## **NOTICE**

This scan only represents the application as filed. The information contained herein meets the requirements of K.A.R. 5-3-1 or K.A.R. 5-5-1, and has been found acceptable for filing in the office of the Chief Engineer. The application should not be considered to be a complete application as per K.A.R. 5-3-1b or K.A.R. 5-5-2a.



### KANSAS DEPARTMENT OF AGRICULTURE

**DIVISION OF WATER RESOURCES** 

Jackie McClaskey, Secretary of Agriculture

David W. Barfield, Chief Engineer

File Number 49849
This item to be completed by the Division of Water Resources.

WATER RESOURCES RECEIVED

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

MAY 2 5 2017

():00

KS DEPT OF AGRICULTURE

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

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

Name of Applicant (Please Print): David M Kriegel & Derek M Kriegel Address: PO Box 698 State KS Zip Code 67029 City: Coldwater Telephone Number: (864) 270-9031 The source of water is: ☐ surface water in (stream) OR groundwater in Salt Fork Arkansas River (drainage basin) Certain streams in Kansas have minimum target flows established by law or may be subject to administration when water is released from storage for use by water assurance district members. If your application is subject to these regulations on the date we receive your application, you will be sent the appropriate form to complete and return to the Division of Water Resources. acre-feet OR --- gallons per calendar year, The maximum quantity of water desired is 195\* to be diverted at a maximum rate of 815\* gallons per minute OR --- cubic feet per second. \*Limited to 195 AF and 815 gpm when combined with Water Right, File No. 31904. Once your application has been assigned a priority, the requested maximum rate of diversion and maximum requested quantity of water under that priority number can NOT be increased. Please be certain your requested maximum rate of diversion and maximum quantity of water are appropriate and reasonable for your proposed project and are in agreement with the Division of Water Resources' requirements. The water is intended to be appropriated for (Check use intended): (a) ☐ Artificial Recharge (b) 

☐ Irrigation (c) ☐ Recreational (d) 

Water Power (e) ☐ Industrial (f) Municipal (g) ☐ Stockwatering (h) ☐ Sediment Control (i) Domestic (i) ☐ Dewatering (k) ☐ Hydraulic Dredging (I) Fire Protection (m) ☐ Thermal Exchange (n) ☐ Contamination Remediation YOU MUST COMPLETE AND ATTACH ADDITIONAL DIVISION OF WATER RESOURCES FORM(S) PROVIDING INFORMATION TO SUBSTANTIATE YOUR REQUEST FOR THE AMOUNT OF WATER FOR THE INTENDED USE REFÉRENCED ABOVE.

Meets K.A.R. 5-3-1 (YE) / NO) Use \ \R \R Source Gy S County

DWR 1-100 (Revised 06/16/2014)

Fee \$

For Office Use Only:

F.O. 🔔 GMD 🕜

Code

Receipt Date 5 25 17 Check # 1136

5.	The lo	ocation of the proposed wells, pump sites or other works for diversion of water is:	
	Note:	For the application to be accepted, the point of diversion location must be described to acre tract, unless you specifically request a 60 day period of time in which to locate the specifically described, minimal legal quarter section of land.	
	(A) (	One in the <u>NW</u> quarter of the <u>SW</u> quarter of the <u>SE</u> quarter of Section <u>34,</u> more particu	larly described as
	t	peing near a point <u>1,302</u> feet North and <u>2,442</u> feet West of the Southeast corner of said se	ection, in Township
	3	31 South, Range 18 West, Comanche	County, Kansas.
	(B) (	One in the quarter of the quarter of the quarter of Section,	more particularly
	c	described as being near a point feet North and feet West of the Southe	ast corner of said
	s	section, in Township South, Range East/West (circle one),	County, Kansas.
	(C) (	One in the quarter of the quarter of the quarter of Section,	more particularly
		described as being near a point feet North and feet West of the Southe	-
		section, in Township South, Range East/West (circle one),	
	(D) (	One in the quarter of the quarter of the quarter of Section,	more particularly
		described as being near a point feet North and feet West of the Southe	
		section, in Township South, Range East/West (circle one),	
	A batt four w not to	ame local source of supply which do not exceed a maximum diversion rate of 20 gallons patery of wells is defined as two or more wells connected to a common pump by a manifold wells in the same local source of supply within a 300 foot radius circle which are being or exceed a total maximum diversion rate of 800 gallons per minute and which supply woution system.	; or not more than perated by pumps
6.	The o	owner of the point of diversion, if other than the applicant is (please print):	
	Same	e as Applicant (name, address and telephone number)	
		(name, address and telephone number)	
		(name, address and telephone number)	
	lando	nust provide evidence of legal access to, or control of, the point of diversion from the wner's authorized representative. Provide a copy of a recorded deed, lease, easement his application. In lieu thereof, you may sign the following sworn statement:	
		I have legal access to, or control of, the point of diversion described in this application landowner or the landowner's authorized representative. I declare under penalty of perforegoing is true and correct.  Executed on Applicant's Signature	
	Failur	applicant must provide the required information or signature irrespective of whether they re to complete this portion of the application will cause it to be unacceptable for filing and turned to the applicant.	are the landowner. the application will
7.	The p	proposed project for diversion of water will consist of one well and diversion works	
	and w	vas completed (by) 1978	
8.	The f	(Month/Day/Year - each was or will be completed) irst actual application of water for the proposed beneficial use was or is estimated to be	
	(Mo/Da	ay/Year)	

File No.

