# KANSAS DEPARTMENT OF AGRICULTURE DIVISION OF WATER RESOURCES MEMORANDUM

TO:

File

DATE:

May 1, 2018

FROM:

**Amber Herring** 

**SUBJECT:** 

**Date Stamping Mail** 

On Friday, June 26<sup>th</sup>, 2015, The Administrative Assistant for Kansas Department of Agriculture, on the first floor signed for the certified mail containing the following Applications. I, Amber Herring, did not receive the documents until Monday, **June 29<sup>th</sup>**, **2015**. Thus, the June 29<sup>th</sup> date is the correct date and time received by the **Division of Water Resources**.

Submit To: CHIEF ENGINEER Division of Water Resources Kansas Department of Agriculture 1320 Research Park Drive Manhattan, Kansas 66502 http://agriculture.ks.gov/dwr

#### **APPLICATION FOR APPROVAL TO** CHANGE THE PLACE OF USE, THE POINT OF DIVERSION OR THE USE MADE OF THE WATER UNDER AN **EXISTING WATER RIGHT**



Filing Fee Must Accompany the Application
(Please refer to Fee Schedule on signature page of application form.)

Chief Engineer
Division of Water Resources
Paragraph Nos. 1, 2, 3, 4 & 8 must be completed. Complete all other applicable portions. A topographic map of certained plat showing the authorized and proposed points(s) of diversion and /or place of use must accompany this application.

1	David. W. Barfield, P. RECEIVED
1.	Place of Use  JUN 2 8 2015  JUN 2 9 2015
	(Check one or more) ✓ Point of Diversion ✓ Use Made of Water   Division of Water Resources Kansas Dept. of Agriculture  SEPT OF AGRICULTURE
	File No21,731 Circles 2, 3, 4, & 5.
2.	Name of applicant: City of Hays, Kansas and City of Russell, Kansas (See paragraph 2 of the cover letter.)
	Address: c/o Foulston Siefkin LLP, 1551 N. Waterfront Parkway, Suite 100
	City, State and Zip: Wichita, Kansas 67206
	Phone Number: (316) 291-9725 E-mail address: dtraster@foulston.com
	What is your relationship to the water right;  owner tenant agent other? If other, please explain Hays and Russell are co-owners of the authorized place of use on the R9 Ranch in Edwards County.
	Name of water use correspondent: City of Hays, Kansas
	Address: P. O. Box 490, 1507 Main Street
	City, State and Zip: Hays, Kansas 67601
	Phone Number: ( 785 ) 628-7320 E-mail address: tdougherty@haysusa.com
3.	The change(s) proposed herein are desired for the following reasons (please be specific):  See Paragraph 3 of the cover letter filed concurrently with this application. The cover letter is
	incorporated herin by reference.
	The change(s) (was) (will be) completed by See Paragraph 3 of the cover letter  (Date)
Fo F.C	r Office Use Only:  D. A. GMD 5 Meets K.A.R. 5-5-1 (VES / NO) Use IRR Source (G/S County ED ByKAB Date (6 29 15)  D. C-3 Fee \$ 700 TR # Receipt Date (6 22 15) Check # 058328
	of 21000- 15053312 SCANNED
DW	R 1-120 (Revised 06/16/2014)  Assisted by:

D 21731

Page 1 of 96

6/30/2015 UM

4. The presently authorized place of use is:

Owner of Land — NAME: <u>City of Hays, Kansas</u>

ADDRESS: P.O. Box 490, 1507 Main Street, Hays, Kansas 67601

		NE	E1/4	1		NW1⁄4				SV	V1/4		SE¼				TOTAL
Sec. Twp. Range	NE1⁄4	NW¼	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	NE1⁄4	NW1⁄4	SW1/4	SE1/4	NE1⁄4	NW1⁄4	SW1/4	SE1/4	ACRES
30-T25S-R19W											Lot 4 30	40					70.00
31-T25S-R19W	40	33	40	33	33	Lot 1 29	Lot 2 24	38	40	Lot 3 39.77	Lot 4	7	40	40	40	40	518.77
32-T25S-R19W	,									12	12						24.00
36-T25S-R20W								,					Lot 6				3.00

List any other water rights that cover this place of use: None

Owner of Land — NAME: <u>City of Russell, Kansas</u>

ADDRESS: 133 W. 8th Street, Russell, Kansas 67665

				NE	1/4			NV	V1/4			sv	V1⁄4		,	SE	1/4		TOTAL ACRES
Sec.	Twp.	Range	NE1⁄4	NW¼	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	NE¼	NW¼	SW1/4	SE¼	NE1⁄4	NW¼	SW1/4	SE1/4	
									Sa	me a	s abo	ve							

List any other water rights that cover this place of use: None

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

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

Owner of Land — NAME: <u>City of Hays, Kansas</u>

ADDRESS: P.O. Box 490, 1507 Main Street, Hays, Kansas 67601

				NE	1/4		NW1⁄4		SW1/4			SE¼				TOTAL			
Sec.	Twp.	Range	NE1/4	NW1/4	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	ACRES
			The C	he City of Hays, Kansas and its immediate vicinity and other locations as more															
			fully	ally described in paragraph 5 of the cover letter.															
						-													

List any other water rights that cover this place of use: See paragraph 5 of the cover letter.

Owner of Land — NAME: City of Russell, Kansas

ADDRESS: 133 W. 8th Street, Russell, Kansas 67665

			NE1/4				NW¼			SW¼				SE1/4				TOTAL	
Sec.	Twp.	Range	NE1⁄4	NW¼	SW1/4	SE1/4	NE1/4	NW1⁄4	SW1/4	SE1/4	NE1⁄4	NW1⁄4	SW1/4	SE1/4	NE1⁄4	NW¼	SW1/4	SE1/4	ACRES
	The City of Russell, Kansas and its immediate vicinity and other locations as more																		
			fully	fully described in paragraph 5 of the cover letter.															

List any other water rights that cover this place of use: <u>See paragraph 5 of the cover letter.</u>

WATER RESOURCES

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

JUN 2 9 2015 SCANNED

6.	The presently authorized point(s) of divers	sion (is) (are) _	irrigation we	(Provide description and		<b>a.</b>
7.	The proposed point(s) of diversion (is) (are	e) one or mo	re municipal	wells; see paragrap	oh 7 of the cover	letter.
	List all presently sutherized point(s) of	divaraian		(Provide description and	number of points)	
ı	List all presently authorized point(s) of					
В.	Presently authorized point of diversion	<u>:</u>	QE.		CW	
ı	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ter of the	SE	Quarter of the _	. SW	Quarter
	of Section 30, Tov	wnship	25	South, Range _	19	( <b>K</b> /W),
	in Edwards County, Kans				of Southeast corne	er of section.
	Authorized Rate $\underline{450~\mathrm{gpm}}$ Author					
	(DWR use only: Computer ID No	GP	s	feet North	feet W	est)
	☐ This point will not be changed ☑	This point will	be changed a	as follows:		
ı	Proposed point of diversion: (Complete	only if chang	<u>je is requeste</u>	<u>d)</u>		
	One in the Quar	ter of the	NE	Quarter of the _	SW	Quarter
	of Section, Tov	wnship	25	South, Range	19	<b>(K</b> /VV),
	in Edwards County, Kans	as, 2,282	_ feet North _	3,870 feet West	of Southeast corne	er of section.
	Proposed Rate 1,075 gpm Propos					
	This point is: Additional Well Geo				int 21,7	30 .
ı	·			· · · · · · · · · · · · · · · · · · ·		
). [	Presently authorized point of diversion	:				
- 1	One in the Quar	ter of the		Quarter of the _	NE	Quarter
	of Section 31, Tow	wnship	25	South, Range _	19	( <b>K</b> /W),
	in Edwards County, Kans	as, 3,975	feet North	1,270 feet West	of Southeast corne	er of section.
	Authorized Rate 605 gpm Author					
	(DWR use only: Computer ID No				feet We	est)
	☐ This point will not be changed ☑				<del></del> -	,
	Proposed point of diversion: (Complete	·	-			
	One in the SW Quar				NE.	Quarter
١	of Section 31 Tox	weshin	25	Quarter or the	19	Quarter
ı	of Section 31 , Tow in Edwards County, Kans	3 142	foot North	2 099 foot Most	of Southeast corne	vr of section
	Proposed Rate 2,490 gpm Proposed	as,	1eet North 768 07 a/f	2,000 leet vvest	or Southeast come	or section.
	•	, –			int	
l	This point is: Additional Well Geo	Center List o	ther water righ	is that will use this po	ırıı	<u> </u>
آ م	Presently authorized point of diversion	•				
۱.	One in the NW Ouar	: ter of the	NE	Quarter of the	SW	Quarter
	One in the $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	unchin	25	Quarter or the _	19	Qdanei
	in Edwards County, Kans	2 460	foot North	3 660 foot Wood /	of Southoast corns	r of soction
	Authorized Rate 735 gpm Author				or Southeast come	i oi section.
	(DWR use only: Computer ID No.	• -			foot W	not)
ı	-				reet we	;st)
	☐ This point will not be changed					
	Proposed point of diversion: (Complete				NIC	_
	One in the Quar	ter of the	<u> </u>	Quarter of the _	NE 10	Quarter
	of Section 31 , Tow in Edwards County, Kans	vnship	25	South, Range _	19	( <b>\</b> X\V),
	in Edwards County, Kans	as, <u>3,142</u>	_ feet North	2,099 feet West	of Southeast corne	er of section.
	Proposed Rate 2,490 gpm Propos					
Ĺ	This point is: Additional Well Geo	Center List o	ther water righ	ts that will use this po	int	
11.	Describe the current condition of and futur	e plans for anv	point(s) of div	ersion which will no lo	nger be used.	
	See paragraph 11 of the cover letter.		. ,		_	
	IF MORE SPACE IS NEED		II ADDITIO	NAL OUEETO CO	NECECWATER	RESOURCE
	IF WORE SPACE IS NEED	ש∟ט, AIIAC	H ADDITIO	NAL SHEETS AS	NECESSARY	FCEIVED

File No. 21,731

6.	The presently authorized	point(s) of diversion	on (is) (are) _	irrigation we	(Provide description and n	aragraph 8, infra.	······································			
7.	The proposed point(s) of	diversion (is) (are)	one or mo	re municipal	wells; see paragrap	h 7 of the cover l	etter			
	List all presently author	rized point(s) of d	iversion:		(Provide description and n	umber of points)				
8.	Presently authorized po	int of diversion:								
٠.			er of the	W/2	Quarter of the	NE of the SE	Quarter			
	One in the <u>near the</u> of Section 31	Cowr	nehin	25	South Range	19	(₩.ΛΛΛ			
	in Edwards	County Kanaar	1 925	foot North	3 810 foot West o	of Couthoost corner	of acation			
					10 leet west o	or Southeast comer	or section.			
	Authorized Rate 525									
	(DWR use only: Compu ☐ This point will not be					feet Wes	it)			
	Proposed point of diver	_	-	_						
						NF	Quarter			
	One in the SV of Section 31	- Quarte	:: 01 tile	25	Quarter or the	10	Quarter			
	Edwards	, TOW	2 1 4 2		South, Range	12	(A <u>s</u> /VV),			
:	in Edwards Proposed Rate 2,490					of Southeast corner	of section.			
	This point is: Additional		—		<del></del>	nt				
. !	This point is.  Additions	ar vveir Geo C	enter List o	water right	s that will use this por	, , , , , , , , , , , , , , , , , , ,	·_			
9. [	Presently authorized po	int of diversion:								
	One in theSE	Quarte	er of the	NE	Quarter of the	SE	Quarter			
	of Section 31	, Towr	nship	25	South, Range	19	( <b>K</b> /W),			
	in Edwards	County, Kansas	$\frac{1,899}{1,899}$	feet North	54 feet West o	f Southeast corner	of section.			
	Authorized Rate 380				<u> </u>					
ı						foot Was	•			
	(DWR use only: Computer ID No GPS feet North feet West)  This point will not be changed  This point will be changed as follows:									
	Proposed point of diversion: (Complete only if change is requested)									
	-	_		_						
	Proposed point of diver	sion: (Complete d		e is requested	<u>1)</u>	NE	, Overter			
	Proposed point of diversion one in the SW	sion: (Complete o	r of the	ge is requested SW	<u>i)</u> Quarter of the	NE 10	Quarter			
	Proposed point of diversions One in the SW of Section 31	sion: (Complete o	r of the	ge is requested SW 25	<u>i)</u> Quarter of the South, Range	19	()€/\/\),			
	Proposed point of diversity           One in the of Section in Edwards         SW	sion: (Complete of Quarte, Town, County, Kansas	er of the nship s,3,142	SW 25 feet North	<u>i)</u> Quarter of the South, Range	19	()€/\/),			
	Proposed point of diversions One in the SW of Section 31	sion: (Complete of Quarte, Town, County, Kansas	er of the nship s,3,142	SW 25 feet North	<u>i)</u> Quarter of the South, Range	19	()€/\/\),			
	Proposed point of diversity           One in the of Section in Edwards         SW	Sion: (Complete of Quarte Quarte , Town County, Kansas gpm Propose	er of the nship s,3,142 ed Quantity	ge is requested SW 25 feet North 768.07 a/f	<u>i)</u> Quarter of the South, Range 2,099 feet West o	19 of Southeast corner	()€/\/\),			
	Proposed point of diversity of Section	sion: (Complete of County Quarte of County, Kansas gpm Propose al Well ☐ Geo C	er of the nship s,3,142 ed Quantity	ge is requested SW 25 feet North 768.07 a/f	<u>i)</u> Quarter of the South, Range 2,099 feet West o	19 of Southeast corner	()€/\/),			
10.	Proposed point of diversions one in the SW of Section 31 in Edwards  Proposed Rate 2,490 This point is: Additional	County, Kansas gpm Propose al Well Geo C	or of the nship s,3,142 d Quantity center List o	sw 25 feet North 768.07 a/f	United Section 2) Description (1) Description (2) Description	19 If Southeast corner	()\( \bar{k}\/\ \), of section.			
10.	Proposed point of diversions one in the SW of Section 31 in Edwards  Proposed Rate 2,490 This point is: Additional	County, Kansas gpm Propose al Well Geo C	or of the nship s,3,142 d Quantity center List o	sw 25 feet North 768.07 a/f	Quarter of the South, Range 2,099 feet West o s that will use this poin Quarter of the	19 If Southeast corner on the SE	()⊈/W), of section. 			
10.	Proposed point of diversity of Section Section 31 in Edwards  Proposed Rate 2,490 This point is: ☐ Additional Additional Additional SE of Section 31	y Complete Complete County, Town County, Kansas gpm Propose al Well Geo County int of diversion: Quarte	or of the nship s,3,142 d Quantity center List o	sw 25 feet North 768.07 a/f ther water right	Quarter of the South, Range 2,099 feet West o s that will use this point Quarter of the South, Range	19 If Southeast corner ont	()\( \)\( \)\( \)\( \)\( \)\( \)\(			
10.	Proposed point of diversions one in the SW of Section 31 in Edwards  Proposed Rate 2,490 This point is: Additional Additional Additional Additional SE of Section 31 in Edwards	County, Kansas    County   County	or of the	ge is requested SW 25 feet North 768.07 a/f ther water right  NE 25 feet North	Quarter of the South, Range 2,099 feet West o s that will use this point Quarter of the South, Range	19 If Southeast corner ont	()\( \)\( \)\( \)\( \)\( \)\( \)\(			
10.	Proposed point of diversity of Section Section 31 in Edwards  Proposed Rate 2,490 This point is: ☐ Additional Additional Additional SE of Section 31	County, Kansas    County   County	or of the	ge is requested SW 25 feet North 768.07 a/f ther water right  NE 25 feet North	Quarter of the South, Range 2,099 feet West o s that will use this point Quarter of the South, Range	19 If Southeast corner ont	()\( \)\( \)\( \)\( \)\( \)\( \)\(			
10.	Proposed point of diversions one in the SW of Section 31 in Edwards  Proposed Rate 2,490 This point is: Additional Additional Additional Additional SE of Section 31 in Edwards	sion: (Complete of Quarte Quarte , Town County, Kansas gpm Propose al Well Geo Control Quarte , Town County, Kansas gpm Authorize	er of the	ge is requested SW 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f	Quarter of the South, Range 2,099 feet West of the will use this point of the Quarter of the South, Range 405 feet West of the will use this point of the South, Range 405 feet West of South, Range A05 feet West of South, Range South, Range South, Range A05 feet West of South, Range South, Range South, Range	19 If Southeast corner and SE 19 If Southeast corner and SE 19 If Southeast corner and Security Securi	()\(\xi_\text{\tin}\text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texitilex{\ti}\text{\text{\text{\text{\text{\texit{\text{\text{\texi}\text{\text{\texitit{\text{\text{\texi\texi{\texitex{\texi{\texi{\texi{\texi\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi}			
10.	Proposed point of diversions one in the SW of Section 31 in Edwards Proposed Rate 2,490 This point is: Additional Additional Additional Additional Additional SE of Section 31 in Edwards Authorized Rate 245	gpm Propose al Well Geo C  Guarte Quarte Propose al Well Geo C  Int of diversion: Quarte Town County, Kansas gpm Authorize Inter ID No.	or of the	SW   25   feet North   768.07 a/f   ther water right   NE   25   feet North   56 a/f   S	Quarter of the South, Range 2,099 feet West on s that will use this point Quarter of the South, Range 405 feet West on feet North feet North	19 If Southeast corner and SE 19 If Southeast corner and SE 19 If Southeast corner and Security Securi	()\(\frac{K}{V}\), of section. Quarter()\(\frac{K}{V}\), of section.			
10.	Proposed point of diversions one in the SW of Section 31 in Edwards  Proposed Rate 2,490 This point is: Additional Additi	changed I The	er of the	re is requested SW 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f  S be changed a	Quarter of the South, Range 2,099 feet West of the Suth, Range Quarter of the South, Range 405 feet West of the South, Range feet North s follows:	19 If Southeast corner and SE 19 If Southeast corner and SE 19 If Southeast corner and Security Securi	()\(\frac{K}{V}\), of section. Quarter()\(\frac{K}{V}\), of section.			
10.	Proposed point of diversions one in the	sion: (Complete of Quarte Quarte , Town County, Kansas gpm Propose al Well Geo Coint of diversion: Quarte , Town County, Kansas gpm Authorizeter ID No. Changed  The sion: (Complete of County	or of the	sw 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f  S be changed a	Quarter of the South, Range 2,099 feet West of the Suth the will use this point of the South, Range 405 feet West of the South feet North s follows:	19 If Southeast corner IntSE19 If Southeast cornerfeet Wes	()\(\xi_\text{\tin}\text{\te}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texitilex{\ti}\text{\text{\text{\text{\text{\texit{\text{\text{\texi}\text{\text{\texitit{\text{\text{\texi\texi{\texitex{\texi{\texi{\texi{\texi\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi}			
10.	Proposed point of diversions one in the SW of Section 31 in Edwards  Proposed Rate 2,490 This point is: Additional Additi	gpm Propose al Well Geo County, Kansas Geo County, Kansas Geo County Geo County Geo County Geo County, Kansas Geo County, Kansas Geo County Geo	or of the	sw 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f  S be changed a fe is requested SW	Quarter of the South, Range 2,099 feet West of the will use this point of the South, Range 405 feet West of the soluth, Range feet North sollows:	19 If Southeast corner Int SE 19 If Southeast corner If eet Wes  NE	()\(\xi \mathcal{V}\mathcal{N}\), of section Quarter ()\(\xi \mathcal{N}\mathcal{N}\), of section.  t)			
10.	Proposed point of diversions of Section 31 in Edwards Proposed Rate 2,490 This point is: Additional	gpm Propose al Well Geo County, Kansas gpm Propose al Well Geo County, Kansas gpm Authoriz ter ID No. changed The sion: (Complete of	er of the eship s,3,142 d Quantity enter List o er of the eship ed Quantity GP ed Quantity GP eshis point will ently if changer of the eship eship	sw 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f  s be changed a ge is requested SW 25	Quarter of the South, Range 2,099 feet West o s that will use this point Quarter of the South, Range 405 feet West o feet North s follows:  Quarter of the South, Range 405 feet North s follows:	19 If Southeast corner on to the second of t	()某/W), of section Quarter ()某/W), of section.  t) Quarter ()茶/W),			
10.	Proposed point of diversions one in the SW of Section 31 in Edwards Proposed Rate 2,490 This point is: Additional Additio	gpm Propose al Well Geo County, Kansas gpm Propose al Well Geo County, Kansas gpm Authoriz ter ID No. changed The sion: (Complete of Quarte , Town County, Kansas	er of the	sw 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f  S be changed a le is requested SW 25 feet North S	Quarter of the South, Range 2,099 feet West of the will use this point of the South, Range 405 feet West of the soluth, Range feet North sollows:	19 If Southeast corner on to the second of t	()某/W), of section Quarter ()某/W), of section.  t) Quarter ()茶/W),			
10.	Proposed point of diversions of Section 31 in Edwards  Proposed Rate 2,490 This point is: Additional Additiona	gpm Propose al Well Geo County, Kansas gpm Propose al Well Geo County, Kansas gpm Authoriz ter ID No. changed The sion: (Complete county, Kansas gpm Propose County, Kansas gpm Propose	or of the	sw 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f  s be changed a sw 25 feet North 768.07 a/f	Quarter of the South, Range 2,099 feet West of the Suth, Range 405 feet West of the soluth, Range feet North s follows:    Quarter of the South, Range 2,099 feet West of the South, Range South, Range 2,099 feet West of the	19 If Southeast corner of the second	()某/W), of section.  Quarter ()某/W), of section.  t)  Quarter ()茶/W), of section.			
	Proposed point of diversions of Section 31 in Edwards Proposed Rate 2,490 This point is: Additional Additional Additional Authorized poor One in the SE of Section 31 in Edwards Authorized Rate 245 (DWR use only: Computation of March 1978) This point will not be Proposed point of diversions of Section 31 in Edwards One in the SW of Section 31 in Edwards Proposed Rate 2,490 This point is: Additional Additi	sion: (Complete of Quarte, Town County, Kansas gpm Propose al Well Geo County, Kansas gpm Authorizeter ID No Changed Town County, Kansas gpm Quarte, Town County, Kansas gpm Propose al Well Geo County Geo Cou	or of the	re is requested SW 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f  S be changed a reguested SW 25 feet North 768.07 a/f ther water right	Quarter of the South, Range 2,099 feet West of the Sthat will use this point of the South, Range 405 feet West of the South, Range Quarter of the South, Range 2,099 feet West of the 2,099 feet West of the South, Range 2,099 feet West of the	19 If Southeast corner and SE If SOU	()某/W), of section.  Quarter ()某/W), of section.  t)  Quarter ()茶/W), of section.			
	Proposed point of diversions of Section 31 in Edwards Proposed Rate 2,490 This point is: Additional	gpm Propose al Well Geo County, Kansas gpm Propose al Well Geo County, Kansas gpm Authoriz ter ID No. changed The sion: (Complete county, Kansas gpm Propose al Well Geo County, Kansas gpm Authoriz ter ID No. Guarte Guarte From Guarte	or of the	re is requested SW 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f  S be changed a reguested SW 25 feet North 768.07 a/f ther water right	Quarter of the South, Range 2,099 feet West of the Sthat will use this point of the South, Range 405 feet West of the South, Range Quarter of the South, Range 2,099 feet West of the 2,099 feet West of the South, Range 2,099 feet West of the	19 If Southeast corner and SE If SOU	()葉/W), of section.  Quarter ()葉/W), of section.  t)  Quarter ()葉/W), of section.			
	Proposed point of diversions of Section 31 in Edwards Proposed Rate 2,490 This point is: Additional Additional Additional Authorized poor One in the SE of Section 31 in Edwards Authorized Rate 245 (DWR use only: Computation of March 1978) This point will not be Proposed point of diversions of Section 31 in Edwards One in the SW of Section 31 in Edwards Proposed Rate 2,490 This point is: Additional Additi	gpm Propose al Well Geo County, Kansas gpm Propose al Well Geo County, Kansas gpm Authoriz ter ID No. changed The sion: (Complete county, Kansas gpm Propose al Well Geo County, Kansas gpm Authoriz ter ID No. Guarte Guarte From Guarte	or of the	re is requested SW 25 feet North 768.07 a/f ther water right  NE 25 feet North 56 a/f  S be changed a reguested SW 25 feet North 768.07 a/f ther water right	Quarter of the South, Range 2,099 feet West of the Sthat will use this point of the South, Range 405 feet West of the South, Range Quarter of the South, Range 2,099 feet West of the 2,099 feet West of the South, Range 2,099 feet West of the	19 If Southeast corner and	()葉/W), of section.  Quarter ()葉/W), of section.  t)  Quarter ()葉/W), of section.			

6.	The presently authorized point(s) of diversion (is) (are)	irrigation we	ell(s) described in parag	raph 8, infra.	
7.	The proposed point(s) of diversion (is) (are) one or mo	ore municinal	•	. ,	etter
۲.	The proposed point(s) of diversion (is) (are)	ore mamerpar	(Provide description and number	of points)	
	List all presently authorized point(s) of diversion:				
8.	Presently authorized point of diversion:				
	One in the NW Quarter of the	NE	Quarter of the	NW	Quarter
	of Section 31 , Township	25	South, Range	19	<b>(K</b> /W),
	in <u>Edwards</u> County, Kansas, <u>5,125</u>	feet North _	3,920 feet West of Sc	utheast corner	of section.
	Authorized Rate 625 gpm Authorized Quantity				
	(DWR use only: Computer ID No G			feet Wes	st)
	☐ This point will not be changed ☐ This point wi	_			
	Proposed point of diversion: (Complete only if chan			CW.	
	One in the $\begin{array}{ccc} NW & \text{Quarter of the} \\ \hline 0 & 30 & \text{, Township} \\ \hline \end{array}$	NE 25	Quarter of the	<u>SW</u>	Quarter
	of Section, Township	25	South, Range	19	<b>(Æ</b> /W),
	in Edwards County, Kansas, 2,282			utheast corner	of section.
	Proposed Rate 1,075 gpm Proposed Quantity			21 720 % 2	7 460
	This point is: Additional Well Geo Center List	other water righ	its that will use this point _	21,/30 & 3	7,462
9.	Presently authorized point of diversion:				
Ŭ.	One in the Quarter of the		Quarter of the		Quarter
	of Section, Township				
	in County, Kansas,				
	Authorized Rate Authorized Quantity				
	(DWR use only: Computer ID No GI	PS	feet North	feet Wes	t)
	☐ This point will not be changed ☐ This point wi				
	Proposed point of diversion: (Complete only if chan	ge is requeste	<u>d)</u>		
	One in the Quarter of the		Quarter of the		Quarter
ı	of Section, Township		South, Range		(E/W),
	in County, Kansas,	feet North	feet West of So	utheast corner	of section.
	Proposed Rate Proposed Quantity _				
	This point is: Additional Well Geo Center List	other water righ	ts that will use this point _		·
40 l	Presently authorized point of diversion:				
10.	One in the Quarter of the		Quarter of the		Quarter
	of Section, Township		South Range		QQQ(10)
	in County, Kansas,				
	Authorized Rate Authorized Quantity				
	(DWR use only: Computer ID No GF			feet Wes	t)
	☐ This point will not be changed ☐ This point will		<del></del>		•
	Proposed point of diversion: (Complete only if chan	ge is requeste	d)		
	One in the Quarter of the				Quarter
	of Section, Township				
	in County, Kansas,			and the second s	
	Proposed Rate Proposed Quantity				
Į	This point is: ☐ Additional Well ☐ Geo Center List of	other water righ	ts that will use this point _		·
11.	Describe the current condition of and future plans for an	y point(s) of div	ersion which will no longer	be used	
	See paragraph 11 of the cover letter.				ESOURCES
	IF MORE SPACE IS NEEDED, ATTAC			CESSARY	2 9 2015

A.	21,731
File No	21,731

12.	The presently authorized use of water is for irrigation purposes.
	It is proposed that the use be changed to <u>municipal</u> purposes.
13.	If changing the place of use and/or use made of water, describe how the consumptive use will not be increased.  See the attached discussion regarding the quantity of water to be changed to municipal use and paragraph
	13 of the cover letter.
	(Please show any calculations here.)
14.	It is requested that the maximum annual quantity of water be reduced to <u>not applicable</u> (acre-feet or million gallons).
15.	It is requested that the maximum rate of diversion of water be reduced to not applicable gallons per minute ( c.f.s.).
16.	The application must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 1:24,000, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, Kansas 66047-3726 ( <a href="https://www.usgs.gov">www.usgs.gov</a> ). The map should show the location of the presently authorized point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. The presently authorized place of use should also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate section, township, and range numbers on the map. In addition the following information must also be shown on the map.
	a. If a change in the location of the point(s) of diversion is proposed, show:
	<ol> <li>The location of the proposed point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. Please be certain that the information shown on the map agrees with the information shown in Paragraph Nos. 9, 10 and 11 of the application.</li> </ol>
	2) If the source of supply is groundwater, please show the location of existing water wells of any kind, including domestic wells, within ½ mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within ½ mile, please indicate so on the map.
	3) If the source of supply is surface water, the names and mailing addresses of all landowner(s) ½ mile downstream and ½ mile upstream from your property lines must be shown.
	b. If a change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be certain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.
17.	Attach documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same local source of supply as to which the water right relates. This information may include statements, plats, geology reports, well logs, test hole logs, and other information as necessary information to show the above. Additional comments may be made below.
	See paragraph 17 of the cover letter.
18.	If the proposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, please identify the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why the request should be granted. Attach documentation showing that granting the request will not impair existing water rights and will not prejudicially and unreasonably affect the public interest.
	See paragraph 7 of the cover letter.
	WATER RESOURCES RECEIVED

File No.	21,731
----------	--------

Any use of water that is not as authorized by the water right or permit to authorize water before the chief engineer approves this application is a violation of the Kansas Water Appropriation Act for which criminal or civil penalties may be assessed. Such violation is a class C misdemeanor, punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. K.S.A. 82a-728(b). Civil penalties shall be not less than \$100 nor more than \$1,000 per violation. In the case of a continuing violation, each day such violation continues may be deemed a separate violation. In addition to these penalties the water right may be modified or suspended. K.S.A. 82a-737, as amended.

