Kansas Department of Agriculture Division of Water Resources PERMIT OF NEW APPLICATION WORKSHEET

1. File Number:	2. Status Change Date:	3. Field Office:	4. GMD:				
50,153	3/6/2019	02	0				
5. Status: Approved Denied	by DWR/GMD	Dismiss by Request/Failure	to Return				
6. Enclosures:	rm 🔲 Water Tube	☑ Driller Copy	☑ Meter				
7a. Applicant(s) Person ID New to system ☐ Add Seq#	.7c. Landown New to sy		Person IDAdd Seq#				
KNIGHT FEEDLOT INC 1768 AVENUE J LYONS KS 67554-8805		, , , , , , , , , , , , , , , , , , ,					
7b. Landowner(s) Person ID New to system ☐ Add Seq#	7d. Misc. New to sy	ystem □	Person IDAdd Seq#				
7a	1700 E	NVIRONMENTAL S IRON AVE A KS 67401	ERVICES INC				
8. WUR Correspondent Person ID New to system Add Seq# Overlap File (s) WUC Agree Yes No 7a	☐ IRR ☐ STK ☐ HYD DRG	☐ REC ☐ C	Surface Water DEW				
10. Completion Date: 12/31/2020 11. Perfection Date: 12/31/2024 12. Exp Date:							
	13. Conservation Plan Required? ☐ Yes ☒ No Date Required: Date Approved: Date to Comply:						
14. Water Level Measuring Device? ☐ Yes ☒ No	Date to Comply:	Date WLWD Insta	alicu.				
Date Prepared: 12/18/2018 By: DWS Date Entered: 3 12 2019 By: UM							

File No.	50,153	}		15. F	ormatio	n Cod	e: 100	/330		Drain	age B	asin: (Cow C	reek		C	ounty:	RC		Sp	ecial U	se:		Stream:	
16. Poin T MOD	ts of Diver	sion											-			17. F		nd Qua		MOD A	ADDL (QTY	Additiona	ı	
DEL ENT	PDIV		Qualif	ier	S	٦	Γ	R	II)	'N		'V	V			ate pm			antity .		Rate gpm		Quantity mgy	Overlap PD Files
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18. Stora	ge: Rate				NF	=	Qua	ntity			-		_ ac/ft	A	ddition	nai Rat	e				NF	Add	tional Qua	ntity	ac/ft
	ation:	17	4.25		MG/yr af/yr at		gpr	n (cfs) wh		mbine			umber						90; 38	,175; 38	3,177; 47,	276; 47,277; 5	0,093 & 50,094
20. Mete	r Required	? 🛛	Yes 🗌	No	,	То	be ins	talled l	by		12	2/31/	2020)		_ D	ate Ac	ceptal	ole Me	ter Inst	alled _				
21. Plac	e of Use						NE	Ξ1/4			NV	V¹/4			sv	V¹/4			s	E¼		Total	Owner	Chg? NO	Overlap Files
MOD DEL ENT	PUSE	S	T F	٦ ات		NE ¼	NW 1⁄4	SW 1/4	SE ¼	NE ¼	NW ¼	SW ¼	SE 1/4	NE 1⁄4	NW 1⁄4	SW 1/4	SE ¼	NE ¼	NW ¼	SW ¼	SE 1/4				
			19 (1	FEI	EDL	ОΤ	- EN	ITIR	E SI	ECT	ION										7a.	NO	See Below
	1,175																								
														277;	50,09	93; 5	0,094	& 5	0,153	all o	verla	in Pla	ce of U	se.	
CITY O	F LYON	S FI	LES: F	RC-2;	3,543	and	9,99	7 ov	erlap	in P	lace	of U	se.										7		·
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KANSAS DEPARTMENT OF AGRICULTURE Division of Water Resources <u>M E M O R A N D U M</u>

TO: Files December 18, 2018

FROM: Doug Schemm **RE:** Application, File No. 50,153

Knight Feedlot Inc has filed the above referenced application proposing to appropriate 35.585 million gallons (100 acre-feet), at a diversion rate of 80 gallons per minute for stockwatering use. The proposed well is located in the Northeast Quarter of Section 15, Township 19 South, Range 8 West, Rice County, Kansas, within the Cow Creek drainage basin. The applicant has signed the application form stating that they have legal access to the point of diversion. There are no overlapping files in point of diversion. However, this application is part of an expanding feedlot operation, which has multiple overlapping files in place of use, including seven senior water rights, File Nos. 34,290; 38,175; 38,177; 47,276; 47,277; 50,093; and 50,094. KLA Environmental Services, Inc. assisted with the application process.

File No. 34,290 is authorized 3 million gallons, File No. 38,175 is authorized 15.4 million gallons, File No. 38,177 is authorized 16.16 million gallons, File No. 47,276 is authorized 31.536 (limited to 109.5 million gallons with 24.24 million gallons additional), File No. 47,277 is authorized 21.024 million gallons (limited to 109.5 million gallons with 0 additional), File No. 50,093 is authorized 100 million gallons (limited to 174.25 million gallons), and File No. 50,094 is authorized 47.3 million gallons (limited to 174.25 million gallons). Note that in addition to being limited with these senior STK files, these files are also limited in quantity with File Nos. RC-2; 3,543 and 9,997, which are owned by the City of Lyons. File No. RC-2 can provide 23 million gallons; File No. 3,543 can provide 7.1 million gallons; and File No. 9,997 can provide 24.6 million gallons for a total of 54.7 million gallons from the City of Lyons. The applicant's files are limited to total of 174.25 million gallons when combined with the City's files. Note that recent Place of Use changes were approved on all senior files to create a complete overlap in Place of Use with new applications (entire Section 23).

The applicant provided an estimate for total water needs, as follows: 30,000 head of cattle x 10.5 gallons per head per day x 365 days = 114.975 million gallons. This is less than the typical maximum value requested of 15 gallons per head per day, which would equate to 164.25 million gallons. In addition, for similar operations water for cooling, sanitation, and other uses, can be estimated at 10 million gallons, for a total of 174.25 million gallons. As noted above, the authorized quantity for the feedlot supply is 174.25 million gallons. Therefore, it is proposed that File No. 50,153 will be limited to 174.25 million gallons with all senior files, providing 0 additional water. This additional well will provide flexibility and backup supply for the feedlot if any other wells were to fail.

The applicant provided multiple test hole logs with the previous applications and a well log for the pending application. In addition, during the processing of File Nos. 47,276 and 47,277 the applicant was required to provide additional hydrogeological data due to failure to meet well spacing for the confined Dakota system aquifer. Ground Water Associates, Inc. conducted pumping tests and reviewed available geologic reports and well logs, and prepared a letter dated July 23, 2009. This letter indicates that there are two aquifers, a shallow unconsolidated Quaternary Age aquifer composed of silt and sand, and a deeper sandstone aquifer (Dakota system). The letter also notes that both aquifers are considered to be semiconfined. Pump test results showed minimal drawdown of less than one foot in a well just 50 feet away from the pumping well, and no drawdown at wells 400 feet and 800 feet away. Based on this data, DWR approved File Nos. 47,276 and 47,277 noting that the required minimum well spacing criteria is not necessary to prevent direct impairment in this instance.

In general, the nearby well logs show clay and "Dakota drift" extending to depths of 40 feet to 60 feet below ground, underlain by interbedded sandstone and shale. The sandstone units range from 6 feet to 27 feet in thickness, with several of them labeled as "coarse".

Knight Feedlot Inc. File No. 50,153 Page 2

However, the well log submitted with this pending application extends to a total depth of 260 feet, which is significantly deeper (over 100 feet deeper) than other nearby wells. Depths to sandstone and static water level were also considerably deeper, and the static water level extends above the top of the sandstone aquifers. This well log also does not contain any of the shallower drift deposits other area wells show. Based on the depth to the aquifer and static water level, this well log indicates it is sourcing the confined Dakota aquifer system. As noted above, the senior files to the south and nearby domestic wells are sourcing unconfined Dakota aquifer system and Quaternary deposits.

As discussed above, the source of water for the pending application appears to be the confined Dakota aquifer system based on the test hole log that was submitted. No specific safe yield evaluation has been adopted by the chief engineer for the confined Dakota aquifer system, although it is likely that the confined Dakota aguifer system would receive significantly less recharge then a near-surface, unconfined aguifer. Therefore, in order to better represent the potential recharge to this confined aguifer, it was determined that the saturated thickness of the aquifer and the thickness of the confining unit are critical factors. Limited saturated thickness with a significant confining unit would get less recharge (0.3 times the "standard" K.A.R. 5-3-11 value), while significant saturated thickness with a limited confining unit would get more recharge (0.5 times the "standard" K.A.R. 5-3-11 value). This well log shows only 22 feet of saturated thickness and over 200 feet of confining unit (clay and shale). Dividing the saturated thickness by the confining unit thickness (22/257) results in a factor of 0.11. A factor less than 1 gets 0.3 times the "normal" recharge. The K.A.R. 5-3-11 safe yield recharge value was determined to be 1.9 inches. Multiplying 1.9 inches x 0.3 results in a recharge of 0.5 inches. The area of consideration was determined to be 3,209 acres (truncating out all of the south portion of the circle). Therefore, 3,209 acres x 0.5 inches x 100% recharge available / 12 provides a safe yield of 133.71 acre-feet. There are no existing appropriations sourcing the confined Dakota aquifer system in this area, leaving 133.71 acre-feet available, and the application meets safe yield (see attached calculation sheets).

The applicant did not identify any wells within one-half (½) mile of the proposed point of diversion. A review of aerial photo maps also indicates that there are no nearby residences or other structures, which would indicate there are no nearby domestic wells. Per K.A.R. 5-4-4, for the confined Dakota aquifer system, well spacing is 2,640 feet to domestic wells and 4 miles to non-domestic wells, and the application appears to comply with well spacing criteria to all other wells. The nearest non-domestic wells are all sourcing the unconfined Dakota aquifer system. The applicant owns all of the other wells in this area, and the nearest non-domestic well is over 4,500 feet away (and in a different source).

In accordance with K.S.A. 82a-706c, the Chief Engineer retains full authority to require any water user to install meters, gages, or other measuring devices, which devices he or she or his or her agents may read at any time. Water flowmeter requirements are further described in K.A.R. 5-1-4 through K.A.R. 5-1-12. If any chemical or foreign substance is injected into the water pumped under this permit, a check valve will also need to be installed.