•

	KS DEPT OF AGRICULTURE
	MAY 2 5 2017
	This new application is for additional quantity.  WATER RESOURCES RECEIVED
	P/D and P/U overlap with Water Right, File No. 31904. No modifications are proposed for File No. 31904.
12.	List any application, appropriation of water, water right, or vested right file number that covers the same diversion points or any of the same place of use described in this application. Also list any other recent modifications made to existing permits or water rights in conjunction with the filing of this application.
	A 7.5 minute U.S.G.S. topographic map may be obtained by providing the section, township and range numbers to: Kansas Geological Survey, 1930 Constant, Campus West, University of Kansas, Lawrence Kansas 66047.
	(e) Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point o diversion to the place of use.
	(d) The location of the proposed place of use should be shown by crosshatching on the topographic map, aeria photograph or plat.
	(c) If the application is for surface water, the names and addresses of the landowner(s) ½ mile downstream and ½ mile upstream from your property lines must be shown.
	(b) If the application is for groundwater, please show the location of any existing water wells of any kind within ½ mile of the proposed well or wells. Identify each existing well as to its use and furnish the name and mailing address of the property owner or owners. If there are no wells within ½ mile, please advise us.
	(a) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) should be plotted as described in Paragraph No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section.
11.	The application <u>must</u> be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed pla showing the following information. On the topographic map, aerial photograph, or plat, identify the center of the section, the section lines or the section corners and show the appropriate section, township and range numbers Also, please show the following information:
	If no, explain here why a Water Structures permit is not required
	If yes, show the Water Structures permit number here
	Have you also made an application for a permit for construction of this dam and reservoir with the Division of Water Resources? ☐ Yes ☐ No
10.	If you are planning to impound water, please contact the Division of Water Resources for assistance, prior to submitting the application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.
	All chemigation safety requirements must be met including a chemigation permit and reporting requirements.
9.	Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works'  ☐ Yes ☐ No If "yes", a check valve shall be required.

13.	Furnish the following well info has not been completed, give					oundwater. If the well							
	Information below is from:	☐ Test holes	⊠ Well a	s completed	☐ Drillers	log attached							
	Well location as shown in par	ragraph No.	(A)	(B)	(C)	(D)							
	Date Drilled		7/26/78										
	Total depth of well	_	288 ft			<del></del>							
	Depth to water bearing forma	ation											
	Depth to static water level 109 ft												
	Depth to bottom of pump intake pipe												
14.	The relationship of the appointment of the appointm		proposed pl	ace where the	e water will	be used is that of							
15.	The owner(s) of the property  Same as Applicant			other than the a		please print):							
		(name, addr	ess and tele	phone number									
16.	The undersigned states that this application is submitted in Dated at	n good faith.				er knowledge and that , 2017 (year)							
<i>Ğ</i> <u>B</u> y	(Agent or Officer - Please				∰ ⊿ Notary P	All A FRIESEN  Jacobs State of Kansas  Jacobs State of							
	(Agent or Officer - Please	e Print)											
Assiste	ed by EKF	<u>S</u>	SFFO/ESII (o	ffice/title)	Date: <u>2</u>	2/15/17							