The application must be signed by all owners of the place of use authorized under the water right and his or her spouse, if married. Please indicate if there is no spouse. If land is being purchased under contract, the seller must sign as landowner until such time as the contract is completed.

In the event that all applicants cannot appear before one notary public, they may as necessary sign separate copies of the application before any notary public conveniently available to them. All copies signed in this manner shall be considered to be valid parts of the application.

If the request is signed on behalf of any Owner by someone with legal authority to do so (for example, an agent, one who has power of attorney, or an executor, executrix, conservator), it will be necessary to attach proper documents showing such authority.

I declare that I am an owner of the currently authorized place of use a authorized to make this application on their behalf, and declare furth complete. By filing this application I authorize the chief engineer to pe as specified in sections 14 and 15 of this application.	er that the statements contained herein are true, correct, and
Dated at Russell, Russell County , Kansas, this	<u>23rd</u> day of <u>June</u> , 20 <u>15</u> .
(Swner)	(Spouse)
City of Hays, Kansas, by Toby Dougherty, City Manager (Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
State of Kansas  County of Russell  SS  My A	Y PUBLIC - State of Kansas MALINDA MORSE  opt. Expires (2) 15/18
I bereby certify that the foregoing application was signed in my p	resence and sworn to before me this 23 day of
My Commission Expires 6/15/18	Malmal Mase Notary Public
FEE SCHEDU	JLE
Each application to change the place of use, the point of diversion or the use application fee set forth in the schedule below:	made of the water under this section shall be accompanied by the
<ul> <li>(1) Application to change a point of diversion 300 feet or less</li> <li>(2) Application to change a point of diversion more than 300 feet</li> <li>(3) Application to change the place of use</li> <li>(4) Application to change the use made of the water</li></ul>	\$200
Make check payable to Kansas Department of Agriculture	

WATER RESOURCES **RECEIVED** 

JUN 2 9 2015

SCANNED

21731

File No.	21,731
I HE INU.	,

Any use of water that is not as authorized by the water right or permit to authorize water <u>before</u> the chief engineer approves this application is a violation of the Kansas Water Appropriation Act for which criminal or civil penalties may be assessed. Such violation is a class C misdemeanor, punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. K.S.A. 82a-728(b). Civil penalties shall be not less than \$100 nor more than \$1,000 per violation. In the case of a continuing violation, each day such violation continues may be deemed a separate violation. In addition to these penalties the water right may be modified or suspended. K.S.A. 82a-737, as amended.

The application must be signed by all owners of the place of use authorized under the water right and his or her spouse, if married. Please indicate if there is no spouse. If land is being purchased under contract, the seller must sign as landowner until such time as the contract is completed.

In the event that all applicants cannot appear before one notary public, they may as necessary sign separate copies of the application before any notary public conveniently available to them. All copies signed in this manner shall be considered to be valid parts of the application.

If the request is signed on behalf of any Owner by someone with legal authority to do so (for example, an agent, one who has power of attorney, or an executor, executrix, conservator), it will be necessary to attach proper documents showing such authority.

I declare that I am an owner of the currently authorized place of us authorized to make this application on their behalf, and declare for complete. By filing this application I authorize the chief engineer to as specified in sections 14 and 15 of this application.	urther that the statements contained herein are true, correct, an
Dated at Russell, Russell County, Kansas, t	his <u>23rd</u> day of <u>June</u> , 20 <u>15</u> .
(Owner)	(Spouse)
City of Russell, Kansas, by Jon Quinday, City Manager (Please Print)	(Please Print)
(i isase i iiii)	( lease I mily
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
State of Russell SS	Appt. Expires 4/15/18  by presence and sworn to before me this 23rd day of
My Commission Expires 6/15/18	Malmde Morse Notary Public
FEE SCH	<u>EDULE</u>
Each application to change the place of use, the point of diversion or the application fee set forth in the schedule below:	use made of the water under this section shall be accompanied by the
<ul> <li>(1) Application to change a point of diversion 300 feet or less</li> <li>(2) Application to change a point of diversion more than 300 fee</li> <li>(3) Application to change the place of use</li> <li>(4) Application to change the use made of the water</li> </ul>	st
Make check payable to Kansas Department of Agriculture.	WATER RESOURCES

RECEIVED

#### **Proposed Rate and Quantity**

The Cities are requesting a total of 991 acre-feet and 3,285 gallons per minute from the seven wells associated with this water right, which will be divided among new points of diversion G and H, as shown on Exhibit S. The two existing wells in the southwest quarter of section 30 and the northwest quarter of section 31 total 222.93 acre-feet and 1,075 gallons per minute to be diverted from new point of diversion G; and the remaining existing wells total 768.07 acre-feet and 2,490 gallons per minute to be diverted from new point of diversion H. When combined with existing wells from other water rights, new point of diversion G will have a cumulative total of 426.7 acre-feet and 1,870 gallons per minute and new point of diversion H will have a total of 768.07 acre-feet and 2,490 gallons per minute.

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

The following discussion is subject to paragraph 13 of the cover letter regarding consumptive use.

DWR Regulation, K.A.R. 5-5-9(a), provides that the default calculation used to address the consumptive use issue allows the conversion of 614.52 acre-feet for municipal use. As discussed below, 569 approved acres were irrigated during the perfection period; 569 acres multiplied by the Edwards County NIR for corn of 1.08 acre-feet per acre equals 614.52 acre-feet.

That same regulation goes on to allow the change to be based on the net consumptive use actually made during the perfection period.<sup>3</sup>

#### Quantity authorized and perfected

The permit was issued on February 27, 1976, granting the applicant the right to divert up to 1,090 acre-feet annually at a rate of up to 3,900 gallons per minute for irrigation use<sup>4</sup> on 621 acres in Sections 30, 31, and 32-T25S-R19W and Section 36-T25S-R20W,<sup>5</sup> or 1.755 acre-feet per acre. The certificate further limited the quantity for the well located in the southwest quarter of the southwest quarter of section 30 and the well located in the northwest quarter of the northwest quarter of section 31 to 192 acre-feet when the wells were operated simultaneously.<sup>6</sup>

In the cover letter transmitting the permit, DWR made findings of fact stating that "the proposed use is for a beneficial purpose and is *within reasonable limitations*. If priorities are observed and respected, the proposed use will neither impair any use under existing water rights nor prejudicially and unreasonably affect the public interest."<sup>7</sup>

The Field Inspection Reports indicate that 998.73 of the 1,090 acre-feet authorized by the permit were lawfully perfected. A total of 1,118 acre feet were applied to authorized acres.

WATER RESOURCES RECEIVED

<sup>&</sup>lt;sup>1</sup> K.A.R. 5-5-9(a) and (a)(1).

<sup>&</sup>lt;sup>2</sup> K.A.R. 5-5-12, NIR Requirements.

<sup>&</sup>lt;sup>3</sup> K.A.R. 5-5-9(b).

<sup>&</sup>lt;sup>4</sup> Permit, HAYS001010-11, Ex. A.

<sup>&</sup>lt;sup>5</sup> Application, HAYS001002, Ex. B.

<sup>&</sup>lt;sup>6</sup> Certificate, HAYS001034, Ex. C.

<sup>&</sup>lt;sup>7</sup> February 27, 1976, letter, HAYS001009, Ex. D (emphasis added).

- 230 acre-feet<sup>8</sup> and 118 acre feet<sup>9</sup> (348 acre-feet) were applied to 128 approved acres.
- 159 acre-feet<sup>10</sup> and 223 acre-feet<sup>11</sup> (382 acre-feet) were applied to 211 approved acres.
- 56 acre-feet<sup>12</sup> and 87 acre-feet<sup>13</sup> (143 acre-feet) were applied to 122 approved acres.
- 245 acre-feet were applied to 108 approved acres. 14
- The permit authorized the perfection of 1,090 acre-feet on 621 acres, or 1.755 acre-feet per acre, but only 569 authorized acres were irrigated during the perfection period, resulting in perfection of 998.73 acre feet

While the certificate limits the total quantity to 880 acre-feet based on DWR's after-the-fact determination that 1.5 acre-feet per acre was a reasonable quantity for irrigation use, DWR did not have jurisdiction to make this reduction.<sup>15</sup>

Since the perfection period has expired, the "authorized quantity" for this water right is the 998.73 acre-feet actually perfected even though it exceeds the certified quantity.

There are at least two alternative approaches to calculating consumptive use.

#### NIR for Alfalfa

According to the Kansas Irrigation Guide, the NIR for the 50% chance rainfall in Edwards County is 13 inches (1.083333 feet) for corn and 20.9 (1.741666 feet) inches for alfalfa.

Since alfalfa was grown on the authorized place of use during the year of record, <sup>16</sup> it is reasonable to use the NIR for alfalfa, which yields a total quantity of 991.01 acre-feet consumed. While this quantity is greater than the quantity set out in the certificate, it is less than the 998.73 perfected acre-feet, the "maximum annual quantity authorized by the water right."

#### An alternative approach

DWR's use of the NIR of 1.08 feet of water for corn is based on its maximum gross irrigation requirement of 1.5 acre-feet per acre. The regulation allows the conversion of 72% of the maximum quantity to a new use; in other words, it assumes that 28% of the quantity diverted returns to the aquifer.

WATER RESOURCES RECEIVED

<sup>&</sup>lt;sup>8</sup> FIR, HAYS000986, Ex. E, and HAYS000997, Ex. F.

<sup>&</sup>lt;sup>9</sup> FIR, HAYS000980, Ex. G.

<sup>&</sup>lt;sup>10</sup> FIR, HAYS000944, Ex. H.

<sup>&</sup>lt;sup>11</sup> FIR, HAYS000950, Ex. I.

<sup>&</sup>lt;sup>12</sup> FIR, HAYS000961, Ex. J.

<sup>&</sup>lt;sup>13</sup> FIR, HAYS000968, Ex. K.

<sup>&</sup>lt;sup>14</sup> FIR, HAYS000975, Ex. L.

 <sup>&</sup>lt;sup>15</sup> Certificate, HAYS001034-1035, Ex. C; Doug Bush Memo dated March 20, 1995, HAYS001024-1025, Ex. M; and *Clawson v. Kansas Dept. of Agriculture, Div. of Water Resources*, 49 Kan. App. 2d 789, 315 P.3d 896 (2013).
 <sup>16</sup> FIRs, HAYS000947 (Ex. H), 953 (Ex. I), 964 (Ex. J), 971 (Ex. K), 978 (Ex. L), and 1000 (Ex. F). *See also* 1977WUR, HAYS000892, Ex. N, and HAYS004448-4453 (Ex. O).

<sup>&</sup>lt;sup>17</sup> See K.A.R. 5-5-9(a)(4).

Administrative Policy No. 86-8, dated Nov. 5, 1986, Ex. P, stating that: "In that area of Kansas located between the Range 5 East/Range 6 East Line and the Range 20 West/Range 21 West line, the maximum allowable quantity shall not exceed an average of 1.50 acre-feet per acre irrigated." *See also*, K.A.R. 5-3-24 and Doug Bush Memo dated March 17, 1987, HAYS000679-70, Ex. Q.

If 28% of the 998.73 acre-feet legally applied during the perfection period percolates back to the aquifer, then 72%, or 719.08 acre-feet, should be available for conversion to municipal use. While this quantity is greater than the quantity set out in the certificate, it is less than the 998.73 perfected acre-feet, the "maximum annual quantity authorized by the water right."

The applicants request that DWR approve a total of 991.01 acre-feet for municipal use.

WATER RESOURCES RECEIVED



STATE BOARD OF AGRICULTURE
Roy Freeland, Secretary

DIVISION OF WATER RESOURCES
Guy E. Gibson, 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 No. 21.731

of the applicant

Midwest Land and Cattle Company c/o John Carson, Manager Box 208 Kinsley, Kansas 67547

for a permit to appropriate water to 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 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 January 2, 1974.
- 2. That the water sought to be appropriated shall be used for irrigation on the land described in the application.
  - 3. That the source from which the appropriation is made shall be from

(See Paragraph No. 13)

WATER RESOURCES
RECEIVED

JUN 2 9 2015

4. That the appropriation sought shall be limited to a maximum diversion rate not in excess of

3900 gallons per minute (8.69 c.f.s.)

KS DEPT OF AGRICULTURE

and to a quantity of not to exceed

1090 acre-feet

for any calendar year.

SCANNERECEIVED

(OVER)

cueles 2,3,45

MICPOSTS APED 10

- ecember 31, 19 77. The applicant version of water shall be completed on or before shall notify the Chief Engineer of the Division of Water Resources when construction of the works has been completed.
- 6. That the proposed appropriation shall be perfected by the actual application of water to the proposed beneficial use on or before December 31, 1981
- 7. That the applicant shall maintain records from which the quantity of water actually diverted during each calendar year may be readily determined. Such records shall be furnished to the Chief Engineer as soon as practicable after the close of each calendar year.
- 8. 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 or any authorized extension
- 9. That the use of water herein authorized shall not impair any use under existing water rights nor prejudicially and unreasonably affect the public interest.
- 10. 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.
- 11. That this permit does not constitute authority under K.S.A. 82a-301 to 305 to construct any dam or other obstruction; it does not give any right-of-way, or authorize any injury to, or trespass upon, public or private property; it does not obviate the necessity of obtaining assent from Federal or Local Governmental authorities when necessary.
- 12. 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.
- 13. That the source from which the appropriation is made shall be from ground water in the drainage basin of the Arkansas River to be withdrawn by means of seven (7) wells: one well in the Southwest Quarter of the Southeast Quarter of the Southwest Quarter (SW4 SE4 SW4) of Section 30, one well near the center of the Northeast Quarter (NE%), one well in the Northwest Quarter of the Northeast Quarter of the Northwest Quarter (NW4 NE4 NW4), one well in the Northwest Quarter of the Northeast Quarter of the Southwest Quarter (NW $_4$  NE $_4$  SW $_4$ ), one well near the center of the West side of the Northeast Quarter of the Southwest Quarter (NE $_4$  SW $_4$ ) and two wells in the Southeast Quarter of the Northeast Quarter of the Southeast Quarter (SE& NE% SE%) of Section 31, all in Township 25 South, Range 19 West, in Edwards County, Kansas, located substantially as shown on the aerial photograph accompanying the application.

WATER RESOURCES RECEIVED

Dated this 27thday of February

1976

JUN **2 9** 2015

KS DEPT OF AGRICULTURE

Guy E/ Gibson, 'Chief Engineer Division of Water Resources ansas State Board of Agriculture

HAYS001011



90

#### THE STATE



#### OF KANSAS

STATE BOARD OF AGRICULTURE Recolcheck \$50 21-2.14 Che from Wilsony Flame

DIVISION OF WATER RESOURCES Guy E. Gibson, Chief Engineer

#### APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

(The Statutory Filing Fee of \$50,00 Must Accompany the Application)

	To the Chief Engin	eer of the Division of Water i	Resources, Kansas !	State Board of Agriculture	3:	TER
		MIDW	EST LAND \$	CATTLE COMPANY	TATED O	1 E R
		(Mr.) c/o I	OHN CARSÓN	I, MANABER	GEE.	6.73
	Comes now the		laster Joint	Venture	whose post office	<b>.</b>
		Box 2	108 , KINSLE	EY, KS. 67597		
	address is c/o-A	ndrew J. Moore, Atto.	rney at Law,	P.O. Box 588, Woo	dward, Oklahoz	n 73801:
	24.36	Programme State of the Control of th		12	, 1	•
	and makes applicat	tion to the Chief Engineer of	the Division of W	ater Resources, Kansas	State Board of Agr.	
	culture for a norm	it to appropriate for beneficie		ropriated ground	weter	<b>V</b> .
	culture, for a permi	at to appropriate for beneath	u use such unapp	(surface wa	ater or groundwater)	
	as may be available	in Arkansas River	Basin	in the county of	Edwards	-
		(name of stream or drain	age basin)	, ,		
	state of Kansas, to	the extent and in accordance	with the particula	ars hereinafter described:	•	
	1 77%		1000	come feet		·
	1. The quanti	y of water desired is in the an	nount of 1070	re feet or million gallons)	per year, to b	
	diverted at a maxim	num rate of 3900 gals po			•	. 1
	See back	(millions no	r minute or cubic feet per	second)		-
	2/ The location	n of the proposed wells or oth	er works for diver	sion of water is in the	quarter of the	е
		• • • • • • • • • • • • • • • • • • • •	•	1		
	quarter	of thequarter of se	ection, t	ownship, r	angei	1
	Edwards	Country	Vanaga		ange in OF WATER	
		County,	Kuisas.	in the second of	COM COOK	PCS.
	3. The water i	is intended to be appropriate	d for:		18 WILLIAM	· E.
\	/		;			a Ri
	OF WATER PE			Amount	OCT 1 5 197	5 <i>- 6</i>
No.	CTR S	(a) Domestic use	( )		17 Jan 18	/#/
	Yellive 131	4	( )		GONAD OF AGRICU	₹ <sup>™</sup>
10/n	ECO2 1974	(b) Municipal use	( )		OF AGRIC	WATER RESOURCES
	19/4			1090 were ft.		RECEIVED
13/		(c) Irrigation use	( <b>x</b> )	-3900 gala por	minute	112021
Và	CANAL TOWN	(d) Industrial use	( )		•	JUN <b>2 9</b> 2015
\\^\circ}	AND COM MORE	(a) massalaruse	( )		hic to .	
		(e) Recreational use	( )		"HURUTH	
Note	stone enote	N)			- ILIM	ED KS DEPT OF AGRICULTURE
Rice	Hr- E-1 Paris	OF WATER Power use	( )	<del></del>	•	
0.1		icheck intended use or use	s and Rolling	hViEiD for each use )	RECEIVED	\$
7,,	77 a.m.	William Call		ou quantity for outin aboy	KL OLIVE!	)
	عالم الم	JUL 2 4 1975		· 4070	HAYS0010	002
	1 5	JOERA ISTS   193	* GMAR 85	NIA10	JUL 1 5, 1974	SCANNER
	21731	345 /S/	Page 1409 9FIELD	- nesees		SCANNED
		OARD OF AGRICULT	DIVISION OF WAT	ER RESOURCES DIVIS	FIELD OFFICE ION OF WATER RESOUR	
	<i>\i</i> ,	TIAN UE FOR THE	STAFF	ORD	CTASESSON	1055

STAFFORD

STAFFORD

- 4. If for municipal use, attach tables or curves showing past, present and estimated future population and water requirements of the city.
- 5. If for industrial use, attach tables or curves showing past, present and estimated future water require-
- 6. If for irrigation use list below or attach name and address of each landowner and the legal description of the lands to be irrigated by designating the actual number of acres to be irrigated in each forty acre tract or

fractional portion thereof: Kinsley Joint Venture is a partnership with the following owners; J. D. Hodges, 1921 Broadmoor, Woodward, Oklahoma MIDWEST LAND CATTLE CO.
W. A. McQuiddy, 1210 S. Fordham, Perryton, Texas MIDWEST LAND CATTLE CO.
Drew Ellis, 823 S. Indiana, Perryton, Texas C/o John CARSON, MANAGER Clo John CARSON, MANAGER H. C. Brillhart Jr., P. O. Box 576, Parryton, Texas KINSLEY, Ks. 67547
Word B. Sherrill, P. O. Box 399, Perryton, Texas \* GEE - SEE LETY John O. Ellis Jr., P.O. Box 610, Perryton, Texas \* GEE - SEE LETTER

Owner of Land—NAME: #toutay Toint

orney P. C. Box 588. Woodward, ADDRESS: c/o Andrew J.

DATED 8-8-75

**WATER RESOURCES** RECEIVED

JUN 2 9 2015

KS DEPT OF AGRICULTURE

			T				<del></del>				<del>,</del>				T	44550	· · · · · ·		
Sec	Two	Range		N	Eł			N'	W‡			81	Wł			8	Eł		Total
Deu.	AWP.	range	NE	NW	sw:	SE	NE:	NW	sw <sub>1</sub>	SE	NE;	NWI	sw:	SE	NE:	NWI	sw <sub>1</sub>	SE	TOUR
31	25	19	27	34 5	28	27	34 -35	2 8 26	38 3	39 <del>5</del>	34	37	13	6	40	35	17	39	488
30	25	19												**			<u>-</u> 4	,	50
34	25	<b>10</b>	·	,		7	·			اد				د	20		,	7	34

irrigated by pump well and irrigation system located ofNW/4 of 31-25-19 plus auxiliary well in SE/4 of SE/4 of SW/4 of 30 SAME AS ABOVE Owner of Land-NAME:

> ADDRESS: SAME AS ABOVE

Sec. Twp. Range		N	ΕĮ	w		Ŋ	W}			78	V}			8	E}		70-4-1	
Sec. 1 wp. Range	NE	NWI	swi	SE	NEĮ	NMİ	sw1	SE	NE:	NW!	sw <sub>1</sub>	SE}	NE	NW	swi	SEŁ	Total	
<del>31 25 19</del>			2				8	10	40	40	-20-	-23		-10	9-		170	SCANNED
32 25 19				1 mm.			1		7.47	25	23						49	/
				-,												-	6	621 <del>24</del>

2 wells and irrigation system section. SAME AS ABOVE

			AJ.	DDRE	288:_			SAPE	L AD	ADC	7419								
9	Sec. Twp, Range		NE <sub>1</sub>			NW1			81	W į		SE }				Total			
	. IWP.	resuge	NE	NW	SW <sub>1</sub>	SE	NE:	NW}	swi	SE:	NE	NW}	swi	SE }	NE	NW}	8Wł	SE}	Total
. <u>. • . 3</u> :	1 25	19				-6									-37	-8-	-7-	-36	151
•_3	2 25	-19							5			27	-25-						
** 3	L <u>-25</u>	_19	32	<del>31</del>	24	25	11.						\					VS	and for

system located in the SE/4 Of NE/4 of Section 31-25-19. This acreaged Irrigated by pump, well 1800 center of irrigation system located in SE/4 of NE/4 of NE/4 of Section 31-25-19 \* GUY EILIS

7. The works for diversion of water will con	asist of
•	(wells, pumps, etc.)
d will be completed by already compl	(Date)
8. The first actual application of water fe	or the beneficial use proposed was or is estimated to be
already used - use begun with 197	73 growing season
9. The application must be accompanied ei	ther by a detailed plat prepared from an actual survey or by
a aerial photograph of the area.	
The plat or aerial photograph should show	
(a) Location of the proposed point or	points of diversion
(b) Location of the pipe lines, canals	s, reservoirs or other facilities for conveying water from the
point of diversion to the place of us	se
(c) If for irrigation, show the location	of the land proposed to be irrigated
(d) If for industrial or other use, show	v the location of the land where water will be used.
10. List and describe other applications filed	or vested rights held by applicant:
None	or voscourigina note by approach.
II. The relation of the subscriber to this ann	lication is that of Attorney  (Owner, agent or otherwise)
	6
Dated at Kinsley	Kansas, this 15 day of Wee, 197
nd he is authorized to make this application in be  Dated at <u>Kinsley</u> ,	
	(Applicant)
	By D. all Lame Lame
	D. Allen Frame (Asmt Office)

Note:

1 cubic foot per second = 448.8 gallons per minute = 646,317 gallons per day = 1.98 acre feet per day.

1 million gallons per day = 1.547 cubic feet per second = 3.07 acre feet per day.

1 acre foot = 43,560 cubic feet = 325,851 gallons.

5-72-10M SET

MICCOFILMED

WATER RESOURCES RECEIVED

JUN 2 9 2015

KS DEPT OF AGRICULTURE

RECEIVED RECEIVED

JU**HÀŸŚ8**&1004

SCANNED

MAR 8 1976

FIELD OFFICE
DIVISION OF WATER RESOURCES
STAFFORD

Answers for No. 2.

Location for proposed wells 
NW/4 of NE/4 of NW/4

NW/4 of NE/4 of SW/4

NW/4 of NE/4 of SW/4

NE/4 of SE/4 of SE/4

SE/4 of NE/4 of SE/4

NE/4 of NE/4 of SE/4

NE/4 of NE/4 of SE/4

NE/4 of NE/4 of SE/4

Near Ctr. of the NE/4

All in Section 31, Township 25, Range 19, Edwards County, Kansas

Sec. 30, T255-RI9W SW 1/4 SE 1/4 SW/4 P

WATER RESOURCES RECEIVED

SCANNED

JUN 2 9 2015

KS DEPT OF AGRICULTURE

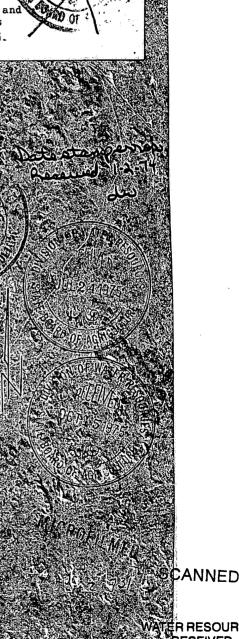
HAYS001005

The circle system whose pivot is marked by point X, has one well and pump at the pivot and one well and pump 500 yds to the northeast at point Y. Points X and Y are joined by a pipe line. This irrigation system covers 112 acres and has a radius of 1250 feet.

The irrigation system whose pivot is marked by point B has one well and pump at point A which is 200 feet west of point B and one well and pump at point C which is 500 yards north of point B. There is a pipe line running from A to B and a pipe line running from C to B. This system covers 170 acres and has a radius of 1535 feet.

The irrigation system whose system is marked by point D has one well and pump at the pivot and another well and pump at point E which is 178th of a mile north of point D. This system covers 1517 dores and has a radius of 1447 feet

The system whose pivot is marked by point F has one well an pump at the pivot, this covers 112 acres and has a radius of 1250 feet.



DECO 2 19

ER RESOURCES RECEIVED

N 2 9 2015

KS DEPT OF AGRICULTURE



#### OF KANSAS

#### DUPLICATE COPY DIVISION OF WATER RESOURCES David L. Pope, Chief Engineer

KANSAS DEPARTMENT OF AGRICULTURE Alice A. Devine, Secretary of Agriculture

CERTIFICATE OF APPROPRIATION

FOR BENEFICIAL USE OF WATER

WATER RIGHT, File No. 21,731

PRIORITY DATE January 2, 1974

WHEREAS, It has been determined by the undersigned that construction of the appropriation diversion works has been completed, that water has been used for beneficial purposes and that the appropriation right has been perfected, all in conformity with the conditions of approval of the application pursuant to the water right referred to above and in conformity with the laws of the State of Kansas.

NOW, THEREFORE, Be It Known that DAVID L. POPE, the duly appointed, qualified and acting Chief Engineer of the Division of Water Resources of the Kansas Department of Agriculture, by authority of the laws of the State of Kansas, and particularly K.S.A. 82a-714, does hereby certify that, subject to vested rights and prior appropriation rights, the appropriator is entitled to make use of groundwater in the drainage basin of the Arkansas River to be withdrawn by means of seven (7) wells:

one (1) well located in the Southwest Quarter of the Southeast Quarter of the Southwest Quarter (SW\( \) SE\( \) SW\( \) ) of Section 30, more particularly described as being near a point 380 feet North and 3,785 feet West of the Southeast corner of said section, at a diversion rate not in excess of 450 gallons per minute (1.00 c.f.s.) and a quantity not to exceed 80 acre-feet of water per calendar year;

one (1) well located near the center of the Northeast Quarter (NE½) of Section 31, more particularly described as being near a point 3,975 feet North and 1,270 feet West of the Southeast corner of said section, at a diversion rate not in excess of 605 gallons per minute (1.35 c.f.s.) and a quantity not to exceed 162 acre-feet of water per calendar year;

one (1) well located in the Northwest Quarter of the Northeast Quarter of the Northwest Quarter (NW\ NE\ NW\) of Section 31, more particularly described as being near a point (2) feet Nexth 3,920 feet West of the Southeast corner of said section, at a diversion rate

WATER RESOURCES
RECEIVED

JUN 2 9 2015

KS DEPT OF AGRICULTURE SCANNED

AUG 3 1 1995

HAYS001034

Certificat

Re: File No. 21,731

#### DUPLICATE COPY Page 2

not in excess of 625 gallons per minute (1.39 c.f.s.) and a quantity not to exceed 192 acre-feet of water per calendar year;

one (1) well located in the Northwest Quarter of the Northeast Quarter of the Southwest Quarter (NW1 NE1 SW1) of Section 31, more particularly described as being near a point 2,460 feet North and 3,660 feet West of the Southeast corner of said section, at a diversion rate not in excess of 735 gallons per minute (1.64 c.f.s.) and a quantity not to exceed 177 acre-feet of water per calendar year;

one (1) well located near the center of the West side of the Northeast Quarter of the Southwest Quarter (NE% SW%) of Section 31, more particularly described as being near a point 1,925 feet North and 3,810 feet West of the Southeast corner of said section, at a diversion rate not in excess of 525 gallons per minute (1.17 c.f.s.) and a quantity not to exceed 126 acre-feet of water per calendar year;

one (1) well located in the Southeast Quarter of the Northeast Quarter of the Southeast Quarter (SE $\frac{1}{4}$  NE $\frac{1}{4}$  SE $\frac{1}{4}$ ) of Section 31, more particularly described as being near a point 1,899 feet North and 54 feet West of the Southeast corner of said section, at a diversion rate not in excess of 380 gallons per minute (0.85 c.f.s.) and a quantity not to exceed 87 acre-feet of water per calendar year, and

one (1) well located in the Southeast Quarter of the Northeast Quarter of the Southeast Quarter (SE\ NE\ SE\) of Section 31, more particularly described as being near a point 1,440 feet North and 405 feet West of the Southeast corner of said section, at a diversion rate not in excess of 245 gallons per minute (0.55 c.f.s.) and a quantity not to exceed 56 acre-feet of water per calendar year,

all in Township 25 South, Range 19 West, Edwards County, Kansas,

for irrigation use on the following described property:

```
23.00 acres in Lot 4 (SW1 NE1),
26.00 acres in the Southeast Quarter of the Northeast Quarter (SE\ NE\),
 1.00 acre in the Southwest Quarter of the Southeast Quarter (SW\( \) SE\( \)),
```

a total of 50.00 acres in Section 30, Township 25 South, Range 19 West.