In a December 12, 2018 e-mail, Jeff Lanterman, Water Commissioner, Stafford Field Office, recommended approval of the referenced application. Based on the above discussion, well spacing and safe yield criteria are met, approval of the application will not impair senior water rights nor prejudicially or unreasonably affect the public interest, and it will provide greater flexibility in sources of water and provide backup in case of other well failure, it is recommended that the referenced new application be approved.

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, Acting Secretary

Laura Kelly, Governor

March 15, 2019

KNIGHT FEEDLOT INC 1768 AVENUE J LYONS KS 67554-8805

Re: Appropriation of Water, File No. 50,153

Dear Mr. Knight:

There is enclosed a permit to appropriate water authorizing you to proceed with construction of the proposed diversion works (except those dams and stream obstructions regulated by K.S.A. 82a-301 through 305a), to divert such unappropriated water as may be available from the source and at the location specified in the permit, and to use it for the purpose and at the location described in the permit.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in these approval documents. A water meter is required on the proposed diversion works and you must install it prior to water being put to beneficial use in order for you to maintain accurate records of water use. The meter should be used to provide the information required on the annual water use report.

Failure to notify the Chief Engineer of the Division of Water Resources of the completion of the diversion works within the time allowed, or within any authorized extension of time thereof, will result in the dismissal of this permit. Enclosed is a form which may be used to notify the Chief Engineer that the proposed diversion works have been completed. All requests for extensions of time to complete diversion works, or to perfect appropriations, must be submitted to the Chief Engineer before the expiration of time originally set forth in the permit to complete diversion works or to perfect an appropriation. If for any reason, you require an extension of time, you must request it before the expiration of time set forth in this permit. Failure to comply with this regulation will result in the dismissal of your permit or your water right. Any request for an extension of time shall be accompanied by the required statutory fee, which is currently \$100.00.

There is also enclosed an information sheet setting forth the procedure to obtain a Certificate of Appropriation which will establish the extent of your water right. If you have any questions, please contact our office. If you wish to discuss this specific file, please have the file number ready so that we may help you more efficiently.

Sincerely

Change Application Unit Supervisor

Water Appropriation Program

A. Turney, P.G.

BAT:dws Enclosures

pc:

Stafford Field Office

KLA Environmental Services, Inc.

KANSAS DEPARTMENT OF AGRICULTURE Mike Beam, Acting Secretary of Agriculture

DIVISION OF WATER RESOURCESDavid W. Barfield, Chief Engineer

APPROVAL OF APPLICATION and PERMIT TO PROCEED

(This Is Not a Certificate of Appropriation)

This is to certify that I have examined Application, File No. 50,153 of the applicant

KNIGHT FEEDLOT INC 1768 AVENUE J LYONS KS 67554-8805

for a permit to appropriate water for beneficial use, together with the maps, plans and other submitted data, and that the application is hereby approved and the applicant is hereby authorized, subject to vested rights and prior appropriations, to proceed with the construction of the proposed diversion works (except those dams and stream obstructions regulated by K.S.A. 82a-301 through 305a, as amended), and to proceed with all steps necessary for the application of the water to the approved and proposed beneficial use and otherwise perfect the proposed appropriation subject to the following terms, conditions and limitations:

- 1. That the priority date assigned to such application is **October 29, 2018.**
- 2. That the water sought to be appropriated shall be used for stockwatering use at a cattle feedlot located in Section 23, in Township 19 South, Range 8 West, Rice County, Kansas.
- 3. That the authorized source from which the appropriation shall be made is groundwater, to be withdrawn by means of one (1) well located in the Southeast Quarter of the Northeast Quarter of the Northeast Quarter (SE½ NE½ NE½) of Section 15, more particularly described as being near a point 4,170 feet North and 13 feet West of the Southeast corner of said section, in Township 19 South, Range 8 West, Rice County, Kansas, located substantially as shown on the topographic map accompanying the application.
- 4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of **80 gallons** per minute (0.18 c.f.s.) and to a quantity not to exceed **32.585 million gallons** (100 acre-feet) of water for any calendar year.
- 5. That installation of works for diversion of water shall be completed on or before <u>December 31, 2020</u> or within any authorized extension thereof. The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of \$400.00 when construction of the works has been completed. Failure to timely submit the notice and the fee will result in revocation of the permit. Any request for an extension of time shall be submitted prior to the expiration of the deadline and shall be accompanied by the required statutory fee of \$100.00.
- 6. That the proposed appropriation shall be perfected by the actual application of water to the proposed beneficial use on or before <u>December 31, 2024</u> or any authorized extension thereof. Any request for an extension of time shall be submitted prior to the expiration of the deadline and shall be accompanied by the required statutory fee of \$100.00.

- 7. That the applicant shall not be deemed to have acquired a water appropriation for a quantity in excess of the amount approved herein nor in excess of the amount found by the Chief Engineer to have been actually used for the approved purpose during one calendar year subsequent to approval of the application and within the time specified for perfection or any authorized extension thereof.
- 8. That the use of water herein authorized shall not be made so as to impair any use under existing water rights nor prejudicially and unreasonably affect the public interest.
- 9. That the right of the appropriator shall relate to a specific quantity of water and such right must allow for a reasonable raising or lowering of the static water level and for the reasonable increase or decrease of the streamflow at the appropriator's point of diversion.
- 10. That this permit does not constitute authority under K.S.A. 82a-301 through 305a to construct any dam or other obstruction; nor does it grant any right-of-way, or authorize entry upon or injury to, public or private property.
- 11. That all diversion works constructed under the authority of this permit into which any type of chemical or other foreign substance will be injected into the water pumped from the diversion works shall be equipped with an in-line, automatic quick-closing, check valve capable of preventing pollution of the source of the water supply. The type of valve installed shall meet specifications adopted by the Chief Engineer and shall be maintained in an operating condition satisfactory to the Chief Engineer.
- 12. That an acceptable water flow meter shall be installed and maintained on the diversion works authorized by this permit in accordance with Kansas Administrative Regulations 5-1-4 through 5-1-12 adopted by the Chief Engineer. This water flow meter shall be used to provide an accurate quantity of water diverted as required for the annual water use report (including the meter readings at the beginning and end of the report year).
- 13. That the applicant shall maintain accurate and complete records from which the quantity of water diverted during each calendar year may be readily determined and the applicant shall file an annual water use report with the Chief Engineer by March 1 following the end of each calendar year. Failure to file the annual water use report by the due date shall cause the applicant to be subject to a civil penalty.
- 14. That no water user shall engage in nor allow the waste of any water diverted under the authority of this permit.
- 15. That failure without cause to comply with provisions of the permit and its terms, conditions and limitations will result in the forfeiture of the priority date, revocation of the permit and dismissal of the application.
- 16. That the right to appropriate water under authority of this permit is subject to any minimum desirable streamflow requirements identified and established pursuant to K.S.A. 82a-703c for the source of supply to which this water right applies.
- 17. That the quantity of water approved under this permit is further limited to the quantity which combined with Vested Water Right, RC-02; Water Right, File Nos. 3,543; 9,997; 34,290; 38,175; 38,177; and Appropriation of Water, File Nos. 47,276; 47,277; 50,093; and 50,094, will provide a **total not to exceed 174.25 million gallons of water** per calendar year for stockwatering use as described herein.

RIGHT TO A HEARING AND TO ADMINISTRATIVE REVIEW

If you are aggrieved by this Order, then pursuant to K.S.A. 82a-1901, you may:

- 1) request an evidentiary hearing before the Chief Engineer, or
- 2) request administrative review by the Secretary of Agriculture.

Failure to request an evidentiary hearing before the Chief Engineer does not preclude your right to administrative review by the Secretary. To obtain an evidentiary hearing before the Chief Engineer, a written request for hearing must be filed within 15 days after service of this Order as provided in K.S.A. 77-531 (i.e., within a total of 18 days after this Order was mailed to you), with: Kansas Department of Agriculture, Attn: Legal Section, 1320 Research Park Drive, Manhattan, Kansas 66502, FAX (785) 564-6777.

If you do not file a request for an evidentiary hearing before the Chief Engineer, you may petition for administrative review of the Order by the Secretary of Agriculture. A petition for review shall be in writing and state the basis for requesting administrative review. The request for hearing may be denied if the request fails to clearly establish factual or legal issues for review. See K.S.A. 77-527. The petition must be filed within 30 days after service of this Order as provided in K.S.A. 77-531 (i.e., within a total of 33 days after this Order was mailed to you), and be filed with: Secretary of Agriculture, Attn: Legal Division, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502, FAX (785) 564-6777.

If neither a request for an evidentiary hearing nor a petition for administrative review is filed as set forth above, then this Order shall be effective and become a final agency action as defined in K.S.A. 77-607(b). Failure to timely request either an evidentiary hearing or administrative review may preclude further judicial review under the Kansas Judicial Review Act.

Ordered this Cott day of Ordered this Cotton 2019, in Manhattan, Riley County, Kansas. David W. Barfield, P.E. Chief Engineer Division of Water Resources DEPARTMENT OF Kansas Department of Agriculture State of Kansas)SS

County of Riley

day of March The foregoing instrument was acknowledged before me this David W. Barfield, P.E., Chief Engineer, Division of Water Resources, Kansas Department of Agriculture.



CERTIFICATE OF SERVICE

On this Standard day of March , 2019, I hereby certify that the foregoing Approval of Application and Permit to Proceed, File No. 50,153, dated March 10, 7019 was mailed postage prepaid, first class, US mail to the following:

KNIGHT FEEDLOT INC 1768 AVENUE J LYONS KS 67554-8805

With photocopies to:

KLA ENVIRONMENTAL SERVICES INC 1700 E IRON AVE SALINA KS 67401

STAFFORD FIELD OFFICE

Division of Water Resources



KANSAS DEPARTMENT OF AGRICULTURE

Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES

David W. Barfield, Chief Engineer

File Number 50153
This item to be completed by the Division of Water Resources.

Water Resources Received

APPLICATION COMPLETE

[2 / 12 / 18

Reviewer <u>CAB</u>

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

OCT 29 2018
1:10
KS Dept Of Agriculture

Filing Fee Must Accompany the Application (Please refer to Fee Schedule attached to this application form.)