File No. \_\_\_\_\_

## IRRIGATION USE SUPPLEMENTAL SHEET

File No. **49849** 

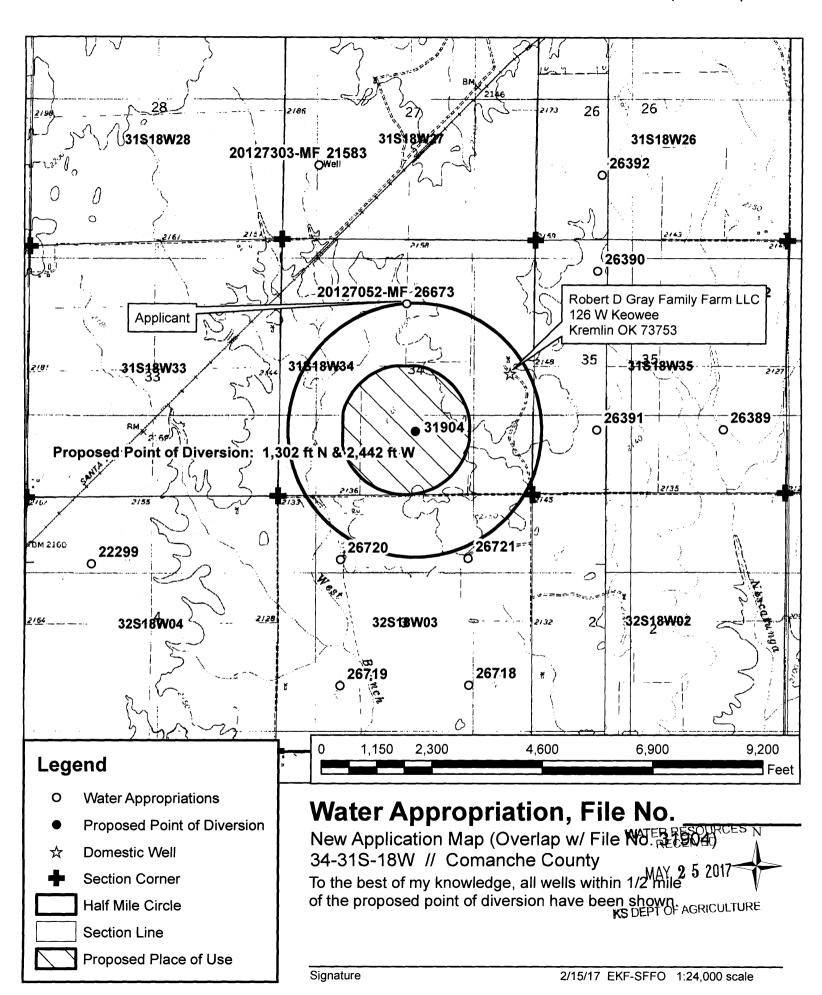
1. F	Please lesign	supp ate th	ly the	nam al nu	e and mber	addi of ac	ess o res to	f each be im	lanc	lowne d in e	er, the ach fo	legal orty ac	l desc ere tra	riptio ct or	n of fracti	the la onal p	nds to ortion	be ir there	rigated, and of:
Land	lowne	er of l	Recor								ek M KS 6								
				NI	Ξ1/4			NV	V1/4		SW1/4				SE¼				
S	T	R	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	sw	SE	TOTAL
34	31	18W								   	32.5			32.5		32.5	32.5		130
	} 										 								
Land	lowne	er of l	Recor																
	NE½ NW¼ SW¼ SE¼													SE1//					
S	Т	R	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	TOTAL
			1	1,,,,	9.11	- SE	112		9.1	52			-	- 02			<u> </u>		
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Land	lowne	er of l	Recor																
S	Т	R		NI	Ξ1/4			NV	V1/4			SV	V1/4			SI	Ε1/4		TOTAL
	<u> </u>	<u> </u>	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
	-																		
				<u> </u>		L	L		<u></u>	<u></u>		<u> </u>	<u> </u>	<b>V</b> V/		RESC CEIV		ES	<del></del>

MAY 2 5 2017

Page 1 of 2

2.	Ple sup	ase complet oplemental s	e the following information f heets as needed.	for the description of	f the operation for the	e irrigation project. Attach
	a.	Indicate th	e soils in the field(s) and thei	r intake rates:		
			Soil	Percent	Intake	Irrigation
		N	lame	of field	Rate	Design
		Kingedinal	Fortend from 0-2% shoes	(%) 72.%	(in/hr)	Group
		Clark Cl	in son dy loam, 0-2% shopes  in Luom 1-3% shopes  in fine Sond, 1-5% shopes  of fine Sond, 5-12% shopes  sec Sondy Loam, +3% shopes	620		
		Prett Wen	my fine Send, 1-5% slopes	55%		
		Pr.HLorm	Trine Sind, 5-12% sipes	6%		
		Shellaber	ser Sondy Lorn, F3705/pris	11%		
	b.		Total: ne average land slope in the f	100 %	/ %	
			-		3 %	
		Estimate ti	ne maximum land slope in the	e field(s):	%	
	c.	Type of irr	rigation system you propose t	o use (check one):		
		<u>X</u> C	Center pivot	Center pivo	ot - LEPA	"Big gun" sprinkler
		G	Gravity system (furrows)	Gravity sys	tem (borders)	Sideroll sprinkler
		Other, plea	ase describe:			
	d.	System des	sign features:			
		i. Desc	ribe how you will control tai	lwater: <b>N/</b> A		
		ii. For s	prinkler systems:			
		(1)	Estimate the operating pre	essure at the distribu	tion system: 50	psi
		( )				
		(2)	What is the sprinkler pack	age design rate?	750 gpm Co	e To 2009pm
		(3)	What is the wetted diamet	er (twice the distance	ce the sprinkler throw	s water) of a sprinkler on
			the outer 100 feet of the sy	ystem? 57	feet	
		(4)	Please include a copy of the	he sprinkler package	e design information.	
	e.	Crop(s) yo	ou intend to irrigate. Please n	ote any planned cro	p rotations:	
	A)		at, saybeans, milo on		•	
		,	, , ,			
	f.		cribe how you will determine		d how much water to	apply (particularly
		important	if you do not plan a full irriga	ation).	uter and	The combined
		Use:	soil moisture probe	to determine	4 001 1000	1 to determine
	~	1.4K CV	they writ to early have write the beauty stock to the property of the property	to be aller	dove with run	ice system bility
	V	iten a	4144 AL AL AL ALL ALL A	in you account	0-20 - M (E30	VI 02 31 1 2 1

