South, Range		(E/W),
in	Co	unty, Kansas,	feet North	feet West of S	outheast corne	er of section.
Proposed Rate		Proposed Quantity		Proposed well depth	(feet)	
This point is: A	dditional Wel	☐ Geo Center List	other water righ	Quarter of the South, Range feet West of S Proposed well depth ats that will use this point _		TO SEE SE.
Presently authori						
One in the		Quarter of the	NC	Quarter of the	NE	Quarter
of Section	1	, Township	25	South, Range	33	W,
in Fl	Co	unty, Kansas, 3750	feet North	Quarter of the South, Range 1400 feet West of S	outheast corne	er of section.
Authorized Rate		Authorized Quantity		Depth of well	(te	et)
(DWR use only: (Computer ID	No. 01 G	PS	feet North No change, point better of	feet W	est)
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of Section		, Township		South, Range		(E/W),
in	Co	unty, Kansas,	feet North	feet West of S	outheast corne	er of section.
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of Section		Township		South, Range		(E/W).
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One in the of Section in Proposed Rate This point is: A Presently authorion one in the of Section in Authorized Rate (DWR use only: One in the of Section in Proposed point of Section in Proposed Rate Proposed Rate Proposed Rate	conditional Websites Description Conditional Condition	☐ This point will be char ☐ Quarter of the ☐ , Township ☐ Dunty, Kansas, ☐ Proposed Quantity ☐ Geo Center List ☐ Giversion: ☐ Quarter of the ☐ , Township ☐ Dunty, Kansas, ☐ Authorized Quantity ☐ This point will be char ☐ Quarter of the ☐ , Township ☐ ☐ This point will be char ☐ Quarter of the ☐ , Township ☐ ☐ This point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐ ☐ The point will be char ☐ Quarter of the ☐ , Township ☐	feet North	Quarter of the feet West of S feet West of S South, Range feet with such that will use this point Quarter of the south, Range feet West of S feet North South will feet North No change, point better of the south feet North feet North No change, point better of the feet North feet North feet North No change, point better of the feet North feet North No change, point better of the feet North No change, point better of the feet North No change feet North No change	Southeast corn (feet) Southeast corn (feet With Great with Great with Great with Great with Great corn (feet)	Quarter (E/W), er of section. Quarter (E/W), er of section. Quarter (E/W), er of section. eet) GPS as follows: Quarter (E/W), er of section.

14. If the proposed groundwater point of diversion is 300 or few	ver feet from the existing point of diversion, complete the following:
(a) Does the undersigned represent all owners of the curre ☐ Yes ☐ No (If no, all owners must sign	ently authorized place(s) of use identified in this application? this application.)
	ntly authorized place(s) of use identified in this application be adversely
(c) If this application is not approved expeditiously, will the ☐ Yes ☐ No (If no, all owners must sign	ere be substantial damage to property, public health or safety? this application.)
If the application proposes a surface water change in point of di or a change in place of use, the application must be signed by agent (attach notarized statement authorizing representation).	iversion, a groundwater change in point of diversion greater than 300 feet all owners of the currently authorized place of use, or their duly authorized
age and the owner, the spouse of the owner, or a duly their behalf, in regards to the water right(s) to which contained in this application are true, correct and con	or affirmation and under penalty of perjury, that I am of lawfu y authorized agent of the owner(s) to make this application or this application pertains. I further verify that the statements uplete.
Dated at Garden City, Kal	nsas, this 23 rd day of February , 20 23
by Fred Jan We, Vater Resource	Manual of the part
(Owner)	(Spouse)
City of Goods City by Fred Jones	ens of transcription of property of the desire of the contract
(Please/Print) Water Resou	rce Mr (Please Print)
althoughter at [1] — estrolitigat [1] — earlier	heliopus ats mive particulus ed libras par hela betateriou bit
	terror and the terror of the t
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
State of Kansas	Notary Public
County of Finney SS	State of Kansas
I hereby certify that the foregoing application was 1	rkacyencuintama to before me this 23 day
Charles and the control of the contr	1 0:4
STATE OF THE PARTY	Notary Public
My Commission Expires <u>/0/29/24</u>	an it is to the major to the third the major of the
ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be conformation; maps, if necessary, must be included; signatures the appropriate fee must be paid.	omplete, all of the applicable portions of the application form must be completed wi of all the appropriate owners' must be affixed to the application and notarized; and
FEE	SCHEDULE
Each application to change the place of use or the point of diversion in the schedule below: Make checks payable to: Kansas (1) Application to change a point of diversion 300 feet (2) Application to change a point of diversion more that	rsion under this section shall be accompanied by the application fee set
Hy Appointment Expires Page 15, 2026	
DWR 1-121 (Revised 09/11/2019)	Page 3 File No.