To the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502:

	Name of Applicant (Please Pri Address: 1768 Avenue		ot, Inc.		Ng i	<u> </u>
	City: Lyons		Sta	te KS	Zip Code	67554
	Telephone Number: (620) 257-5106	7		. •	
2.	The source of water is:	☐ surface water in		(strea	m)	
	OR	☑ groundwater in _	Cow Creek	(drainage	hasin)	
	Certain streams in Kansas I when water is released from these regulations on the date return to the Division of Wat	storage for use by wa e we receive your ap	ater assurance dis	trict members.	If your app	lication is subject to
3.	The maximum quantity of w	ater desired is <u>100</u>	acre-feet	OR	gallons	per calendar year,
	to be diverted at a maximum	n rate of <u>80</u>	gallons per mir	ute OR	cub	oic feet per second.
	Once your application has t			d maximum ra	te of divers	sion and maximum
	requested quantity of water umaximum rate of diversion a project and are in agreemen	and maximum quant	ity of water are ap	increased. Ple propriate and	reasonable	tain your requested
4.	maximum rate of diversion a	and maximum quant nt with the Division o	ity of water are ap f Water Resource	increased. Ple propriate and	reasonable	tain your requested
4.	maximum rate of diversion a project and are in agreemen	and maximum quant nt with the Division o	ity of water are ap f Water Resource	increased. Ple propriate and s' requirements	reasonable s.	tain your requested
4.	maximum rate of diversion a project and are in agreemer The water is intended to be	and maximum quant not with the Division of appropriated for (Che	ity of water are ap f Water Resource eck use intended): (c) □ Recr	increased. Ple propriate and s' requirements	reasonable s. (d) □	tain your requested for your proposed
4.	maximum rate of diversion a project and are in agreemen. The water is intended to be (a) Artificial Recharge	and maximum quant it with the Division of appropriated for (Cho (b) Irrigation	ity of water are ap f Water Resource eck use intended): (c) □ Recr (g) ☑ Stoc	increased. Ple propriate and s' requirements eational	reasonable s. (d) 🗆 (h) 🗖	tain your requested for your proposed Water Power
4.	maximum rate of diversion a project and are in agreemen. The water is intended to be (a) □ Artificial Recharge (e) □ Industrial	and maximum quant it with the Division of appropriated for (Che (b)	ity of water are ap f Water Resource eck use intended): (c) ☐ Recr (g) ☐ Stoc (k) ☐ Hydr	increased. Ple propriate and s' requirements eational kwatering	reasonable s. (d) 🗆 (h) 🗖	tain your requested for your proposed Water Power Sediment Control

5.	The location of the proposed wells, pump sites or other works for diversion of water is:
	Note: For the application to be accepted, the point of diversion location must be described to at least a 10 acre tract, unless you specifically request a 60 day period of time in which to locate the site within a specifically described, minimal legal quarter section of land.
	(A) One in the <u>SE</u> quarter of the <u>NE</u> quarter of the <u>NE</u> quarter of Section <u>15</u> , more particularly
	described as being near a point 4170 feet North and 13 feet West of the Southeast corner of said
	section, in Township 19 South, Range 8 East/West (circle one), Rice County, Kansas
	(B) One in the quarter of the quarter of the, more particularly
	described as being near a point feet North and feet West of the Southeast corner of said
	section, in Township South, Range East/West (circle one), County, Kansas
	(C) One in the quarter of the quarter of the quarter of Section, more particularly
	described as being near a point feet North and feet West of the Southeast corner of said
	section, in Township South, Range East/West (circle one), County, Kansas
	(D) One in the quarter of the quarter of the quarter of Section, more particularly
	described as being near a point feet North and feet West of the Southeast corner of said
	section, in Township South, Range East/West (circle one), County, Kansas
	If the source of supply is groundwater, a separate application shall be filed for each proposed well or battery of wells, except that a single application may include up to four wells within a circle with a quarter (1/4) mile radius in the same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well
	A battery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than four wells in the same local source of supply within a 300 foot radius circle which are being operated by pumps not to exceed a total maximum diversion rate of 800 gallons per minute and which supply water to a common distribution system.
6.	The owner of the point of diversion, if other than the applicant is (please print): Knight Farms, Inc., 1768 Avenue J, Lyons, KS 67554 620-257-5106
	(name, address and telephone number)
	(name, address and telephone number)
	You must provide evidence of legal access to, or control of, the point of diversion from the landowner or the landowner's authorized representative. Provide a copy of a recorded deed, lease, easement or other document with this application. In lieu thereof, you may sign the following sworn statement:
	I have legal access to, or control of, the point of diversion described in this application from the landowner or the landowner's authorized representative. I declare under penalty of perjury that the foregoing is true and correct.
	Executed on October 23, 2018. X
٠	Applicant's Signature
	The applicant must provide the required information or signature irrespective of whether they are the landowner Failure to complete this portion of the application will cause it to be unacceptable for filing and the application will be returned to the applicant.
7.	The proposed project for diversion of water will consist ofone well
	and (was)(will be) completed (by) 12/31/2018 (number of wells, pumps or dams, etc.)
0	(Month/Day/Year - each was or will be completed) The first actual application of water for the proposed beneficial ພുട്ടെ அது துது இது to be
8.	(Mo/Day/Year) Received

OCT 29 2018

SCANNED

9.	Will pesticide, for	ertilizer, or other foreign substance be injected into the water pumped from the diversion works?
	☐ Yes 🗵 No	If "yes", a check valve shall be required.
	All chemigation	safety requirements must be met including a chemigation permit and reporting requirements.
10.	submitting the	ning to impound water, please contact the Division of Water Resources for assistance, prior to application. Please attach a reservoir area capacity table and inform us of the total acres of e area above the reservoir.
	Have you also Water Resource	made an application for a permit for construction of this dam and reservoir with the Division of es? \Box Yes \Box No
	 If yes, show 	the Water Structures permit number here
	• If no, expla	in here why a Water Structures permit is not required
11.	showing the foll section, the sec	must be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat owing information. On the topographic map, aerial photograph, or plat, identify the center of the tion lines or the section corners and show the appropriate section, township and range numbers. ow the following information:
	works) sho	n of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion uld be plotted as described in Paragraph No. 5 of the application, showing the North-South d the East-West distance from a section line or southeast corner of section.
	mile of the	ation is for groundwater, please show the location of any existing water wells of any kind within $\frac{1}{2}$ proposed well or wells. Identify each existing well as to its use and furnish the name and mailing the property owner or owners. If there are no wells within $\frac{1}{2}$ mile, please advise us.
		ation is for surface water, the names and addresses of the landowner(s) $\frac{1}{2}$ mile downstream and ream from your property lines must be shown.
•	(d) The location photograph	n of the proposed place of use should be shown by crosshatching on the topographic map, aerial or plat.
		cation of the pipelines, canals, reservoirs or other facilities for conveying water from the point of the place of use.
		te U.S.G.S. topographic map may be obtained by providing the section, township and range : Kansas Geological Survey, 1930 Constant, Campus West, University of Kansas, Lawrence, 047.
12.	points or any of	tion, appropriation of water, water right, or vested right file number that covers the same diversion the same place of use described in this application. Also list any other recent modifications made nits or water rights in conjunction with the filing of this application.
		ht File Nos. A 50080, A 50079, A 50078, A 50093, A 50094, A 47276, A 47277, A 34290, and A 38177
		Water Resources
		Received

OCT 29 2018 SCANNED



FEE SCHEDULE

1. The fee for an application for a permit to appropriate water for beneficial use, except for domestic use, shall be (see paragraph No. 2 below if requesting storage):

ACRE-FEET	FEE
0-100	\$200.00
101-320	\$300.00
More than 320	\$300.00 plus \$20.00 for each additional 100 acre-feet or any part thereof.

2. The fee for an application in which storage is requested, except for domestic use, shall be:

ACRE-FEET	FEE
0-250	\$200.00
More than 250	\$200.00 plus \$20.00 for each additional 250 acre-feet of storage or any part thereof.

Note: If an application requests both direct use *and* storage, the fee charged shall be as determined under No. 1 or No. 2 above, whichever is greater, but not both fees.

3. The fee for an application for a permit to appropriate water for water power or dewatering purposes shall be \$100.00 plus \$200.00 for each 100 cubic feet per second, or part thereof, of the diversion rate requested.

Note: The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of \$400.00 when construction of the works for diversion has been completed, except that for applications filed on or after July 1, 2009, for works constructed for sediment control use and for evaporation from a groundwater pit for industrial use shall be accompanied by a field inspection fee of \$200.00.

MAKE CHECKS PAYABLE TO THE KANSAS DEPARTMENT OF AGRICULTURE

ATTENTION

A Water Conservation Plan may be required per K.S.A. 82a-733. A statement that your application for permit to appropriate water may be subject to the minimum desirable streamflow requirements per K.S.A. 82a-703a, b, and c may also be required from you. After the Division of Water Resources has had the opportunity to review your application, you will be notified whether or not you will need to submit a Water Conservation Plan. You also may be required to install a water flow meter or water stage measuring device on your diversion works prior to diverting water. There may be other special conditions or Groundwater Management District regulations that you will need to comply with if this application is approved.

CONVERSION FACTORS

1 acre-foot equals 325,851 gallons

1 million gallons equal 3.07 acre-feet

Water Resources Received

OCT 29 2018 SCANNED

KS Dept Of Agriculture

13.	Furnish the following well info has not been completed, give					ndwater. If the well
	Information below is from:	☐ Test holes	⊠ Well a	s completed	☐ Drillers lo	og attached
	Well location as shown in par	ragraph No.	(<u>A</u>)	(B)	(C)	(D)
	Date Drilled		Unknown			
	Total depth of well		230'			
	Depth to water bearing forma	ation	Unknown			·
	Depth to static water level		80'			······································
	Depth to bottom of pump inta	ike pipe	220'			
14.	The relationship of the app	plicant to the	proposed pl	ace where	the water will b	e used is that of
	(owner, tenant, agent or otherwise) .				
15.	The owner(s) of the property		ter is used, if o			ease print):
		(name, au	uress and tele	phone numb	si)	
		(name, add	dress and tele	phone numb	er)	
16.	The undersigned states that this application is submitted in		set forth abov	e is true to th	e best of his/her	knowledge and that
	Dated at Lyons	•	as, this $\overline{23}$	day of	october	2018
	,				(month)	(year)
	.,/					
·χ	LAST.					-
,	(Āpplicant Signature	!)				
<u>By</u>	(Agent or Officer Signat	ture)				
	(Agent or Officer - Please	Print)	_			
۸ مه زی ام	4 h.,				Data	
45515160	d by		(of	fice/title)	Date:	

Water Resources Received

OCT 29 2018

SCANNED KS Dept Of Agriculture

STOCKWATER USE SUPPLEMENTAL SHEET

File No.	50	153

Name of Applicant (Please Print):	Knight Feedlot, Inc.
-----------------------------------	----------------------

- 1. Please indicate type of livestock (cattle, hogs, etc.): Cattle (greater than 700 pounds)
- 2. Please complete the following table showing past and present water requirements:

PAST NUMBER OF HEAD AND WATER DIVERTED, IF APPLICABLE

LAST 5 YEARS	NUMBER OF HEAD	WATER DIVERTED (GALLONS)	GALLONS PER HEAD PER DAY
5 years ago	8,575	42,340,150	12.92
Last year	11,875	50,847,140	11.75
Present Year	13,442	22,041,410	10.90

3. Please complete the following table showing estimated future water requirements:

DWR 1-100.26 (2/3/94)

ESTIMATED FUTURE NUMBER OF HEAD AND WATER DIVERTED

NEXT 5 YEARS	NUMBER OF HEAD	WATER TO BE DIVERTED (GALLONS)	GALLONS PER HEAD PER DAY
Year 1	30,000	114,975,000	10.5
Year 2	30,000	114,975,000	10.5
Year 3	30,000	114,975,000	10.5
Year 4	30,000	114,975,000	10.5
Year 5	30,000	114,975,000	10.5

Please attach any additional information, tables, or curves showing past, present and estimated future water requirements to substantiate the amount of water requested.