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



49849 Longy 13,2017

Kansas Department of Agriculture Division of Water Resources David W. Barfield, Chief Engineer 1320 Research Park Drive Manhattan, Kansas 66502

> Re: Application File No. Minimum Desirable Streamflow

Dear Sir:

I understand that a Minimum Desirable Streamflow requirement has been established by the legislature for the source of supply to which the above referenced application applies.

I understand that diversion of water pursuant to this application will be subject to regulation any time Minimum Desirable Streamflow requirements are not being met.

I also understand that if this application is approved, there could be times, as determined by the Division of Water Resources, when I would not be allowed to divert water. I realize that this could affect the economics of my decision to appropriate water.

I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

Signature of Applicant

State of Kansas

) ss

ry Public

My Commission Expires:



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# MINIMUM DESIRABLE STREAMFLOW FORM TO BE USED WHEN APPLICABLE WHEN FILING AN APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

The Kansas Legislature has established minimum desirable streamflows for the streams listed below. If your proposed diversion of water is going to be from one of these watercourses or adjacent alluvial aquifers, please complete the back side of this page and submit it along with your application for permit to appropriate water.

Arkansas River
Big Blue River
Chapman Creek
Chikaskia River
Cottonwood River
Delaware River
Little Arkansas River
Little Blue River
Marais des Cygnes River
Medicine Lodge River
Mill Creek (Wabaunsee Co. area)

Neosho River

Ninnescah River
North Fork Ninnescah River
Rattlesnake Creek
Republican River
Saline River
Smoky Hill River
Solomon River
South Fork Ninnescah
Spring River
Walnut River
Whitewater River

USE TYPEWRITER OR BALL POINT PEN-PRESS FIRMLY, PRINT CLEARLY.

#### WATER WELL RECORD KSA 82a-1201-1215

Kansas Department of Health and Environment-Division of Environment (Water well Contractors) Topeka, Kansas 66620

	County	Fraction			number	Township number	Range number					
1. Location of well:	Comanche	CSW 1/4 1/4	1/4	3.	4	T 31 s	10	<b>3</b> 7W				
	ction from nearest town or city: & 1 Mi. N. of C location if in city:	oldwater, Ks	R.R. or	ner of well street: tate, zip o		Roy Boisseau Coldwater, K		)29				
4. Locate with "X" in		Sketch map:				6. Bore hole dia 30 1 27 Well depth 288 ft.	Completion date 7/26/	78				
		Well No. 4 (	TH 1	-78)		7Cable toolRotaryDrivenDugHollow rodJettedBoredXReverse rot  8. Use:DomesticPublic supplyindustry						
I						RMPPVC Dia16 in. to173ft. dept	_Weight <u>36, 9</u> h Wall Thickness; inc					
5. Type and color of	moterial			From	То	Diain. toft. dept	ome Doerr					
Sandy top	soil			0	3	Metal Produc Type Steel	Dia. 16"	61				
Fine to c	coarse sand - lo	ose		3	78	Set between	ft. and					
Coarse sa	and - fine to co	arse gravel		78		Gravel pack? VESSize ran	nge of material	X3/R /dgy/yr.				
Tan sandy	r clay	agentagen		107	135	109 ft. below land surf	ace Date 7/26	118				
Coarse sa	and v clay - sand st	reaks		135 145		// ft. after h	rs. pumping <u>935</u> rs. pumping <u>1500</u>	g.p.m.				
	coarse sand - sm		eaks	1	224	Estimated maximum yield	1500 mo.	-g.p.m. /day/yr.				
Tan sandy				224		Yes	) ate					
	coarse sand			235	288	Pitless adapter  15. Well grouted? 440	Z Inches above	grade				
Redbed			<del></del>	288	320	With: Neat cement	Bentonite <u>X</u> C	Concrete				
						16. Necrest source of possible fr. 6000 Direction LU	contamination:	<u> </u>				
						17 77	Not installed					
						Туре:	_ HP <u>/ 00</u> Vol. 2 ft. capacity <b>90</b>	Pg.p.m.				
	(Use a second s	heet if needed)				Submersible Jet Centrifugal	Turbine Recipro Other	1				
18. Elevation:  Topography: Hill Slope	19. Remarks:					20. Water well contractor's control of this well was drilled under my is true to the best of my knowl Layne Wester Business name Wicking Address	Jurisdiction and this ledge and belief.  n Co. 10	_  _				
Valley  Forward the white, blu	e and pink copies to the Department	of Health and Environment				VATER RESOUR RECEIVED		C-5				