SUPPRIMED AND SERVICE AND ALLESS AND SOME DAYS OF THE PROPERTY OF THE PROPERTY

SUMMARY ORDER APPROVING APPLICATION FOR CHANGE AND IMPOSING CONDITIONS

With t	Summary Order is issued under authority of K.S.A. 82 sions of the <i>Kansas Water Appropriation Law, K.S.A.</i> the exception of those conditions expressly contained hittons of File No. 12323	82a-701 et. seg., and	rules and regul	ations promulgat	ted thereunder.
1. A	change application was received on	2023 ro number be changed a	equesting that the	e place of use a e application.	nd / or point of
2. 0	on and after the effective date of this summary order, the topographic map accompanying the application to	e authorized place(s) change the place of	of use shall be lo use.	cated substantia	lly as shown on Applicable
3. T	he change in point of diversion shall not impair existing previously authorized. The point of diversion authorized radius of the authorized point(s) of diversion.	ed by this summary o	order shall be loca	ated within a	ces of water as
4. T	he point(s) of diversion described herein is administr Positioning System (GPS), as described in the applica	ratively corrected to bation. Applicable	oe more accurat ☑ Not Applicable	ely described us	sing the Global
5. T	he point(s) of diversion authorized herein shall not actually authorized point(s) of diversion.	ally be located more to locat			the previously
	s required by K.A.R. 5-3-5d, if the works for diversion is or other device suitable for making water level measur K.A.R. 5-6-13	s a well with a diversion ements shall be install ble	led, operated an	llons per minute d maintained in a	ccordance with
	he owner of the authorized place(s) of use shall December 31, 20 23, or before the first use of wa operated and maintained in accordance with K.A.R. 5-K.A.R. 5-3-5e, the owner shall maintain records and rediverted annually to the Chief Engineer by March 1 for Applicable	ater, whichever occur 1-4 through 5-1-12. A eport the reading of th	rs first. The wate As required by K. e water flow met	er flow meter sha S.A. 82a-732, as er and the total q	all be installed, amended, and
-	authorized extension of time. By March 1, 20 27 works for diversion of time. By March 1, 20 27 works for diversion has been completed, on the form process of the form of the	the applicant shall no	otify the Chief E	ngineer that con	struction of the
9. T	he completed well log shall be submitted with the r	equired notice.	Applicable	☐ Not Applica	ble
10. A	Il diversion works into which any type of chemical or ot with an in-line, automatic, quick-closing check valve of check valve(s) shall be installed, operated and maintai	apable of preventing	pollution of the s	source of the wat	er supply. The
11. A	dditional Conditions are attached. Yes	•	(mir I 4.	8919)	
12. In	accordance with K.S.A. 82a-708a, as amended, and water appropriated under the above-referenced file n limitations, as amended and/or supplemented by this Appropriation Law and the Rules and Regulations propriation in civil penalties pursuant to K.S.A. 82a-737, as water or appropriation right or any other enforcement.	lumber are responsib Summary Order, and comulgated thereunde s amended, and/or the	le for compliance with applicable er. Failure to content e suspension or	e with its terms, provisions of the mply with these	conditions and Kansas Water provisions may
Ad	ministrative Appeal and Effective Date of Order	À	FOR OFFICE		rain video
you ma Engine Agricu	are aggrieved by this order, pursuant to KSA.82a.1901, ay request an evidentiary hearing before the Chief eer or request administrative review by the Secretary of lture. A request for hearing by the Chief Engineer must be ithin 15 days of service of this Order and a request for	By:	SUMMARY OF	My	indicate the second
admini days p review File an Legal	istrative review by the Secretary must be filed within 30 pursuant to K.S.A. 77-531. Any request for administrative must state a basis for review pursuant to K.S.A. 77-527. By request with Kansas Department of Agriculture, Division, 1320 Research Park Drive, Manhattan, KS	(Print Nam	e): //c/f/ Water Resources -	nee of the Chief English (CA) MEY Kansas Department 6 202	t of Agriculture
preclu	. Failure to timely request a hearing or review may de review under the Kansas Judicial Review Act.	State of Kansa	S) 00	
	For Use by Register of Deeds	County of	timnen) SS)	
		Acknowledged	before me on	March	6.2022
		byic	hael A	Meus	Unalloga daru
		Jan Libe note:	ny to Alleg to p	nada ot not grave	JF 195
		Signature:	July	Notary Public	
		Managements of	an averies of	JU	LIE JONES
	·	My commission	on expires:	WILLOW FUNDIALLY SE	ointment Expires mber 15, 2026
DWR 1	-121 (Revised 09/11/2019)	Page 4		File N	lo

ADDITIONAL CONDITIONS TO SUMMARY ORDER APPROVING APPLICATION FOR CHANGE AND IMPOSING CONDITIONS,

Water Right, File Nos. 12,323

The effective date of the change shall be the date this order is executed by the Chief Engineer, after which the following condition is included as a condition of the approval of this application for change in point of diversion.