4. Please designate the legal description of the location where the water is to be used. Show in the space provided below the Section (S), Township (T), and Range (R), and the number of acres in each forty acre tract or fractional portion thereof.

	· T B		NE¼			NW¼			SW¼			SE¼			TOTAL				
3	J	К	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	SW	SE	IOIAL
23	19	8W	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640

Water Resources Received

Page 1 of 2

OCT 29 2018

SCANNED



5.	Show quantities of water used and all associated water uses at the feedlot such as water used in feed mills, cooling
	of animals, washing, flushing of wastes, etc.:
	<u>DRINKING</u>
	$30,000$ head of Cattle x 10.5 gallons/head (avg.) x 365 days = $\frac{114,975,000}{2}$ gallons
	head of x gallons/head (avg.) x days = gallons
	head of x gallons/head (avg.) x days = gallons
	COOLING
	gallons/hour x hour/day x days = gallons
	SANITATION
	g.p.m. x 60 min/hr x hr/wk x wks/yr = gallons
	OTHER USE (Explain) = gallons
	<u>TOTAL</u> gallons
6.	Show location of present and future location of confinement pens on your attached maps or photographs.
	,
7.	Total feed bunk space for cattle or livestock is linear feet.
8.	Total size of stock pens for confinement area of cattle, hogs, etc. is square feet.
Yoı	a may attach any additional information you believe will assist in informing the Division of Water Resources of the

You may attach any adneed for your request.

Water Resources Received

OCT 29 2018

Page 2 of 2

DWR 1-100.26 (2/3/94)

Schemm, Doug [KDA]

Subject:

FW: 50,153 Knight Feedlot

From: Lanterman, Jeff [KDA]

Sent: Wednesday, December 12, 2018 10:40 AM **To:** Schemm, Doug [KDA] < Doug. Schemm@ks.gov> **Cc:** Conant, Cameron [KDA] < Cameron. Conant@ks.gov>

Subject: RE: 50,153 Knight Feedlot

Doug.

Based on that well log I totally agree with you on confined Dakota. That is an interesting approach to SY for sure. Is this consistent with how all confined Dakota wells are evaluated? I also wonder how they decided how to screen and grout that well. Looks like the screen started in a clay layer and had about 70 feet till they probably hit aquifer material.

I think its good enough since there is essentially nothing else in that source in the area per your memo.

I feel confident that 80 GPM on a backup well with no additional quantity in a fairly unused aquifer is not going to cause impairment.

Approve it.

Jeff

From: Schemm, Doug [KDA]

Sent: Monday, December 3, 2018 4:47 PM

To: Lanterman, Jeff [KDA] < <u>Jeff.Lanterman@ks.gov</u>> **Cc:** Conant, Cameron [KDA] < <u>Cameron.Conant@ks.gov</u>>

Subject: 50,153 Knight Feedlot

So I decided to go with the confined Dakota for this new well. I don't know if you have seen my confined Dakota matrix before, but it reduces recharge quite a bit.

I've attached a well log, and my calculations. There are no other wells sourcing this deeper confined aquifer in this area within at least 4 miles.

I thought it would be a good idea to get this one done to go along with the other package.

Please review,

Thanks, Doug

Analysis Results

The selected PD is in an area OPEN to new appropriations. The safe yield based on the variables listed below is 381.09 AF. 133.71 Total prior appropriations in the circle is 100.00 AF. -100 = 0 Total quantity of water available for appropriation is 281.09 AF. 133.71

50,153 meets safe field for Confined Dakota Aguifa System.

Safe Yield Variables

The area used for the analysis is set at 3,209 acres.

The potential annual recharge at the circle center is estimated to be 1.9 inches. **x0.3** = 0.5

The percent of recharge available for appropriation is 75%.

(3209 Acro x0.5 x.75 \$12 = 133.71)

Authorized Quantity values are as of 03-DEC-2018 and are based on Appropriated and Vested ground water right and possible stream nodes for GMD #2. Domestic, Term and Temporary water rights have been excluded.

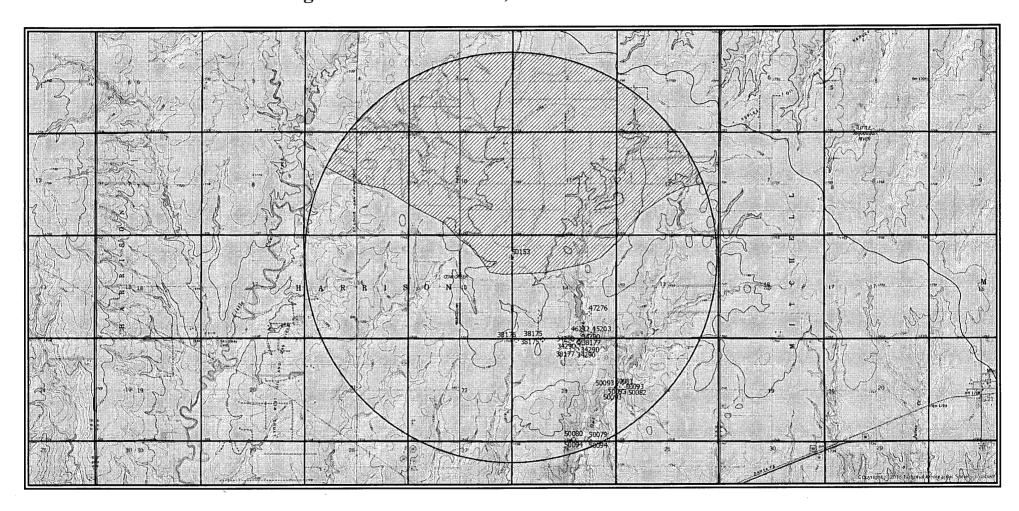
There is 1 water right and 1 point of diversion within the circle.

File Number	Use ST SR	Q4 Q3 Q2 Q1 FeetN	FeetW	Sec Twp Rng	ID Qind	Auth Quant A	Add Quant	Tot Acres	Net Acres
A 50153 00	STK AY G	SE NE NE 4170	13	15 19 08W	1 WR	100.00	109.00		•

Limitations

Fi	le Number	Seq Num Limitations
A	38177.00	1 40GPM COM/W #34,290
Α	472 7 6 00	1 109.5MGY COM/W #RC 2, 3543, 9997, 34290, 38175 & 38177
Α	. 4 7277 00	1 109.5MGY COM/W #RC 2, 3543, 9997, 34290, 38175, 38177 & 47276
		$m{t}$

Safe Yield Report Sheet Water Right- A5015300 Point of Diversion in 15-19S-08W Footages from SE corner- 4,170 feet North 13 feet West



CONFINED DAKOTA AQUIFER SYSTEM SAFE YIELD EVALUATION

FILE NUMBER:

50,153

0 11

Safe Yield Calculation

Thickness of Saturated Aquifer (in feet) divided by

Thickness of Confining Unit (in feet)

A Factor

22

2

Multiply Normal Recharge by 0.3 to get Confined Aquifer Recharge (in inches)

If Factor < 1

If Factor is between 1 and 2

Multiply Normal Recharge by 0.4 to get Confined Aquifer Recharge (in inches)

If Factor > 2

Multiply Normal Recharge by 0.5 to get Confined Aquifer Recharge (in inches)

200

Normal Recharge (per 5-3-11) = 1.9 inches

1.9 inches \times 0.3 = 0.5 inches of recharge

Area of consideration = 3209 acres Annual Recharge = 0.5 inches

Percent Recharge =

1 100%

Confined Dakota Aguifer Safe Yield =

133.708 acre-feet

This would provide more recharge to a well that has a thinner confining unit and greater saturated thickness (i.e. a higher factor score).

Further review indicates that saturated thickness of the aquifer and thickness of confining unit are the 2 key variables that would most likely influence well production and recharge, respectively.

Therefore, a weighted system was designed to account for this by dividing the saturated thickness by the thickness of the confining unit. The less confining unit you have the higher the recharge potential and the greater the saturated thickness the better production you will get from the well.

This ratio provides a factor which can be used to evaluate the percentage of safe yield to consider as reasonable. Saturated thickness is pertinent to safe yield since per definition it is "long-term sustainable yield of the source".