SCANNED

KS DEPT OF AGRICULTURE

```
27.00 acres in the Northeast Quarter of the Northeast Quarter (NE% NE%), WATER RESOURCE
34.00 acres in the Northwest Quarter of the Northeast Quarter (NW% NE%),
                                                                           RECEIVED
38.00 acres in the Southwest Quarter of the Northeast Quarter (SW1 NE1),
27.00 acres in the Southeast Quarter of the Northeast Quarter (SE1/4 NE1/4),
                                                                         JUN 2 9 2015
36.00 acres in the Northeast Quarter of the Northwest Quarter (NE NW4),
                                       RECEIVED
28.00 acres in Lot 1-(NW1 NW1),
```

38.00 acres in Lot 2 (SW $\frac{1}{2}$  NW $\frac{1}{2}$ ), 39.00 acres in the Southeast Quarter of the Northwest Quarter (SE% NW%),

34.00 acres in the Northeast Quarter of the Southwests Quarter (NEW \$001035

Re: File No. 21,731

## DUPLICATE COPY Page 3

```
37.00 acres in Lot 3 (NW1 SW1),
13.00 acres in Lot 4 (SW3 SW3),
 6.00 acres in the Southeast-Quarter of the Southwest Quarter (SE\ SW\),
40.00 acres in the Northeast Quarter of the Southeast Quarter (NE% SE%),
35.00 acres in the Northwest Quarter of the Southeast Quarter (NW% SE%).
17.00 acres in the Southwest Quarter of the Southeast Quarter (SW1 SE1),
39.00 acres in the Southeast Quarter of the Southeast Quarter (SE% SE%),
      a total of 488.00 acres in Section 31, Township 25 South,
Range 19 West.
1.00 acre in the Southwest Quarter of the Northwest Quarter (SW\ NW\), 25.00 acres in the Northwest Quarter of the Southwest Quarter (NW\ SW\),
23.00 acres in the Southwest Quarter of the Southwest Quarter (SW1 SW1),
      a total of 49.00 acres in Section 32, Township 25 South,
Range 19 West.
 7.00 acres in Lot 7,
17.30 acres in Lot 6,
 7.00 acres in Lot 5.
      a total of 31.30 acres in Lot 36, Township 25 South, Range 20 West,
      all in Edwards County, Kansas.
```

The quantity for the two (2) wells, one (1) well located in the Southwest Quarter of the Southeast Quarter of the Southwest Quarter (SW $\frac{1}{4}$  SE $\frac{1}{4}$  SW $\frac{1}{4}$ ) of Section 30, more particularly described as being near a point 380 feet North and 3,785 feet West of the Southeast corner of said section, and one (1) well located in the Northwest Quarter of the Northwest Quarter (NW $\frac{1}{4}$  NW $\frac{1}{4}$ ) of Section 31, more particularly described as being near a point 5,125 feet North and 3,920 feet West of the Southeast corner of said section is further limited to (192) acre-feet of water per calendar year when the wells are operated simultaneously.

The appropriator shall maintain records from which the quantity of water actually diverted during each calendar year may be readily determined. Such records shall be furnished to the Chief Engineer by March 1 of each year following.

The appropriator shall maintain, in an operating condition satisfactory to the Chief Engineer, all check valves installed for the prevention of chemical or other foreign substance pollution of the water supply.

SCANNED

The appropriation right as perfected is appurtenant to and severable from WATER RESOURCE the land herein described.

The appropriation right shall be deemed abandoned and shall terminate when JUN 29205 without due and sufficient cause no lawful beneficial use is made of water under this appropriation for three (3) successive years. AUG 3 1 1995 AYS 001036 KS DEPT OF AGRICULTUR

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 stream flow at the appropriator's point of diversion.

IN WITNESS WHEREOF, I have hereunto set my hand at my office Kansas, this 25th day of , 1995 L. Pope, P.E. David Chief Engineer ್ಷು **E**Division of Water Resources Kansas Department of Agriculture State of Kansas County of Shawnee

The foregoing instrument was acknowledged before me this , 1996, by David L. Pope, P.E., Chief Engineer, Division Resources, Kansas Department of Agriculture.

appointment expires: 3-1-98

WATER RESOURCES RECEIVED

JUN 2 9 2015

KS DEPT OF AGRICULTURE (Record in the Office of Register of Deeds in the county or counties wherein the point of diversion is located) COUNTY, 88. RECEIVED ą Š CERTIFICATE OF APPROPRIATION 3 1 1995 FOR BENEFICIAL USE OF WATER STATE OF KANSAS le<mark>g</mark>office M<mark>a</mark>ter resourc<u>e</u>s TOPOH C SORD SCANNED STATE OF KANSAS, record this HAYS00103 recorded in Book Pag**&**22 of 96 MICROFILMED 뎚

February 27, 1976

Midwest Land and Cattle Company c/o John Carson, Manager Box 208 Kinsley, Kansas 67547

Re: Appropriation of Water

Application No. 21,731

Gentlemen:

Your application has been examined and is found to be in proper form. Further, we find that the proposed use is for a beneficial purpose and is within reasonable limitations. If priorities are observed and respected, the proposed use will neither impair any use under existing water rights nor prejudicially and unreasonably affect the public interest. It is presumed that the application is made in good faith, and that you are ready to proceed with the proposed diversion works and the application of water to the proposed use. The application has, therefore, been approved.

There is enclosed the approval of the application authorizing you to proceed with construction of the proposed diversion works, to divert such unappropriated water as may be available from the source and at the location specified in the approval of application, and to use it for the purpose and at the location described in the application.

There is also enclosed a memorandum setting forth the procedure to obtain a certificate of appropriation which will establish the extent of your water rights.

Should you have any questions or if we can be of any assistance to you, please feel free to write or call us.

Very truly yours,

WATER RESOURCES RECEIVED

JUN 2 9 2015

Riley M. Dixon Hydrologist

SCANNED KS DEPT OF AGRICULTURE

RECEIVED

MAR 8

1976 MARSON 1,209 ED

RMD:eel

Encs.

Year of Record 1993 Extension of time needed: Yes No Attached? Yes	OF MEHICO
Field Office No. 02 G.M.D. No. 05  Test J of J. diversion points. County Lawres  (Circle Z, 'N' will held 22  EVANS BIERLY-HUTCHISON & ASSOCIATE COUNTY  File No. 21, 731 Inspection Date 2-23-75 Firm/Field Office  CONSULTING ENGINEERS  Current Landowners County File No. 21, 732 Inspection Date 2-23-75 Firm/Field Office  Consulting English Rands 25/250  Lee Well break! Public Works Director  Address   Great Religion   Mannicipal   Hydraulic Dredging Classification: () Recreation () Stockwatering () Water Power () Artificial Recharge () Contamination Reme Source: 4-Groundwater () Surface Water Basin/Stream Fetterman Surface  Authorized Point of Diversion: New York Basin/Stream Fetterman Surface  Authorized Point of Diversion: New York Basin/Stream Fetterman Surface  Approximately fin North and fit. West of SE corner of Sec. 31. T.25., R. Fet., ID No. 02  Approximately fin North and 3720 ft. West of SE corner of Sec. 31.  Approximately St25 ft. North and 3720 ft. West of SE corner of Sec. 31.  Approved Quantity 1990 AF Approved Diversion Rate 3700 g.p.m. (Bell cf.s.)  Priority Date 1 2 44 Approved Date 2-27-16 Perfection Date 12-31-8/  Other applications covering land and/or point of diversion (Include discussion of overlapping files in remarks section)  LAND TO BE INCLUDED ON FRECORD 1988  To Reserve Files of Sec. 1011  ACRES SEC. 17 27 34 38 27 36 28 37 32 34 37 34 37 34 37 34 48 37 73 4 48 37 73 54 4	OF MEHICO
Test / of 7 diversion points. County Librards  Circle 2, 'N' will state 22  EVANS-BIERLY-HUTCHISON & ASSOCIATE BOARD  File No. 21, 731 Inspection Date 2-23-75 Firm/Field Office  CONSULTING EMERIFEERS  Phone No. (Fig. 1) EMERIFEERS  Phone No. (Fig. 1) EMERIFEERS  Phone No. (Fig. 1) EMERIFEERS  Address   Get   Mair   May 3   Sec. 21   Sec. 31   Sec. 32   Sec. 33   Sec. 34   Sec. 34   Sec. 35   Sec. 34   Sec. 35   S	OF MEHICO
Test of 7 diversion points. County August 15 (Circle 2, "N" will state 2)  EVANS. BIERLY. HUTCHISON & ASSOCIATE DIVERS FIRM / File No. 21, 731   Inspection Date 2 23 75 Firm / Field Office CONSULTING ENGINEERS  Current Landowner Circle of the County of t	
File No. 21, 73 / Inspection Date 2-23-5 Firm/Field Office  Current Landowner Control of	
Current Landowner Creek Park Lee Well breek! Public Week's Director Address [66] Maria May X S G 7 GO]  Additional landowners and addresses identified in remarks section.  Water Use () Domestic () Industrial () Irrigation () Municipal () Hydraulic Dredging Classification: () Recreation () Stockwatering () Water Power () Artificial Recharge () Contamination Reme Source: () Groundwater () Surface Water Basin/Stream Mexicus Basin/Stream Authorized Point of Diversion: () Surface Water Basin/Stream Mexicus Basin/	iation
Address   Co   Main   May   K   C   C   C   C   C   C   C   C   C	iation
Water Use () Domestic () Industrial () Irrigation () Municipal () Hydraulic Dredging Classification: () Recreation () Stockwatering () Water Power () Artifical Recharge () Contamination Reme Source: (A) Groundwater () Surface Water Basin/Stream Revented Surface Water Basin/Stream R	iation
Classification: () Recreation () Stockwatering () Water Power () Artifical Recharge () Contamination Reme Source: (A-Groundwater () Surface Water Basin/Stream Reclange () Contamination Reme Source: (A-Groundwater () Surface Water Basin/Stream Reclange () Contamination Reme Source: (A-Groundwater () Surface Water Basin/Stream Reclange () Contamination Reme Source: (A-Groundwater () Surface Water Basin/Stream Reclange () Contamination Reme Source: (A-Groundwater () Surface Water Basin/Stream Reclange () Contamination Reme Source: (A-Groundwater C) Contamination Reme Reclandwater C) Contamination Reme Reclandwat	iation
Authorized Point of Diversion:	•
Approximately	<del>;</del>
Approximately \$72\$ ft. North and \$720 ft. West of SE corner of Sec. 31  How were distances determined? **Approved Diversion Rate \$700 g.p.m. (869 c.f.s.)*  Priority Date **/- 2-94* Approval Date **2-27-96* Perfection Date **/- 23-81*  Other applications covering land and/or point of diversion **(include discussion of overlapping files in remarks section)*  LAND TO BE INCLUDED ON CERTIFICATE:  \$   T   R   NE   NU   SU   SE   NE   NU   SE   NE   NU   SU   SE   NE   NU   SU   SE   NE   NU   SU   SE   NE   NU   SE   NE   NU   SU   SE   NE   NU   SE   NU   SE	
How were distances determined?  **Approved" Quantity   1990   AF "Approved" Diversion Rate   3900 g.p.m.   8-69 c.f.s.)  Priority Date   - 2-94   Approval Date   2-27-96   Perfection Date   12-31-81  Other applications covering land and/or point of diversion (include discussion of overlapping files in remarks section)  LAND TO BE INCLUDED ON CERTIFICATE:  \$   T   R   NE\( \) NE\( \) NE\( \) NU\( \) SU SE NE NU SE NE NU SU	
Approved   Quantity   190	
Priority Date	
Other applications covering land and/or point of diversion (include discussion of overlapping files in remarks section)  LAND TO BE INCLUDED ON CERTIFICATE:  S T R NEW NW SW SE NE NW SW	
(include discussion of overlapping files in remarks section)  LAND TO BE INCLUDED ON CERTIFICATE:  S T R NEW NW SW SE NE NW SW SE NE NW SW SE NE NW SW SE ACRES  32 25 19	
S   T   R   NEx   NUX   SUMX   SE   NE   NU   SU   SE   NU	
S T R NEW SW SE NE NU SW SE NE NW SW SE NE	• •
NE   NW   SW   SE   NE   NW   SW   SE   NE   NW   SW   SE   NE   NW   SW   SE   ACRES	
25 17 27 34 39 27 36 29 35 39 34 57 13 6 40 35 17 39 48 8  32 25 17 27 34 39 27 36 29 35 39 34 57 13 6 40 35 17 39 48 8  32 25 17 27 34 39 27 36 29 35 39 34 57 13 6 40 35 17 39 48 8  32 25 17 25 17 34 39 27 36 29 35 39 34 57 13 6 40 35 17 39 48 8  LAND IRRIGATED—YEAR OF RECORD 198	
32   25   17	·
AND IRRIGATED—YEAR OF RECORD   788	
S   T   R   NEX   NWX   SVX   SEX   TOTAL	<del></del>
S T R NEX NWX SWX SEX TOTAL ACRES  \$\int 25  \text{/9}	<del></del>
NE   NW   SW   SE   ACRES	
1	
TESTED DIVERSION RATES  Maximum G.P.M. (c.f.s. ) Normal G.P.M. 567 (c.f.s/,26)  FOR D.W.R. USE ONLY  Year of Record 1993 Extension of time needed: Yes No Attached? Yes	<del></del>
TESTED DIVERSION RATES  Maximum G.P.M. (c.f.s. ) Normal G.P.M. 567 (c.f.s/,26)  FOR D.W.R. USE ONLY  Year of Record 1993 Extension of time needed: Yes No Attached? Yes	
Maximum G.P.M. (c.f.s. ) Normal G.P.M. <u>567</u> (c.f.s./26) WATE  Year of Record 1993 Extension of time needed: Yes No Attached? Yes	
Year of Record 1993 Extension of time needed: Yes No Attached? Yes	
Year of Record 1993 Extension of time needed: Yes No Attached? Yes	
Year of Record 1993 Extension of time needed: Yes No Attached? Yes	CANNE
$\overline{C}$	RESOUR
AF Applied = $4200$ hrs. x $56$ / g.p.m. x $\frac{4.419}{1.00}$ = $230$ AF	RESOUR
"Approved" land irrigated $\frac{128}{AF}$ acres, with $\frac{230}{AF}$ AF = $\frac{1.80}{BO}$ AF\acre	RESOUR ECEIVED
	RESOUR
128 acres x 1.5 A.F. per acre = 192 A.F. KSDE	RESOUR ECEIVED No 1 2 9 201
	RESOUR ECEIVED No 1 2 9 201
HAYS0	RESOUR ECEIVED No 1 2 9 201
Perfected Rate	RESOUR FOEVED 1 2 9 2011 LOEAGRICULT
21731 Completed b Page 2909 96 c/ 05 1 1800 Bush	RESOUR FOEIVED 1 2 9 201 LOEAGRICULT
21731 Completed b Page 2909 96 close & Free Bush  DWR-101 (Rev. 03/29/91)  -1-0949 100 100 100 100 100 100 100 100 100 10	RESOUR FOEIVED 1 2 9 201 LOEAGRICULI 0986

#### GENERAL INFORMATION ON IRRIGATION SYSTEM:

Eenter Pivot				
Manufacturer Zimme			Serial No. <u>241</u>	
Drive: Water 🗷 El	ectric Length of Piv	ot Arm	Acres Irr. <u>/28 (45</u>	CS )+ MREL
			Operating Pressure-Pivot	
Is there an end gun?	₩ Yes □ No		Is end gun operating during test?	Yes 🗆 No
End Gun Model	P85 Sprin	bler Ra	ing	g.p.m.
☐ Gravity Irrigation			•	•
Items to be shown on skete location and 6) hydran		of pipe, 2) size	es of pipe, 3) type of pipe, 4) set which wa	s tested, 5) test
Description				
<b> </b>		e .		
Manufacturer			Serial No.	
Unusual condition/other informa	tion			· · · · · · · · · · · · · · · · · · ·
POWER UNIT INFORMATION:		CSI	6-649+6007-2B	
Manufacturer FORD	· · · · · · · · · · · · · · · · · · ·	Model		
Serial No. <u>371/L/3RG</u>	Fuel Nor Last	<i>LP</i> R	ated RPM	
PUMP INFORMATION:		·		
Manufacturer Johnston	/	Model	No. Stages	
Serial No. CF 2/243	Size/Type 8" 72	16iNE	Rated RPM	
GEAR HEAD INFORMATION:	•	•		
Manufacturer Zandsl	ph	Model	<u>- &amp;                                   </u>	
Serial No. 2/83	Drive 21 Angl	<u> </u>	Ratio 6x5.	
WELL INFORMATION:	•	Fem Per	OR TEST FORM	
Date Drilled		<i>t</i>		
Length of time well has □ or	erated Tested price	or to inspection	water Level When Drilled 6 ft.  n	this year
Is measurement tube required	!? □ Yes <b>2 N</b> o		Is measurement tube present?	Yes # No
Depth to water	ft. below LS	SD.		
ADDITIONAL REQUIREMENT				
Is a flow meter required?	,	Make of i	low meter Signat	
Serial No. <u>902 390</u>	Size O"	Flow meter	conversion factor	
Is the meter installed properly	? Tyes D No	lal	Verhege Column pipe in	privat
	eter: +5' Front	+51	BICK	<del></del>
			ner	
Is check valve present?	₽-Yes □ No		,	SCANNED
Is low pressure drain present?	•		Is vacuum breaker present?	Yes I No
Is injection port present?			<del>-</del>	□ Yes 🗷 No
Was a Plant Health Chemigat		? DYes 1	WATER RESOURCES HA	YS000987
		- 2 -	File No.	21,731
21731		Page 25 of 96	JUN-2 9 2015	

KS DEPT OF AGRICULTURE

21731							4.1
N		ا می ا	- 4° - 4°	11 545	// L	840"	
· ·							
T		X					
Scale  1°=ft.			en Enga	Vest	- Pan	_   -	Ar .
:							<u></u>
·							
TEST OF DIVERSION		cation of test_ e Diameter (I.	±5' En	ST OF EN	ngin)		
Test No. 1—Norm R.P.M. POWER U R.P.M. PUMP UN Pressure at Pump	NIT 1890		R.P.M. PC	Maximum OWER UNIT JMP UNIT t Pump		<b>i</b>	
☐ Jacuzzi Meter Test	Me	ter Identificati	ion No. #3		•		
Area Constant K =  Velocity (fps  1.	3.2 3.2 3.4 3.6 3.7 3.7 3.5	Average 5		1 2 3 4 5	VK Velocity (fps)		
8. 3.4 9. 3.3 10. 3.1 Total 33.2 Avg. 3.32 G.P.M. 554	3.5 3.3 34.7 3.47 579	AT TE	ST TIME.	9 10 Total - Avg G.P.M			·
□ Propeller Meter Test	t Ma Me	کے ter Diameter	in Me	odel	Serial No	302390	-
Difference Time		gal. / gal. gal. min.	NOT MEE SEE NOTES	ro use g	owners weler Ending Ending Beginning Difference Time Rate		gal. min.
□ Other Flow Meter			nclude meter ide				<del></del>
•	••		-3-	ാങ് WATER	TC'S		CANNED / 10088

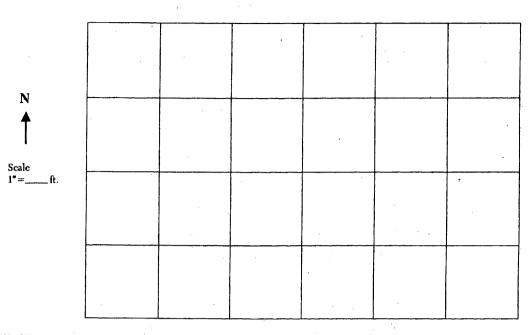
Page 26 of 96

### $\mathcal{L}^{2/3}$ Tabulation of water use determined at the time of this report:

76 77 78 79 80	1224			Acres Irrigated  507 Washington  639 Countries
77 78 79 80 81	1224			639 covering
78 79 80 81	1224			639 carelying
79 80 81		-		
80 81		<b>40</b> 7		
8/			•	<u> </u>
	1416	750		267
97	1152	750	•	267 "
	<u> </u>			
83	2260	62/	-	
84	1750	825		/30
85	180			
		Sec.		•
icate Year of Record w	ith (*)	Source of In	aformation uprellse Popular	ners / Prive Jest
ops Irrigated: this year	11		•	In know
	lete only if water use inf			
☐ Electricity		Supplier	<b>,</b>	
Meter Manufact	urer	Type	Serial No.	
	watt/rev		•	
$Rate = \frac{Kr \times 3.6}{}$	=kw/h	r Hours = -	kw/hr _	
t			rate	
☐ Other Fuels	Туре	Su	pplier	<del></del>
Rate = Volume	(test) =time	_kw/hr		
How was the test	t volume determined?	kungs separal	are questrone BLE - ME E	
MARKS: <u>Landau</u>	un change so	- form men	igns instructor (M)	e. Chaig than )
mes meter is	Signet as in	dirated Dos	sign of meta neg	raks ova lability
comparing och	wacy to our	fot large 1	nultiplier with no	calibrating
sh marks or	rate of flow	dial prevent	timing meter. No	place to begin
dend hove to	est within 5	to 10 second a	acuracy	<del></del>
son present at test 6	reg EBERT		farm	manager
•	(Name)			(refationship)
ter Use Correspondent	_ Same as (	15,TED	(Address)	(phone number)
<i>U</i> · ,	Kiernamile		( <i></i> )	Date 2-23-95
nducted by	and the same	- OF		
MI	1 M Hutchis	$e^{\mu}$ , $p \in$		Date 2-21-73
MI	W Hutches (Signature)	in , pe	(Title)	Date <u>2-27-95</u>
proved by Nuan	VM Hutehra (Signature)	in , pt	(Title) WATER RESOURCES RECEIVED	HAYS000989

#### **CENERAL INFORMATION ON IRRIGATION SYSTEM:**

▼ Center Pivot	■ Low Pressure	
Manufacturer Zimmatic		
Drive Electric	Length of Pivot Arm	
Design Pressure-Pivot	p.s.i. Operating Pressure-Pivot	p.s.i.
End Gun? yes End Gun Rating	g.p.m. / Rain Bird 85	
Is end gun operating during test?		
Gravity Irrigation (show test set on sketch)		
Number of gates open	Normal Pipe Size	
Pressure at pumpp.s.i.		
☐ Other Type	_	•
Manufacturer	Serial No	
Unusual Conditions/Other Info.		
	:	
		•
POWER UNIT INFORMATION:		
	Model No. 300 HP	
Serial No. 13812 T-4-TG Fuel /	Vatural Gas Rated RPM	· 
PUMP INFORMATION:  Manufacturer Johnston Model No	Rated RPM	
Serial No. CF 21243 Type V		
Type Vi	No. stages	<del></del>
GEAR HEAD INFORMATION:		
Manufacturer Randoloh Model No	6.80	
Manufacturer Randelph Model No Serial No. 84561 Drive Right	Angle Ratio 6:5	· .
	3	
WELL INFORMATION:		
Date Drilled Original Depth 46	ft Static Water Level When Drilled #6 ft	
Tape Down Possible? yes /2' W	·	•
Measuring Point O ft. above or below L.S.D.	# From 1975 Water Use Report	WATER RESOURCES
ADDITIONAL REQUIREMENTS:		RECEIVED
Meter Required? 10 Make of Meter		JUN <b>2 9</b> 2015
Meter Model No Serial No		VC DEDT OF ACCIONATION
Is Meter Installed Properly?		
		ves
Chemical Injection System? <u>yes</u> Check V	HAYSO	00998
Vacuum Breaker? Are these anti-pollution  Withemicals are injected into system, please attaches the company of the com	·	SCANNED
chemicals are injected into system, piease attach sketch	or opotonia	· ·



#### TEST OF DIVERSION RATE:

Length of time well has been operating p Location of test Horizontel pip Pipe Diameter (I.D.) 734 in	e between sump and pivot
Test No. 1—Normal Conditions	Test No. 2—Maximum Conditions
R.P.M. POWER UNIT R.P.M. PUMP UNIT Pressure at Pump    2 028	R.P.M. POWER UNIT R.P.M. PUMP UNIT Pressure at Pump psi
☐ Jacuzzi Meter Test	Meter Identification No
Area Constant K = $2.45 \times I.D.^2 =$	Q (gpm) = VK
Velocity (fps) 1 2	Velocity (fps) 1 2
3 4 5	3 4 5
6 7 8	6
10 Total	RECEI <u>9VED</u> 10.  AUC <sup>Total</sup> 1 400E
Avg. G.P.M	AUGA-2. 1 1995  G. P. M. FIELD OFFICE SION OF WATER RESOURCES STAFFORD

Propeller Meter Test	Manufacture	r	Model	Serial No	_WATER RESOURCES
Meter Diameter	inches				RECEIVED
Ending	gal.	Ending	gal.	SHOWER MED	JUN 2 9 2015

Beginning gal.

Difference gal.

Time min.

.gpm

HAYS000999

○ Other Flow Meter

Difference

\_gal.

\_min.

Use Supplemental Sheet (include meter identification, data and calculations).

Time\_

Rate\_

KS DEPT OF AGRICULTURE

FUEL.	REC	OR:	DS.