That the applicant shall set surface casing through any shallow groundwater aquifers, and shall cause the wells under this appropriation to be constructed so that the source of supply will be restricted to withdrawal of water from the Ogallala aquifer system, thereby precluding withdrawal of water from any overlying water-bearing strata and ensure that an adequate seal is placed between the Ogallala aquifer system, and all overlying water-bearing strata so as to prevent any movement of water between formations.

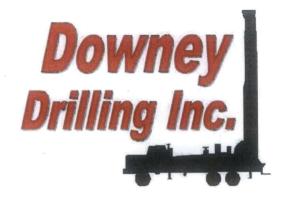
That the gravel pack shall not extend more than two feet above the top of the well screen, and shall be properly sealed (e.g. bentonite pellets) so as to prevent any movement of water between formations along the well annulus.

	By: Mulant Mag (Duty Authorized Designee of the Chief Engineer)
	(Print Name):
	Dated of Issuance: March 6, 2023
State of Kansas)	
County of Finney)	
Acknowledged before me on	the day of March, 2023
By Michael	Ameyer
Signature Quie 0	ones
My Commission expires:	My Appointment Expires Notation All Appointment Expires Notation All Appointment Expires December 15, 2026

DWR 1-121

File No. _____12,323

<u>CORPORATE</u> 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)	1
-------	------	--------	---------	---

Constructed

	KOLAR DOC	ID.	1678934	 WELL ID
\checkmark	Original Record		Correction	☐ Change in Well Use

OCA	HOLT	OFM	VATED	BAZETE E
LULA	HON	OF V	VATER	WELL

Latitude	37.92186	Longitude	-100.88594	Section	36	Township	24	Range	33	□E ✓ W Fraction	SW	1/4	NE	1/4	SE	1/4
Datum	NAD83	Elevation	2877	County	Finne	y										

WATER WELL OWNER

Name	
Business	CITY OF GARDEN CITY
	PO BOX 998
Address	GARDEN CI KS 67846
Well location	400 FT EAST OF S OLD HWY 83
at owner's address	

CONSTRUCTION					
Borehole interval:	Borehole diameter:				
from0 to360 ft.	6.25 in.				
fromto ft.	in.				
Casing height above land sur					
If casing height is less that has a variance been appr					
*variance not required for or environmental remed					
Casing type: Thern					
Blank casing interval:	0 ft to 360 ft				
Blank casing interval: Blank casing diameter: 2	.38 in.				
Casing joints:	Threaded				
Weight: .72 lbs	/ft.				
Wall thickness or gauge	no.: SCH 40				
Blank casing interval:					
Blank casing diameter:					
Casing joints:					
Weight:lbs	Weight:lbs/ft.				
Wall thickness or gauge	no.:				
Grout interval: 0 ft. to	340 ft.				
Grout material: Ben	tonite				
Grout interval: ft. to	ft.				
Grout material:					
	DVC				
Screen / perforation material: PVC					
Screen / perforation openings: Continuous slot					
Screen / perforation intervals: From 350 ft. to 360 ft.					
Slot size .01 unit inches					
From ft. to ft.					
Slot size unit _					
Gravel pack intervals:					
Gravel pack not used:	Gravel size #40 :-				
From 340 ft. to 36					
Gravel pack not used: □					
From ft. to					
	_				

WE	LLW	ATE	RU	SE
----	-----	-----	----	----

		200
Depth of completed	well:	360 ft.
Depth(s) groundwate	er encountered:	
(1) ft.; (2) _	ft.;	
(3) ft.; (4) [dry well	
Static water level in v	vell:190_ ft	
✓ measured below l on (mm/dd/yy):		12/07/2022
measured above l on (mm/dd/yy):	and surface —	
Estimated yield:	gpm	
Water level was:ft. afterhours		
	pumping	gpm
Pump installed?	Yes 《 No	
Water well disinfecte	d? 🗆 Yes 🗆 No)

NEAREST SOURCE OF POTENTIAL CONTAMINATION

rom well:	from well:
Source description:	
Source:	
Distance from well:	Direction from well:
Source description:	

PERMIT & ID NUMBERS (AS REQUIRED)