							. R	eport Date	プ う Tuesday, D	O_{j}	53 per 18 2018
AMOUNT STATISTICS REPO					153 0						
######################################								*########	##### A & *S	Sa	erine d
AMOUNT STATISTICS REPO Water Right and Points						00 STK .ned a:		liv	4 1	7	eacing of all other source
4170 Feet North and		1	-					19S R 8W	4 mile	o to	o all other
GROUNDWATER ONLY								rwe	ols in	· Sc	ame Saure
											0
	SR Dist (mi) Q4 Q3										of suppey
A 34290 00 STK NK Same	G* 1.06 NE 1.06 NE		7 1867 3 1874		19 19	8W :	10 G 2 4 B 2	9.21	9.21	Ar	
Same	1.05 NE				19	8W	9 B 2	•			
A 38175 00 STK NK					19	8W	8	47.26	47.26	AF	
A 38177 00 STK NK	G* 1.06 NE	NW NE 5067	1867	23	19	8₩	10 G 2	49.59	49.59	AF	
Same	1.06 NE				19	W8	4 B 2				
Same A 41196 00 IND NK	1.05 NE G 3.26 NE				19 19	8W 7W	9 B 2 5 G 3	22.34	22.34	ΔF	
Same	3.28 NE				19	7W	3 B 3	22	****	n.	
Same	3.25 NE				19	7W	4 B 3				
Same	3.26 NE			30	19	7W	6 B 3				
A 47276 00 STK KK		SW SE 1260			19	8W	2	96.78		AF	
A 47277 00 STK KK					19 19	W8 W8	1	64.52 50.00	.00 50.00	AF AF	
A 50078 00 STK AY A 50079 00 STK AY					19 19		12	50.00 50.00	50.00		
A 50080 00 STK AY					19		13	50.00		AF	
A 50081 00 STK AY			5 5241	24	19	8W	1	50.00	50.00	AF	
A 50082 00 STK AY	G 1.70 SW	SW NW 2765	4640	24	19	8W	2	50.00	50.00	AF	
A 50093 00 STK AY					19	8W	3 G 4	306.89	306.89	AF	
Same	1.63 SW				19	W8 We	1 B 4				
Same Same	1.70 SW 1.63 SW				19 19	8W 8W	2 B 4 4 B 4				
Same		NW SW 2515			19	8W	5 B 4				
A 50094 00 STK AY					19		11	145.16	145.16	AF	
Same	1.93 SE	SW SE 46	5 1374	23	19	8W	12				
Same	1.87 SW		2 2147		19	8W					
A 50131 00 IND KE		SE NW 3372			19	7W	5 G 3	61.38	39.04	AF	
Same Same		SE NW 3302 SE NW 3393			19 19	7W 7W	3 B 3 4 B 3				
Same		SE NW 3393 SE NW 3420			19	7W 7W	4 B 3				
A 50153 00 STK AY		NE NE 4170			19	8W	1	100.00	100.00	AF	
		========	.=====	=====				:=======		:====	
Total Net Quantities A			corage								
Total Requested Amount			.00								,
Total Permitted Amount			.00								
Total Inspected Amount Total Pro Cert Amount			.00								
Total Certified Amount			.00								

An \star after the source of supply indicates a pending application for change under the file number.

.00

.00

.00

969.49

Amount (AF) =

(AF) =

Total Vested

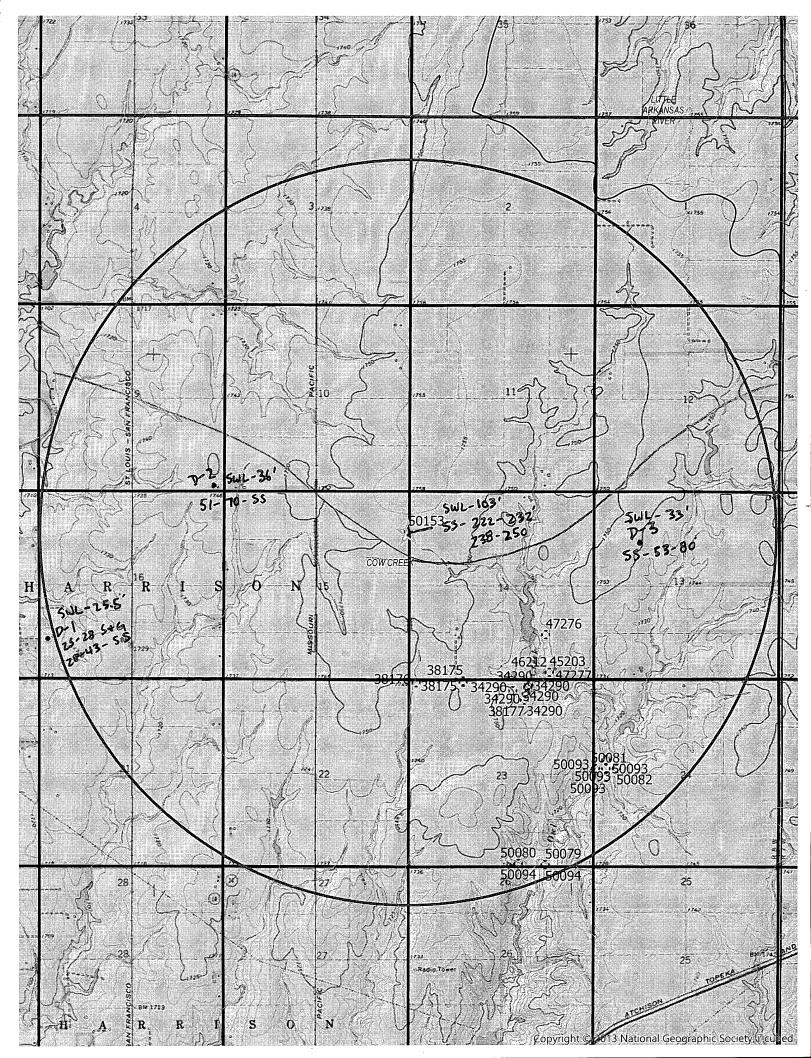
TOTAL AMOUNT

An * after the ID indicates a 15 AF exemption was granted under the file number.

A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the battery. The number in the Batt column is the number of wells in the battery.

467	755	1 ,,,,	TED WELL DE	CORD	Form WWC	.5 VCA	. 82a-1212 ID	2 No			+ 50	,153) .
1 LOCATION	OF WAT		Fraction	CORD	Point WWC		ection Number		ownship N	umber	R	ange Num	iber
County: Rice			SE 1	/4 NE	1/4 N	E 1/4	15	Т	19	S	R	8	E (W)
Distance and d	irection	from nearest t	own or city stree	et addres	s of well if loc	ated within	city?						
Approximatel	y 3 3/4 r	niles north and	1 1 mile east of L	yons									
2 WATER WE	LL OW	NER: Knight Fe	edlot					_				£347.1	
RR#, St. Addre City, State, ZIP		# :Route 1Lyons, KS							Board of Agr		Division	of Water	Resources
			4 DEPTH OF	COMPLI	ETED WELL	256	ft. ELE\			uniber.			
AN "X" IN S	ECTION	I BOX:	Depth(s) Grou					ft. 2	unknown	ft. 3			
T	N N		WELL'S STATI						ured on mo/				
† <u>.i</u> .	.		Pυ	ımp test o	iata: Well wat	ter was	ot checked ft	t. after		hours	pumping		gpm
	V — — —	- NE	Est. Yield ur										
₩ W			Bore Hole Diar	meter	7 7/8 in.	to	260 ft	., and			. in. to .		ft.
_ N		E	WELL WATER	TO BE USE	D AS: 5	Public wate	r supply	8 Air	conditioning		11 Inje	ction well	
sv	v – – l –	- SE	1 Domestic	3 F	eedlot 6	Oil field wat	er supply	9 Dew	vatering		12 Oth	er (specify t	oelow)
	•	1	2 Irrigation	4 in	dustrial 7	Domestic (la	awn & garden)	10 Mor	nitoring well	-		Stock Well	
\ <u>\</u>	<u> </u>		Was a chemica	l/bacteriol	ogical sample s	submitted to l	Department? Y	es	_ No _ _	_lf yes, ı			
5 TYPE OF BI	ANUC	A SING LISED:	mitted			8 Conc		ter Well I	Disinfected [®] CASING JOI	Yes	vod /	Clambe	
1 Steel	LANK C	3 RMP (SR)		5 Wrou	ght iron stos-Cement	•	r (specify below		JASING JOI				
2) PVC		4 ABS		7 Fiber		-	, ,	,					
Blank casing of	diameter	-	in, to	164	ft., Dia	5	in. to 2	234	ft., Dia		in. t	.0	ft
Casing height			24	in., weig	- '	0.00	lb	s./ft. Wal	I thickness o	or gauge	No	.214	
TYPE OF SC	REEN	OR PERFORA	TION MATERIA	 \L:		7) PVC				estos-ceme			*.*
1 Steel		3 Stainless		5 Fibe	erglass	8 RMP							
2 Brass		4 Galvanize	ed steel	6 Con	crete tile	9 ABS			12 None	e used (op	en hole)		
SCREEN OR	PERFO	RATION OPE	NINGS ARE:		5 Gauzed w	rapped		8 5	Saw cut	1	1 √None (open hole)	
1 Continuo	us slot	3	Mill slot		6 Wire wrap	ped			Orilled holes				<i>.</i> .
2 Louvered			Key punched		7 Torch cut			10 (Other (specify))	·		ft.
SCREEN-	PERFORA	TED INTERVALS:		164	ft. to	180	ft., Fro				to		ft. ft.
, ا	SRAVEL I	PACK INTERVAL	From IS: From	234 152	ft. to	254 260	ft., Fro ft., Fro				to		ft.
	31010	, north televal	From		ft. to		ft., Fro				to		ft.
6 GROUT	MATERI	AL: 1 Neat	cement 2 Cer	ment grout	3 Bento	nite		4 Other	Bentonite H	oleplug			
Grout Interva	de: Ero	m 20	Sand	_	ft., From	0		-	t., From	149	ft. to	152	2 ft.
1 .			ble contamination		it., From		ft. to 2 10 Livestock		, 1 10111			d water wel	
1 Septic tar		•	Lateral lines		7 Pit privy		11 Fuel stora	•			oil well/Ga		
2 Sewer lin			Cess pool		8 Sewage I	agoon	12 Fertilizer s	•		16 (Other (spe	cify below)	e e e
3 Watertigh			Seepage pit		9 Feedyard		13 Insecticide	-	None	known			
Direction from	كالصيد		,		•		How ma	any feet?					
	ro I		LITHOLOGIC L	OG		FROM	то	1	PLU	GGING I	NTERV	ALS	
0	5	Topsoil					 						
5	8	Clay, dark gra	av								•		
8	77	Clay, brown											
77	122	Clay, white a	nd yellow, sands	stone stre	aks								
122	160	Clay, dark gra	ay, sandstone st	treaks									
160	200	Clay, dark gra	ay										·
200	222	Shale, black										·	
222	232		ith shale streaks	3		<u> </u>		ļ					#
232	238	Shale, black									·		
238	250	Sandstone, s		latana at-		-							
250 254	254 260	Shale, red	h blue with sand	istone su	eaks		 						
254	200	Silale, leu											- :
						 			•				
7		AND C::::::::::::::::::::::::::::::::::::	OFDT:5:0:5:5:	T .	" / "	nonet-sets of) (2)	taudad C)(/2\ elve-	ed ·	nder	upindiation	and was
completed on (CERTIFICATION:			constructed			or (3) plugg se to the bes				and was ief. Kansas
			185	1-13-05	This Water V	Vell Record				/)		9-05	
under the busin	ness nar	ne of Clarke V	Vell & Equipmen	nt, inc.			t	oy (signatu	re)	aux	1	Can	

INSTRUCTIONS: Use typewriter or ball point pen. <u>PLEASE PRESS FIRMLY</u> and <u>PRINT</u> clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Topeka, Kansas 66620-0001. Telephone 785-296-5524. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each <u>constructed</u> well.



