WATER W	ELL I	RECORD	Form	WWC-5		Divi	sion of Water		Well ID	MW- 6	
1 OCATION OF WATED WELL, Encodion						- Keso	tion Number	Townshin Numh	Township Number Range Number		
Country Doninhan						Section Number Township Number Range Number $Range Range Ra$					
2 WELLOW Business: Gr	Last Name: k Terminal , V	Vathena I	KS	direct	direction from nearest town or intersection): If at owner's address, check here:						
Address: 963 Vernon Road									, o uu, oi	_	
Address:											
City: Wa		State: KS	ZIP: 66090				00 1000				
3 LOCATE W	4 DEPTH	OF CON	IPLETED WELL	2							
SECTION B	N NX+	Depth(s) Gr	oundwater	Encountered: 1)	6	ft.	Longit	ude: -94,928	3 954	decimal degrees)	
N	JA .	2)	ft	3)	Dry	v Well	Horizoi	<u>ntal Datum:</u> 🗆 WGS 84	4 🗆 NAD 8.	3 🗆 NAD 27	
		WELL'S ST	TATIC WA	TER LEVEL:	ب بلج. جا	infi 1-15-19	Source	for Latitude/Longitude	Dennetin etre	J.	
		Below 1	and surface	, measured on (mo-da	y-yr)¶	01.2.1.0	📕 🖬 GP	S (unit make/model:	Jarmin eire	έ κ)	
NW X	E	Pump test d	and surface.	vater was	y-yı) ft		$(WAAS enabled? \blacksquare Yes \square No)$				
w	F	after	after					\Box Online Mapper:			
"			Well water was ft.								
SW S	E	after	after hours pumping gpm					0			
		Estimated Y	Estimated Yield:gpm				6 Elevation:tt. Ground Level 100				
S I milu		Bore Hole E	Bore Hole Diameter: in. to				ft. and <u>Source</u> : Land Survey m GPS Topographic				
7 WELL WAT	TED TA	DE USED		in. to	ft.						
/ WELL WATEK TO BE USED AS:											
T. Doniestie.	☐ Household 6 ☐ Dewatering: how many wells?						11. Test Hole: well ID				
Lawn & Ga	□ Lawn & Garden 7. □ Aquifer Recharge: well ID					\square Cased \square Uncased \square Geotechnical					
Livestock	Livestock 8. Monitoring: well ID						12. Geothermal: how many bores?				
2. 🗌 Irrigation		9. Ei	nvironmenta	al Remediation: well	ID		a) Closed Loop 🔲 Horizontal 🗌 Vertical				
3. 🗌 Feedlot	3. 🗌 Feedlot 🔅 Air Sparge 🔅 Soil Vapor F						b) Open Loop 🗌 Surface Discharge 🔲 Inj. of Water				
4. Industrial			Recovery				13. 🗌 Oth	er (specify):			
Was a chemical/bacteriological sample submitted to KDHE? 🗆 Yes 🔳 No If yes, date sample was submitted:											
Water well disinfected? Yes No											
8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded											
Casing diameter											
TVPE OF SCREEN OR DEDEOR ATION MATERIAL.											
Steel Stainless Steel Fiberglass PVC Other (Specify)											
□ Brass □ Galvanized Steel □ Concrete tile □ None used (open hole)											
SCREEN OR PERFORATION OPENINGS ARE:											
🗌 Continuous Slot 🔳 Mill Slot 🔲 Gauze Wrapped 🛄 Torch Cut 🔲 Drilled Holes 🔲 Other (Specify)											
□ Louvered S	hutter	🗌 Key Punch	ned 🗌 W	ire Wrapped	Saw Cut	t 🗌 N	one (Open Ho	le)			
SCREEN-PERFORATED INTERVALS: From .5 ft. to 20 ft., From ft. to ft. to ft. to ft.											
GRAVEL PACK INTERVALS: From											
9 GROUT MA	9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other										
Grout Intervals:	From			ft., From	ft. to		ft., From	ft. to	ft.		
Septic Tank	i possib		on: ateral Line	Pit Privy			ivestock Pen		ride Storage	i.	
Sewer Lines			Cess Pool	□ Fierney □ Sewage I	agoon		Fuel Storage		oned Water W	/ell	
🔲 Watertight S	ewer Li	nes 🗌 S	Seepage Pit	☐ Feedyard			Fertilizer Stor	age 🗌 Oil We	ll/Gas Well		
Other (Spec	fy)				. <i>.</i>	~	115				
Direction from we				Distance from	well?	0	17.D	ft.			
IU FROM	0	L	THOLOG	GIC LOG	F	ROM	TO I	LITHO. LOG (cont.) or	PLUGGING	INTERVALS	
							1.5				
									1		
					N	ntes.					
	•					fest f	Borine Los	artached			
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was Constructed.											
under my jurisdiction and was completed on (mo-day-year) 11/14/2018 and this record is rue to the best of my knowledge and belief.											
Kansas Water V	Vell Co	ntractor's Lice	ense No. 7	10 This V	Vater W	Vell Reco	ord was com	pleted or mo-hay-y	ear) 12/05/2	2018	
under the busine	ess nam	e of Below C	round Si	urrace, Inc.		Sig	nature	ay 1 TRU	ater CW/TE So	rction	
Mail I whit	e copy al	ong with a fee of	$a_{5.00}$ for eac	66612 1267 Mail are	ansas De	epartment	or Health and E	nvironment, Bureau of W	ater, U w 15 5e	574	
Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212 Revised 7/10/2015											