DWR Applicati	on No.:	
KDHE / EPA P	roject Code:	
Site Name: SANDHILLS DEEP		
KDHE UIC Cla	ass V Form Completed: Yes No	
County Permit	Yes 🗆 No Permit ID:	
Lease Name &	Well #:	
# of boreholes:	# of dewatering wells:	

LITHOLOGIC LOG

FROM	то	LITHOLOGY INTERVALS
Attache	Attache	Attached

COMMENTS

CONTRACTOR'S OR LANDOWNERS CERTIFICATION

This water well was constructed ✓ recons	tructed pursuant to the stated water well
contractor's license and was completed on	2/07/2022 . I certify that this record is true to
the best of my knowledge and belief. This wat	er well record was completed on01/09/2023
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 sig	ned and certified by the electronic signature of the
designated person at its submittal: Tho	mas 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	1678934
Well Owner	CITY OF GARDEN CITY
Contractor	Downey Drilling, Inc. #748

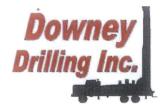
Lithology

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



WELL LOG

DATE: 12/8/2022

CUSTOMER NAME: CITY OF GARDEN CITY

LEGAL: NWSE 36-24S-33W

COUNTY: FINNEY

GPS: 37.92186

SANDHILLS DEEP

100.88594

w	FROM	то	ТҮРЕ	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING
	0	2	SAND	SOFT	TAN	FAST	NO	SMOOTH
_	2	8	SANDY SOIL. SANDY CLAY, AND FINE-MEDIUM-COARSE SAND	SOFT	TAN	FAST	NO	SMOOTH
	8	30	FINE-MEDIUM-COARSE SAND	SOFT	RED	FAST	NO	CHATTER
	30	60	FINE-MEDIUM-COARSE SAND AND FINE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	60	81	FINE-MEDIUM- COARSE GRAVEL	SOFT	RED	FAST	NO	CHATTER
81 101 101 123		101	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
		123	CLAY, FINE-MEDIUM-COARSE SAND LAYERS	SOFT	TAN	FAST	NO	SLIGHT CHATTER
-	123	155	FINE-MEDIUM-COARSE SAND, FINE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	155	160	CLAY CEMENTED SAND, FINE SAND	SOFT	TAN/WHITE	FAST	NO	SLIGHT CHATTER
	160	180	CLAY, SANDY CLAY, FINE-MEDIUM-COARSE LAYERS	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	180	195	CLAY CEMENTED SAND - RED SANDY CLAY	SOFT	TAN	FAST	NO	СНОРРУ
	195	197	FINE-MEDIUM-COARSE LAYER	SOFT	TAN	FAST	NO	CHATTER
	197	200	SAND & CLAY MIX	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	200	215	FINE-MEDIUM-COARSE SAND, FINE GRAVEL	SOFT	TAN	FAST	NO	CHATTER
	215	234	WHITE CLAY, FINE-MEDIUM SAND	SOFT	WHITE	FAST	NO	SLIGHT CHATTER
:	234	240	FINE-MEDIUM-COARSE SAND	SOFT	RED	FAST		CHATTER
1	240	252	CLAY, FINE-MEDIUM-COARSE SAND LAYERS	SOFT	RAN	FAST		SMOOTH
	252	256	FINE-MEDIUM-COARSE SAND, FINE GRAVEL	SOFT	RED	FAST		CHATTER
2	256	260	CLAY, WHITE CLAY	SOFT	TAN	FAST		SMOOTH
2	260	276	SANDY CLAY, FINE-MEDIUM-COARSE SAND STRIPS, CLAY	SOFT	TAN	FAST		SLIGHT CHATTER
2	276	279	FINE-MEDIUM-COARSE SAND	SOFT	RED	FAST		CHATTER
2	279	281	CLAY	SOFT	TAN	FAST		SMOOTH
2	281	305	FINE-MEDIUM-COARSE SAND, FINE GRAVEL	SOFT	RED	FAST		CHATTER
3	305	307	MAG	SOFT	WHITE	FAST		CHOPPY
3	307	317	FINE-MEDIUM-COARSE SAND, FINE GRAVEL	SOFT	RED	FAST		CHATTER
3	317	330	CLAY SAND	SOFT	TAN	FAST		SMOOTH
3	330	340	CEMENTED, CLAY & SAND LAYERS	HARD	WHITE/TAN	FAST		СНОРРУ
3	340	352	CLAY & SAND LAYERS	SOFT	TAN	FAST		SLIGHT CHATTER
3	352	363	FINE-MEDIUM-COARSE SAND	SOFT	RED	FAST		CHATTER
3	363	364	CLAY	SOFT	TAN	FAST		SMOOTH
3	364	370	SAND & CLAY MIX	SOFT	TAN	FAST		SLIGHT CHATTER
3	370	389	SHALE	FIRM	BLACK	SLOW		SMOOTH
1								