☐ Electricity	Supplier	,		•	•
Meter Manufacturer	r	· ·			
Kwatt/rev	v r	revolutions	tse	econds	
$Rate = \frac{Kr \times 3.6}{t}$	. =	_kw/hr Ho	urs =	kw-hr =	
	Type Natural	Gq5 Suppl	ie <u>r Kansas - Ne</u>	braska	
Rate = Volume (te					
		1? Not Determined	Because One	e Meter Used For May	y wells
TABULATION OF WATER U	JSE: Hours Pumped ( hr )	Tested Pumping Rate ( gpm )	Water Used ( AF )	Acres Irrigated	
1975	1188	1100		507	
1976	NO DATA	AVAILABLE			
1977	922	500		639	
1978	NO DATA	AUAILABLE			
1979	1224	750		267	
1980	1416	750		267	
1981	1152	750		267	
1982					
* 1983	2200 F	621 *		/28*	. •
1984	1750 ¥	825*		130 *	
1985	1850*		•	130 *	
1986		621*			
* From	Test				
		Reports Sent B	y Jerry Wea	iver of Agri Affiliates	
		Source of Information	Staffard 4	Elles	•
Indicate Year of Record with (*)	al falfa	Source of Information		ara in	
Crops Irrigated: this year	u i sa sa		Year of reco	rd	
REMARKS:			<u> </u>	· · · · · · · · · · · · · · · · · · ·	
		·			
					WATER RESOURCE RECEIVED
<del></del>		· · · · · · · · · · · · · · · · · · ·			JUN <b>2 9</b> 2015
Person present at testK	ent Naber			Irrigation Manager (relationship)	Ve DEDT OF ACRICULTURE
Water Use Correspondent Lyl	(name)		Spearville, X		KS DEPT OF AGRICULTURE
Conducted by Namel	Klassen		Date	)-14-86	
Approved by Went	(signature)	, «	Date	HAYSOC	01000

APPLICATION NO: 217	131 NAME	: Connecticut	General	Life Ins.
COLLINS METER TEST		.· Vi	e e	
Collins Meter No	1-83 M	eter Calibr	ation Fact	or .9559
Pipe Inside Diamete	er (inches) _	7 <u>34</u> Flow	Rate Fact	or 145.4
Test Pressure (psi)	<u>78</u> т	est RPM, Pu	ımp /696	2
Description of Test	: Location_ <u>b</u>	lorizontal	eige betw	een famp
<i>*</i>	, day any san yan dan any san day da san san san			har delen spille filmer street retter stille filmer mede filmer
•		70 n		4.69
TEST DATA: Q_ Check, 1  Meter Setting From	.nitial <u>''</u> Veloci	ty	versed Velo	ity
Meter Setting From Center of Pipe	(or Front	of Pipe Side if Test)	(or Back	Side if
1%6	4.61	4,65	4,63	4.66
23/4		4.57	4.46	4.50
3%1	4.50	4,20	4.10	4,24
Average Velocity of	f Water = Sun	of Vel. ∹	- 12 =	4.47
Corrected Ave. Vel.	. = (Ave. Vel		oration Fa	ctor) =
Flow Rate = (Correc	ted Ave. Vel	.) x (Flow 145.4	Rate Fact	or) = 2/GPM

PUMPING PLANT TESTING, INC. JUN 2 9 2015

WATER RESOURCES RECEIVED

KS DEPT OF AGRICULTURE

Professional Engineer

AUG 3 1 1955

Page 32 of 96'CE DIVISION OF WATER RESOURCES STAFFORD

MICROFILMED **SCANNED** 

HAYS001001

	EXHIBIT	
	21731	
1	G	



R RESOURCES-- KANSAS STATE BOARD OF

ICULTURE /

#### FIELD INSPECTION REPORT

G.M	.D. No	_	05	2	·		مرو مرو							<b></b>		Full Partia Comp		MAR 0 1] 1995
(CITO	42,	Bu	KLL	-)		County						EVA	ns-B	IERLY	-HUTC	HISO	N &	ASSOCIATES OF ALL
File	No3	217	<u>3/</u>	Insp	ection	Date 2	23-	95 F	irm/l	Field	Offic	e		CONS	ULTIN	G EN	GINE	G7530
Curr	ent La	ndowi OW	er (	My	1 BE	HAY	S. L. Work	VS L	Pirec	_ Ph	one	No. (	9/3	16	28	<u>; - ;</u>	35	<u>'0</u> 'S 67601
7,00	·	D A	dditio	onal l	andow	ners an	d addi	resses	iden	tified	in re	mark	s sec	tion.		/-		
Class	sificati		Rec	reatio	on (	( ) Indu ( ) Stocurface V	kwate	ring (	( ) W	ater	Powe	r ( )	Arti	fical	Recha	ırge	()	Hydraulic Dredging Contamination Remediation
						th and										<u> </u>	R∠	7₩, ID No. <u>03</u>
Appr How	roxima were	distance	2 80 ces de	eterm	ft. Nor ined?_	th and _	378 44/4	01	ft. W	ERI	æ,	corne FI	of Sel	Sec	30 SPEC	270	1	<u>9w</u>
					<b>.</b> .	AF									-	,	-	•
Prior	ity Da	te	-2	-74	Z Ap	proval l	Date _	2-	27 <i>-</i>	76	Per	fectio	n Da	ite	12	-3/	-81	
Othe (inch	r appl ude di	ication scussio	n of o	ering overla	land a apping	nd/or p files in	oint o	f dive ks se	ersion ction)		by	E_	•			<u>-</u>		<del></del>
LAN	D TO	BE IN	ICLU	ЉЕI	ON (	CERTI	TCA1	Œ:										· · ·
s	T	R	NE	NW	E½ SW	SE NE	NW	un <sub>k</sub>	SE	NE	NU	W <sub>K</sub>	SE	NE	SI NW	SH	SE	TOTAL ACRES
30	25	194			20		-0					23	_			1		50
32	25	194	21	34	58 2	7 36	28	58	57	34	_	13 2₹		40	3.5	17_	39	488
36	25	200		<u> </u>		7			<u> </u>					20			7	34
LAN	D IRI	RIGAT	ED-			FREC			<u>30</u>		<b></b>							621
s	T	R	NE	NW	SW	SE NE	NU	W <sub>₹</sub>	SE	NE	S'	SW	SE	NE	NW	SU	SE	TOTAL ACRES
30	25	19										25				1		55
3/	25	19		7		36	33	,	2					<b> </b>				73/
																		WATER RESOURCES
		OIVER G.P.M		v RA 45	_	(c.f.s.	1.00	_)	Nor	mal (	G.P.M	ſ	4	50	(c	.f.s. <u>/</u>	1,00	128 RECEIVED  _) JUN 2 9 2015
								FO	R D.V	v.r.	USE	ONL	Y		,			
	of Re	_	111	99	30		ر	Exte	ension	ı of ti	me n			Yes	D No	)	٠.	Attached? Kapenior Agriculture
	pplied		<u> 19</u>	16		rs. x	15	<u>U</u>		p.m. :	<b>x</b> 2	4,419 4 x 10	<b>700</b> 0 7	<u>. [</u>	<u> ၁</u>		٩F	
" <b>Ар</b> р	rovea	land i	rngat A	_		11 N V		s, with EN		<u>1.1)</u> +	11	<b>AF</b> うん		( w	2 e11	- A1 5 l	√ Sp	F(w)= 265 A.F.
	12	9x	],	5			e,		10	Ξ		19	2.	A. 7				
				<del></del>			<u></u>		RE	C	EL	V E	D		···			HAYS000980
Perfe	cted F	late	1	15	O	g.p.n	1. (	(	1. Q	(A)	3.1	–100 ફ	i.)	Perf	ected	Qua		1/8 AF
DWI	21731 <b>2-101</b> (	(Rev. 0	3/29	/91)		Lu	mp	le'	∤ ePay	# <b>.2</b> 3 Fr: <b>1</b> 1	98 7 DOFF	ICE IDDA	549	10s	E 16		Bu:	MICROFILMED
			•	,										~	/ (つ	,	,	SCANNED

#### GENERAL INFORMATION ON IRRIGATION SYSTEM: ₩ Cénter Pivot Manufacturer ZIMMATIC Serial No. 241516 Model -Drive: Water Electric Length of Pivot Arm \_\_\_ Acres Irr. \_\_\_\_\_ 128 (ASCS)4 MR Electric Design Pressure-Pivot \_\_\_\_ p.s.i. Operating Pressure-Pivot\_\_\_\_ Is there an end gun? EFYes □ No. Is end gun operating during test? X Yes No P85 Single spainkling. Rating End Gun Model ☐ Gravity Irrigation Items to be shown on sketch of system: 1) layout of pipe, 2) sizes of pipe, 3) type of pipe, 4) set which was tested, 5) test location and 6) hydrant location Description □ Other Serial No.\_\_\_\_ Model Manufacturer Unusual condition/other information **POWER UNIT INFORMATION:** Manufacturer FORD Serial No. 12177 K13TRFuel Nor 605 CLP Rated RPM **PUMP INFORMATION:** Model -Manufacturer Johnson No. Stages GEAR HEAD INFORMATION: Model #60 Manufacturer Johnson Drive PT Angle Ratio 6XS Serial No. 71521 WELL INFORMATION: Date Drilled NA Original Depth ft. Static Water Level When Drilled Length of time well has $\square$ operated $\square$ rested prior to inspection $\square$ days □ hours test this year Is measurement tube required? \(\sigma\) Yes \(\sigma\) No Is measurement tube present? Yes No Depth to water \_\_\_\_\_ ft. below LSD. ADDITIONAL REQUIREMENTS: BY GAD 5 Yes D No Make of flow meter Signet Is a flow meter required? Flow meter conversion factor 1000 Size 8" Serial No. 302 3 90 In withcul column pipe of print Distance front and back of meter: ±5' front and ±5' back Flow meter units: Acre-feet Acre-inches Gallons Other Is check valve present? P Yes □ No

- 2 -Page 34 of 96

☐ Yes ☑ No-

RECEIVED JUN 2 9

File No. 2/73/

HAYS000981

Is injection system being operated? 

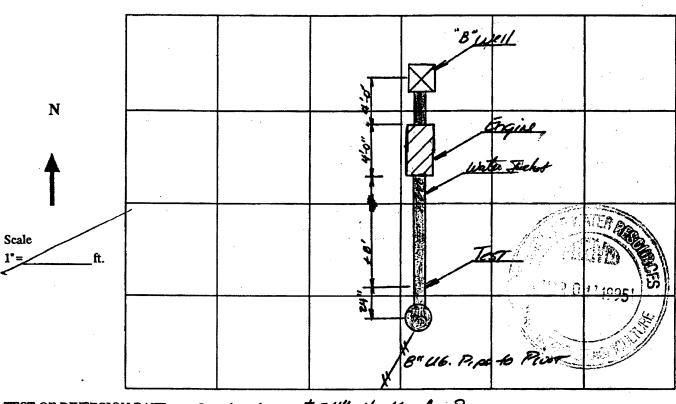
Yes Property No.

Is injection port present?

Is low pressure drain present? Yes No

1

LOCATION OF DIVERSION WORKS,



<del>\</del>				
TEST OF DIVERSION RATE:	Location of test $\not\equiv$ Pipe Diameter (I.D.)	24" North of 8,25" in	Por oches	
R.P.M. PUMP UNIT	itions 1798 cele 470 mes d 30 psi	Test No. 2—Maximu R.P.M. POWER UNI R.P.M. PUMP UNIT Pressure at Pump	T 1922 Calo.	1911 tests
Jacuzzi Meter Test  Area Constant K = 2.45 x I.	Meter Identification ND. $^2 = 166.7531$	Vo. #3 Q (gpm)	= VK	ytelou
4. 3.0 Z 5. 3.0 Z 6. 2.7 2 7. 2.9 2 8. 2.6 Z 9. 26 Z 10. 25 Z Avg. 2.66 2.	5 3 3 2 2 3	1. 2. 3. 4. 5.	Velocity (fps)  2.7  2.7  3.0  2.8  2.8  2.7  2.5  2.7  2.7  2.5  2.7  2.5  2.7  2.5  2.7  2.7	2 4 D G
Propeller Meter Test	Manufacturer Sygv Meter Diameter	Model		62390 KS DEPT OF AGRICULTURE
Ending	gal. Not	ABLE TO USE	Ending	gal.

Page 35 of 96 CIELD OFFICE DIVISION OF WATER RECOURCES STATEOFIG

Beginning Difference

Time

Rate

RECEIV

Use Supplemental Sheet (include meter identification, data and calculations).

gal.

gal.

min.

gpm

File No. 2

HAYS0009872

gal.

gal.

min.

Beginning

Difference

Time

Rate

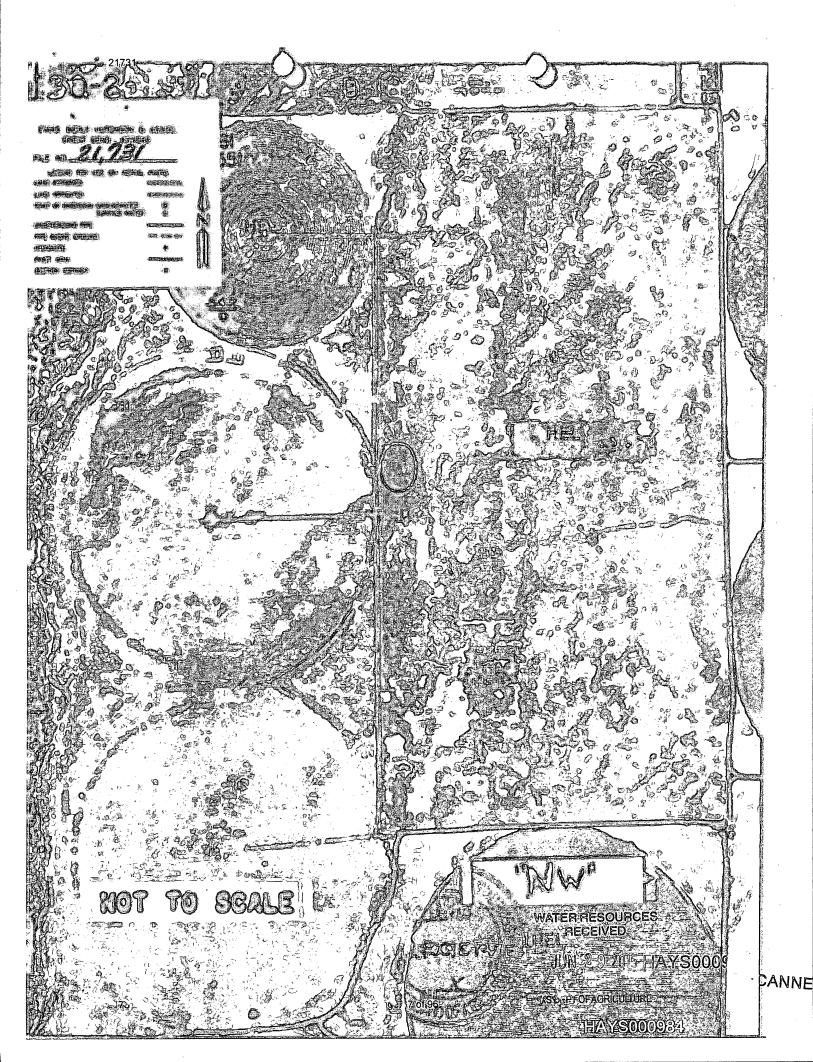
☐ Other Flow Meter

#### TABULATION OF WATER USE DETERMINED AT THE TIME OF THIS REPORT:

Year	Hours Pumped (hr)	Reported Pumping Rate (gpm)	Water Used (AF)	Acres Irrigated
1975	1188	1100		507 total for
76				entre app
77	922	500		639 (total fact
78				
79				
90	1416	650	<u>·</u>	120
81				
82				
83	NOT USED		**	-
84				
8S				
				•
L. Parks Warrack Dane	-1-in (8)	Source of Inform		- P
Indicate Year of Reco	• •			ISE KAPPETS
Crops Irrigated: this y	year Corn		year of recor	d_UnknowN
FUEL RECORDS: (C	omplete only if water use in		•	
☐ Electricity	• ,	Supplier		
☐ Electricity  Meter Manu	ufacturer	Supplier Type	Serial No	
□ Electricity  Meter Manu  K	ufacturer watt/rev r	Supplier Type revolutio	Serial No	seconds
□ Electricity  Meter Manu  K	ufacturer	Supplier Type revolutio	Serial No	seconds
☐ Electricity  Meter Manu  K  Rate = $\frac{Kr}{t}$	ufacturer watt/rev r kw/	Supplier         Type           revolution         Type	Serial No ons t kw/hr =	seconds
☐ Electricity  Meter Manu  K  Rate = Kr x  t	watt/rev rkw/  Type	Supplier         Type           revolution         revolution           /hr         Hours =           Supplier	Serial No ons t kw/hr =	seconds
☐ Electricity  Meter Manu  K  Rate = Kr x  t  ☐ Other Fuels  Rate = Volu	watt/rev rkw/  Typetime	Supplier         revolution           /hr         Hours =           Supplie         kw/hr	Serial No ons t kw/hr = rate er	seconds
☐ Electricity  Meter Manu  K  Rate = Kr x t  ☐ Other Fuels  Rate = Volu  How was the  REMARKS: _ Field  s included in this  Signet brand and h  comparison test  City of Hays, Kanapalified to make t	watt/rev r	Type revolution Type revolution Thr Hours = Supplied  Law/hr  Leve separka are  supplied  List file by Pumping Fine at that time due to lack of increase are the sue to lack of increase are this land is final. He plan on operating as	Serial No ons t  kw/hr =  rate  er  Plant Testing date olack of equipmer ental marks, it is Greg Ebert, said le has an interest in the past for s	seconds  Selection of the seconds  ed 10-14-86 for this well nt. Owner's meter is
☐ Electricity  Meter Manu  K  Rate = Kr x t  ☐ Other Fuels  Rate = Volu  How was the  REMARKS: _ Field  s included in this Signet brand and h comparison test City of Hays, Kana	watt/rev r	Type revolution Type revolution Thr Hours = Supplied  Law/hr  Leve separka are  supplied  List file by Pumping Fine at that time due to lack of increase are the sue to lack of increase are this land is final. He plan on operating as	Serial No ons t kw/hr = rate  er Plant Testing date olack of equipmental marks, it is Greg Ebert, said le has an interest in the past for s	seconds  ded 10-14-86 for this well nt. Owner's meter is not possible to run to change ownership to in this property so is ome time and so the Water
Meter Manu  K  Rate = Kr x t  Cother Fuels  Rate = Volu  How was the sincluded in this signet brand and he comparison test sity of Hays, Kansualified to make the lese Reports shoul  Person present at test	watt/rev r	Type revolution  The Hours = Supplied  Law / hr  La	Serial No ons t  kw/hr = rate  rate  Plant Testing date olack of equipmer ental marks, it is Greg Ebert, said le has an interest in the past for s or that purpose.	seconds  seconds  ded 10-14-86 for this well on this meter is not possible to run to change ownership to in this property so is
Meter Manu  K  Rate = Kr x t  Cother Fuels  Rate = Volu  How was the sincluded in this signet brand and he comparison test sity of Hays, Kansualified to make the lese Reports shoul  Person present at test	watt/rev r	Type revolution Type revolution Thr Hours = Supplied  Law/hr  Leve separka are  supplied  List file by Pumping Fine at that time due to lack of increase are the sue to lack of increase are this land is final. He plan on operating as	Serial No ons t  kw/hr = rate  rate  Plant Testing date olack of equipmer ental marks, it is Greg Ebert, said le has an interest in the past for s or that purpose.	seconds  ded 10-14-86 for this well nt. Owner's meter is not possible to run to change ownership to in this property so is ome time and so the Water
Meter Manu  K  Rate = Kr x  t  Other Fuels  Rate = Volu  How was the sincluded in this signet brand and he comparison test lity of Hays, Kansualified to make the seports shoul person present at test  Water Use Correspon	watt/rev r	Type revolution  The Hours = Supplied  Law / hr  La	Serial No ons t  kw/hr = rate  rate  Plant Testing date olack of equipmer ental marks, it is Greg Ebert, said le has an interest in the past for s or that purpose.	seconds  ded 10-14-86 for this well  at. Owner's meter is  anot possible to run  to change ownership to  in this property so is  ome time and so the Water  Terrent  (relationship)
Meter Manu  K  Rate = Kr x  t  Other Fuels  Rate = Volu  How was the sincluded in this signet brand and he comparison test city of Hays, Kansualified to make the signet brand and he comparison test city of Hays, Kansualified to make the signet brand and he comparison test city of Hays, Kansualified to make the signet brand and he comparison test co	Type  watt/rev  Type  time test volume determined?  inspection form for the file. No test was dornas totalizer only. Do not this meter at this test sas since the sale of that statement. They do be sent to the curred that statement is a sand to the curred	Type revolution  The Hours = Supplied  Law / hr  La	Serial No	seconds  ded 10-14-86 for this well ont. Owner's meter is not possible to run to change ownership to in this property so is ome time and so the Water (relationship)
Meter Manu  K  Rate = Kr x  t  Other Fuels  Rate = Volu  How was the remarks: _ Field and he comparison test comparison test city of Hays, Kansualified to make the remarks shoul reson present at test water Use Correspon  Conducted by	watt/rev r	Type revolution  The Hours = Supplied  Law / hr  La	Serial No	seconds  ded 10-14-86 for this well ont. Owner's meter is not possible to run to change ownership to in this property so is ome time and so the Water (relationship)  (phone number)  Date 2-23-95

KS DEPT OF AGRICULTURE

SCANNED



Date:

Feb. 27, 1995

Project: FIELD INSPECTION REPORTS

File No. 21731

To:

Larry Sheets Water Rights Section Division of Water Resources 901 S Kansas Ave. 2nd Floor Topeka, Kansas 66612-1283

Gentlemen: We are transmitting the following:

**Description:** 

Copies

**Dated** 

Field Inspection Report Field Inspection Report

ID 02 ID 03 2-23-95

2-23-95

#### Remarks:

This property has recently changed hands and these tests were needed to complete some of the water right certification.

Copies to:

City of Hays, Leo Wellbrock

Stafford Field Office

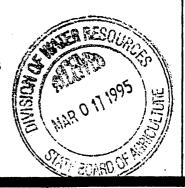
By:

Stuart M. Hutchison, P.E.

WATER RESOURCES RECEIVED

JUN 2 9 2015

KS DEPT OF AGRICULTURE



RECEIVED

STAFFORD

SCANNED

& Associates Consulting<sub>31</sub>Engineers

Evans • Bierly • Hutchison & Associates AND 000985 1105 Williams 3 1 1995 **Great Bend, Kansas** 67530 (316),793-8411

(316) 793-8413 - Fax

MICROFILMED

EXHIB	IT
Ĥ	21 <b>7</b> 31
~ (	

# culture FIELD INSPECTION REPORT

Partial

$\overline{\circ}$																		∐ Pa □ Fu	11	
Test_3	3_ <sub>0</sub>	f	7_D	iversi	on po	ints												☐ Re		
(Circle Applica	3, ation	A W No	والا)	731		_ Da	te 10	1/8	6	Fi In	irm/Fi spect	ield O or <u>Kl</u>	ffice_ <b>935e</b>	Pum n/E	pect	Pla	nt	Testi)	ng Inc.	- - ,
Field A			2	<u>.                                      </u>				G.M	l.D. 1	No		5			c	County	F	dnai	rds	-
Curren	t Lan	idow	ner <u>(</u>	Conv	rect	icrt	Ge	nel	19	<u>Life</u>	Ins	<u>vra</u> nc	e c	0,	%	Agri	A	કકાંતિક	tes	
Address	s Bo	χ	) ( Additio	2 onal lan	downe	rs and	Nort address	h   es iden	Plat t tified i	e, l	ks sect	6910 tion.	3		TIN	_J	C 00	V 18/	FAVER	
Water 1	Use (	Class	ificati	on: 1.	Dom	estic	( )	2. ]	Indus	trial (	)	3. Ir	rigatio	on (X			٠	Son The Son Th	OF WATER A	College
Ground	lwate	r ( X	) Dra	inage	Basin	Ac	Kans	95	Rix	٥ſ			<u> </u>						MAR 1 0 198	7
Surface									. '									嵐	<b>6</b> 15	-/ <u>\$</u>
Authori Approx	ized i	Point	of D	iversi	on:_L ft	well . Nor	الله th and	west	side	<b>,</b> ¢	NE)	/4, 5 _ft. W	w X4 s est o	ec f SE c	T. orner	25 of Se	R	4	OARD OF AGR	
Actual : Approxi	Point imate ere d	of I	Divers 192	ion: _ 5 eterm	ft	Nor	th and	+ 1	1E 14 38	SN 10	11/4 Phot	_ft. V	S Vest o	ec. 3	l, T.	25 r of So	R	19 L Plats		·
																			1.69 c.f.s.	)
Perfecti											•									
Other a							r poin	t of d	iversi	on	Not	ne								_
(include					_					n)										
LAND	101	SE II	NCL	· ·	EW.	CER	IIFIC		N 1/4		l	SW	V 1/4		Γ	SE	1/4		mort I	-
s	T	R	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	TOTAL ACRES	
	-	19	27	34	28	27	36	28	38	39	34	37	23 13	26	40	35	17	34	50 488	<del>-</del> -
32 2	.5	19			-	2	30		1	31			23	-		39		7	49	- - ·
LAND			ED-	YEAI	ROF	BEC	ORIN	19	193	L	L			l,	20	<u>.</u>		L	621	• •
					EV.	TILLO			W <sub>V4</sub>			SV	V1/4		T	Si	E14		TOTAL	•
S	T	R	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	ACRES	
	2.5				9				30	35	40	40	27	36		25	12		254	- •
36   2	25 2	נט				1,5			<u> </u>						10			1.5	267	-
											I.,									•
APPLIC		-							_ ^	0.0		_		201		ء			*	
	Bath	well	199	ومنم	togel	Hours ther	Pumi	ped_ sined	flow	rate)	E,	c E	ntity_	ED	12	9 <i>6-</i> T	<b>L</b>			
Normal		I	ndivi	deal			23	<u> </u>		_ Equ	. Alin	1.s	11 aha	·	`					
Maximu ———	ım U	pera	ing C	. P. M 				FO	R D.	-	use.		11.100							
Year of			19	8	<u>3</u> 1	Extens	sion o	time	requ	Division of the contract of th	ON OF	QNL) VATE TALFO	RICE RD	<u>OU</u> RC	ES				WA	TER RESOURCES RECEIVED
Total No. of Hours on land covered by this application																				
							<u> </u>	<u>人</u> 」	_ g.p.	m. ∙×	24 >	× 1000	<del></del> =	<u>:/5</u>	9_	AF			* *	JUN 2 9 2015
Acres of Ac. Ft.					1	ئــ b: ل(	<u> </u>	<i></i>	(	0.	5	9	A	c. Ft.	/ <b>Ac.</b> ) .		SC	AN	NED K	DEPT OF AGRICULTURE
Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less 125																				
Proratio				<u> </u>	6	7	L.M	٠,	<u>X_</u> (	 ))	<i>r.</i>	1866	a É	ot	90	1800 R	d	44 A	Scoppes.	121/2
Perfecte			5.2	5	-		n. Per		Oue	ntity	/	$2^{L}$	)		F			——————————————————————————————————————	1 000034	<del></del>
DWR-101			Co	mp				- 1	` D.		of 96 /	6-	F. 9.		5 645	Á		R	evised March 1986	

#### GENERAL INFORMATION ON IRRIGATION SYSTEM:

▼ Center Pivot	★ Low Pressure	•
Manufacturer Zimmatic	Model notas Serial No.	
Drive Electric	<i></i>	
Design Pressure-Pivot	p.s.i. Operating Pressure-Pivotp.	s.i.
End Gun? yes End Gun Rating	g.p.m. toro	
Is end gun operating during test? Yes		
Gravity Irrigation (show test set on sketch)		
Number of gates open	Normal Pipe Size	· .
Pressure at pumpp.s.i.	•	•
Other Type	<u></u>	
Manufacturer	ModelSerial No	
Unusual Conditions/Other Info. 7143 57	1 STRING 1975 IS TOWERS AND GIVE	<u>us</u>
267 peres - 2 Times	S THE SIZE OF A NORMAL'	
		<u> </u>
POWER UNIT INFORMATION:	700	
	Model No. <u>300</u> HP	
Serial No. 11907 X-29-TG Fuel N	atura Gas Rated RPM	
PUMP INFORMATION:		
	lo. 10 M A Rated RPM	
Serial No. <i>N 2 W 2 Y 2 3 2 X</i> Type 1	Vertical Turbine No. stages 6	
		·
GEAR HEAD INFORMATION:		
Manufacturer <u>U.S. Motors</u> Model N	· ·	
Serial No. R-9556-00-H-420 Drive Right A	Agle Ratio 6:5	
WELL INFORMATION: NO RECOVOS NUMO	usce on wen.	•
Date DrilledOriginal Depth	ft. Static Water Level When Drilledft.	
Tape Down Possible? No	Water Level Measurement Tube?	WATER RESOURCES
Measuring Pointft. above or below L.S.D.		RECEIVED
ADDITIONAL REQUIREMENTS:		JUN <b>2 9</b> 2015
Mcter Required? Make of Meter		
Meter Model No Serial No	Size	_KS DEPT OF AGRICULTURE
Is Meter Installed Properly?		
Chemical Injection System? Check	Valve? yes Low Pressure Drain? yes	
Vacuum Breaker? Arc these anti-pollution	devices installed properly? yes HAYS000	945
It Atenticals are injected into system, please attach State		

SKETCH OF ACTUAL PLACE OF USE, LOCATION OF DIVERSION WORKS, AND DISTRIBUTION SYSTEM. (Indicate distribution system layout at time of field test).

N ↑	•				•	
Scale	, .		·			:
Scale 1"=	ft.					٠.
				·		 •
						·
	;	·				

#### TEST OF DIVERSION RATE:

*			·	
Length of time well has	been operating pri	or to test D		
Location of test In	horizontal aipe	between riser and	pivot	
Pipe Diameter (I.D.)	7 1/6 inc	hes		
	***	· · · · · · · · · · · · · · · ·	MO ONE PISOT	
	1	y wews floming		
Test No. 1 Normal Co	nditions - BO 11	Tool No. 9 Well	IN THIS PRPLICATION - F	MARING
rest ivo. i—ivorinai Q	muittous	Test No. 2	PIVOT BY ITSELF	
R.P.M. POWER UNIT	2100	R.P.M. POWER UN	VIT _ 2 11 Y	
R.P.M. PUMP UNIT	1750	R.P.M. PUMP UNI		•
Pressure at Pump	<b>86</b> psi		47 psi	4 - 1
rressure at rump	psi	Pressure at Pump	psi	
		•		
[] T: M			•	
☐ Jacuzzi Meter Test		Meter Identification No		
Aven Country V 0 4			0 (- )- 1/2	
Area Constant K = 2.45	) x I'D', =		Q (gpm) = VK	
Velocity (fps)		Valacity (for)	•	
		Velocity (fps)		
1 2		1		
3		2		
4		3		
5		4		
		5		
6		6		
7		7		
8		8		
9		9		
10		10		
Total		Total	•	·
Avg	<del></del>	Avg.	<del></del>	
G.F.M	<del></del>	RCP.M.EIVED	<del></del>	
			SCAN	NED
		3	00/114	1 4 km km²
		Alta a di mag		WATER RECOURCES
Propeller Meter Test	Manufachuna	, ,	Contal No	WATER RESOURCES
Triobener Metel 162	Manufacturer	Model	Serial No	RECEIVED

Other Flow Meter

Meter Diameter\_

Use Supplemental Sheet (include meter identification, data and calculations).

. Duron

\_gal.

gal.

gal.

min.

gpm

RECEIVED

JUN 2 9 2015

KS DEPT OF AGRICULTURE

HAYS000946

Elverence of

Ending\_

Beginning.

Difference.

Time\_

Rate\_

\_ inches

gal.

\_gal.

gal.

\_min.

.gpm

**Ending** 

Time.

Rate\_

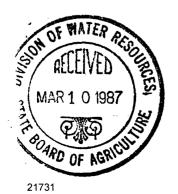
Beginning

Difference.