MAY 2 5 2017

## SOUTH CENTRAL IRRIGATION

MARCH 06, 2006

WISH-49159

CUSTOMER: DENNIS MCKINNEY

VALLEY 4071 MODIFIED - LINDSAY 307 MIX

7 TOWER - 1316.87 FT SYSTEM 950 GPM @ 50 PSI

SENNINGER I-WOBS

SENNINGER 15 PSI REGULATORS DUAL NELSON P85AS 15/32 TB ELEVATION 5 FT UP, 5 FT DOWN

LEGAL: COMANCHE SE 1/4 34-31-18

# NORTH 634 MAIN STREET GREENSBURG, KANSAS 67054 (620)723-2104

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATIBILITY EXISTS BETWEEN THE WATER
DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM.
WESTERN IRRIGATION SUPPLY HOUSE, INC., THEREFORE, DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM
TO PERFORM AS CONTEMPLATED.

#### FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING:

- 1. DATA FURNISHED TO WESTERN IRRIGATION SUPPLY HOUSE, INC., ON PIPE LENGTH, DIAMETER, SURFACE FINISH, OUTLET SPACINGS, WATER FLOW, PIVOT PRESSURE AND ALL OTHER APPLICABLE INFORMATION.
- 2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY AND NO EVAPORATION).
- 3. PIVOT PRESSURE IS MEASURED ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST FLROW
- 4. MAIN PIPE PRESSURE IS CALCULATED AS IF THE PIVOT IS ALWAYS ON LEVEL GROUND.
- 5. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS.

  WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO AND FRICTION LOSS IS SUBTRACTED FROM THE MAIN LINE PIPE PRESSURE

  TO DETERMINE INLET PSI. REGULATORS ARE CONSIDERED MOUNTED AT THE SAME HEIGHT AS THE SPRINKLING DEVICE UNLESS NOTED.

  RECEIVED

  OFFICE OF

MAY 2.5 2017

MARCH 06, 2006

WISH-49159

DEALER

SOUTH CENTRAL IRRIGATION **NORTH 634 MAIN STREET** 

GREENSBURG, KANSAS 67054

IRRIGATOR

DENNIS MCKINNEY

COMANCHE SE 1/4 34-31-18

nox 4510

	TOTAL TARGET GPM	950.00	FRICTION FACTOR USED	138	SPANS	LENGTH	PIPE I.D.
	TOP OF PIVOT PRESSURE	50.00	TOTAL LENGTH	1316.87	1	171.40	5.79
41	ENDGUN TARGET GPM	60.73	NUMBER OF TOWERS	7	4	185.37	5.79
	NUMBER OF OUTLETS	156	NUMBER OF SPRINKLERS	133	1	185.11	5.79
					1	177.81	6.395
	SENNINGER I-WOBS - STAND	ARD ANGLE 9 (	GROOVE BLACK PLATES X NPT X 1 L	B WEIGHT FIRST TV	VO SPAN&H	41.07	3.79

SENNINGER I-WOBS - STANDARD ANGLE 9 GROOVE BLACK PLATES X NPT X 1 LB WEIGHT FIRST TWO SPANSH SENNINGER I-WOBS - LOW ANGLE BLUE 9 GROOVE PLATES X NPT X 1 LB WEIGHT BALANCE

SENNINGER PSR 15 PSI SERIES REGULATORS MOUNTED AFTER GOOSENECKS

DROPS AVERAGE 5.5 FT OF .75 I.D. FLEXIBLE HOSE

**ELEVATION IS 5 FT UP AND 5 FT DOWN** 

#### **CAUTIONS AND WARNINGS**

- 1. Inadequate crop clearance and/or structural interference may cause poor water distribution, resulting in decreased uniformity and possible streaking.
- 2. Over watering at beginning of system due to practical limitations on smallest nozzle sizes available and/or allowable for proper operation.