DRILLER RYAN METHOD

STR MUD ROTARY

PROJECT
CITY OF GARDEN CITY

COUNTY FINNEY LOGGED BY

ADAM

340' TOP OF FILTER PACK

350' TOP OF SCREEN

BOTTOM OF SCREEN
BOTTOM OF WELL
SEAL TOP

SEAL BOTTOM

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

MIDDLE CHIP SEAL

FILTER PACK

WELL SCREEN

BOTTOM PVC CAP (1)

NATIVE FILL

CASING

TYPE:

FLUSH JOINT PVC

DIAMETER:

2"

LENGTH:

350' + 32"

SCREEN

TYPE:

FLUSH JOINT PVC

DIAMETER:

2

LENGTH: SLOT SIZE

.010 SLOT

FILTER PACK

TYPE:

#40 RED FLINT

AMOUNT: 2500 LBS

GROUT

TYPE:

AMOUNT:

SEALS: AMT & TYPE:

BOT:

MID: TOP: 0-340'

TYPE:

TTPE:

3/4" HOLE PLUG 2000# SANDHILLS

SITE#: TH#:

DEEP

WELL DEVELOPMENT

METHOD:

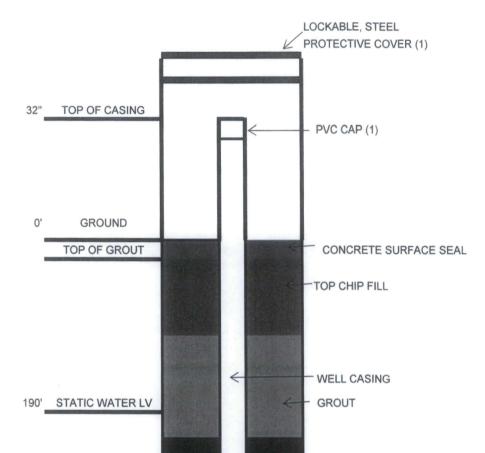
AIR LIFT

DURATION:

1 HOUR

COMMENTS:

2X2 CONCRETE PAD 1 WELL PROTECTOR



<



GARDEN CITY SANDHILLS DEEP

COMPANY

: DOWNEY DRILLING INC

WELL

: GARDEN CITY SANDHILLS DEE TH#1 DEE

LOCATION/FIELD

COUNTY

LOCATION

: FINNEY

SECTION

: 36

: NWSE

TOWNSHIP

PERMANENT DATUM : GL

LOG MEASURED FROM: GL

DRL MEASURED FROM: GL

: 24S

RANGE: 33W

DATE

: 12/07/22

: 389

LOG BOTTOM : 386.20

LOG TOP

DEPTH DRILLER

0.90

CASING DIAMETER: 10.

CASING TYPE

CASING THICKNESS:

BIT SIZE

MAGNETIC DECL. : 0

MATRIX DENSITY : 2.71

NEUTRON MATRIX : LIMESTON

: 6.25

BOREHOLE FLUID

RM

RM TEMPERATURE

LOGGING UNIT

FIELD OFFICE

RECORDED BY

MATRIX DELTA T

OTHER SERVICES:

KB DF

GL

: 1903

: DDI

: MUD

: 49

: ADAM

FILE : ORIGINAL

TYPE : 8144A

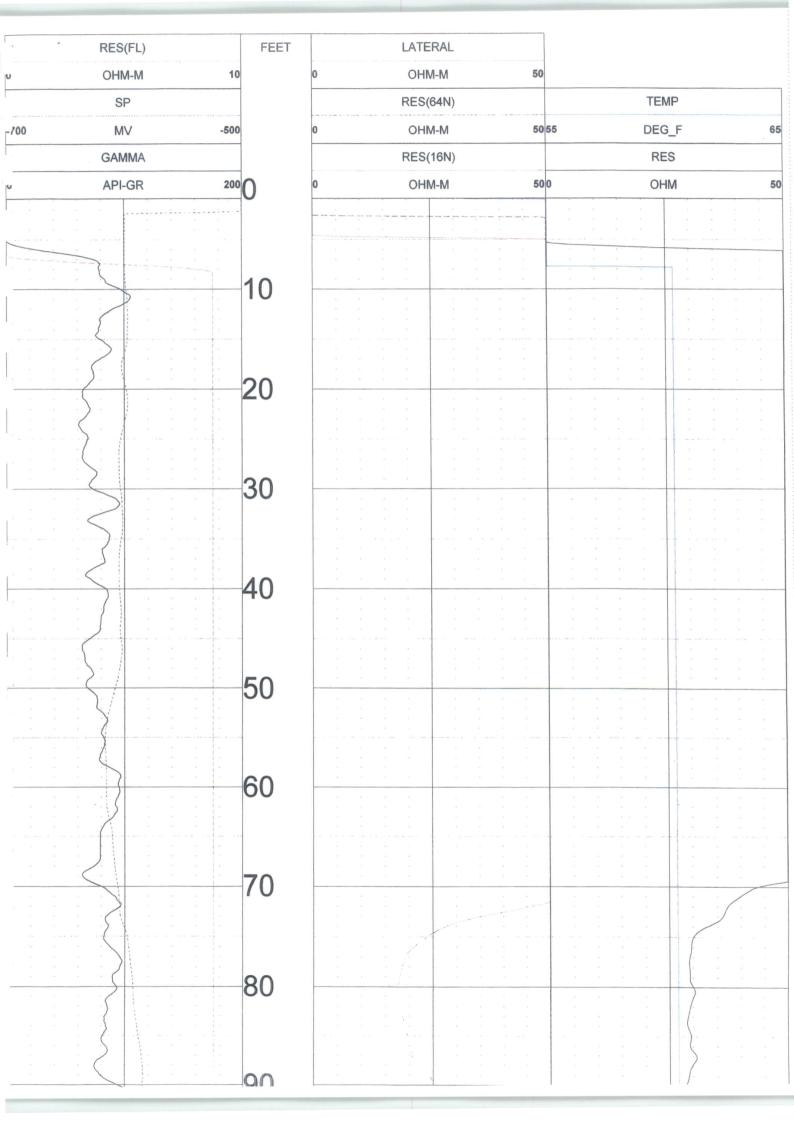
LGDATE: 12/07/22

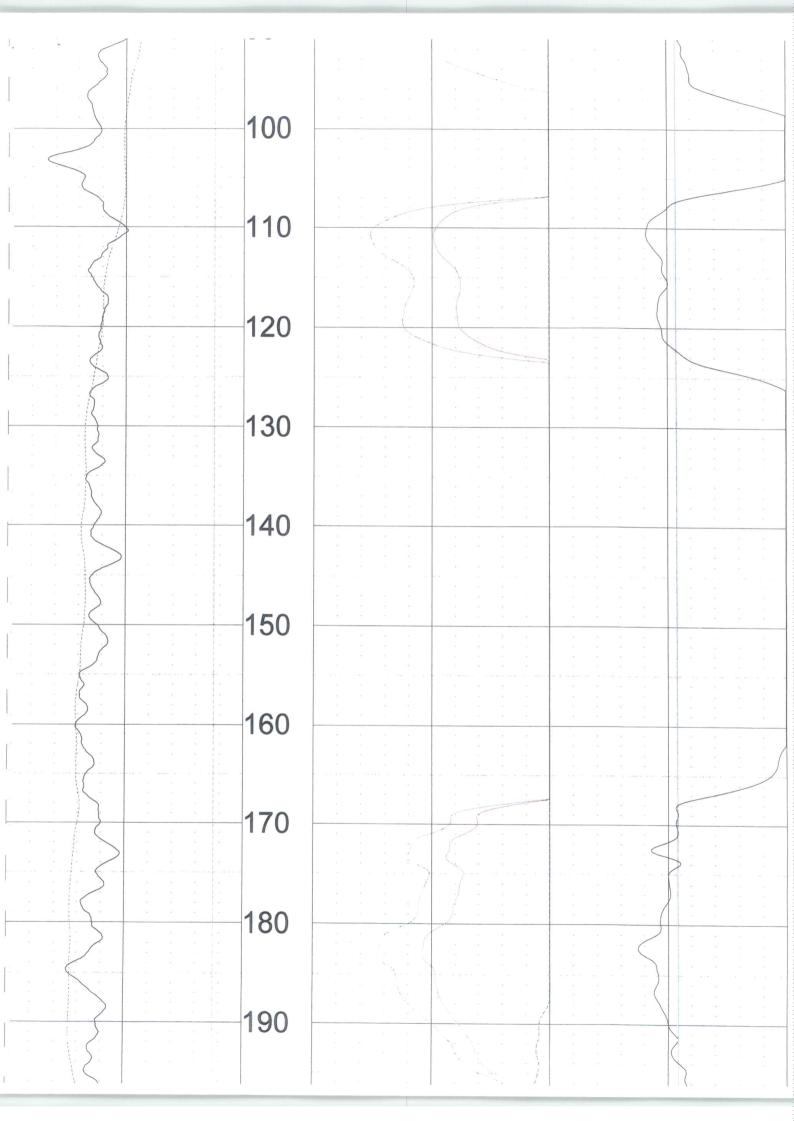
LGTIME: 13:51:

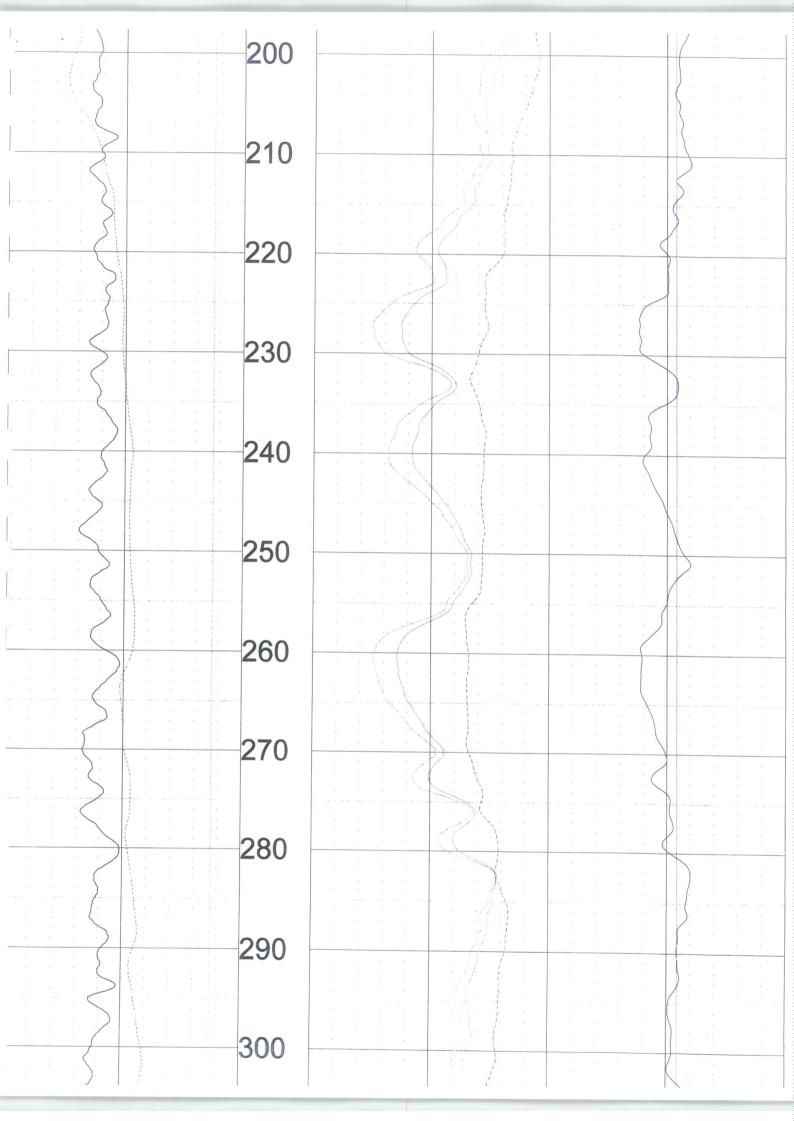
THRESH: 99999

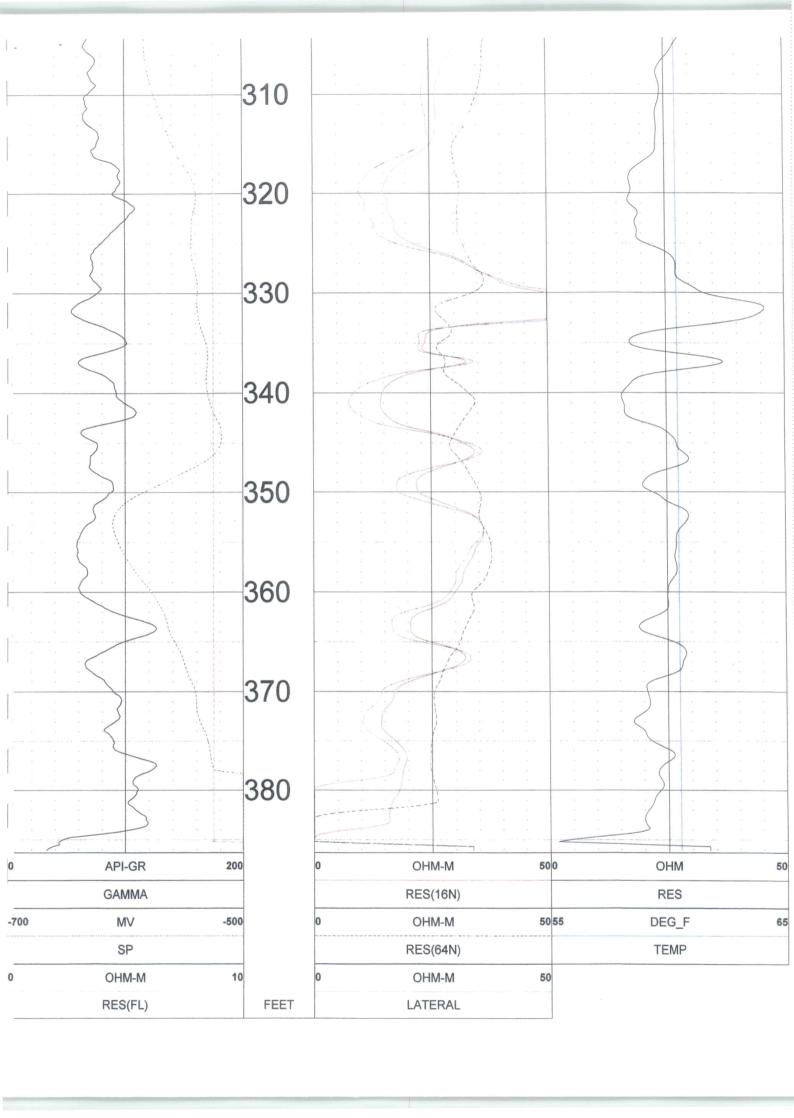
N 37.9218 W 100.88594

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS





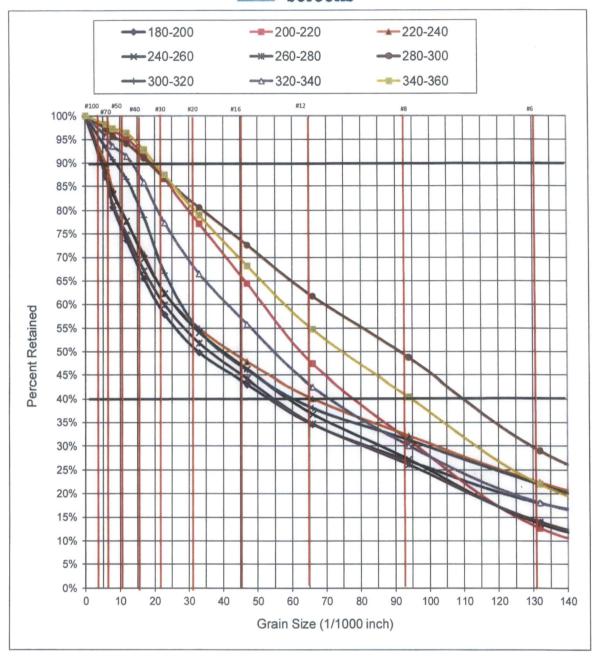




TOOL CALIBRATION GARDEN CITY SANDHILLS DEEP 12/07/22 13:51 TOOL 8144A TM VERSION 1

OFFIAI	AHIBEDED	005
SERIAL	NUMBER	365

	DATE	TIME	SENSOR	S	TANDARD	RES	PONSE
11	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]
13	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]
15	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]
17	Jan14,22	08:33:36	RES	0.000	[OHM]	21285.000	[CPS]
1,	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

Casing \$\phi\$ 16 in

Screen \$ 16 in

Sample ID 010923-1

Analyzed by: Duvall, Steven

Date: 1/10/2023

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.





Ag Testing - Consulting

Account No.: 41160

Water Analysis Report

DOWNEY DRILLING

PO BOX 278

LEXINGTON

NE 68850-0278

Invoice No.:

1392001

Date Received:

12/19/2022

Date Reported:

12/20/2022

Lab Number:

30523

Results For: 22-1432

Location:

Sample ID: SH DEEP

рН		
pri		

7.9

Total Dissolved Solids (TDS) Est, ppm

816

Electrical Conductivity, mmho/cm

1.36

Cations / Anions, me/L

17.0 / 16.6

	ppm
Sodium, Na	90
Potassium, K	7
Calcium, Ca	183.6
Magnesium, Mg	45

Total Hardness, CaCO3 Nitrate, NO₃-N

45

Sulfate, SO₄-S

648 3.3 (SAFE)

Chloride, CI

196

Carbonate, CO3

58 < 1.0

Bicarbonate, HCO3 Total Alkalinity, CaCO3 149

Fluoride, F

123

Total Iron, Fe

0.30 0.07 < 0.01

Manganese, Mn

"<" - Not Detected / Below Detection Limit

Reviewed By: Raymond Ward

12/23/2022

Copy: 1

Page 5 of 8

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

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