		R WELL RECORD	Form WWC-5	KSA 82a-1	<u> </u>	
1 LOCATION OF WATER WELL:	Fraction			on Number	Township Number	Range Number
County: Rice		, SW 1/4 SW		16	т 19 s	R 8 XB(W)
Distance and direction from nearest	town or city street a	address of well if local	ted within city?	_		
Approx. 3 miles north	and l mile w	est of K14 an	d 56 Hwys	in Lyons,	KS	
2 WATER WELL OWNER:	Richard F.	Hysell				
RR#, St. Address, Box # :	Route 3	,			Board of Agricult	ure, Division of Water Resources
City, State, ZIP Code :	Lyons, KS	67554			Application Numl	per: not required
LOCATE WELL'S LOCATION WI			49	# ELEVAT		own
AN "X" IN SECTION BOX:	Depth(s) Ground	dwater Encountered	1255	ft. 2.		ft. 3
NW NE	Pum	p test data: Well wa	aterwas not.	ck!d. ft. aft	er houi	s pumping gpm
	Bore Hole Diam	eter 9 in. t	to 47	ft., a	nd	in. toft.
* W	WELL WATER	TO BE USED AS:	5 Public water	supply 8	Air conditioning	11 Injection well
7 1 1 1	1 Domestic	3 Feedlot	6 Oil field water	er supply	Dewatering	12 Other (Specify below)
SW SE	2 Irrigation	4 Industrial				
1 [1		-	-		f yes, mo/day/yr sample was sub-
1	mitted	- Carrier Grand Carrier			er Well Disinfected? Ye	• • • • • • • • • • • • • • • • • • • •
5 TYPE OF BLANK CASING USE		5 Wrought iron	8 Concret			Glued . X , Clamped
1 Steel 3 RMP		6 Asbestos-Cemen		specify below)		Welded
	(Sh)			-		Threaded
2 PVC 4 ABS Blank casing diameter	20	7 Fiberglass	511			
Blank casing diameter	in. to 4.7	π., Dia	. וה. זה. וה. זה דרפי	··· サ /. · · · ·	π., Dia	In. το π
Casing height above land surface		in., weight				
TYPE OF SCREEN OR PERFORA	TION MATERIAL:		7 PVC		10 Asbestos	
1 Steel 3 Stain	less steel	5 Fiberglass	8 RMF	P (SR)	11 Other (sp	ecify)
2 Brass 4 Galv	anized steel	6 Concrete tile	9 ABS	;	12 None use	d (open hole)
SCREEN OR PERFORATION OPE	NINGS ARE:	5 Gar	uzed wrapped		8 Saw cut	11 None (open hole)
1 Continuous slot	3 Mill slot	6 Wir	e wrapped		9 Drilled holes	
2 Louvered shutter	4 Key punched	7 Tor	rch cut	•	10 Other (specify)	
SCREEN-PERFORATED INTERVA						. ft. toft.
CONFERM FIN CHAILD INVENTAL	LO. 110111					
	=					
		ft. to		ft., From	1	. ft. toft.
GRAVEL PACK INTERVA		ft. to .22 ft. to	47	ft., From		. ft. to
	LS: From From	ft. to .22 ft. to ft. to	47	ft., From ft., From ft., From		. ft. to
6 GROUT MATERIAL: a)1 No	LS: From From		b)3 Bentor	ft., From ft., From ft., From	1	ft. to
6 GROUT MATERIAL: a)1 No	LS: From From		b)3 Bentor	ft., From ft., From ft., From	1	. ft. to
6 GROUT MATERIAL: a)1 No	From pat cement t. to20		b)3 Bentor	ft., From tt., From ft., From nite 22	Dther	ft. to
6 GROUT MATERIAL: a)1 Notes of Grout Intervals: From	LS: From	ft. to 2 Cement grout 1	b)3 Bentor	ft., From ft., From ft., From o22	Other	ft. to .ft. ft. to .ft. ft. to ft.
6 GROUT MATERIAL: a)1 No Grout Intervals: From a)	ES: From From pat cement ft. to		b)3 Bentor) 20 ft. t	ft., From ft., From ft., From o22 10 Liveste	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No.	From From pat cement ft. to		b)3 Bentor) 20 ft. t	tt., From ft., From ft., From hite 4 (co	Dther	ft. to .ft. ft. to .ft. ft. to ft.
6 GROUT MATERIAL: a)1 No Grout Intervals: From. a)	From Prom Prom Prom Prom Prom Prom Prom P		b)3 Bentor) 20 ft. t	ft., From ft., From ft., From hite 4 (0) 22 10 Liveste 11 Fuel s 12 Fertiliz 13 Insecti	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No.	ES: From From Pat cement D. ft. to		b)3 <u>Bentor</u>) 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
6 GROUT MATERIAL: a)1 No Grout Intervals: From. a)	LS: From From eat cement ft. to	ft. to 2 Cement grout 1 ft., From b 7 Pit privy 8 Sewage la 9 Feedyard	b)3 Bentor) 20 ft. t	ft., From ft., From ft., From hite 4 (0) 22 10 Liveste 11 Fuel s 12 Fertiliz 13 Insecti	Dther	ft. to
GROUT MATERIAL: a)1 No Grout Intervals: From. a)	LS: From From pat cement ft. to 20 ible contamination: ateral lines less pool leepage pit est LITHOLOGIO & brown clay	ft. to 22 ft. to 2 Cement grout 1 ft., From b 7 Pit privy 8 Sewage la 9 Feedyard	b)3 Bentor) 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No Grout Intervals: From. a)	LS: From From pat cement ft. to 20 ible contamination: ateral lines less pool leepage pit est LITHOLOGIO & brown clay	ft. to 2 Cement grout 1 ft., From b 7 Pit privy 8 Sewage la 9 Feedyard	b)3 Bentor) 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No Grout Intervals: From. a)	LS: From	ft. to 2 Cement grout 1 From b 7 Pit privy 8 Sewage la 9 Feedyard C LOG w/broken lime	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft., From b 7 Pit privy 8 Sewage li 9 Feedyard CLOG w/broken lime cobble and c	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
6 GROUT MATERIAL: a)1 Notes of Grout Intervals: From. a)	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft. fo 2 Cement grout 7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and covin	b)3 Bentor 20 ft. t	ft., From ft., From ft., From nite 0	Dther	ft. to
GROUT MATERIAL: a)1 No. 1 No. 2 No.	LS: From	ft. to 2 Cement grout 1 ft., From b. 7 Pit privy 8 Sewage la 9 Feedyard 2 LOG W/broken lime cobble and covn yellow	b)3 Bentor 20 ft. t agoon FROM a- lay	ft., From ft., F	Dither	ft. to
6 GROUT MATERIAL: a)1 Note Grout Intervals: From. a)	LS: From	ft. to 2 Cement grout 1 ft., From b. 7 Pit privy 8 Sewage la 9 Feedyard 2 LOG 7 w/broken lime cobble and com yellow	b)3 Bentor) 20 ft. tr agoon FROM e- Lay I was (1) construct	tted, (2) recourse	Dither	ft. to
GROUT MATERIAL: a)1 Notes of Grout Intervals: From. a)	LS: From From Pat cement Pont to 20 ible contamination: ateral lines pool deepage pit est LITHOLOGIC & brown clay gravel, fine & sandstone pe, soft brown clay, gray & CNER'S CERTIFICA 12/16/87	ft. to 2 Cement grout 1 ft. to 2 Cement grout 2 ft. From b 7 Pit privy 8 Sewage la 9 Feedyard C LOG W/broken lime cobble and com yellow	b)3 Bentor 20 ft. tr agoon FROM a- lay I was (1) construction	tted, (2) record	Dither	ft. to
GROUT MATERIAL: a)1 Notes of Grout Intervals: Froma)	LS: From From Pat cement Pont to 20 ft. to 20	ft. to 2 Cement grout 1 ft., From b. 7 Pit privy 8 Sewage la 9 Feedyard 2 LOG 7 w/broken lime cobble and com yellow	b)3 Bentor) 20 ft. tr agoon FROM e- Lay I was (1) construct r Well Record was	tted, (2) record	Dither	ft. to
GROUT MATERIAL: a)1 Notes of posts of p	LS: From	7 Pit privy 8 Sewage la 9 Feedyard CLOG W/broken lime cobble and cove yellow TION: This water well	b)3 Bentor 20 ft. tr agoon FROM P- Lay I was (1) construct Well Record was	tted, (2) records completed or by (signat	Dither	fit to
GROUT MATERIAL: a)1 Notes of Grout Intervals: Froma)	LS: From	7 Pit privy 8 Sewage la 9 Feedyard C LOG W/broken lime cobble and com yellow TION: This water well This Water Equipment, In	b)3 Bentor 20 ft. to agoon FROM a- lay was (1) construct Well Record was concerned.	tt., From ft., F	Dither	ft. to

records.