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NOZZLE SPRINKLER LABEL AND

OUTLET

LAST

DISTANCE

**GPM** 

**GPM** 

PIPE

12249

PAGE 4

PLUG DROP

SPRK

REG

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK No.	REG SIZE	 PAGE 5 DROP LENGTH
47	7.76	390.69	3.33	3.33	37.92	18.71	SN I-WOB 10.5 TURQUOISE	24	SPSR15	66
48	8.85	399.54	3.56	3.63	37.55	18.67	SN I-WOB 11 YELLOW	25	SPSR15	66
49	8.56	408.10	3.56	3.65	37.22	18.87	SN I-WOB 11 YELLOW	26	SPSR15	72
50	8.46	416.56	3.49	3.35	36.91	18.91	SN I-WOB 10.5 TURQUOISE	27	SPSR15	72
51	7.91	424.47	3.63	3.67	36.65	19.07	SN I-WOB 11 YELLOW	28	SPSR15	78
52	8.76	433.23	3.58	3.67	36.37	19.07	SN I-WOB 11 YELLOW SN I-WOB 11 YELLOW SN I-WOB 10.5 TURQUOISE SN I-WOB 11 YELLOW SN I-WOB 11 YELLOW	29	SPSR15	78
53	7.38	440.61	3.79	3.67	36.16	19.07	SN I-WOB 11 YELLOW	30	SPSR15	78
54	9.39	450.00	4.08		35.91	19.02	SN I-WOB 11.5 YELLOW	31	SPSR15	78
55	8.30	458.30	3.68		35.72	19.07	SN I-WOB 11 YELLOW SN I-WOB 11.5 YELLOW	32	SPSR15	78
56	7.38	465.68	3.86	4.01	35.56	19.02	SN I-WOB 11.5 YELLOW	33	SPSR15	78
57	8.76	474.44	4.05		35.40	19.02	SN I-WOB 11.5 YELLOW	34	SPSR15	78
58	7.91	482.35	4.05	3.99	35.27	18.82	SN I-WOB 11.5 YELLOW	35	SPSR15	72
59	8.46	490.81	4.28		35.16	18.78	SN I-WOB 12 RED	36	SPSR15	72
60	8.56	499.37	4.46	4.29	35.07	18.58	SN I-WOB 12 RED	37	SPSR15	66
61	8.85	508.22	4.59		34.99	18.52	SN I-WOB 12.5 RED	38	SPSR15	66
62	8.76	516.98	4.81		34.94	18.33	SN I-WOB 12.5 RED	39	SPSR15	60
63	9.37	526.35	4.90	4.97	34.92	18.08	SN I-WOB 13 WHITE	40	SPSR15	54
64	8.78	535.13	5.03	4.95	34.84	17.88	SN I-WOB 13 WHITE	41	SPSR15	48
TOWER 3	185.37	542.14								
65	9.55	544.68	4.87		34.62	17.88	SN I-WOB 13 WHITE	42	SPSR15	48
66	7.92	552.60	4.16		34.40	18.18	SN I-WOB 12 RED	43	SPSR15	54
67	6.79	559.39	4.51		34.10	18.13	SN I-WOB 12.5 RED	44	SPSR15	54
68	8.91	568.30	4.85		33.73	18.27	SN I-WOB 13 WHITE	45	SPSR15	60
69	7.76	576.06	4.91		33.42	18.47	SN I-WOB 13 WHITE	46	SPSR15	66
70	8.85	584.91	5.22		33.10	18.47	SN I-WOB 13 WHITE	47	SPSR15	66
71	8.56	593.47	5.18		32.81	18.66	SN I-WOB 13 WHITE	48	SPSR15	72
72	8.46	601.93	5.05		32.55	18.66	SN I-WOB 13 WHITE	4 9	SPSR15	72
73	7.91	609.84	5.21		32.32	18.85	SN I-WOB 13 WHITE	50	SPSR15	78
74	8.76	618.60	5.12		32.10	18.85	SN I-WOB 13 WHITE	51	SPSR15	78
75	7.38	625.98	5.39		31.92	18.76	SN I-WOB 13.5 WHITE	52	SPSR15	78
76	9.39	635.37	5.76		31.73	18.66	SN I-WOB 14 BLUE	53	SPSR15	78
77	8.30	643.67	5.17		31.58	18.85	SN I-WOB 13 WHITE	54	SPSR15	78
78	7.38	651.05	5.39		31.46	18.76	SN I-WOB 13.5 WHITE	55	SPSR15	78
79	8.76	659.81	5.64		31.35	18.76	SN I-WOB 13.5 WHITE	56	SPSR15	78
80	7.91	667.72	5.60		31.26	18.57	SN I-WOB 13.5 WHITE	57	SPSR15	72
81	8.46	676.18	5.90		31.20	18.48	SN I-WOB 14 BLUE	58	SPSR15	72
82	8.56	684.74	6.11		31.15	18.20	SN I-WOB 14.5 BLUE	59	SPSR15	66
<b>8</b> 3	8.85	693.59	6.26		31.13	18.20	SN I-WOB 14.5 BLUE	60	SPSR15	66
WATER 84 MA 85 DEPT	8.76	702.35	6.53		31.13	17.93	SN I-WOB 15 DK BROWN	61	SPSR15	60
P	9.37	711.72	6.62		31.16	17.75	SN I-WOB 15 DK BROWN	62	SPSR15	54
	8.78	720.50	6.77	6.56	31.14	17.57	SN I-WOB 15 DK BROWN	63	SPSR15	48
ATER RESOURCE RECEIVED  MAYE 5002817 3	185.37	727.51	C F 1	C	20 07	10 50	ON T WOD 15 DY PROTES	<i>-</i> .	050555	4.0
ESOURCES EIVED	9.55	730.05	6.54		30.97	17.57	SN I-WOB 15 DK BROWN	64	SPSR15	48
	7.92	737.97	5.56		30.79	18.00	SN I-WOB 13.5 WHITE	65	SPSR15	54
	6.79	744.76	6.00		30.54	17.83	SN I-WOB 14.5 BLUE	66	SPSR15	54
791 91 91	8.91	753.67	6.44		30.22	17.92	SN I-WOB 15 DK BROWN	67	SPSR15	60
91 S m 92	7.76 8.85	761.43 770.28	6.49 6.87		29.96	18.10	SN I-WOB 15 DK BROWN	68	SPSR15	66
111 92	0.63	110.20	0.0/	0.00	29.69	18.11	SN I-WOB 15 DK BROWN	69	SPSR15	66