#### FUEL RECORDS:

	Electricity	Supplier				
	Meter Manufacture	er	Туре	<del>.</del>	Serial No	,
	Kwatt/re	ev r	revolutions	tsec	onds	
	W 2.0					
	Rate = $\frac{\text{Kr} \times 3.6}{\text{t}}$	_ =	kw/hr H	ours = $\frac{k}{\text{rate}}$	<u>w-hr</u> =	
⊠ (	Other Fuels	Type Natyra	l Gas Supr	olier Kansas Nel	braska	
			· · ·	)		
	Rate = Volume (t					e .
			d? Not Determin	ned Because	One Meter Used	For Many Wells
TABULA	TION OF WATER 1	USE: Hours Pumped	Tested Pumping	Water Used	Acres	
	· · · · · · · · · · · · · · · · · · ·	( hr )	Rate (gpm )	( AF )	Irrigated	
	1975					-
	1976		<del></del>	<u> </u>		-
	1977	897	750	-	639	-
	1978		-			<b>-</b>
	1979					<del>.</del>
	1980	1416	400		140	· <del>-</del>
	1981				· · · · · · · · · · · · · · · · · · ·	_
	1982		Not under normal c	onditions, only who	en pumping alone un	der low pressure
X	1983	3200 <sup>‡</sup>	<u>523</u> *	212*	267*	_
	1984	1750 \$	700		267*	_
	1985	1850*	700		267 *	_
	1986		523 <sup>N</sup>			
		Test Data		,		-
			Remorts Sent	By Jerry We	aver of Agri	- Affiliates
			11.1541.02	_KJMMLLJ ** *	, , , , , , , , , , , , , , , , , , ,	
Indianta V	ear of Record with (	*1	C	ion Stafford	Files	-
	gated: this year			Year of record	· _	
					UM BENES	M.E.
					V. pu wé	•
			JUL PLOT	,	-	
STAF					LAND E COTT	WATER RESOURCES
PLOT				175.		
7001	79474 2	AIR IF	or Early	73.	SC	ANNED JUN 2 9 2015
Person pre	esent at test	Kent Naber	,	,	Irrigation Man	498 KS DEPT OF AGRICULTURE
	Correspondent Ly			Spearville,		6) 385-2803
Conducted		Hlasse			-14-86	
Approved	4=1 11	(signature)	P.E.	Date3	/7/87 HA	<del>YS0009</del> 47 
217	(signature)		(title) Page 42 of 96	. —	, ,	

APPLICATION NO: 21731 NAME: Connecticut General Life Ins. COLLINS METER TEST ON WELL SW NE SW 31-25-19, "A" WELL ON CIRCLE 3 Collins Meter No. 1-83 Meter Calibration Factor .9559 Pipe Inside Diameter (inches) 71/6 Flow Rate Factor 143.0 Test RPM, Pump\_\_1765 Test Pressure (psi) 47 Description of Test Location In horizontal pipe between riser and pivat TEST DATA: Q Check, Initial 3.90 Reversed 3,90 Velocity Velocity Right Side of Pipe Meter Setting From Left Side of Pipe or Back Side if Center of Pipe (or Front Side if Vertical Test) Vertical Test) 3.89 4.02 3,84 3,80 3,99 3,77 3.69 Average Velocity of Water = Sum of Vel.  $\div$  12 = 383Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = .9559 = 3,66 Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = x = 143.0 = 523 GPM



PUMPING PLANT TESTING, INC.

JUN 2 9 2015

WATER RESOURCES RECEIVED

SCANNED

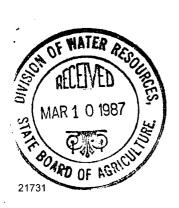
Professional Engineer

KS DEPT OF AGRICULTURE

AUG 3 1 1995

MICROFILMED

APPLICATION NO: 21731 NAME: Connectiont General Life Ins. COLLINS METER TEST Both A and B wells &w NE SW 31-25-19 and NW NE SW 31-25-19) Pumping
Togerther Into Pivot 3 Collins Meter No. 1-84 Meter Calibration Factor . 9635 Pipe Inside Diameter (inches) 71/6 Flow Rate Factor 143.0 Test Pressure (psi) 86 Test RPM, Pump 1750 Description of Test Location In horizontal size between \_\_\_\_risec\_and pivot\_ TEST DATA: Q Check, Initial 7.12 Reversed Velocity Velocity Meter Setting From Left Side of Pipe Right Side of Pipe Center of Pipe (or Front Side if (or Back Side if Vertical Test) Vertical Test) 19/6 6.98 7.09 7.03 7:02 6.80 6.96 6,75 6.73 Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = .9635 = 6.58 Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = SCANN  $\times$  143.0 = 941 GPM



RECEIVED

PUMPING PLANT TESTING, INC. JUN 2 9 2015

Reviewed By: E WI WED

KS DEPT OF AGRICULTURE

WATER RESOURCES

Professional Engineer

HAYS000949

AUG 3 1 1995

Page 44 of 96

SETTING OFFICE

MICROFILMED



# DIVISION OF V. ER RESOURCES—KANSAS STATE BOARD OF A CULTURE STATE BOARD

Œ			
☐ Parti ☑ Full ☐ Re-T			
nt Testing	Inc	-	
Edward.	5	_	
Affiliates			
Jern v	Veq Ver		
R. 19	RECEIVE MAR 1 0 1	D SOLD STATE OF THE PARTY OF TH	
2	OF A	GHI	
R. 19 c. 31 Survey Pl			
g.p.m. ( <u>\$</u>	<b>69</b> _c.f.s.	)	
76		-	
. *			
	,	-	
V4	TOTAL ACRES	-	
SW SE	50	- ,	
17 39	488	-	
7	34 621	<del>-</del> -	
	62!	-	
SW SE	TOTAL ACRES		
12	254	<b>.</b>	
1.5	13	- -	
		-	
VED	· 		
995		CANNED	1E[
SOUR <b>CE</b>	V	VATER RESO RECEIVE	URCES D
		JUN 29	2015
		VC DEDT OF AGRI	CULTURE

Test 4 of 7 Diversion points  B' Well, Circle 3 Firm/Field Office Pymains Plant Testing Inc.
Application No. 21731 Date 10/1/86 Inspector 1955en/ E her T
Field Area No. 2 G.M.D. No. 5 County Edwards
Current Landowner Connecticut General Life Insurance Co. 6 Agri Affiliates
Address Box 1162 North Platte NE 69 103 ATTN. Jerry Weaver  Additional landowners and addresses identified in remarks section.
□ Additional landowners and addresses identified in remarks section.  Water Use Classification: 1. Domestic ( ) 2. Industrial ( ) 3. Irrigation (\(\chi\))  4. Municipal ( ) 5. Recreation ( ) 6. Stockwatering ( ) 7. Water Power ( )  Groundwater (\(\chi\)) Drainage Basin Ackgrass River
Groundwater (X) Drainage Basin Arkansas River
Authorized Point of Diversion:  well NW 4, NE 4, SW 4 Sec. 31, T. 25, R. 19  Actual Point of Diversion:   well NW 4 NE 4 SW 4 Sec. 31, T. 25, R. 19
Actual Point of Diversion: 1 well Nw 4 NE 4 Sw 4 Sec 31, T. 25, R. 19  Approximately 2460 ft. North and 3660 ft. West of SE corner of Sec. 31  How were distances determined? By Scaling off Actival Photo, Scale From Original Survey Plats  "Approved" Quantity 1090 9652 "Approved" Diversion Rate 3900 g.p.m. (\$169 c.f.s.)
Priority Date Jan 2,1974 Approval of Application Date Feb. 27, 1976
Perfection Date Oec 31, 1981
Other applications covering land and/or point of diversion
LAND TO BE INCLUDED ON CERTIFICATE:  NEW SEW TOTAL
S T R NE NW SW SE NE NW SW SE NE NW SW SE NE NW SW SE ACRES
30 25 19 23 27 34 38 27 36 28 38 39 34 57 13 6 40 35 17 39 488
32 25 19 1 25 23 49
36   25   20
NE'4 NW'4 SW'4 SE'4 TOTAL
S T R NE NW SW SE
31 25 19 9 9 30 35 40 40 27 36 25 12 25 H
36 23 20 13 267
APPLICATION OF WATER: Year of Record 1983 Hours Pumped 2200 or Quantity 381.2
combined Flowrate of both wells 2
Normal Operating G.P.M. 444 Equiv. c.f.s.2.1
Maximum Operating G.P.M. 732 Equiv. c.f.s. 1.6 RECEIVED
Year of Record 1933 Extension of time requested: Yes No AUG 3 1 1995 SCANNED
Total No. of Hours on land covered by this application 2 200 DIVISION OF WATER RESOURCES  Ac. Et. Applied = 2200 Drs × 549 gr m × 4.419 = 2 STAFFORD  WATER RESOURCES
RECEIVED
Acres of "Approved" Land irrigated 2// Ac. Ft. on "Approved" Land 177 (0,84 Ac. Ft./Ac.)  JUN 29 2015
Ac. Pt. on Approved Land ( ) Ac. Pt./Ac.)
Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less / / KS DEPT OF AGRICULTURE
Proration Calculations 267 acres x 0,79 percent of approved acres 1773//acres HAYS000950  Perfected Rate 735 g.p.m. Perfected Quantity 177 AF MICROFILMED
Perfected Rate 7.3.5 g.p.m. Perfected Quantity // AF  DWR-10121731 CO by 10 1 to 1 by Down 25 of 965. Bus 1 Revised March 1986
DWR-101 21731 Completed by Do Rogh Assor 90 E. Bush Revised March 1986

#### GENERAL INFORMATION ON IRRIGATION SYSTEM:

☑ Center Pivot ☐ High Pressure	Low Pressure	
Manufacturer Zimmatic	Model No tag Serial No.	
Drive Flectsic	Length of Pivot Arm 15 Towars	
	p.s.i. Operating Pressure-Pivotp.s	s.i.
End Gun? yes End Gun Rating	g.р.m. Того	
Is end gun operating during test?		
Gravity Irrigation (show test set on sketch)		
Number of gates open	Normal Pipe Size	
Pressure at pumpp.s.i.		
Other Type	· · · · · · · · · · · · · · · · · · ·	
Manufacturer	ModelSerial No	
Unusual Conditions/Other Info. 7/15 /5	my px capy, ormy Longe PIVO	1
SYSTRA - BEOUT TWICK	THE PLACES OF A NORMA	
PIVOT SYSTEM AT 267 mm	E9.	
•		
POWER UNIT INFORMATION:		
Manufacturer Ford		_
Serial No. 08949 L 23 TL Fuel A	Jatura Ga's Rated RPM	
PUMP INFORMATION:	en e	
Manufacturer Jacuzzi Model No.	N 8C/T-703 Rated RPM	<u>.</u>
Serial No. 467 22145 Type Ve	ertical Turbine No. stages	<del>_</del> .
GEAR HEAD INFORMATION:		
Manufacturer Amacillo Model No.	S 100	
Serial No. 88239 Drive Right Av		
		_
WELL INFORMATION: NO WELL MECHAS	NMLIBUE.	
Date DrilledOriginal Depth	•	SCANNED
Tape Down Possible? yes 20 Wa	· ·	
Measuring Point ft. above or below L.S.D.	ater Level Measurement Tuber	WATER RESOURCE
		RECEIVED
ADDITIONAL REQUIREMENTS:		JUN <b>2 9</b> 2015
Meter Required? <u>no</u> Make of Meter		KS DEPT OF AGRICULTURE
Meter Model No Serial No		_no der i ofkokiooli ukt
Is Meter Installed Properly?		
Chemical Injection System? Check Vo		<del>9</del> 51
Vacuum Breaker? Are these anti-pollution d	•	
Page 46 o	I Pountage	

SKETCH OF ACTUAL PLACE OF USE, LOCATION OF DIVERSION WORKS, AND DISTRIBUTION SYSTEM. (Indicate distribution system layout at time of field test).

		•					
					Τ		7
							1
:							
, W.							_
N							
<b>↑</b>							
	1				ŀ		
•							
Scale					1		
1"=ft.			-				
	]						
				1			
						l.	
		•			·		
							1
•	1						
				·			
				Ì			
							_
TEST OF DIVERSIO	ON RATE:						
Townsk of the	.11.1.1.1						
Length of time t	well has been open In herizon I.D.) 8 %	ating prior to te	est	chara head		er tank.	
Pipe Diameter (	I.D.) 8 %1	inches	EUGEEN 2015	Erain E Neman	pita		
				164. 14	THIS REPORT	TAVMAGA	•
	th wens p	ampine ins-		_		, ,	
	rmal Conditions		Test No. 2	Maximum Co	nditions— BY 17544	<b>4</b> .	
R.P.M. POWER	UNIT	5		WER UNIT		•	
R.P.M. PUMP I	UNIT17 <i>5</i>	<u> </u>		MP UNIT _			
Pressure at Pum	p <b>86</b>			Pump			
☐ Jacuzzi Meter Test		14-1-	74	lo			•
Jacuzzi Meter Test		Meter	identification is				•
Area Constant K	$= 2.45 \times I.D.^{2}$	=		Q	(gpm) = VK		4
					,		
Velocity (fps)			Velocity (fp	s)			•
1 2	<del></del>		1		-		
3.			2				
4							
5					-		
6			6	<del></del>			
7					-		
8 9			8 9				
10.		•	RECE	11/ = 50 1	Ţ		
Total			Total	VED	·		•
Avg			Avg	<u> </u>			SCANNED
G.P.M	<del></del> '	•	G.P.MAUG 3	<del>1 1</del> 99 <del>5</del>			SCAMILE
			FIELD OF	FICE			•
•			IVISION OF WATE	R RESOURCES		14	ATER RESOURCES
] Propeller Meter T	est Manufac	turer			Serial No	)	RECEIVED
				•		•	112021122
Meter Diameter.	inches						JUN 2 9 2015
Ending	oal	Ending		gal.			JUN & & COID
Beginning	gal.		ζ		•		•
Difference	gal.		e			!	KS DEPT OF AGRICULTURE
Time	min.	Time		min.	"Yelkin arinkin "	era aarn	
Rate	gpm	Rate		gpm	MUKL	)∏EMFD IAYS00095:	2

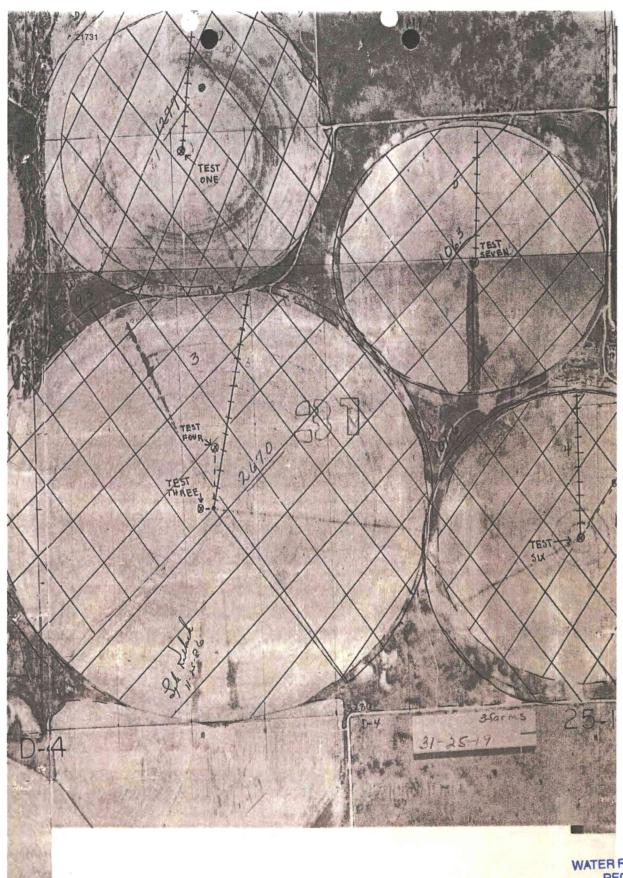
Other Flow Meter

Use Supplemental Sheet (include meter identification, data and calculations).

1	FT	JF.	Y	R	F	r	าต	n	c.
н	rı	J.F.		n		LA	лκ		

☐ Elec	tricity	Supplier				
Me	eter Manufactui	rer	Ту	ре	Serial No	<del></del>
K_	watt/r	ev r	revolutions	ts	econds	
Rai	$te = \frac{Kr \times 3.6}{t}$	_ =	_kw/hr	Hours =	kw-hr =	_
⊠ Othe	r Fuels	Type Natural	•	pplier Kausas ~ No		
Rat	te = Volume (	(test) =				
Но	time w was the test	volume determined	P Not Determ	ined Because O	aly One Moter Used	For Many Wells
ABULATIO	N OF WATER		Tested		•	
	Year	Hours Pumped ( hr )	Pumping Rate ( gpm )	Water Used ( AF )	Acres Irrigated	
	1975	2376	1500		507	
	1977	897	750		639	
	1978	1224	150		127	
	1980	1416	650		127	
	1981	1152	650		127	
	1982		Not under	pressure	ily when brubing by ;	tself
	× 1983	2200	<del>732</del> *	296.5 <sup>*</sup>	267*	
	1984	1750 \$	800°		267	
	1985	1850 *	800°		267 *	ç.·
	1986		732*	,		•
-		Test Data				. •
2 2			ts sent By 3	ierry Weaver o	F Agri Affiliates	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•	1	
			-			
dicate Year o	of Record with (	(*)	Source of Inform	ation Stafford	Files	
rops Irrigated	l: this year	wheat		Year of reco	d prances	·. <del>:</del>
EMARKS:		· ·				SCANNED
						WATER RESOURCE RECEIVED
	·					JUN <b>2 9</b> 2015
· , · · · · · · · · · · · · · · · · · ·						KS DEPT OF AGRICULTUR
arcan prose-t	at toot 11	out Nahar	· · · · · · · · · · · · · · · · · · ·		Trejection Ma	
erson present		ent Naher (name)			Triggtion Man (relationship)  18. KS 67876 /310	N 44 45 45 45 45 45 45 45 45 45 45 45 45
		yle Kolheck		(address)	(phone nu	<u>a) 385 ~ Z</u> 803 nber)
	Daniel	Alassev (signature)	<u>~</u>	Date16	9-14-86	222252
onducted by_	1:171	(signature)		-	HAYS	8000953





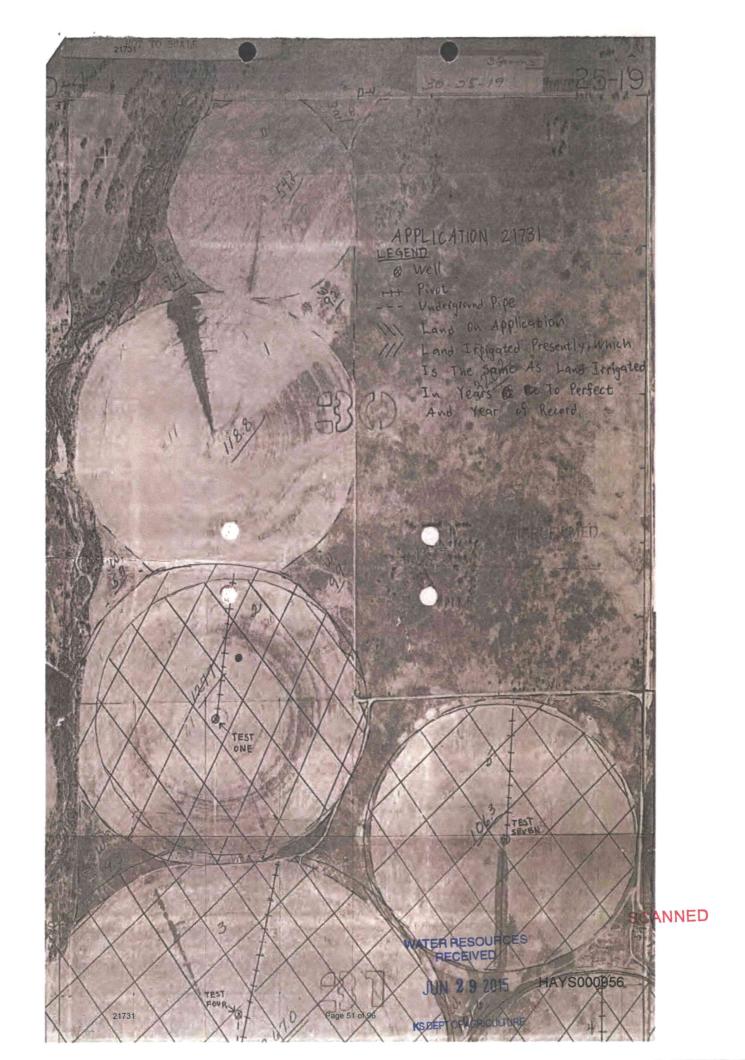
WATER RESOURCES RECEIVED

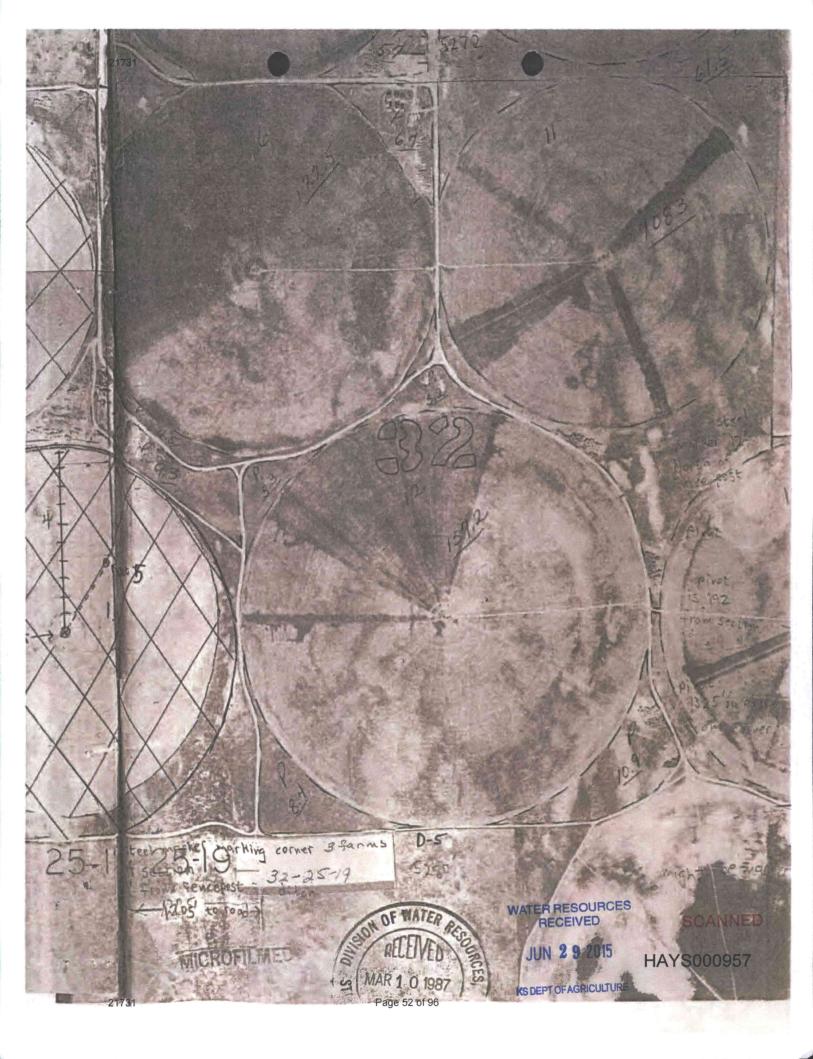
JUN 2 9 2015

SCANNED

KS DEPT OF AGRICULTURE

HAYS000955





VATER RESOURCES
RECEIPED 5-19 HAYS000958 JUN 2 9 2015 Page 53 of 96 KS DEPT OF AGRICULTURE



APPLICATION NO: 2/731 NAME: Connecticut General Life Ins. COLLINS METER TEST Collins Meter No. 1-85 Meter Calibration Factor .9826 Pipe Inside Diameter (inches) 8 1/6 Flow Rate Factor 167.9 Test RPM, Pump\_1759 Test Pressure (psi) 20 Description of Test Location In herizontal pipe between discharge head and pressure tunk Q Check, Initial 4,89 TEST DATA: Reversed **Velocity** Velocity Meter Setting From Left Side of Pipe Right Side of Pipe Center of Pipe (or Front Side if (or Back Side if Vertical Test) Vertical Test) 4.63 4.59 4,71 4.80 4.50 4,35 4.57 4.48 4.10 4.13 4.37 4.05 Average Velocity of Water = Sum of Vel. - 12 = Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = <u> ,9826 = 4.36</u> Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) =



PUMPING PLANT TESTING, INCJUN 2 9 2015

Reviewed By:

KS DEPT OF AGRICULTURE

WATER RESOURCES RECEIVED

HAYS000960

AUG 3 1 1995
Page 55 of 96
FIELD OFFICE

DIVISION OF WATER RESOURCES

MICROFILMED SCANNED

EXHIBIT							
J	2173						
$C_j$							

## DIVISION OF AT RESOURCES—KANSAS STATE BOARD OF CP LITURE FIELD INSPECTION REPORT

☐ Partial
☐ Full

<b>,</b> )					• .													D F		
Test_ ci Appli	5 rele 4 cation	of B_ No.	7_D ,.!! 217	iversi	ion po	oints _ Da	ite <u>1-</u>	28	-87	F	irm/F ispect	ield C	Office_	Prm n/El	ping bert	Ple		□ Re lest	ing Inc.	
																			ds	
Curre	Current Landowner Connecticit General Life Insurance Co. & Agri Affiliates																			
Addre	ess_ <b>8</b>	ex .	11 6	2 mal lan	downe	Not s	th	Plates iden	tifed in	NE 1 remai	6 c	103	<del></del> :	AT	TN	76	rry	W	COVERTER OF	
	Address Box 1162 North Platte, NE 69103 ATTN Jerry Weaver Additional landowners and addresses identified in remarks section.  Water Use Classification: 1. Domestic ( ) 2. Industrial ( ) 3. Irrigation (X) 4. Municipal ( ) 5. Recreation ( ) 6. Stockwatering ( ) 7. Water Power ( )  Groundwater (X) Drainage Basin Arkansas River  Surface Water ( ) Stream																			
Grou	Groundwater (X) Drainage Basin Arkansas River																			
	Surface Water ( ) Stream																			
Autho Appro	Authorized Point of Diversion: 1 well SE'4, NE'4, SE'4 Sec. 31, T. 25, R. 19 OF AGRICULTURE OF A																			
Actua Appro How	l Poir oximat were	nt of I tely distar	Divers 1 <b>91</b> 0 nces d	ion: _ ] eterm	ft ft ined?	ell Nort	SES Scal	4 N 1	65 055 A	S E esial	Phot	ft. \ -o_, 5	s West of	ec. 3 of SE Erov	L, T. corner	r of Se	R3 ec3 Syr	q 11 vey P	lats	
"Appr	oved'	' Qua	ntity	!	090	96	-ft		"Ap	prove	d" Di	iversio	on Rat	e3	900		_g.p.:	m. (	8,69_c.f.s.)	
Priori	ty Da	te	[qn	2,	197	4		_ Ap	proval	of Ap	plica	tion E	Date_	Feb	2	7 . 19	76			
Perfe	ction !	Date_	De	<u>ა. 3</u>	11,10	181	<u> </u>							÷						
(inclu	Perfection Date																			
LANI	710	BE 1	NCLU		EV4	CER	TIFIC		N 1/4		1	S۱	W 1/4		Γ	SE	:14		TOTAL	
s	Т	R	NE	NW	sw	SE	NE	NW	sw	SE	NE.	NW	sw	SE	NE	NW	sw	SE	TOTAL ACRES	
30	25 25	19	27	34	38	27	36	28	38	રવ	34	37	13	26	40	35	17	34	50 488	,
32	25	19			<b>V</b> B	2	0.0		1				23		20			7	34	
LANI	) IRR		ED-	YEA	R OF		ORD_	198	5	l		L	<del></del>			نـــــا		L1	621	
s	т	R	<u> </u>	NE					Nº/A			S	W¼		Ī	SI	E14		TOTAL	
			NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	ACRES	
31 32	25 25	19				2.5			.5		,	23	16.3		39_	6.5	3.4	30.8	822 398	
																			122	
APPL Year of Comb Norma	of Rec ined al Ope	ord_ Flow eratin	199 rate, k	oth M.	vells ato p	pump	Pumi	R E		<b>ց Ե</b> թգա	i995	f.s <b>0</b>			<u>}:</u>					
Maxin	num (	Opera	ting C			244	יו <u>ס</u> ד	nstoa	FIELL DE W	ATCO			<u>,54</u>	<u> </u>						
Year o			19	78		Extens				ested:	Yes .		No <u></u>		•••					RESOURCES
Total 1															1		-		11 11	v <b>2 9</b> 2015
Ac. F	. App	olied	= <del>4</del> -	200	hrs.	. ×	13	5	_ g.p.	m. ×	24	× 100	00 =	5.4	<u> </u>	AF			JUI	V 2 3 2013
Acres						sd 5_k	/ <u>/</u>		  (_		),4	6	A	c. Ft.	/Ac.)				KS DEF	TOFAGRICULTURE
	Ac. Ft. on "Approved" Land																			
Prorat					Λ.	7A.		,		_		2/1.	F. C	We	<u> 11                                  </u>	<u> </u>	; <u>; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; </u>	777 2010)	( A . L	
	Perfected Rate 2/5 g.p.m. Perfected Quantity 56 AF  SCANNED  Swarifil Completed by 1998 58 et 1865 E. Bush  Revised March 1986																			
DWR-10				Cur	npi	Tet.	d	Бу	P9	96 26 G	of \$65.	s E	3-1	Bus 6-	h 95	_		R	evised March 1986	