•	٦		_	2
		W		

WATI	ER WE	LL RECORD	Form W	/WC-5	Division of Water Resources App. No.					
1 LO	CATION	OF WATER WELL:	Fraction		Section Number Township No. Range Number					
Cou	inty: Ric	е	1/4 SE 1/4 SE		9 T 19 S R 8 🗆 E 🗹 W					
Stre	et/Rural	Address of Well Location;	f unknown, distance	& direction	Global Positioning System (GPS) information:					
fror	n nearest	town or intersection: If at o	owner's address, chec	k here 🔲.	Latitude: (in decimal degrees)					
3 1	I/4 North	of Lyons			Longitude: (in decimal degrees)					
	174 140161	or Lyono	*		Elevation:					
2 337	A DESCRIPTION NAMED	ELL OWNED.			— Datum: ☐ WGS 84, ☐ NAD 83, ☐ NAD 27					
1		ELL OWNER: Venture			Collection Method: GPS unit (Make/Model:)					
		77D C 1	Hwv 281		☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey					
Cit	y, State, 2	Great B	end, Ks. 67530		Est. Accuracy: \square <3 m, \square 3-5 m, \square 5-15 m, \square >15 m					
3 LO	CATE WI	OT.I.								
	TH AN "X	" IN 4 DEPTH OF	COMPLETED WEI	_L .80	ft.					
	CTION BO	OX: Depth(s) Ground	lwater Encountered	(1)	ft. (2) ft. (3) ft.					
	N	WELL'S STAT	C WATER LEVEL	.36ft.	t. below land surface measured on mo/day/yr6-30-11					
	1	Pump	test data: Well wat	er was	ft. after hours pumping gpm					
	w 1	EST. YIELD. N	Agpm. Well water	er was	ft. after hours pumping gpm					
w	Ϊ .	E Bore Hole Diam			ft., andft.					
 	+		TO BE USED AS: [Public wat	ter supply Geothermal Injection well					
8	sw s	SE - Domestic	☐ Feedlot ☐	Oil field water	ter supply Dewatering Other (Specify below)					
		I Irrigation	☐ Industrial ☐	Domestic-lav	wn & garden Monitoring well Supply					
<u> </u>	' 	was a chemical/	bacteriological sampl	le submitted to	o Department? 🔲 Yes 🗹 No					
	S: 1 mile		day/yr sample was su		······································					
	i mne	Water well disin	fected? 🔽 Yes 🗌	No	, , , , , , , , , , , , , , , , , , ,					
		ASING USED: Steel								
CASI	NG JOIN	ΓS: 🗹 Glued 🔲 Clan	nped 🗌 Welded	☐ Threaded	d					
Casi	ng diame	ter .5 in. to .80	ft., Diameter.	in.	to ft., Diameter in. to ft.					
Casi	ng height	above land surface18	in., Weigh	_{it} SDR 26	lbs./ft., Wall thickness or gauge No					
TYPE	OF SCR	EEN OR PERFORATION								
. =	Steel	Stainless Steel	☑ PVC		Other (Specify)					
	Brass	Galvanized Steel		hole)						
		ERFORATION OPENING		The steem	☐ Drilled holes ☐ None (open hole)					
	Continu	ous slot	Gauze wrapped	I forch cut	Other (specify)					
SCRE	EN-PERI	FOR A TED INTERVALS.	From 80	ft to 50	ft., From ft. to ft.					
SCICL	LIV-I LIC	ORTHED INTERVALS.	From	ft to	ft., From ft. to ft.					
	GRAV	FL PACK INTERVALS	From 80	ft to 20	ft., From ft. to ft.					
	GIWIY	EDITION IN (IDA (III).	From	ft. to	ft., From ft. to ft.					
6 GR	OUT MA	TERIAL: Neat ceme	nt Cement grou	it 🔽 Bentor	nite Other					
1	Intervals:	From ft. to	ft From	n 20	ft. to .0					
What i	s the near	est source of possible conta								
	Septic ta	ınk 🔲 Lateral lin	es 🗌 Pit privy	Livestock p	pens Insecticide storage Other (specify below)					
	Sewer li		Sewage lagoon	Fuel storag						
L	_] Watertig	ht sewer lines		☐ Fertilizer st	torage On well-gas wen					
			101.00		from well .10.					
FROM		LITHOLOG	IC LUG	FROM	TO LITHO. LOG (cont.) or PLUGGING INTERVALS					
0	4	Top soil								
4	38	Tan clay/ caliche								
38	51	Tan clay		-						
51	70	Sandstone & rock								
70	74	Black shale								
74	75	Hard rock								
75	80	Black shale								
	<u></u>		10.000							
7 CON	TRACT	OR'S OR LANDOWNER	'S CERTIFICATIO	N: This wate	er well was 🗸 constructed, 🗌 reconstructed, or 🗌 plugged					
under r	ny jurisdi	ction and was completed or	n (mo/day/year) .6.39	ן-ו.ו an	nd this record is true to the best of my knowledge and belief.					
Kansas	Water W	ell Contractor's License No	วงห This ั	Water Well Re	ecord was completed on (mo/day/year) 7-8-11					
under t	ne busine	ss name of	PLEACE PROCE STRUCT	V and DDDIT -1	by (signature)					
(white	olue, nink) t	o Kansas Denartment of Health	FLEASE PRESS FIRML and Environment Bureau	of Water Geolo	early. Please fill in blanks and check the correct answers. Send three copies ogy Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367					
Telephor	ne 785-296-	5522. Send one copy to WAT			your records. Include fee of \$5.00 for each constructed well. Visit us a					
http://wv	vw.kdheks.g	ov/waterwell/index.html.								
KSA 82	a-1212				Check: White Copy, Blue Copy, Pink Cop					

1				ER WELL HECORD	Form WWC-5		,	-		
LOCATION			Fraction	NILI		tion Number	Township I		Range N	_
County:		Rice		4 NW 1/4	1/4	13	т 19	S	R 8W	E(W)_
	_		•	address of well if locate	a within city?					
		Lyons, Ka						·····		
WATER	WELL OW	NEA: Knight	Feedyards	3						٠.
		# : Route					Board of	Agriculture, C	Division of Wate	er Resource
			Ks. 67541	ı.				on Number:		
				COMPLETED WELL	T 80					
AN "X" IN	NELL'S LU NSECTION	BOX:								
	N			dwater Encountered 1						
İ	! !		WELL'S STATE	C WATER LEVEL	ユダ. ft. b	elow land surf	ace measured of	on mo/day/yr	9/	Ťό\ &\ · · ·
İ	. և 💶	- NE	Pun	np test data: Well wat	er was	ft. af	ter	hours pu	mping	gpm
	·	- 175	Est. Yield	O gpm: Well wat	er was	ft. af	ter	hours pu	mping	gpn
. 1	- i - i			neter8in. to						
w -	$\overrightarrow{}$			TO BE USED AS:	5 Public wate		8 Air conditioning			
	i 1	- i								h-daw)
	- SW	SE	1 Domestic	-			9 Dewatering			
	1 1		2 Irrigation		-		0 Observation v			
	1		Was a chemica	l/bacteriological sample	submitted to De	epartment? Ye	s <u>No.</u>	; If yes,	, mo/day/yr san	nple was su
	S		mitted			Wat	er Well Disinfec	ted? Yes	No	
TYPE OF	F BLANK C	ASING USED:		5 Wrought iron	8 Concre	ete tile	CASING J	OINTS: Glued	<u>d</u> Clam	ped
1 Stee	əl	3 RMP (SI	R)	6 Asbestos-Cement	9 Other	(specify below	<i>(</i>)	Weld	ed	
2 PVC	2	4 ABS	,	7 Fiberglass				Threa	aded	
			in to 60	ft., Dia						
				in., weight						
				in., weight						4
		R PERFORATIO	N MATERIAL:		7 <u>. PV</u>			sbestos-ceme		
1 Stee	əl	3 Stainless	s steel	5 Fiberglass	8 RM	IP (SR)				
2 Bras	SS	4 Galvaniz	zed steel	6 Concrete tile	9 AB	S	12 N	one used (op	en hole)	
CREEN O	R PERFOR	ATION OPENIN	IGS ARE:	5 Gaux	zed wrapped		8 Saw cut		11 None (op	en hole)
1 Con	tinuous sio	: 3 М	fill slot	6 Wire	wrapped		9 Drilled holes	3		
2 1 00	vered shutt	er 4K	ey punched	7 Torc	• •		10 Other (spec	ifv)		
		D INTERVALS:		60 ft. to .						
CHEEN-FI	ENFORMIC	D INTERVALS.								
				ft. to .						
GF	RAVEL PAG	CK INTERVALS:	: From	20 ft. to .	80	ft., Fron				
			From	ft. to		ft., Fron	<u>n</u>	ft. t	0	ft
GROUT	MATERIAL	: 1 Neat	cement	2 Cement grout	3 Bento	nite 4	Other			
irout Interv	als: Fror	n	.ft. to20	ft., From	ft.	to	ft., From .		ft. to	
		urce of possible							bandoned water	
	tic tank	•	ral lines	7 Pit privy		11 Fuel s	•		il well/Gas wel	
•	er lines	5 Cess		8 Sewage lac	2000		zer storage		ther (specify b	
			•		•		zer storage ticide storage			
3 Wat	ertight sew	er lines 6 Seep	page pit	9 Feedyard			_	· trader	g .ot. happi	nre
irection fro						How mar	ny feet?			
FROM	то		LITHOLOGK	CLOG	FROM	то		LITHOLOG	IC LOG	
0	53	Clay								
_53	80	Sand rock	ζ							
					-	1				
						 				
+						 				
\longrightarrow						 				
						 				
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<u> </u>						<u> </u>				
CONTRA	ACTOR'S	OR LANDOWNE	R'S CERTIFICA	TION: This water well v	was (1) constri	icted. (2) reco	enstructed or (3)) plugged un	der mv jurisdic	tion and wa
				Water well						
ompleted C	Canter ::	y o ai) . 7/.±∪/ (up		Mail Bees-	anu una 1600	on (models::::	book OF HIS KI	omougo and D	/16/04 r
rater Well	Contractor'	s License No		This Water	vven Hecord Wa	as completed (on (mo/qay/yr)			η. τρ.Υ.οπ.
ider the b	usiness na	me of Kelly	's Water W	ell Service RESS FIRMLY and PRINT cle		by (signat	ture) / 22-75	24/2		- 4- Va
INSTRUCT	IONS: Use ty	pewriter or ball poil	nt pen. PLEASE PR	ESS FIRMLY and PRINT cle ection, Topeka, Kansas 666	early. Please till in	planks, underlin	e or circle the corre	ct answers. Sei	nu top three copie	one for your
Departmen records.	ıı oı mealth al	iu Environment, Bu	neau of water Prot	ection, ropeka, nansas 666	zu-7320, Telepho	118. 313-002-330	O. Send One to WA	., L., WLLL OV	THE R AND ISLAM	one for your

STATE OF KANSAS

DEPARTMENT OF AGRICULTURE 1320 RESEARCH PARK DRIVE MANHATTAN, KS 66502 PHONE: (785) 564-6700 FAX: (785) 564-6777



900 SW Jackson, Room 456 Topeka, KS 66612 Phone: (785) 296-3556 www.agriculture.ks.gov

GOVERNOR JEFF COLYER, M.D.