OUTLET

LAST

DISTANCE

**GPM** 

**GPM** 

PIPE

NOZZLE

SPRINKLER LABEL AND

bh8th

PAGE 6

PLUG DROP

**SPRK** 

REG

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPI	RINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.	PAGE 7 DROP LENGTH
138	8.58	1156.76	10.20	10.25	26.19	17.32	SN	I-WOB 19 BLACK	115	SPSR15		72
139	8.58	1165.34	10.27	10.29	26.11	17.46	SN	I-WOB 19 BLACK	116	SPSR15		78
140	8.58	1173.92	10.34	10.29	26.05	17.46	SN	I-WOB 19 BLACK	117	SPSR15		78
141	8.58	1182.50	10.56	10.73	26.02	17.29	SN	I-WOB 19.5 BLACK	118	SPSR15		78
142	8.80	1191.30	10.62	10.73	26.01	17.29	SN	I-WOB 19.5 BLACK	119	SPSR15		78
143	8.58	1199.88	10.56	10.73	26.02	17.29	sn	I-WOB 19.5 BLACK	120	SPSR15		78
144	8.58	1208.46	10.62	10.73	26.06	17.29	sn	I-WOB 19.5 BLACK	121	SPSR15		78
145	8.58	1217.04	10.69	10.69	26.12	17.17	SN	I-WOB 19.5 BLACK	122	SPSR15		72
146	8.58	1225.62	10.98	11.12	26.21	17.01	SN	I-WOB 20 DK TURQUOISE	123	SPSR15		72
147	8.92	1234.54	11.26	11.08	26.32	16.90	SN	I-WOB 20 DK TURQUOISE	124	SPSR15		66
148	8.92	1243.46	11.36	11.51	26.46	16.73	SN	I-WOB 20.5 DK TURQUOISE	125	SPSR15		66
149	8.92	1252.38	11.42	11.47	26.62	16.61	SN	I-WOB 20.5 DK TURQUOISE	126	SPSR15		60
150	8.92	1261.30	11.49	11.43	26.81	16.50	SN	I-WOB 20.5 DK TURQUOISE	127	SPSR15		54
151	8.92	1270.22	12.93	13.15	26.91	15.80	SN	I-WOB 22.5 MAROON	128	SPSR15		48
TOWER 7	177.81	1275.80										
		PIP	E ID CHA	ANGES F	ROM 6.3	95 TO 3.	790					
152	10.98	1281.20	11.90	11.82	26.86	16.24	SN	I-WOB 21 MUSTARD	129	SPSR15		48
153	7.27	1288.47	9.82	9.66	26.83	16.89	SN	I-WOB 18.5 PURPLE	130	SPSR15		48
154	7.67	1296.14	9.97	10.09	26.80	16.78	SN	I-WOB 19 BLACK	131	SPSR15		48
155	7.33	1303.47	9.94	10.09	26.78	16.78	SN	I-WOB 19 BLACK	132	SPSR15		48
156	7.62	1311.09	12.91	12.67	26.77	15.97	SN	I-WOB 22 MAROON	133	SPSR15		48
OVERHANG	41.07	1316.87		61.25	ENDGUN	( 2	) D	UAL NELSON P85AS 15/32 TB				

THERE IS NO BOOSTER PUMP

FRICTION LOSS THROUGH ENDGUN VALVE IS 0.81 PSI - ENDGUN PRESSURE IS 25.96 PSI

TOTAL GPM = 950.51 GPA = 7.11

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 20.00 PSI WITH GRADUATED ELEVATION OF 5.00 FT THE INLET PRESSURE IS 23.53 PSI FOR SPRINKLER 120 THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