Division of Environment Curtis State Office Building 1000 SW Jackson St., Suite 400 Topeka, KS 66612-1367

Lee A. Norman, M.D., Acting Secretary



Phone: 785-296-1535 Fax: 785-296-8464 www.kdheks.gov

Laura Kelly, Governor

February 27, 2019

Craig Hewins Below Ground Surface, Inc. (Ks WWC Lic. #710) 8110 Cole Pkwy Shawnee, KS 66227

Subj: Flush-Mount & Grouting Waiver Request for Monitoring Well at the Growmark St. Joseph Terminal, 936 Vernon Rd, Wathena, Doniphan County, KS 66090 [KDHE Project Code: C402273209]

Dear Mr. Hewins,

On February 21, 2019, the Kansas Department of Health and Environment, Bureau of Water, Geology & Well Technology Unit (KDHE), received the above referenced request for waiver to install one (1) additional monitoring well at-grade (or flush-mount), at the request of the Kansas Department of Transportation at the Growmark St. Joseph Terminal near Wathena, KS. The proposed well will be in an area that requires grass management in Hwy 36 right-of-way.

In addition, the well is proposed to be approximately 20-feet in depth with 10-feet of screen and an expected water table at a depth of 12-feet. As a result, the minimum grouting interval must be modified to meet local conditions as allowed in Article 30 - K.A.R. 28-30-6(c). The well will be in the NE¼, SW¼, NE¼, Sec. 34, T. 3S, R. 22E, and will be installed by Below Ground Surface, Inc. (Lic. #710).

KDHE has reviewed the waiver request materials. <u>This letter provides notice of approval for grout modification in and completion of an additional at-grade monitoring well in accordance with the *KDHE Flush-Mount Well Construction Detail* dated January 2018.</u>

As required in KDHE's Procedure *WWP-5 – Procedure for Requesting a Waiver to Allow Installation of a Flush-Mount Monitoring Well*, the location, well number, and latitude/longitude coordinates and associated horizontal datum will be shown in a scaled map and provided to KDHE along with the water well record (WWC-5 Form) for this well in accordance with Article 30 - K.A.R. 28-30-6(s). Please confirm that this requirement will be met.

Once the stated use of the well has ceased, it must be plugged in accordance with regulations in Article 30 (K.A.R. 28-30-7), and the Water Well Program *Procedure WWP-10 - Procedure for Plugging a Groundwater Monitoring Well*.

Please contact me at 785-296-3565 or Pam.Chaffee@ks.gov if you have questions or need further assistance.

Sincerely,

Pamela aroffee

Pamela Chaffee, P.G. Chief, Water Well & Technical Support Unit Geology & Well Technology Section Bureau of Water

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KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

FLUSH-MOUNT WELL CONSTRUCTION DETAIL

(Not to Scale)