#### GENERAL INFORMATION ON IRRIGATION SYSTEM:

Center Pivot High Pressure	☑ Low Pressure	
Manufacturer Zimmatic	Model 3/0 Serial No. 2999	
Drive Electric	Length of Pivot Arm	
Design Pressure-Pivot	p.s.i. Operating Pressure-Pivot	_p.s.i.
End Gun? yes End Gun Rating	g.p.m. Toro	
Is end gun operating during test? Yes		
☐ Gravity Irrigation (show test set on sketch)		
Number of gates open	Normal Pipe Size	
Pressure at pumpp.s.i.		
Other Type		•
Manufacturer		·
Unusual Conditions/Other Info.		
		·
·		•
POWER UNIT INFORMATION:	·	
	Model No. 300 HP	
Serial No. 08946 <i>E-23-TL</i> Fuel 1	Vatural Gas Rated RPM	<del></del>
	•	
PUMP INFORMATION:		
Manufacturer. TOHVSTON Model N	oRated RPM	
Serial No. CF 2/237 Type V		
CEAR HEAD INFORMATION:		• .
Manufacturer Amphilus Model No	o. 5-80	
Serial No. 87932 Drive Right		
WELL INFORMATION: NO WELL LECTIONS	MMUNBLE	
Date DrilledOriginal Depth_38		
	•	
Tape Down Possible? YAS  Measuring Point 3.5 ft. above or below L.S.D.	ATU LEUKL - 19	WATER RESOURCES
	7,	RECEIVED
ADDITIONAL REQUIREMENTS:		JUN <b>2 9</b> 2015
Meter Required? Nake of Meter Make of Meter	•	KS DEPT OF AGRICULTURE
Meter Model No Serial No		Vanit LOLVOIGOR CLE
Is Meter Installed Properly?		<b>ES</b>
Chemical Injection System? Yes Check	,.	<del>09</del> 62
Vacuum Breaker? YES Are these anti-pollution 21731 Page 57	of 96	CANNED
If chemicals are injected into system, please attach sketc	h of system.	SCANNED

		fr eng	, .	
N				
N ↑				
cale '=ft.				
;				

Length of time well ha	s been operating	prior to test	O days		_	
Location of test	from disch	arge head	under driveshe	<del>մե)</del>	<u>.</u>	
Pipe Diameter (I.D.)_	874	inches		-		
ر راسمه ده	wend bow	PAD	11841	147415	KROWT	PIMPED ALONE
7567 14	1					•
Test No. 1—Normal	ionditions		Test No. 2—Maximum	Conditions		
Tocatival in R.P.M. POWER UNI	5 3// 0	2146	R.P.M. POWER UNI	T ULOO		
R.P.M. PUMP UNIT		ን <b>ያ</b> ዩ	R.P.M. PUMP UNIT			,
Pressure at Pump			Pressure at Pump	7.8	nei	
riessure at rump	p	si	rressure at rump		bar	
] Jacuzzi Meter Test		Meter Id	entification No			
Area Constant K = 2.	4E v 1 D 2			Q (gpm) =	- ÜV	
Area Constant K = 2.	15 X 1.D. =	i <del>v</del>		Q (gpin) -	- VK	•
Velocity (fps)			Velocity (fps)			
1			1			
2			2			
3			3			
4			4			
5			5			
6			6			
7			7			
8			8			
9			9	<del></del> ,i		
10			RECEIVE	<del>D</del> ~ :		
Total		Tot	al	ì		WATER RESOURCES
Avg		Avg	ß	•		
G.P.M	•	G.1	P.M. AUG 3 1 1995			RECEIVED
			FIELD OFFICE			JUN <b>2 9</b> 2015
•			DIVISION OF WILLIAM LESON	RCES		3014 2 0 2013
			STAFFORD			
] Propeller Meter Test	Manufacturer_		Model		Serial No.	KS DEPT OF AGRICULTURE
Meter Diameter	inches					
Ending	gal.	Ending	gal.			
Beginning		Beginning	gal.			•
Difference			gal.			A SOLEMENT
Time Rate	min.		min.		BMC	ROFILMED
Rate	gpm	Rate	gpm			AYS000963

21731						•
UEL REC	ORDS:					
☐ Ele	etricity	Supplier				•
N	leter Manufacturer		Туре	2	Serial No	the control of the co
K	watt/rev	r	revolutions	ts	econds	
	V. ~ 2.6					
R	$ate = \frac{Kr \times 3.0}{t}$		_kw/hr H	ours =rate	kw-hr =	_
⊠ Oth	er Fuels	Type Natural	C293 Supp	olier Kansas - N	ebraska	
_	Volume /to					
	ate = Volume (te:					Community of
	low was the test vo ON OF WATER U		1? Not Determin	eo Because o	hly one meter used	tor many well
	Year	Hours Pumped	Tested Pumping Rate	Water Used	Acres Irrigated	
		( hr )	( gpm )	( AF )	_	
_		1296	900		507	
	1976	F				
-		590	1000		639	
	1978					
	1979	1224	400			
_	1980	1416	400		121	
_	1981	1152	This wells co	mtribution to	121	
	1982	<u> </u>	total flow under	er normal condi		
		‡2200	<del>56 *</del>	22.7	122‡	
_		<sup>‡</sup> 1850	450°		_/2/ <sup>±</sup>	A Committee of the Comm
	1985	<sup>‡</sup> 1850	450 <sup>‡</sup>		121 <sup>‡</sup>	
	1986					
·	* From_	Test Data				
	\$ From W	later Use Re	ports Sent By	Jerry Wear	er of Agri Affilia	tes
dicate Year	of Record with (*)		Source of Informati	on Stafford	F;les	
rops Irrigate	ed: this yearS	oybeans				
EMARKS:_		•		\$ -5		
						WATER RESOURCE
						RECEIVED
						JUN 2 9 2015
			· · · · · · · · · · · · · · · · · · ·			VO DERTOE A CRICAL WAY
erson preser	it at test Ken	t Nahor			Irrigation Manage	KS DEPT OF AGRICULTUR
	prrespondent Lyl	(name)		Spearyi'	Irrigation Manag (relationship)  No. KS 67876 (318	385-2803
	Daniel	(name)	2.4 /	(address)	(phone num	Der)
inducted by	wanuel/	Klasse	w	Date	6T-0/	

(title) Page 59 of 96

Approved by

SCANNED

#### MEMORANDUM

To: Files

From: They Heat

Re: Appropriation of Water

File No.

Date: 3-3087

The Field Inspection Report for the above referenced file, conducted under contract by <u>Personal Plantage</u>, has been reviewed. It meets the requirements specified in the Scope of Work. The certificate of appropriation has not been drafted for the following reason(s):

6 of I well tested

don't of the sire work was meant the comment of the sire work was made of the service of the comment of the com le variable de la should explaine 90 confinctes should explain 21.90

> WATER RESOURCES RECEIVED

SCANNED

JUN 2 9 2015

KS DEPT OF AGRICULTURE

RECEIVED

AUG 3 1 1995

HAYS000965

APPLICATION NO. 21731
APPLICATION NO: 21731 NAME: Connecticut General Life Ivs. Co.
CIRCLE 4 - SE'A, NE'14, SE'14
COLLINS METER TEST ON B well pumping alone. Check valve at other well leaking, allows
COLLINS METER TEST ON B well pumping alone. Check valve at other well leaking, allowing some nater to run back into other well, resulting in low pressure Collins Meter No. 1-83 Meter Calibration Factor 9635
Pipe Inside Diameter (inches) 814 Flow Rate Factor 165.3
Test Pressure (psi) 7.9 Test RPM, Pump 1120
Description of Test Location in herizontal pipe 6' from
TEST DATA: Q_ Check, Initial 1.70 Reversed 1.74
Velocity Velocity  Meter Setting From Left Side of Pipe Right Side of Pipe
Center of Pipe (or Front Side if (or Back Side if
Vertical Test) Vertical Test)
. 11/
11/16 1.65 1.60 1.68
2 15/16 1.60 1.50 1.58 1.55
3 3/4 1.40 1.35 1.40 1.50
Average Velocity of Water = Sum of Vel. $\div$ 12 = $153$
Corrected Ave. Vel. = (Ave. Vel.) $\times$ (Calibration Factor) = $\frac{1.53}{48} \times \frac{1.48}{1.48} \times \frac$
Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = 1.48 x 165.3 = 244 GPM

OF WATER RESOURCES

MAR 1 0 1987

STATE BOARD OF ACRUST

21731

SCANNED

PUMPING PLANT TESTING, INC.

JUN 2 9 2015

WATER RESOURCES RECEIVED

Reviewed By:

R Epageddignji Engineer

KS DEPT OF AGRICULTURE

HAYS000966

Page 61 6196 3 1 1995

MICROFILME

APPLICATION NO: 21731 NAME: CONNECTICUT GENERAL Life INS. CO.
CIRCLE 4 - BOTH WELLS TOGETHER
LINS METER TEST of combined Flourate, both wells pumping together into pivot
Collins Meter No. 1-83 Meter Calibration Factor 9635
Pipe Inside Diameter (inches) 73/4 Flow Rate Factor 145.4
Test Pressure (psi) 50 Test RPM, Pump 1786 1734
Description of Test Location in vertical pipe inside pivot stand
ST DATA: Q Check, Initial 2.70 Reversed 2.6%
Consert Interest Trees and
Velocity Velocity  Meter Setting From Left Side of Pipe Right Side of Pipe
Velocity Velocity  Meter Setting From Left Side of Pipe Right Side of Pipe  Center of Pipe (or Front Side if (or Back Side if
Velocity Velocity  Meter Setting From Left Side of Pipe Right Side of Pipe  Center of Pipe (or Front Side if (or Back Side if
Velocity Velocity  Meter Setting From Left Side of Pipe Right Side of Pipe Center of Pipe (or Front Side if (or Back Side if Vertical Test) Vertical Test)
Velocity Velocity  Meter Setting From Left Side of Pipe Right Side of Pipe  Center of Pipe (or Front Side if (or Back Side if
Velocity  Meter Setting From Left Side of Pipe Center of Pipe (or Front Side if Vertical Test)  Velocity  Velocity  Velocity  Right Side of Pipe  (or Back Side if Vertical Test)  Vertical Test)
Meter Setting From Left Side of Pipe Right Side of Pipe Center of Pipe (or Front Side if Vertical Test)  Netter Setting From Left Side of Pipe (or Back Side if Vertical Test)  Netter Setting From Left Side of Pipe (or Back Side if Vertical Test)  Netter Setting From Left Side of Pipe (or Back Side if Vertical Test)  Netter Setting From Left Side of Pipe (or Back Side if Vertical Test)  Netter Setting From Left Side of Pipe (or Back Side if Vertical Test)  Netter Setting From Left Side of Pipe (or Back Side if Vertical Test)  Netter Setting From Left Side of Pipe (or Back Side if Vertical Test)  Netter Setting From Left Side of Pipe (or Back Side if Vertical Test)  Netter Setting From Left Side of Pipe (or Back Side if Vertical Test)
Velocity

SCANNED

PUMPING PLANT TESTING, INC.

JUN 2 9 2015

WATER RESOURCES RECEIVED

Reviewed By: W. W. S. C. Professional Engineer

Page 62 of 96

RIVIATION OF VETUS PRODUCTORS

KS DEPT OF AGRICULTURE



# DIVISION OF 'ER RESOURCES—KANSAS STATE BOARD OF ICULTURE FIELD INSPECTION REPORT

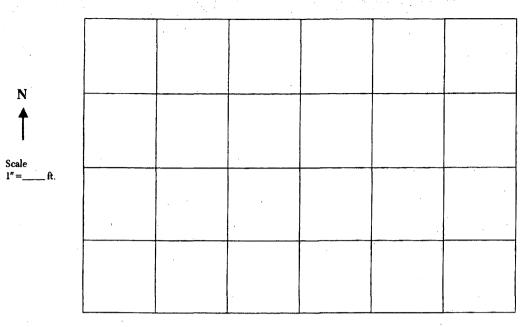
Partial

•								• •										IX F	ull e-Test	
Test	6	of_	<u>7</u> r	Diversi	ion po	oints	•						.m	n		<b>Ω</b> 1.		_		
Appl	icatio	n No.	217	31		_ Da	te_ <u>1</u> -	28-	87	Ir	irm/f ispect	or <b>K</b> k	)111ce_ <b>955EV</b>	/Eb	ert	T 19 H		estu	ng Inc.	<del>-</del>
Field	Area	No		2				G.M	. <b>D</b> . 1	No		5			c	County	, E	lua	rds	_
Curr	ent L	andov	vner <u>C</u>	enn	<u>ectic</u>	vt_	Ges	netal	L	ife_	Insu	Kanc	æ	Co.	%	Ag	ri	Aff;	liates	
										NE in rema								V11v	Weaver	
Wate	r Use	Class	sificati	ion: 1.	Dom	estic	( )	2. 1	Indus	trial ( kwate	)	3. I	rrigati	on (X	)	·( )		13	ON OF WATER ON OF WATER	RESOL
Grou	ndwa	ter ( )	() Dra	inage	Basin	Acl	Kavs	95	Riv	er						-	1		MAD 4 O 40	
Surfa	ce W	ater (	) Stı	ream_										<del>.</del>				割	MAN 1 0 19	87   <del>-</del>   &
Auth Appr	orizeo oxima	l Poin itely_	t of D	Diversi	ion: ft	we . Nor	\\ th and	_5E	1/4,	NE	1/4,	<i>SEV</i> _ft. V	Vest o	Sec_3	'_, Υ. corner	2 5 of Se	, R	40	MAR 1 0 19	CULUR
Actua Appr	al Poi oxima	nt of l	Divers	sion: _ b 0	l ft	. Nort	ll th and	SE 14	385	ye M terial	5	E 1/4 _ft. '	s West	Sec_3	L, T.	25 r of S	, R	19		
"Арр	roved	" Qua	ntity_	_10	90	a v- f	t		"A <sub>]</sub>	pprove	d" Di	iversi	on Ra	te	390	0	_g.p.	m. (_	<b>8.69</b> c.f.s	.)
Prior	ity Da	ate_]	an.	2,1	974			App	orova	l of Ap	plicat	ion E	Date_	Feb	. 2	7,19	776			_
Perfe	ction	Date_	Dec	. 31,	198	<u> </u>	·								:					
								t of di narks		on on) _	^	lone	-							_
LAN	D TO	BE I	NCLU			CERT	TIFIC				II				г				11	<u> </u>
s	Т	R	NE	NW	SW	SE	NE	NW NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	TOTAL ACRES	
	25 25		27	34	38	27	36	28	24	39	34	37	13	6	40	35	17	39	50 488	<del>-</del> 
32	25	19		3.7	0.6		20	20	1	07	37		23	Ů		37		31	49	<del>-</del> -
36 LANII		20	ED.	VEA	L	<b>7</b>	OBD			<u> </u>	1	l	L	<b>_</b>	20			/	621	_
LAINI	זאו כ	IGAI	ED-	NE		REC	OKD_	198					W¼			Si	E14			
S	Т	R	NE	NW	sw	SE	NE	NW	SW.	SE	NE	NW	sw	SE	NE	NW	sw	SE	TOTAL ACRES	
31	-					2.5						2 2	1. 3		39	6.5	34	30,8	82,2	- -
<u> </u>	25	19							د،			23	16,3						172	<b>-</b>
			L	L	<u> </u>		L	LI					L	L1						-
Year o	of Rec	ION ord	198	3	I			ped	220	0	0	r Qua	ntity_	1013	3.: <u> </u>					
vombi Norm	n <b>ed</b> al Op	Flowre eratin	g G.P	oth w '.M.i	ells p	umpiw pivet	1	353	3	_ Equ	iv. c.f	f.s	.79							•
ا الله Maxin	well num	ρνω Opera	ping ting C	alone S.P.M	ર ·	379	}			_ Equ	iv. c.f	ſ.s	. 84			R	EC	EI	VED	
Year (	of Rec	ord_	19	93		Extens	sion o			W.R.			Y No_4	<u></u>		. —	aug	3 1	1995	•
Γotal	No. a	f Hou	rs on	land o	covere	ed by	this a	pplicat	tion _	22	.00	<u></u>			n	nvisio	213 30 M	io 57	FIGE CHAPEN	VATER RESOURCES
	Total No. of Hours on land covered by this application $\frac{200}{24 \times 1000}$ DIVISION OF PRINCES WATER RESOURCES RECEIVED  A.E. Ft. Applied = $\frac{2200}{100}$ hrs. $\times \frac{215}{1000}$ g.p.m. $\times \frac{4.419}{24 \times 1000}$ = $\frac{9}{1000}$ AF																			
		pprov						2_				. 100								JUN <b>2 9</b> 2015
Ac. F	t. on	"Appr	oved"	Land			8	7	(.	0	7		A	c. Ft.	Ac.)		SC	ΑN	NED	KS DEPT OF AGRICULTURE
Ac. F	t. Use	ed on	"Appr	oved"	Land	at "A	pprov	ved" R	late o	r Less	·	18	1		-		\$276	free.	ngg gamen at interner	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Prorat	ion C	alcula			87	A. 1	F.Cu	vell	<u> 4</u>	) + 4	56	A, T	, ( h	00/	(B)	):	14	37	0770MED <b>4780009</b> 0	<b>3</b> 8
	eted F 21731		3 8		pl=	g.p.m +ec	n. Perl	fected b	Quai Y P - 4 .	ntity_ Page 63	₩ <sup>9</sup> €,	9/0	7 <u>.</u> .s	E.	. <b>F</b> 2	345	h	F	tevised March 1986	
								-	•	-										

#### GENERAL INFORMATION ON IRRIGATION SYSTEM:

Center Pivot High Pressure	<b>∑</b> Low Pressure	
Manufacturer Zimmatic	Model 310 Serial No. 2999	-
Drive Electric		
	_p.s.i. Operating Pressure-Pivotp.s	5. <b>i.</b>
End Gun? Yes End Gun Rating	g.p.m. Toro	
Is end gun operating during test? Yes		
Gravity Irrigation (show test set on sketch)		
Number of gates open	Normal Pipe Size	
Pressure at pumpp.s.i.	Normal Lipe of the Control of the Co	
Other Type		
	-	
Unusual Conditions/Other Info.	ModelSerial No	
		<del></del>
		<del></del>
		<del></del>
POWER UNIT INFORMATION:		
Manufacturer <u>Ford</u>	Model No. 300 HP	
Serial No. <u>08941                                    </u>		
A 001	The state of the s	<del></del>
Manufacturer FAR BINKS - MUKS & Model No.  Serial No N2X2804996 X Type Ve  CEAR HEAD INFORMATION:  Manufacturer RANDLER Model No.  Serial No 2183 Drive Right A	rtical Turbine No. stages	<u>.</u> ,
VELL INFORMATION:		
Date Drilled Original Depth 38	ft, Static Water Level When Drilled 10 ft.	
Tape Down Possible? NO - CANT EXTRACT PL	UG ater Level Measurement Tube?	<del></del>
Measuring Pointft, above or below L.S.D.		
ADDITIONAL REQUIREMENTS:	•	WATER RESOURCE RECEIVED
Meter Required? <u>AD</u> Make of Meter	SCANNED	
Meter Model No Serial No		JUN <b>2 9</b> 2015
Is Meter Installed Properly?		KS DEPT OF AGRICULTURE
Chemical Injection System? YES Check V		_
Vacuum Breaker? Are these anti-pollution of	HAYS000	969
If ohemicals are injected into system please attach Rigards		

SKETCH OF ACTUAL PLACE OF USE, LOCATION OF DIVERSION WORKS, AND DISTRIBUTION SYSTEM. (Indicate distribution system layout at time of field test).



#### TEST OF DIVERSION RATE:

Length of time well has been operating Location of test 10' downstream.  Pipe Diameter (I.D.) 73/4	from discharge head (w	nder engine)	
aren in 1 Hes mar	NT TESTED	I THIS ARPORT PUMPING AND	J.F
Test No. 1—Normal Conditions August WY & OTHER WELL	Test No. 2—Maxin	·	·· <b>·</b>
R.P.M. POWER UNIT 214C	2468 R.P.M. POWER I		
☐ Jacuzzi Meter Test	Meter Identification No	·	•
Area Constant $K = 2.45 \times I.D.^2 = $		Q (gpm) = VK	
Velocity (fps)	Velocity (fps)		
1	1		
2	2		
3	3		
4	4		
5	5		
6	<u>6</u>		
7	7		
8	8		
9	9	·	•
10	10		
Total	Total		
Avg	Avg		
C.P.M.	G.P.M	RECEIVED	WATER RESOURCES RECEIVED
. '			
Propeller Meter Test Manufacture	rModel_	/s@ia(No. 1995	JUN <b>2 9</b> 2015
Meter Diameterinches		DIVISION OF WATER RESOLUTIONS OF WATER SESON	KS DEPT OF AGRICULTURE
Endinggal.	Endinggal.	Exarrond MEADLE 11	
Beginninggal. Differencegal.	Beginninggal.		
	Differencegal.	SCANNED	
Timemin.	Timemin.	初Chorn Mi	TEN
Rategpm	Rategpm	HAYS00	0970
☑ Other Flow Meter Use Suppleme	ental Sheet (include meter identifica		<b>7010</b>

FUE	T. R	FCC	ìR	DS:

☐ Electricity	Supplier			-	
Meter Manufact	urer	Ту	pe	Serial No	· ·
Kwat	t/rev r	revolutions	ts	econds	
n Krya	6			lay be	
$Rate = \frac{Rt \times 3}{t}$	.6 =	_kw/hr	Hours =rate		<del>-</del> :
Other Fuels	Type Natural	G95 Su	pplier Kansas -	Nebraska_	
n Volume	e (test)				
time	е		.4 Vanue 0	ly one Meter Used For	Manu Maile
TABULATION OF WATE			nery because on	ly one interes voco for	THANK WEILD
Year	Hours Pumped	Tested Pumping Rate	Water Used	Acres Irrigated	<b>.</b>
<u> 197<i>5</i> </u>	( hr )	( gpm ) 900	(AF)	507	
1976	590	1000		639	•
1978	,				•
				,	
1980	1416	450		130	
1981					
1982		This wells controlly total. flow un	ntlibution to	ditions	
* 1983		297*	120.3 *	122 *	
1984	1850*	400		12) #	·
1985	1850 <sup>‡</sup>	400		121 *	
1986					
	n Test Data				
		ports Sent B	Jerry Weaver	of Agri Affiliates	
Indicate Year of Record with	(*)	Source of Informa	ation Stafford F	iles	·
Crops Irrigated: this year _			Year of reco	AT LA CA	
REMARKS:					
					WATER RESOURCES
					JUN <b>2 9</b> 2015
		M. A			
Person present at testK	lent Naber			Irrigation Ma	KS DEPT OF AGRICULTURE
Water Use Correspondent	(name)		Snean/il	(relationship) le KS 67876 (316)	
Conducted by Wani	(name)	en	(address) Date	2-4-87	
Approved by Kill & W	el Hlasse (signature)	٤,	Date	3/6/87 HAYS	SCANNEL SCANNEL
(signature)	,	(title) Page 66 of 9		1-1-1	

APPLICATION NO: 2173 NAME: Connecticut General Life Ins. COLLINS METER TEST on A well under normal conditions before flow is combined with B well (Both wells operating and propping into pirot) Collins Meter No. 1-45 Meter Calibration Factor 19826 Pipe Inside Diameter (inches) 73/4 Flow Rate Factor 145/4 Test Pressure (psi) 52Test RPM, Pump\_1764 Description of Test Location in horizontal pipe in from <u>discharge head under pivot</u> Ų, TEST DATA: Q Check, Initial 240 Reversed Velocity Velocity Meter Setting From Right Side of Pipe Left Side of Pipe Center of Pipe (or Front Side if (or Back Side if Vertical Test) **Vertical Test)** 2,15 2.15 2,30 2,02 1.80 Average Velocity of Water = Sum of Vel.  $\div$  12 = 2.09Corrected Ave. Vel. = (Ave. Vel.) x (Calibration Factor) = 19826 SCANNED Flow Rate = (Corrected Ave. Vel.) x (Flow Rate Factor) = x 145,4 \_\_\_ = <u>296.6</u> GPM WATER RESOURCES RECEIVED



PUMPING PLANT TESTING, INC. JUN 2 9 2015

Reviewed RBE:C ENVE DV

KS DEPT OF AGRICULTURE

Professional Engineer AUG 3 1 1995

HAYS000972

FIELD OFFICE
DIVISION OF WATER RESOURCES
STAFFORD

MICROFILMED

APPLICATION NO: _Z	) NAME	: CONTECTION	<u>ueneral</u>	Lite Ins,	
COLLINS METER TEST A we Collins Meter No  Pipe Inside Diameter  Test Pressure (psi)	1-85 M r (inches) _	eter Calib <u>7<sup>3</sup>/4                                    </u>	ration Fac w Rate Fac	tor <u>.9826</u> tor <u>145.4</u>	water in low in low pressur
Description of Test	Location_[/	_giter_disc	haige hego	IN ASTRICAT	
TEST DATA: (L Check, I Meter Setting From Center of Pipe	Veloci Left Side	ty of Pipe Side if	Velo Right Sid (or Back	city e of Pipe	
19/16	2.75	2,80	2.95	2,82	÷
	2,48				
3 %16	2,35	•			÷
Average Velocity of	Water = Sum	of Vel	<u>-</u> 12 = <u>2.</u>	b525	•
Corrected Ave. Vel.	= (Ave. Vel 2,6525	.) x (Cali _ x9	bration Fa 826 =	1ctor) =	
Flow Rate = (Correc	ted Ave. Vel	.) x (Flow	Rate Fact	or) = 7 <u>8                                    </u>	

21731

WATER RESOURCES RECEIVED

PUMPING PLANT TESTING, INC. JUN 2 9 2015

Reviewed BYEC WILL Professional Engineer

KS DEPT OF AGRICULTURE

AUG 3 1 1995

Page 68 61960 OFFICE DIVISION OF WATER RESOURCES STAFFORD

SCANNED

APPLICATION NO: 2173	T NAME: CONNIC	<u>ticut General Lif</u>	<u>e Ins.</u> co.
COLLINS METER TEST OF COM	bined Flowrate, both w	cells pumping toge	ather !
Collins Meter No			
Pipe Inside Diameter	(inches) 7 <sup>3</sup> /4	Flow Rate Facto	r <u>145.4</u>
Test Pressure (psi)		ااصب∡	Rupl
Description of Test	Location <u>la Vectio</u>	<u>al pipe inside</u>	<u>pivot sta</u> nd
· · · · · · · · · · · · · · · · · · ·			
TEST DATA: Q_ Check, In  Meter Setting From  Center of Pipe	Velocity Left Side of Pipe	Veloci Right Side (or Back S	ty of Pipe ide if
19/16	2.63 2.64	2.69	2.68
<b>%</b> /	2,48 2,55		
3 %16	2.37 2.09	2.42	2,45
Average Velocity of	Water = Sum of Vel	. ÷ 12 = <u>257</u>	) 
Corrected Ave. Vel.	_		or) = 1,429
		low Rate Factor 5.4 = 353	GPMSCANNED
OF WATER RESOLUTION			WATER RESOURCES RECEIVED

MAR 1 0 1987

WATER RESOURCES

MAR 1 0 1987

WAR 1 O 1987

WAR 1 O 1987

PUMPING PLANT TESTING, INC. JUN 2 9 2015

SENTE BEST E THE DIN

KS DEPT OF AGRICULTURE

Professional Engineer

HAYS000974

AUG 3 1 1995

### EXHIBIT L

### DIVISION OF TER RESOURCES—KANSAS STATE BOARD OF TICULTURE FIELD INSPECTION REPORT

☐ Partial

 Full
 Re-Test

Test 7 of 7 Diversion points  Circle 5  Application No. 21731 Date 10/1/86 Inspector Klassen/Ebert  Firm/Field Office Pumping Plant Testing, Inc.  Inspector Klassen/Ebert  Field Area No. 2 County Edwards				
Field Area No. 2 County Edwards County				
Current Landowner Connecticut General Life Ins. 70 Agri. Affiliates				
111 0 - 1//2 at 24 01 44 10 10 10 10 10 10 10 10 10 10 10 10 10				
Water Use Classification: 1. Domestic () 2. Industrial () 3. Irrigation () 4. Municipal () 5. Recreation () 6. Stockwatering () 7. Water Power ()  Groundwater (*) Drainage Basin Arkansas River				
Groundwater (X) Drainage Basin Arkansas River (MAR 1 0 1987)				
Surface Water ( ) Stream				
Authorized Point of Diversion: NC NE 1/4  Approximately ft. North and ft. West of SE corner of Sec.				
Actual Point of Diversion: 1 well NO NE 74 Sec. 31, T. 25, R. 19.  Approximately 3975 It. North and 1270 It. West of SE corner of Sec. 31  How were distances determined? By Scaling 0ff Aemil Photo, Scale From Survey Plats				
"Approved" Quantity 1090 AF "Approved" Diversion Rate 3900 g.p.m. (8,69 c.f.s.)				
Priority Date Jan. 2, 1974 Approval of Application Date Feb. 27, 1976				
Perfection Date Dec. 31, 1981				
Other applications covering land and/or point of diversion				
LAND TO BE INCLUDED ON CERTIFICATE:    NEW   NWW   SEW   TOTAL				
S T R NE NW SW SE NE NW SW SE NE NE NE NW SW SE NE				
30 25 19 30 38 27 36 28 38 39 34 37 13 6 40 35 17 39 488				
32 25 19 1 1 25 23 1 49 36 25 19 7 1 25 23 20 7 34				
LAND IRRIGATED—YEAR OF RECORD 1983				
S T R NE¼ NW¼ SW¼ SE¼ TOTAL				
NE NW SW SE NE NW SW SE NE NW SW SE NE NW SW SE ACRES				
31 25 19 28 275 235 27 /06				
APPLICATION OF WATER: Year of Record 1983 Hours Pumped 2200 or Quantity 244 AF				
Normal Operating G. P.M. 603 Equiv. c.f.s. 1.34				
Maximum Operating G.P.MEquiv. c.f.s				
FOR D.W.R. USE ONLY  Year of Becomb 1993 Extension of time requested, Yes. No. V.				
Total No. of Hours on land covered by this application 22/0 WATER RESOURCES				
Ac. Ft. Applied = $\frac{2200}{\text{hrs.}} \times \frac{603}{\text{g.p.m.}} \times \frac{4.419}{24 \times 1000} = \frac{245}{\text{AF}} \text{ AUG } 3.1 1995$				
Acres of "Approved" Land irrigated 108 PIVISION OF WATER RESOURCES				
Ac. Ft. on "Approved" Land 245 (2,27 Ac. Ft./Ac.) STAFFORD  KS DEPT OF AGRICULTURE				
Ac. Ft. Used on "Approved" Land at "Approved" Rate or Less 245				
Proration Calculations 100 gares x 1,5 1.t. per acre HAYS000975				
Perfected Rate 605 g.p.m. Perfected Quantity / b 2 AF				

#### GENERAL INFORMATION ON IRRIGATION SYSTEM:

	■ Low Pressure	
Manufacturer_Olson	Model 103 PL Serial No. 3984	
Drive Electric	Length of Pivot Arm	
Design Pressure-Pivot	p.s.i. Operating Pressure-Pivot	_p.s.i.
End Gun? yes End Gun Rating	toro g.p.m.	
Is end gun operating during test?		
Cravity Irrigation (show test set on sketch)		
Number of gates open	Normal Pipe Size	
Pressure at pumpp.s.i.	Normal Tipe Officer	
Other Type		
· <del>·</del>		
Unusual Conditions/Other Info.	Model Serial No.	
SHOW SHOW AND		<del></del>
1.	entral property of the second	
POWER UNIT INFORMATION:		. *
Manufacturer Ford	Model No. 300 HP	
Serial No. 34843 F-13-HK Fuel		-
Puel	Tialeu III W	•
PUMP INFORMATION:	•	
Manufacturer Johnston Model N	n. Inn	
Serial No. CF21231 Type V	Vertical Turbine No. stages	· ·
	•	
GEAR HEAD INFORMATION:		
Manufacturer Amarillo Model No	oS/00	
Serial No. 75505 Drive Right	Angle Ratio 615	
WELL INFORMATION: NO WELL KELVES PO	voussie (Briow DATA Rum WAT	rions)
Date DrilledOriginal Depth_53	ft. Static Water Level When Drilled 10 ft.	
Tape Down Possible? yes 14'	Water Level Measurement Tube?	SCANNED
Measuring Pointft. above or below L.S.D.		WATER RESOURCES
ADDITIONAL REQUIREMENTS:		RECEIVED
Meter Required? Make of Meter		JUN 2 9 2015
Meter Model No Serial No	· ·	·
Is Meter Installed Properly?		KS DEPT OF AGRICULTURE
Chemical Injection System? Check		,es
Vacuum Breaker? <u>y e 5</u> Are these anti-pollution	devices installed properly? Ves HAYSOC	00976
Michemicals are injected into system, please attacheskete		
nease attaches the sys on, please attaches attaches	0. 0,0001111	

SKETCH OF ACTUAL PLACE OF USE, LOCATION OF DIVERSION WORKS, AND DISTRIBUTION SYSTEM. (Indicate distribution system layout at time of field test).