JACKIE McClaskey, Secretary of Agriculture

11/1/2018

KNIGHT FEEDLOT, INC 1768 AVENUE J LYONS, KS 67554

RE: Appl

Application, File No. 50153

Dear Sir or Madam:

The Division of Water Resources (Division) has received your application for a permit to appropriate water for beneficial use. Your application has been assigned the file number 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 and does not guarantee approval. In accordance with the provisions of the Kansas Water Appropriation Act, the use of water as proposed prior to approval of the application is unlawful.

Additional information about the process may be found on our website at <u>agriculture.ks.gov/divisions-programs/dwr</u>. If you have any other questions, please contact our office at 785-564-6640 or your local Stafford Field Office at 620-234-5311. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Kristen A. Baum

New Application Unit Supervisor

ristenaBaum

Division of Water Resources

50153 6/18 DLB R_S New Application
100 AF
80 GPM **LEGEND** POINT OF DIVERSION (STK) 34,290 ² 9.207 AF 47,276 96.78 AF 0 AF NET 60 GPM POINT OF DIVERSION (STK NEW) 40 GPM 38,175 47.261 AF 20 GPM PLANNED PIPELINE FEEDYARD EXPANSION AREA -47,277 64.52 AF 0 AF NET 40 GPM KNIGHT FEEDLOT, INC. WATER RIGHTS SECTION 23 T19S R8W RICE COUNTY, KANSAS X/X/ASI/ ; 38,177 ; 49.593 AF ; 40 GPM - 50093 CENTROID - 306.89 AF 800 GPM PLACE OF USE 25 50078 50 AF 30 GPM 50079 50 AF 30 GPM 50080 50 AF 30 GPM **T19S** Water Resources Received OCT 29 2018 R SCALE IN FEET ₂₀₀₀KS Dept Qf ⊕gricultu SCANNED CAD FILE NAME: WATER RIGHTS.dwg RATE, QUANTITY AND PLACE OF USE MAP SHEET NO. 2 OF 2

KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: KNIGHT FEEDLOT, INC.

LOCATION: SECTION 23 T19S R8W, RICE COUNTY, KS

BY: KLS DATE: 6/14/2018 CHECKED BY: _____

WATER RIGHT SUMMARY

					AUTHORIZED			P/D DIST. FR	OM SE SECTIO		. at		
WATER RIGHT FILE NO.	TEST HOLE ID	BENEFICIAL USE	AUTHORIZED QUANTITY (AC-FT)	NET QUANTITY (AC-FT)	OR REQUESTED RATE (GPM)	Longitude	Latitude	SEC-TWP-RGE	North	WEST		QÜALIFIEI	85
A 34290 00		STK				-98.17095	38.39067	23-19S-8W					
A 34290 00		STK	9.207	9.207	40	-98.17092589	38.39066854	23-19S-8W	5067 FT	1867 FT	NE	NW	NE
A 34290 00		STK				-98.17085	38.39083	23-19S-8W				:	
A 38175 00		STK	47.261	47.261	20	-98.17741	38.39106	23-19S-8W	5202 FT	3721 FT	NW	NE	NW
A 38177 00	15 ± 13 m 10 ± 10 ± 10 ± 10 ± 10 ± 10 ± 10 ± 10 ±	STK				-98.17092589	38.39066854	23-19S-8W		:			
A 38177 00	and the second s	STK	49.593	49.593	40	-98.17095	38.39067	23-19S-8W	5067 FT	1867 FT	NE	NW	NE
A 38177 00		STK				-98.17085	38.39083	23-19S-8W					
A 47276 00		STK	96.780	0	60	-98.16912821	38.39475584	14-19S-8W	1260 FT	1360 FT	NE	SW	SE
A 47277 00		STK	64.520	0	40	-98.16875837	38.39182047	14-19S-8W	191 FT	1254 FT	SW	SE	SE
50,093.00		STK		306.89	800	-98.16361389	38.3842	24-19S-8W	2765 FT	4940 FT	SW	SW	NW
50,094.00		STK				-98.1723	38.3770	23-19S-8W	82 FT	2147 FT	SW	SW	SE
50,094.00		STK		145.16	90	-98.1656	38.3770	23-19S-8W	82 FT	229 FT	SE	SE	SE
50,094.00		STK				-98.1696	38.3769	23-19S-8W	46 FT	1374 FT	SE	SW	SE
	Domestic	STK	1	100	80	-98.183219	38.402716	15-19S-8W	4170 FT	13 FT	SE	NE	NE

658.11 Acre-Feet 214,430,000 Gallons

Livestock water needs calculator

lnp.	J.		Calculated							
Head of Beef Cattle	Gal/Head/Day	Gallons/Day	GPM	Ac-Feet/Yr	Gallons/Yr					
30,000	10.50	315,000	219	353	114,975,000					

Water Resources Received

OCT 29 2018

KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: KNIGHT FEEDLOT, INC.

LOCATION: SECTION 23 T19S R8W, RICE COUNTY, KS

BY: JLW DATE: 6/14/2018

CHECKED BY: KLS DATE: 6/15/2018

WATER USE DATA FROM PCP RECORDS

KNIGHT FEEDLOT WATER USAGE 2015 TO 2017

		Water Use	Water	Average # of	Gal/Head/	1	T	Water Use	Water	Average # of	Gal/Head/			Water Use	Water	Average # of	Gal/Head/
2014	Days	By Month	Purchased	Cattle	Day	2015	Days	By Month	Purchased	Cattle	Day	2016	Days	By Month	Purchased	Cattle	Day
January	31	0	539,000	7,262	2.39	January	31	4,112,030		13,862	9.57	January	31		3,400,000	12,156	9.02
February	28	0	1,496,000	6,664	8.02	February	28	3,163,530	691,000	11,700	11.77	February	28	1,599,460	1,606,000	12,819	8.93
March	31	0	875,000	7,392	3.82	March	31	4,379,740	998,890	10,414	16.66	March	31	768,840	3,101,000	14,372	8.69
April	30	0	1,115,000	6,868	5.41	April	30	1,737,880	1,249,110	11,439	8.70	April	30	850,500	2,560,000	14,730	7.72
May	31	0	95,000	6,969	0.44	May	31	1,487,060		10,696	4.48	May	31	696,610	3,220,000	12,696	9.95
June	30	0	25,000	9,251	0.09	June	30	310,720	3,417,000	10,730	11.58	June	30	826,770	2,430,000	11,985	9.06
July	31	14,155,710	61,000	8,453	54.25	July	31	559,730	3,358,000	9,826	12.86	July	31	772,640	1,890,000	7,893	10.88
August	31	1,363,260	44,000	9,120	4.98	August	31	175,000	4,414,000	11,052	13.39	August	31	999,470	1,860,000	10,196	9.05
September	30	1,174,070	27,000	12,322	3.25	September	30	331,070	3,485,000	11,156	11.40	September	30	845,985	1,010,600	11,470	5.40
October	31	2,023,170	33,000	13,520	4.91	October	31	5,000	4,744,000	12,518	12.24	October	31	1,709,365	501,800	12,775	5.58
November	30	1,711,130	113,000	14,601	4.16	November	30	545,800	2,773,000	13,237	8.36	November	30	3,181,800	200,000	13,396	8.41
December	31	2,655,500	332,000	14,510	6.64	December	31	645,850	328,000	13,015	2.41	December	31	6,184,630	104600	13,568	14.95
TOTAL	365	23,082,840	4,755,000	9,744	7.83	TOTAL	365	17,453,410	25,458,000	11,637	10.10	TOTAL	365	18,436,070	21,884,000	12,338	8.95

2017	Days	Water Use By Month	Water Purchased	Average # of Cattle	Gal/Head/ Day	2018	Water Use By Month	Water Purchased	Average # of Cattle	Gal/Head/ Day
January	31	2,326,420	1,371,000	12,697	9.39	January	3,903,540	462,000	12,746	11.05
February	28	3,350,850	1,202,000	10,842	15.00	February	3,639,660	843,000	13,124	12.20
March	31	4,378,190	1,483,000	14,191	13.32	March	4,430,410	686,000	13,984	11.80
April	30	4,036,150	521,000	14,087	10.78	April	2,652,980	204,000	14,068	6.77
Мау	31	2,740,090	367,000	13,765	7.28	May	4,674,820	545,000	13,287	12.67
June	30	4,390,570	1,859,000	12,496	16.67					
July	31	3,555,450	807,000	10,598	13.28					
August	31	2,860,010	306,000	9,011	11.33					
September	30	3,419,240	238,000	8,687	14.03					
October	31	3,057,790	100,000	9,985	10.20					
November	30	4,043,710	123,000	12,955	10.72					
December	31	4,099,670	212,000	12,971	10.72					
TOTAL	365	42,258,140	8,589,000	11,857	11.75	TOTAL	19,301,410	2,740,000	13,442	10.90

Water Resources Received

KLA ENVIRONMENTAL SERVICES, INC.

PROJECT: KNIGHT FEEDLOT, INC.

LOCATION: SECTION 23 T19S R8W, RICE COUNTY, KS

BY: JLW DATE: 6/14/2018

CHECKED BY: KLS

DATE: 6/15/2018

Average Gal/Head/Day 2014 to 2017							
January	7.59						
February	10.93						
March	10.62						
April	8.15						
May	5.54						
June	9.35						
July	22.82						
August	9.69						
September	8.52						
October	8.23						
November	7.91						
December	8.68						
TOTAL	9.66						

Annual Water Use Report

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Water Right		2013*	2014	2015	2016	2017	Average
34290		2,430,270	2,773,330	1,709,370	4,735,250	6,450,090	3,619,662
34290		4,723,270	2,898,320	855,290	580,870	2,736,110	2,358,772
38175		1,998,610	9,161,790	0	707,350	843,640	2,542,278
47276		25,191,700	3,863,500	9,751,300	6,564,500	30,510,200	15,176,240
47277		6,070,300	4,385,900	5,191,600	5,848,100	1,718,100	4,642,800
Total		40,414,150	23,082,840	17,507,560	18,436,070	42,258,140	28,339,752
Water Purcha	365	1,926,000	4,755,000	25,458,000	21,884,000	8,589,000	12,522,400
Average Head		8,575	9,744	11,637	12,338	11,857	10,830
Gal/Head/Day		12.92	7.83	10.12	8.95	11.75	10.31

*Monthly well readings not available in 2013

Water Resources Received

OCT 29 2018

KS Dept Of Agriculture