	 **		,	
		·		
	·	·		·
N ↑			Ì	
   Scale   1" = ft.	·			
1″= ft.				
		!		
	. :			

## TEST OF DIVERSION RATE:

Test No. 1—Normal Condition	ons Test No. 2—Maximum Conditions	
R.P.M. POWER UNIT	R.P.M. POWER UNIT	
R.P.M. PUMP UNIT	766 R.P.M. PUMP UNIT	
Pressure at Pump	psi Pressure at Pump	psi
☐ Jacuzzi Meter Test	Meter Identification No	
Area Constant $K = 2.45 \times I$	$D^2 = Q (gpm) = V$	K .
	£ lor	
Velocity (fps)	Velocity (fps)	
1		
1	Velocity (fps)	
* 1* '	Velocity (fps)	
1	Velocity (fps) 1 2	
1	Velocity (fps) 1 2 3	
1	Velocity (fps) 1 2 3 4	
1	Velocity (fps) 1 2 3 4 5	÷
1	Velocity (fps)  1	

SCANNED	

Propeller Meter Test	Manufacture	·	Model	RECEI VED	WATER RESOURCES RECEIVED
Meter Diameter	inches	;			JUN 2 9 2015
Ending Beginning Difference Time	gal. gal. gal. min.	Ending Beginning Difference Time	gal. gal. gal. min.	PIELD OFFICE DIVISION OF WATER RECORDS STAFFORD	KS DEPT OF AGRICULTURE
Rate	gpm	Rate	gpm	HAYS000	977

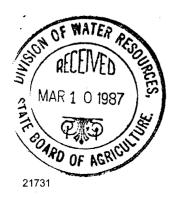
Use Supplemental Sheet (include meter identification, data and calculations).

FIIFT	. RE	COR	DS.

☐ Electricity	Supplier				
Meter Manufac	turer	Тур	oe	Serial No	
Kwa	tt/rev r	revolutions	ts	econds	
$Rate = \frac{Kr \times 3}{t}$	3.6 =	_kw/hr I	Hours =	<u>kw-hr</u> =	·
Other Fuels	Type Natura	l Gas Sup	plier Kansas-1	Vebsaska	
Rate = Volum	ne	· .			
		d? Not Determ	ined Because C	Only One Meter For	- Many Wells
TABULATION OF WATE	ER USE:  Hours  Pumped ( hr )	Tested Pumping Rate ( gpm )	Water Used ( AF )	Acres lrrigated	,
1975	1680	900		507	
1976					
	821	1000		630	
1978		40 1000			
1979	/224	550		106	
1980	1416	550	· · · · · · · · · · · · · · · · · · ·	106	
1981	1152	550		106	
1982					
X 1983	22001	603*	244 <sup>4</sup>	106 #	•
1984	1800*	725 *		108 <sup>‡</sup>	
1985	1900 \$	4 mg.		108‡	•
1986		603*	<del> </del>		
	From Test Dat				
			+ R T-AA II	laine of A of A	(Cl) inter
	rom <u>Water U</u> se	e <u>Reports</u> Sea	C BY SELLY W	leaver of Agri, A	771/1445
				1 +-1	
Indicate Year of Record wit		Source of Informati	tion Staff	•	
Crops Irrigated: this year _	Alfalfa		Year of reco	rd A15-15-	
REMARKS:		· · · · · · · · · · · · · · · · · · ·			
	<del></del>		· · · · · · · · · · · · · · · · · · ·	10 (94 (A) )	WATER RESOURCE RECEIVED
		· · · · · · · · · · · · · · · · · · ·	٠ <u>٠</u> ٠٠		
			: !	<u> </u>	JUN <b>2 9</b> 2015
				P	KS DEPT OF AGRICULTUR
	· · · · · · · · · · · · · · · · · · ·			1.9	
Person present at test	Kent Naber			Irrigation Manag	
Water Use Correspondent_	(name)	•	Spearvill (address)	(relationship)  C. KS 67876 (316) 385-	SCANNED SCANNED
Conducted by	reg Ebert (name)		(2ddr&s) Date	10/11/86	Der)
Approved by List, W.	(signature)	Æ,	Date	3/7/87 HAY	S000978 
(signature) 21731		(title) Page 73 of 96		. <b>'</b>	

APPLICATION NO: 2173) NAME: Connecticut General Life Ins.

				and the same time and the same "
COLLINS METER TEST			,	
Collins Meter No	1-84	Meter Calibr	ation Fac	tor .9635
Pipe Inside Diamete	(inches)	73/4 Flow	Rate Fac	tor 145.4
Test Pressure (psi)	88	Test RPM, ណូ	ımp 1766	2
Description of Test	Location pivot	In horizont	al pipe	between
₹.				
TEST DATA: Q_ Check, I	nitial 4	173 Rev	ersed	4.72
Meter Setting From Center of Pipe	(or Front	Side if	Right Sid (or Back Vertic	Side if
1%6	4,55	4,58	4.54	4.5.2
23/4	4,32	4,38	4,17	4.30
3 %6	3,99	4,02	4,16	4.12
Average Velocity of	Water = Su	m of Vel. <del>∴</del>	- 12 =	4,304
Corrected Ave. Vel.	= (Ave. Ve		ration Fa	ctor) =



WATER RESOURCES RECEIVED

PUMPING PLANT TESTING, INC. JUN 2 9 2015

KS DEPT OF AGRICULTURE

Professional Engineer AUG 3 1 1995

HAYS000979

FIELD OFFICE Page 74 of 96 SOURCES : STALFORD

MICROFILMED SCANNED



## KANSAS STATE BOARD OF AGRICULTURE Division of Water Resources

### MEMORANDUM

TO: Files

DATE: March 20, 1995

FROM:

Douglas E. Bush

RE: Appropriation of Water

File No. 21,731

The Certificate of Appropriation is based on field inspections conducted October 1, 1986 and February 23, 1995. The latter field inspection was conducted because one (1) of the seven (7) wells was not operable during the earlier field inspection.

The quantity for the wells located in the Southwest Quarter of the Southeast Quarter of the Southwest Quarter (SW\( \) SE\( \) SW\( \) of Section 30 and in the Northwest Quarter of the Northeast Quarter of the Northwest Quarter (NW& NE% NW%) of Section 31 were limited to 192 acre-feet when the wells are operated together. Both wells are used together to operate 128 acre pivot During the year 1980 the wells when operating together perfected the maximum allowable quantity of 192 acre-feet of water. During the year 1983, the well located in the Northwest Quarter of the Northeast Quarter of the Northwest Quarter (NW% NE% NW%) of Section 31 when operating by itself perfected 192 acre-feet of water. limiting these two (2) wells, no limitation was needed for all seven (7) wells. All rates shown on the Certificate of Appropriation were from individual tested rates. The well located in the Northwest Quarter of the Northeast Quarter of the Northwest Quarter (NW\( \) NE\( \) NW\( \) of Section 31 for many years pumped adequate water to run the pivot system by itself when the well located in the Southwest Quarter of the Southeast Quarter of the Southwest Quarter (SW% SE% SW%) of Section 30 was out of order. The well located in the Southwest Quarter of the Southeast Quarter of the Southwest Quarter (SW\ SE\ SW\) of Section 30 was pumped in 1988 and has been operated since.

Four (4) of the remaining wells are operated such that two (2) wells are paired together to operate two (2) pivots. The quantities were prorated by rate on the hours pumped and the combined rate. The well located in the Northwest Quarter of the Northeast Quarter of the Southwest Quarter (NW1 NE1 SW1) and the well located in the Southwest Quarter of the Northeast Quarter of the Southwest Quarter (SW% NE% SW%) of Section 31 were operated together through a 267 acre However, only 211 acres were approved to be irrigated by the pivot. Therefore, the perfected quantity was prorated to the approved acres irrigated as the maximum allowable for the irrigation of 211 acres at 1.5 acre-feet per acre was not exceeded. The quantity perfected by the two (2) wells located in the Southeast Quarter of the Northeast Quarter (SE% NE% SE%) of Section 31, were calculated using the pumped quantity from each well as the maximum allowable was not exceeded.

> WATER RESOURCES RECEIVED

AUG 3 1 1995

HAYS001024

FIELD OFFICE CIVISION OF WATER RESOURCES

**MEMO** Page 2 File No. 21,731 March 20, 1995

The ownership of the land pertaining to the above referenced file was recently changed. The ownership shown on the FIRs are therefore incorrect.

Water use was reviewed and water use has been shown in the recent past, therefore the water right appears to be active. Bush

Douglas E. Bush

Environmental Scientist

DEB: jt

RECEIVED

SCANNED

WATER RESOURCES RECEIVED

AUG 3 1 1995

HAYS001025

JUN 2 9 2015 Page 76 of 96DIVISION OF WATER RESOURCES STAFFORD

MICROFILMED

**EXHIBIT** N

# ATER USE REPORT AND ASSESSMENT for

MICROFILMED

BIG BEND GROUNDWATER MANAGEMENT DISTRICT NO. 5

Name Paul Mann and First Nationa		tors_	Water Application #	21,731		
Corporation, i Address <u>453 South Webb Road</u>	nc. City	/ <u>_Wic</u> h	Section 31, Townshi	p 25 South, ate Kansas	Range 19 Zip Code	West 67207
		Cownship	North Name Brown	•		
Fill out a separate report for each Identify each by vested right code	ch veste	ed right	and each appropria	tion right o	r permit.	
This report applies to: (X only 1)	A	vested	l right/Appro	priation rig	ht	
Purpose of use: X Irrigation;	Mu	nicipal	.*; Industrial	*;Recr	eational*	ı.
·	Hours P and Ave Pumping	erage		(if	INFORMAT availabl Depth	le) Depth
, Section 1	Hours	GPM	2 Acre-feet (Check Units Used)			of Well
SW & SE & SW & Sec 30 T25 R 19	922	500	85 Auft		RECE	IVEN
M. 4 Ch 4 NE 4 Sec 3   T 25 R 19	821	1000	150 " "	MA	9 9	
NW & NE & NW & Sec 31 T 25 R 19	922	500	85 4 4			PH .70
NU & NE & SW & Sec 31 T 25R 19	897	150	123		STODUFICE	
m. at. w. sise \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	897	750	123	DIVI	/ KEGETY	
Two wells INTHE SET SEC 31 T 25 R 19	590	1800	108	STA	MAR 17	1 1/40 /
TOTAL				(See reverse of how to	e side for	recteet)
If irrigation use, total acres irr	igated	639	Type of fuel for	or pump NA	TURNE	and the second
Crop(s) irrigated under this right		ALFA	LFA			
I hereby affirm that the statement of such water use by me, to the be				ns a full and	true ac	count .
Date 3-R-BEEIVED			(/rux	M	ann	<u>ت</u>
		•	Signature of person	filing this	_	ESOURCES
AUG 2 8 1978			If tenant, who is the	ne owner		EIVED
DIVISION OF WATER RESOURCES STAFFORD	$C_{i}$		Owner's address	•		2 9 2015
www.co.we			_	SCANNE	KS DEPT OF	AGRICULTURE
THIS FORM MUST BE FILLED OUT BY AL total water usage (not per acre) n	eed not	report	Those using less		) acre-foo IAYS000	
Prescribed under the authority of P O Box 123531 St. John, KS 67576.			0. Big Bend Groundwa OM <sup>99</sup> need assistance.	ater Manageme (316) 549		ict No. !

\*ALL MUNICIPAL INDUSTRIAL AND RECREATIONAL USERS MUST FILL OUT THE REVERSE SIDE OF THIS FORM.

### AMERICAN AGRICULTURAL INDUSTRIES, INC.

RURAL ROUTE \*1

P O. BOX 187

KINSLEY, KANSAS 67547



TELEX NUMBER 910-740-6720

TELEPHONES
AREA CODE 316
659-2668
659-2772
659-3711

March 25, 1982

Slentz-McAllaster Inc.

P O Box 38

Lewis, Kansas 67552

Dear Don,

This letter is in reference to our conversation concerning the alfalfa insurance on the alfalfa located at the Lucerne Farms in Kinsley, Kansas.

As of today, we will no longer be responsible for the insurance on the alfalfa that you have paid us for but have not removed from the farm.

Our records show that you have paid us \$ 416,000.00 (this includes the March payment of \$ 52,000.00) for alfalfa. At \$65.00 per ton this figures that you have paid for 6,400 ton of hay. We show that you have removed 2278 bales at 1800 lbs average weight. That is 2050.2 Tons removed. So there is 4,349.80 tons of alfalfa on this farm that you have paid for but you have not removed.

If you have any question on how I have arrived at these figures please contact me.

WATER RESOURCES
RECEIVED

JUN 2 9 2015

KS DEPT OF AGRICULTURE

Best Regards, Panela Neadows

Pamela Meadows

Secretary

\*Note: This figure of 2278 removed doesn't include the 54 bales taken this week.

**EXHIBIT** 

Page 7 6 96

HAYS004448

SCANNED

# LUCERNE FARMS HAY PRODUCTION

McALLASTERS	4/5	TOTAL BALES	3	ANIBYP	RO 1/5
<b>#</b> 0			4	<sup>‡</sup> 0	
lst 1	3	16	-	lst	4
2nd 5		65		2nd	13
3rd 8		104		3rd	21
4th 3		39	-	4th	8
#1			4,	11	
1st 7.	3	91		lst	18
	13	141		2nd	28
	27	159		3rd	32
4th 4		58		4th	12
<b>∦</b> 2			#	2	
1st 5	4	68		lst	14
2nd 10		133		2nd	27
3rd 14		180		3rd	36
4th 48		60		4th	12
<i>#</i> 3			#	3	
lst 15	53	191		lst	38
2nd 16		205		2nd	41
3rd 37		466		3rd	93
4th 12		152		4th	31
<i>‡</i> 4			41	4	
1st 82	•	103	•	lst	21
2nd 85		106		2nd	21
3rd 17		212		3rd	42
4th 32		40		4th	8
5			#	5	
lst 44		55	· ·	lst	11
2nd 15		194		2nd	39
3rd 13		169		3rd	34
4th 38		47		4th	9
<sup>‡</sup> 6			#	6	
lst 41		51		lst	10
2nd 82		103		2nd	21
3rd 16		205		3rd	41
4th 82		102		4th	20
7			#	7	
	1 '	176		lst	35
2nd 17		212		2nd	42
3rd 20		258		3rd	52
4th 96		120		4th	24
18		•	<i>3</i> /	8	
1st 82		103		lst	21
2nd 12		153	WATER RESOURCES	AYS	004449
3rd 17		221	RECEIVED		
4th 99		124	DECEIVED	4th	25
21731		Page 79 of 96	JUN 2 9 2015		00
	•	J- :	JUH & U CUIJ		SCANNE

KS DEPT OF AGRICULTURE

2	17	'3	1

	<b>#</b> 9			<b>#</b> 9		
	lst	119	1/0		•	
			149	lst	30	
	2nd	194	243	2nd	49	
	3rd	167	209	* 3rd	42	
	4th	82	102	4th	20	
	_		102	4611	20	
	#10					
	<b>#10</b>			<i>#</i> 10		
	lst	77	96	lst	19	
	2nd	261	326	2nd	65	
	3rd	201	251			
_	4th	118		3rd	42	
	4611	110	148	4th	30	
	<b></b> -					
	#11			#11		
	lst	116	. 145	·lst	29	
	2nd	208	260	2nd	52	
	3rd	162	202			
				3rd	40	
	4th	42	52	4th	10	
	#12			#12		
	1st	130	162	lst	32	
	2nd	302	377			
				2nd	75	
	3rd	257	321	3rd	64	
	4th	110	137	4th	27	
	<i>‡</i> 13			#13		
	lst	75	94		10	
	2nd	122		lst	19	
			153	2nd	31	
	3rd	121	151	3rd	30	
	4th	13	16	4th	4	
	#16			<b>#16</b>		
		70	0.0		• •	
	lst		88	lst	18	•
	2nd	144	180	2nd	36	
	3rd	86	108	3rd	22	
	4th	15	19	4th	4	
					•	
	<b>#17</b>			117		
		107	101	#17		
	lst	107	134	lst	27	
	2nd	218	273	2nd	55	
	3rd	122	152	3rd	30	
	4th	42	53	4th	11	
	,		<b>55</b>	7011	• •	
	#10			1120		
	<b>#18</b>			#18		
	lst	23	28	lst	6	
	#19			<i>‡</i> 19		
	1st	47	59	1st	12	
	2nd					
		42	53	2nd	11	
	3rd	50	` 63	3rd	13	
`	<i>#</i> 30			<i>#</i> 30		
	lst	126	158	lst	32	
	2nd	157	196	2nd	39	
	3rd	90				
			113	3rd	23	SCAL.
	4th	18	23	4th	5	SCANNED
			WATER RESOURCE	S		
	<i>‡</i> 138		RECEIVED	ິ <sub>#3</sub> ၝAYS	5UU44	<b>5</b> U
	lst	9.8	122	lst	24	
	22731	162	Page 260 26 96 JUN 2 9 2015	2nd	40	
				3rd	24	
	3rd	95	119			
	4+h	52	65 KS DEPT OF AGRICULTURI	4th	13	

21731

#39			#39	
lst	16	20	lst	4
2nd	26	33	2nd	7
3rd	31	39	3rd	8

Total Bales 10776

McAllasters 4/5's 8621 Anibypros 1/5's 2155

\*Note In order to come up to 8.000 Tons it will take 8.889 bales of 1800lbs.

This will leave Anibypro 1887 bales

SCANNED

WATER RESOURCES RECEIVED

HAYS004451

SLENTZ-MCALLAST 2731 ALFALFA REMOVED FROM LUCERNE FARMS -

	INITIALS	DATE	REFERENCE
PREPARED BY			
CHECKED			1
APPROVED			1

DATE	CIRCLE #	CUTTING	AMOUNT OF BALES TAKEN	TONS PER SCALE TICKETS	-
8-30	7	3rd	52	45.58	
	10	3rd	50	43.2	
9-7	7	3rd	108	94.34	<del>_</del>
	12	3rd	104	- 86.92	
9-14-	12	3rd	78	66.05	
;	5	3rd	113	93.85	
	10	3rd	116	92.39	-
	11	2nd	30	18.38	<del></del>
	4	3rd	138	128.08	<u> </u>
	12	3rd	30	26.24	
9-21	30	3rd	69	57.46	
	38	3rd	79	60-97	
10-5	6	4th		21.97	
10-12	8	4th	83	89.20	
10-19	7	4th	52	55.89	
-10 <b>-</b> 26	9	4th	42		
<u>11÷2</u>	10	4th	78	68.8	
	12	4th	56	58.83	
11-9	9	4th	52	48.76	
11-16	2	4th	22	22.82	<del></del>
	9	4t h	3	3.00	. <del></del>
1	8	4th	41	42.36	-
	10	3rd	20	16.47	
	6	4th	26	26.54	· <del>-</del>
11 02	7	4th- `	34	<u>36.74</u> 22.73	-
11-23	2	4th	22	22.73	
	11 38 —	4th 4th	26 52	52.02	
10.7	20	4th	22	21.51	
12-7.	38	4th	4	3.91	
12-21	7	3rd	47	41.31	
	, 		8	7.31	- <u>-</u>
1-4	7		28	20.98	
* *	7	3rd	11	9.14	
·- ·- ·	7	4th	15	12.17	
1-17		4th	60	61.2	
1-19	3	4th	28	26.39	WATER RECOURAGE
	12	4th	56	43.63	WATER RESOURCES RECEIVED
1–29	 12	3rd	28	18.78	TILOLIVES
1-30	12	3rd	2	1.75	JUN <b>2 9</b> 2015
	12	lst	78	70.52	
2-2	5	4th	28	23.51	KS DEPT OF AGRICULTURE
:	12	lst	26	23.17	
2-4	7	lst	7	5.44	)
	7	2nd	<b>[</b>	6.21	SCANNED
2-11	3	2nd 3 <b>rd</b> 1st	8 . <b>7</b> 12	6.21 <b>5.44</b> 10.61	HAYS004452
	7	2nd	14	12.38	11A13004432
2-22	30	2nd	52	44.21	
	21731		Page 82 of 9	6	
	1	Į.			

Page 2 of removals
Slentz-McAllaster Inc.

	INIT ALS	 FUFE ET SE
FFEPAHED BY		
CHECKED		1 1
APPROVED BY		1

STERICZ-RCA	rrascer ruc,				
DATE	CIRCLE #	CUTTING	AMOUNT OF BALES TAKEN	TONS PER SCALE TICKET	
2-24	38.	lst	26	23.75	
· 3-9	7	2nd	30	21.64	
3-10	10	3rd	5	3.95	
	11			23.60	
3-15	7	lst	23	21.21	
	7	2nd	5	4.61	
3-17	8	lst	26	24.58	•
					·
(* This	does not inc	lude hay	Totals: 2278'	2,035.58_	
tak	h this wee	1 3/25/00			
	71_015 Wee	123/82			
	<del> </del>		THE E IS STORMED IN THE STREET, LIVE AN ARRIVE MATERIAL TO A	ACE	
					-
				44 70044 0	_
					-
			-		
		* NEW 1 MANUAL TO AND			
		<del></del>			
w.			_		
	-				+ 20 <sub>0</sub>
-	_				
		_			
					WATER RESOURCES
		-			RECEIVED
					JUN <b>2 9</b> 2015
					KS DEPT OF AGRICULTURE
					HAYS004453

## Kansas State Board of Agriculture Division of Water Resources

### ADMINISTRATIVE POLICY No. 86-8

Subject:

Allowable Rates of Diversion and Maximum Annual Quantities for

Irrigation Use - Permits and Approvals

Reference:

K.S.A. 82a-708a and K.A.R. 5-3-1

Date:

21731

November 5, 1986

History:

Effective November 5, 1986

Approved by:

David L. Pope

Chief Engineer

During the review of an APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE for irrigation purposes the following guidelines shall be considered in determining the maximum reasonable rate of diversion to be allowed under any APPROVAL OF APPLICATION AND PERMIT TO PROCEED:

## Area, Place of use

## Max. Allowable Rate

up to 10 acres	450 g.p.m.	450
10 - 40 acres	(+) 450 g.p.m. (+) 8 g.p.m./acre (+) 7 g.p.m./acre	580 + 8X
40 - 120 acres	(+) 8 g.p.m./acre	_
more than 120 acres	(+) / g.p.m./acre	700+7X

#### **EXAMPLES:**

- 37 acres requested; since this area is less than 40 acres, a rate of up to 900
- B. 83 acres requested;

A further limiting factor of this procedure is the availability of water from the proposed source of supply. In those instances whereby the source of supply is incapable of yielding a reasonably, sustainable (computed) rate, then the sourcey becomes a further limiting factor.

A further limiting factor is well design and equipment, which shall be reasonable to divert the requested rate.

SCANNED

WATER RESOURCES RECEIVED

Administrative Policy No.86-8 Page 2

Further, the rate authorized should not impair senior water rights in the area, including domestic rights.

In reviewing an APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE for irrigation purposes, the following guidelines shall be considered when determining a maximum allowable annual quantity of water request:

In that area of Kansas located between the Kansas/Missouri border and the Range 5 East/Range 6 East line, the maximum allowable quantity shall not exceed an average of 1.00 acre-foot per acre to be irrigated.

In that area of Kansas located between the Range 5 East/Range 6 East Line and the Range 20 West/Range 21 West line, the maximum allowable quantity shall not exceed an average of 1.50 acre-feet per acre irrigated.

In that area of Kansas located between the Range 20 West/Range 21 West line and the Kansas/Colorado border, the maximum allowable quantity shall not exceed an average of 2.00 acre-feet per acre irrigated.

A further limiting factor to maximum allowable quantity is the availability of water from the proposed source of supply. If the source of supply is incapable of yielding a reasonably, sustainable (computed) quantity during the irrigation season in that area of the state, then the source becomes a further limiting factor.

That if an applicant can show that his or her system design is reasonable for the use intended and approval of the proposed rate and/or maximum annual quantity will not impair any senior water right or prejudicially and unreasonably affect the public interest, the Chief Engineer may waive the above guidelines. Documentation shall be placed in the file clearly demonstrating any exceptions to the above policy.

WATER RESOURCES RECEIVED



# KANSAS STATE BOARD OF AGRICULTURE Division of Water Resources

## MEMORANDUM

To: Files

Date: March 17, 1987

From: Douglas E. Bush

Re: Appropriation of Water

File No. 21,729

The Field Inspection Report for the above referenced file, conducted undercontract by Pumping Plant Testing, Inc. has been reviewed. It meets the requirement specified in the scope of work.

The quantity perfected under the above referenced File No. was fully perfected in accordance to the acres irrigated. That is 500 acres irrigated x 1.5 acre-feet per acre = 750 acre-feet or 752 acre-feet because of the rounding of quantity.

The combined tested rates for the two wells located in the Northwest Quarter (NW $_{4}$ ) of Section 29, Township 25 South, Range 19 West, Edwards County, Kansas, did not equal the rate when the wells were tested pumping by themselves and then added together. Pumping Plant Testing was contacted on March 17, 1987. It was learned that because of air being in the system, the rates were lower when tested by themselves. Therefore the rates for the two wells were prorated up to the combined rate as such: 263 gallons per minute + 313 gallons per minute = 576 gallons per minute. 263 gallons per minute divided by 576 gallons per minute  $= 0.46 \times 599$  (combined rate) = 273 gallons per minute [near the center of the Northwest Quarter (NW $_{4}$ )]. 313 gallons per minute divided by 576 gallons per minute  $= 0.54 \times 599$  gallons per minute (combined rate) = 325 gallons per minute [in the Northeast Quarter of the Southwest Quarter of the Northwest Quarter (NE $_{4}$  SW $_{4}$  NW $_{4}$ )].

The quantities for the wells located near the center of the Northwest Quarter (NW $_4$ ) and in the Northeast Quarter of the Southwest Quarter of the Northwest Quarter (NE $_4$  SW $_4$  NW $_4$ ) were prorated by rate so the total quantity did not exceed a reasonable quantity for the land irrigated. The quantities were prorated as such: 263 gallons per minute + 313 gallons per minute = 576 gallons per minute. 263 gallons per minute divided by 576 gallons per minute = 0.46 x 188 acre-feet (maximum allowed for irrigating 125 acres at 1.5 acre-feet per acre) = 86 acre-feet [near the center of the Northwest Quarter (NW $_4$ )], 313 gallons per minute divided by 576 gallons per minute = 0.54 x 188 acre-feet (maximum allowed for irrigating 125 acres at 1.5 acre-feet per acre) = 102 acre-feet [Northeast Quarter of the Southwest Quarter of the Northwest Quarter (NE $_4$  SW $_4$  NW $_4$ )].

The quantities for the wells located near the center of the Southwest Quarter ( $SW_{\overline{a}}$ ) and in the Northeast Quarter of the Southwest Quarter of the Southwest Quarter ( $NE_{\overline{a}}$   $SW_{\overline{a}}$   $SW_{\overline{a}}$ ) were prorated by rate so the total quantity did not exceed a reasonable quantity for the land irrigated. The quantities were prorated as such: 274 gallons per minute + 425 gallons per minute = 699 gallons per minute. 274 gallons per minute divided by 699 gallons per minute = 0.39 x 188 acre-feet (maximum allowed for irrigating 125 acres at 1.5 acre-feet per

WATER RESOURCES
RECEIVED

MICROFILME SCANNED

HAYS000679

Memo page two File No. 21,729 March 17, 1987

gallons per minute divided by 699 gallons per minute =  $0.61 \times 188$  acre-feet (maximum allowed for irrigating 125 acres at 1.5 acre-feet per acre) = 114 acre-feet.

The acres shown to be irrigated by some pivots were over the 125 approved acres. The actual acres irrigated under all pivot irrigation systems is probably close to 125 acres as shown by the ASCS aerial photograph. Therefore, no prorating of quantity was done for irrigating unapproved land.

The WUC shown on the Field Inspection Report was changed to show Agri Affiliates as correspondent. This information was obtained in a March 25, 1987 phone call from Larry Sheets, Division of Water Resources, to Jerry Weaver of Agri Affiliates.

A limitation was needed on the combined rate, for the well located in the Southwest Quarter (SW $_4$ ) of said section and the well located in the Northeast Quarter of the Southwest Quarter of the Southwest Quarter (NE $_4$  SW $_4$  SW $_4$ ) of said section. This limitation limits the combined rate of these two wells to 700 gallons per minute when the wells are run simultaneously.

A limitation was needed on the total rate when all wells are being run simultaneously. The limitation limits the rate to 2,900 gallons per minute, the maximum appproved rate.

Douglas E. Bush
Hydrologist

DEB: it

RECENTED

JUN 19 1987

WATER RESOURCES RECEIVED

MICROFILMED

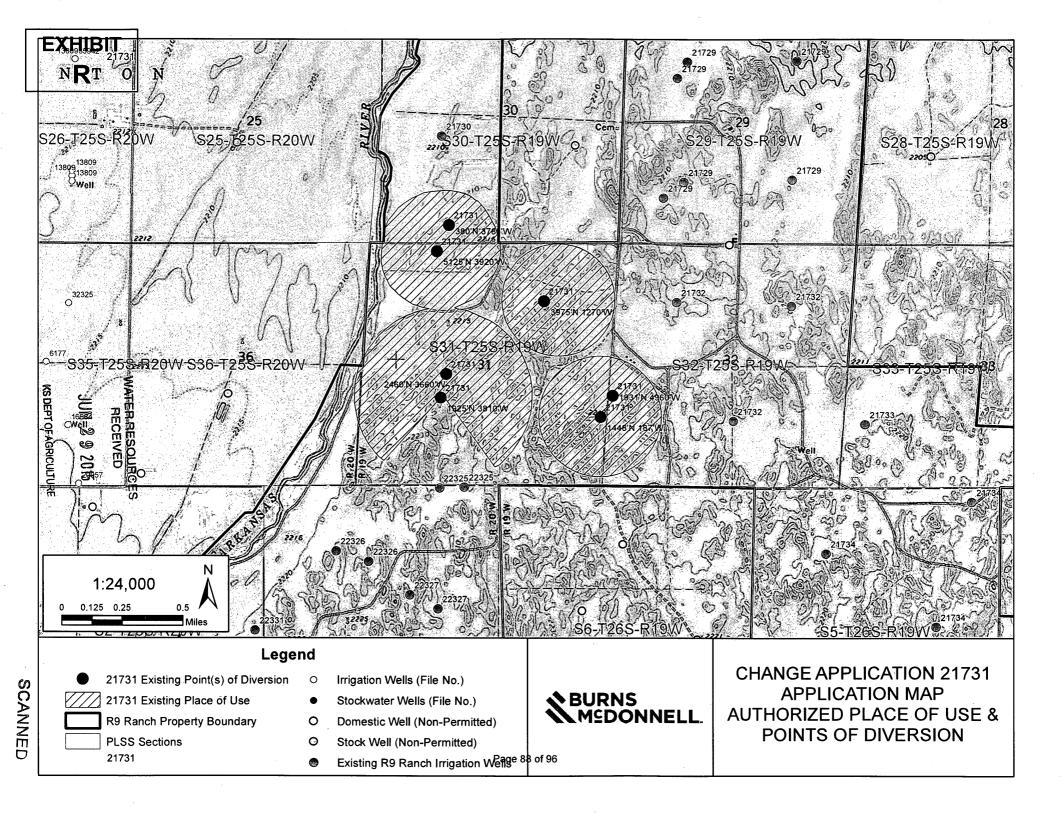
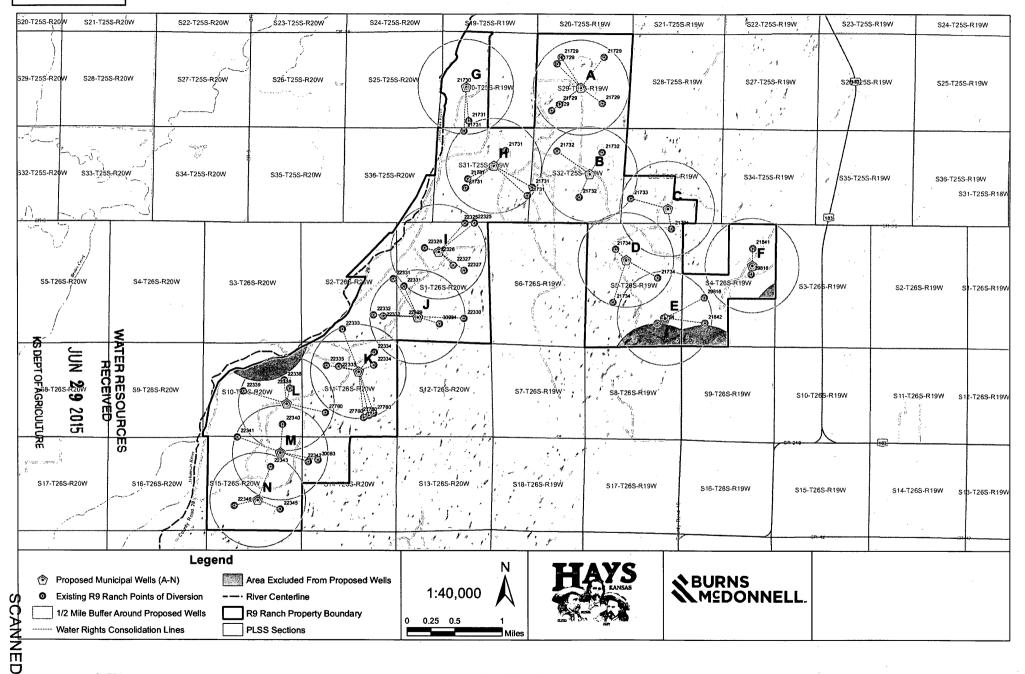
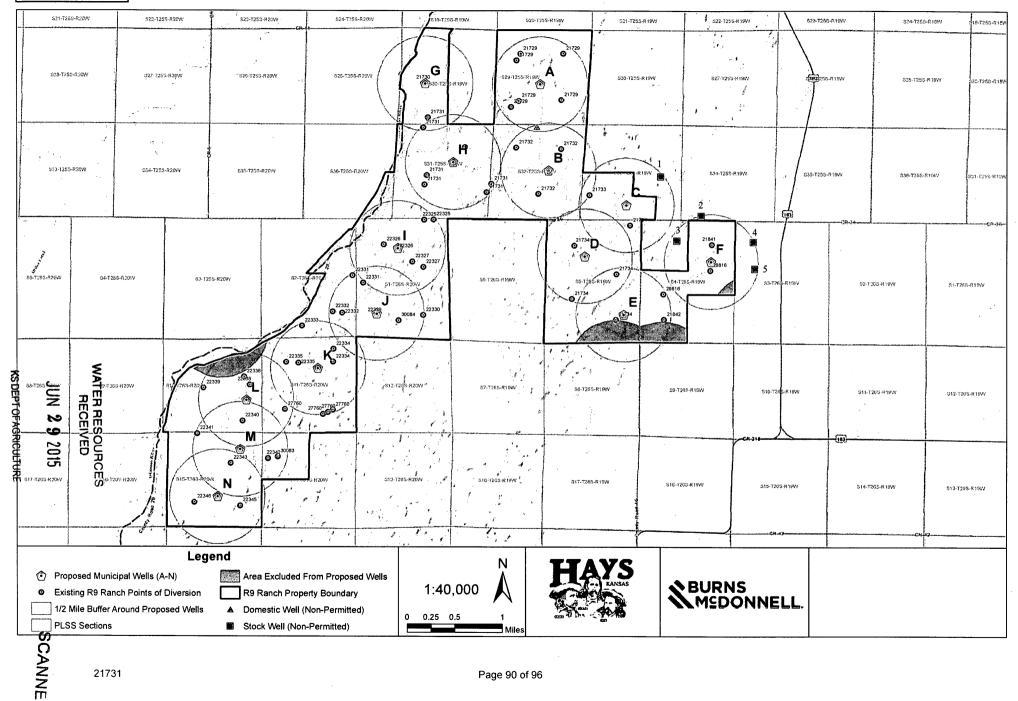
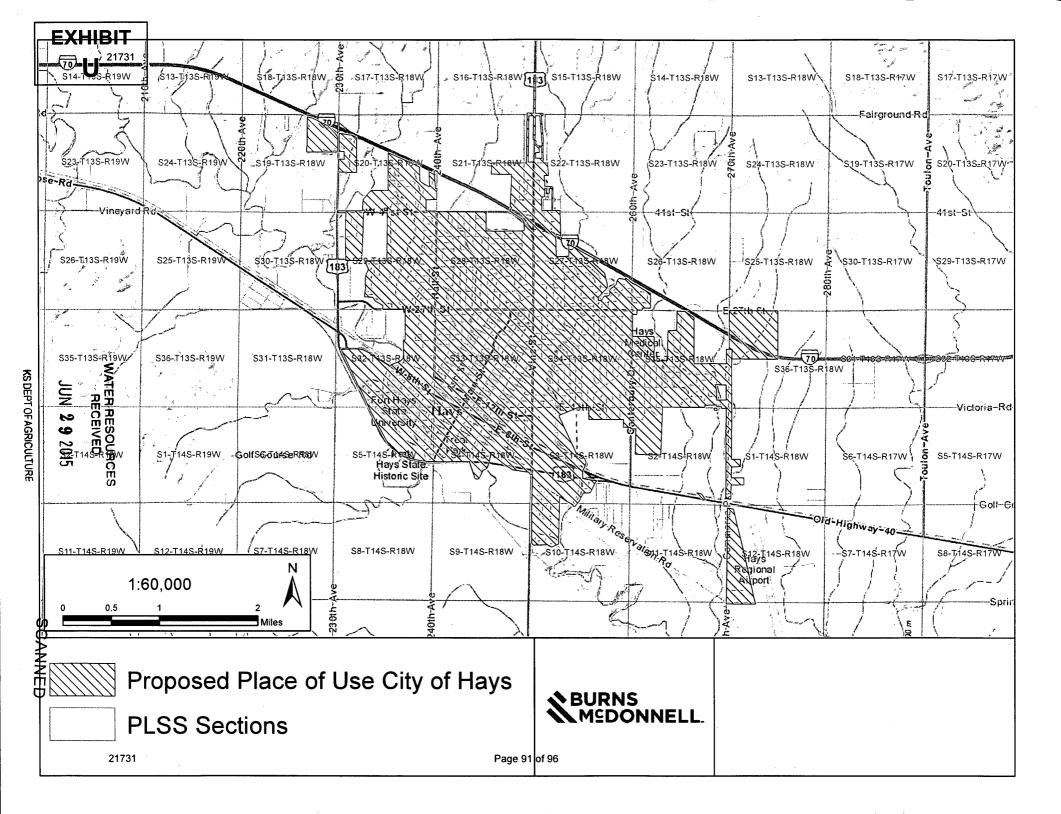
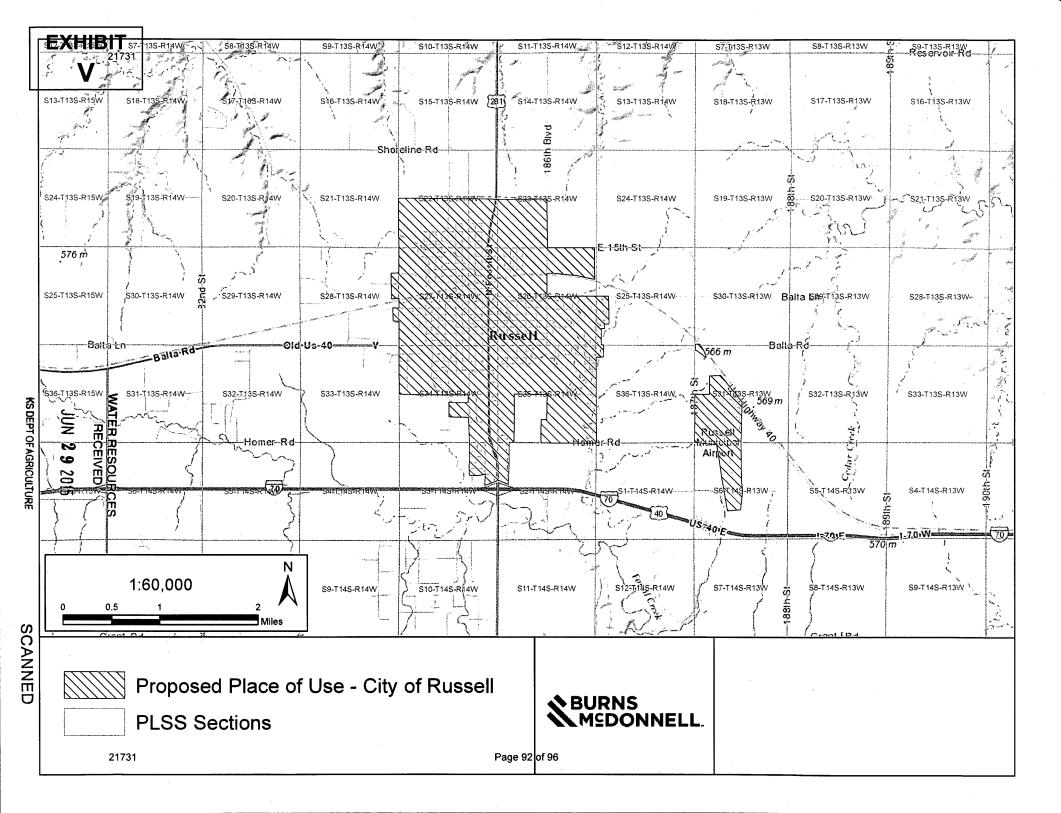


EXHIBIT
S 21731









Q.	
۹.	•
BTOT ACCOUNT	
5	
	ŧ
5	_
•	٠,
į	
5	_
:	'
:	C
•	7.07
•	
	•

b	٠
હ	_
9	9
7	J
Ci 07	ō
;	÷
_	•
C	n
	)
Ì	>
=	,
Z	_
	,
7	Ξ
- 11	1

Ü

21731 Applicant's Name	City Of Hays KS
	(Please Print)

# MUNICIPAL (PUBLIC WATER SUPPLY) APPLICATION SUPPLEMENTAL INFORMATION SHEET

Application	File Number
(agelano)	hy DWR)

## SECTION 1: PRESENT WATER USE SUMMARY (IF NO PREVIOUS MUNICIPAL WATER USE HAS BEEN UTILIZED, PROCEED TO SECTION 3) NOTE: WORKSHEET FOR WATER PUMPED, PURCHASED, AND SOLD BY YOUR WATER DISTRIBUTION SYSTEM.

Column 1	Column 2	Column 3	Column 4 Water Sold to Your	Column 5 Water Sold to Your	Column 6	Column 7
Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Industrial, Stock, and Bulk Customers	Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Below Explanation)
684,559,000			10,806,000	595,254,000	16,327,000	62,172,000
TOTAL WATER =	TER = Columns 1 + 2 ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6			UNACCOUNTED FOR WATER		

#### **UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER**

Column 1: The amount of raw water diverted from all of your points of diversion.

Column 2: The amount of water purchased wholesale from all other public water supply systems or the Kansas Water Office.

Column 3: The amount of water sold wholesale to all other public water supply systems.

Column 4: The amount of water sold retail to all industrial, pasture, stockwater, feedlot, and bulk water service connections. Include the amount of water sold to all farmsteads using at least 200,000 gallons of water per year.

Column 5: The amount of water sold retail to your residential and commercial customers and to industries and farmsteads using less than 200,000 gallons of water per year.

Column 6: The amount of water used that is metered at individual service connections and supplied free, such as for public service, treatment processes, and connections receiving free water,

Column 7: The amount of remaining water used. The gallons reported in this column are found by adding the numbers in Columns 1 and 2 and subtracting the numbers in Columns 3, 4, 5, and 6.

#### **UNACCOUNTED FOR WATER**

Use the following to calculate your distribution system's Unaccounted For Water:

Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in Columns 3, 4, 5, and 6 leaving an amount of water representing your unaccounted for water to enter in Column 7.

Use the following to calculate the percent Unaccounted For Water versus the Total Water of your system:

Percent Unaccounted = <u>Unaccounted For Water</u> x 100

For Water Total Water (Columns 1,2)

If this number exceeds 20%, please explain the large amount of unaccounted for water and describe any steps being taken to reduce it.

EXHIBIT W

#### SECTION 2: PAST WATER USE

#### COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.

RER RECO	Column 1	Column 2	Column 3	Column 4 Water Sold to Your	Column 5 Water Sold to Your	Column 6	Column 7
RESO CEIVE	Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers		Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Above Explanation)
20 gears ago	592,323,000			5,029,000	469,314,000	5,155,000	112,825,000
15 ears ago	780,527,000			10,619,000	587,965,000	10,470,000	171,473,000
10/years ago	706,926,000			7,103,000	639,222,000	20,861,000	39,740,000
5 years ago	693,966,000			13,537,000	581,900,000	19,362,000	114,383,000
	TOTAL WATER	= Columns 1 + 2	A	CCOUNTED FOR WATER	= Columns 3 + 4 + 5 + 6	-	UNACCOUNTED FOR WATER

217	31			
SECTION 3:	31 <b>PROJECTED</b>	<b>FUTURE</b>	WATER N	EEDS

	PLEASE COMPLETE THE FOLLOWING TABLE SHOWING YOUR FUTURE WATER REQUIREMENTS FOR THE NEXT 20 YEARS:									
	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7			
	1			Water Sold to Your	Water Sold to Your					
	Raw Water Diverted	Water Purchased	Water Sold to Other	Industrial, Stock, and	Residential and	Other	Remaining Water Used			
	Under Your Rights	From All Sources	Public Water Suppliers	Bulk Customers	Commercial Customers	Metered Water	(See Explanation on other side)			
Year 5	753,014,900			11,886,600	654,779,400	17,959,700	68,389,200			
Year 10	828,316,390			13,075,260	720,257,340	19,755,670	75,228,120			
Year 15	911,148,029			14,382,786	792,283,074	21,731,237	82,750,932			
Year 20	1,002,262,832			15,821,065	871,511,381	23,904,361	91,026,025			
	TOTAL WATER =	Columns 1 + 2	AC	ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6						

## SECTION 4: POPULATION AND SERVICE CONNECTIONS ESTIMATE THE NUMBER OF PERSONS DIRECTLY SERVED BY YOUR WATER DISTRIBUTION SYSTEM

## PAST POPULATION - PROVIDE INFORMATION BELOW: (CENSUS BUREAU INFORMATION)

LAST 20 YEARS	POPULATION
20 years ago	17,636
15 years ago	18,750
10 years ago	20,013
5 years ago	20,106
Last Year	21,038

# PROJECTED FUTURE POPULATION ESTIMATE FUTURE POPULATION AND SUBSTANTIATE NUMBERS ON SEPARATE ATTACHMENTS

NEXT 20 YEARS	POPULATION		
Year 5	23,142		
Year 10	25,456		
Year 15	28,002		
Year 20	30,802		

GALLONS PER PERSON PER DAY.

Provide number o	f current act	ive service	o connecti	ions:
------------------	---------------	-------------	------------	-------

	6,824	Residential	2	Industrial		Other (specify)
•	1,256	Commercial		Pasture/ Stockwater/ Feedlot	8,082	Total

, s	ECTION 5: PRESENT GALLONS I	ER P	ERSON PER DAY	
$\equiv$	_ d CALCULATE YOU	R GAL	LONS PER PERSO	N PER DAY
Z			. Danulation + 26t	Days/Year = Gallons per Person per Day
69	O byvater in Columns 5, 6, a	10 / ·	F Population + 36:	Days/ rear = Gallons per Person per Day
9	<b>88</b>			
2015	m O □ ⊆673,753,000	÷	21,038	÷ 365 Days/Year = 88
5	O Amount of water in	-	Population from	

#### **SECTION 6: AREA TO BE SERVED**

Columns 5, 6, and 7

of Section 1

Describe the area to be served or provide the legal description of the location where the water is to be used including any other city of water supply system (i.e. Rural Water District):

City of Hays, KS Municipal Water Supply

2013 is year one and 2033 will be year twenty. 2 percent growth is used for estimate. Hays had a reasonable 9.1 percent unaccounted water in 2013.

You may attach additional information you believe will assist in informing the Division of the need for your request.

Year of Section 4

Ś
D
113
ָס
_
0
T
➣
Ω
20
ᅒ
č
₹.
=
7
~
•••

9 2015

	٠,
ì	_
:	j
=	2
4	2
ľ	1
ξ	

21731 Applicant's Name	City of Russell
	(Please Print)

## MUNICIPAL (PUBLIC WATER SUPPLY) APPLICATION SUPPLEMENTAL INFORMATION SHEET

Application	File Number
(assigned	1 by DWR)

SECTION 1: PRESENT WATER USE SUMMARY (IF NO PREVIOUS MUNICIPAL WATER USE HAS BEEN UTILIZED, PROCEED TO SECTION 3) NOTE: WORKSHEET FOR WATER PUMPED, PURCHASED, AND SOLD BY YOUR WATER DISTRIBUTION SYSTEM.

Column 1	Column 2	Column 3	Column 4 Water Sold to Your	Column 5 Water Sold to Your	Column 6	Column 7
Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Industrial, Stock, and Bulk Customers	Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Below Explanation)
327,288,100	. 0	0	105,295,000	108,743,000	19,944,000	93,306,100
TOTAL WATER = Columns 1 + 2			UNACCOUNTED FOR WATER			

#### **UNACCOUNTED FOR WATER = TOTAL WATER - ACCOUNTED FOR WATER**

The amount of raw water diverted from all of your points of diversion. Column 1:

The amount of water purchased wholesale from all other public water supply systems or the Kansas Water Office. Column 2:

The amount of water sold wholesale to all other public water supply systems. Column 3:

Column 4: The amount of water sold retail to all industrial, pasture, stockwater, feedlot, and bulk water service connections. Include the amount of water sold to all farmsteads using at least 200,000 gallons of

Column 5: The amount of water sold retail to your residential and commercial customers and to industries and farmsteads using less than 200,000 gallons of water per year,

The amount of water used that is metered at individual service connections and supplied free, such as for public service, treatment processes, and connections receiving free water. Column 6:

Column 7: The amount of remaining water used. The gallons reported in this column are found by adding the numbers in Columns 1 and 2 and subtracting the numbers in Columns 3, 4, 5, and 6.

#### **UNACCOUNTED FOR WATER**

Use the following to calculate your distribution system's Unaccounted For Water:

Start with the amount in Column 1 and add the amount in Column 2, then subtract the amounts in Column 3, 4, 5, and 6 leaving an amount of water representing your unaccounted for water to enter in Column 7.

Use the following to calculate the percent Unaccounted For Water versus the Total Water of your system:

Percent Unaccounted = <u>Unaccounted For Water</u> x 100 For Water Total Water (Columns 1,2)

Affilis number exceeds 20%, please explain the large amount of unaccounted for water and describe any steps being taken to reduce it.

SEGION 2: PAST WATER USE

COMPLETE THE FOLLOWING TABLE FROM YOUR PAST WATER USE RECORDS.

TOTAL WATER = Columns 1 + 2				<u> </u>	UNACCOUNTED FOR WATER			
	5 years ago	375,790,000	0	0	144,277,000	123,343,000	18,907,000	89,263,000
	10 years ago	477,486,000	0	0	222,781,000	147,340,000	19.483,000	87,882,000
	15 years ago	373,757,000	0	0	171,928,220	115,864,670	18,687,850	67,276,260
	20 years ago							
30 17	ESOURCE EIVED	Column 1  Raw Water Diverted Under Your Rights	Column 2 Water Purchased From All Sources	Column 3  Water Sold to Other Public Water Suppliers	Column 4 Water Sold to Your Industrial, Stock, and Bulk Customers	Column 5 Water Sold to Your Residential and Commercial Customers	Column 6 Other Metered Water	Column 7  Remaining Water Used (See Above Explanation)
0	ES	1		n	1			n

**EXHIBIT** 

**2 9** 2015

SECTION 3: PROJECTED FUTURE WATER NEEDS

PLEASE COMPLETE	E THE FOLLOWING TABLE SHOWING YOUR FUTURE WATER REQUIREMENTS FOR THE NEXT 20 YEARS:
LECASE COMPLET	E THE FULLOWING TABLE SHOWING TOUR PUTURE WATER REQUIREMENTS FOR THE NEXT 20 TEARS.

	TOTAL WATER =	TOTAL WATER = Columns 1 + 2		ACCOUNTED FOR WATER = Columns 3 + 4 + 5 + 6			
Year 20	443,848,022	0	0	204,170,090	137,592,887	17,753,921	84,331,124
Year 15	426,310,852	0	0	196,102,992	132,156,364	17,052,434	80,999,062
Year 10	405,513,682	0	0	186,536,377	125,709,241	16,220,547	77,047,517
Year 5	386,346,512	0	0	177,719,396	119,767,419	15,453,861	73,405,836
	Raw Water Diverted Under Your Rights	Water Purchased From All Sources	Water Sold to Other Public Water Suppliers	Water Sold to Your Industrial, Stock, and Bulk Customers	Water Sold to Your Residential and Commercial Customers	Other Metered Water	Remaining Water Used (See Explanation on other side)
	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7

#### SECTION 4: POPULATION AND SERVICE CONNECTIONS ESTIMATE THE NUMBER OF PERSONS DIRECTLY SERVED BY YOUR WATER DISTRIBUTION SYSTEM

#### PAST POPULATION - PROVIDE INFORMATION BELOW: (CENSUS BUREAU INFORMATION)

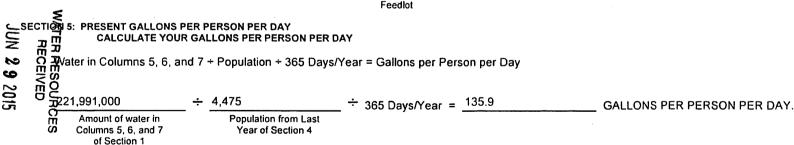
LAST 20 YEARS	POPULATION		
20 years ago			
15 years ago	4,710		
10 years ago	4,696		
5 years ago	4,506		
Last Year	4,475		

#### PROJECTED FUTURE POPULATION **ESTIMATE FUTURE POPULATION AND SUBSTANTIATE NUMBERS ON SEPARATE ATTACHMENTS**

NEXT 20 YEARS	POPULATION		
Year 5	4,596		
Year 10	4,605		
Year 15	4,651		
Year 20	4,698		

#### Provide number of current active service connections:

2,049	Residential	9	Industrial	30	Other (specify) Free Service
360	Commercial	0	- Pasture/	2448	Total
			Stockwater/		
			Feedlot		



#### **SECTION 6: AREA TO BE SERVED**

Describe the area to be served or provide the legal description of the location where the water is to be used including any other city of water supply system (i.e. Rural Water District): City of Russell Note that the actual quantity of "Unaccounted for Water" is lower than shown here. Large quantities diverted from the Pfeifer Wells are returned to the aquifer in the "Collector Well." See detailed explanation in the cover letter accompanying this application. Projected future water needs include losses in the collector well but when repaired or replaced, total raw water diversion will be reduced.