#### **HYDRAULICS SUMMARY**

TOWER A	ACRES UNDER	GPM	ACTUAL	GPM PER	AVERAGE IN. PER HR DELIVERED		AVERAGE IN. DELIVERED FOR REVOLUTION TIME	
NUMBER PER	<u>SPAN</u>	NEED	<u>GPM</u>	<u>ACRE</u>	<u>UNDER SPAN</u>	36 HR	<u>48 HR</u>	<u>60 HR</u>
유유 우리	2.12	15.07	15.69	7.41	0.016	0.59	0.79	0.98
	7.06	50.21	49.76	7.05	0.016	0.56	0.75	0.93
	12.02	85.45	85.35	7.10	0.016	0.56	0.75	0.94
<b>3</b> 70	16.97	120.69	120.47	7.10	0.016	0.56	0.75	0.94
5 M	21.93	155.93	156.43	7.13	0.016	0.57	0.76	0.95
6	26.85	190.88	190.85	7.11	0.016	0.57	0.75	0.94
7	30.44	216.44	216.14	7.10	0.016	0.56	0.75	0.94
OVERHANG	7.68	54.60	54.56	7.10	0.016	0.57	0.75	0.94
ENDGUN	8.39	60.73	61.25	7.30				
	TER RESOURCES  RECEIVED  AND THAN 5 6 7 OVERHAND  OVERHA	TOWER AT UNDER SPAN  NUMBER DER SPAN  SPAN  2.12  7.06  12.02  16.97  5 E. 21.93  6 26.85  7 30.44  OVERHANG 7.68	TOWER AT UNDER GPM  NUMBER OF A NEED  SPAN NEED  SPAN NEED  15.07  15.07  16.07  12.02  12.02  12.02  12.069  15.03  16.97  120.69  15.93  155.93	TOWER A UNDER GPM ACTUAL SPAN NEED GPM  SPAN NEED GPM  COMMENS  7.06 50.21 49.76 50.21 49.76 50.21 49.76 50.21 49.76 50.21 50.47 50.69 12.02 85.45 85.35 120.69 120.47 50.69 1	TOWER NUMBER UNDER GPM ACTUAL PER SPAN NEED GPM ACRE  SPAN NEED GPM ACRE  PER GPM ACRE  SPAN NEED GPM ACRE  15.07 15.69 7.41  15.09 7.06 50.21 49.76 7.05  12.02 85.45 85.35 7.10  16.97 120.69 120.47 7.10  15 III 21.93 155.93 156.43 7.13  16 26.85 190.88 190.85 7.11  7 30.44 216.44 216.14 7.10  OVERHANG 7.68 54.60 54.56 7.10	ACRES	ACRES   GPM   ACTUAL   PER   DELIVERED   DELIVERED	ACRES UNDER GPM ACTUAL PER DELIVERED REVOLUTION TIME NUMBER OF SPAN NEED GPM ACRE UNDER SPAN NEED GPM ACRE UNDER SPAN NEED GPM ACRE UNDER SPAN 36 HR 48 HR  19 CHE 2.12 15.07 15.69 7.41 0.016 0.59 0.79  12 CO 7.06 50.21 49.76 7.05 0.016 0.56 0.75  12 CO 16.97 120.69 120.47 7.10 0.016 0.56 0.75  5 CO 21.93 155.93 156.43 7.13 0.016 0.57 0.76  6 26.85 190.88 190.85 7.11 0.016 0.57 0.75  7 30.44 216.44 216.14 7.10 0.016 0.56 0.75  OVERHANG 7.68 54.60 54.56 7.10 0.016 0.57 0.75



**TOTAL** 7.12 133.46 950.00 950.51 **SUMMARY OF SPRINKLERS SUMMARY OF DROPS SUMMARY OF REGULATORS** SN I-WOB 7 LIME 133 SPSR15 17 48 IN DROP SN I-WOB 8 LAVENDER 16 54 IN DROP SN I-WOB 8.5 LAVENDER 13 60 IN DROP SN I-WOB 9.5 GREY 23 66 IN DROP SN I-WOB 10 TURQUOISE 24 72 IN DROP 5 SN I-WOB 10.5 TURQUOISE 40 78 IN DROP SN I-WOB 11 YELLOW 5 SN I-WOB 11.5 YELLOW SN I-WOB 12 RED SN I-WOB 12.5 RED 13 SN I-WOB 13 WHITE 6 SN I-WOB 13.5 WHITE SN I-WOB 14 BLUE SN I-WOB 14.5 BLUE 13 SN I-WOB 15 DK BROWN SN I-WOB 15.5 DK BROWN SN I-WOB 16 ORANGE SN I-WOB 16.5 ORANGE 10 SN I-WOB 17 DK GREEN SN I-WOB 17.5 DK GREEN SN I-WOB 18 PURPLE 2 SN I-WOB 18.5 PURPLE 11 SN I-WOB 19 BLACK SN I-WOB 19.5 BLACK SN I-WOB 20 DK TURQUOISE 3 SN I-WOB 20.5 DK TURQUOISE SN I-WOB 21 MUSTARD SN I-WOB 22 MAROON 1 SN I-WOB 22.5 MAROON 23 PLUGS **TOTAL OF 133 DROPS TOTAL OF 133 REGULATORS** LENGTH OF HOSE: 735.5 FT.

WATER RESOURCES RECEIVED

#### NOZZLE POSITION CHART

S	N I-WOB 7 LIME	1,	2,	3,	4									
S	N I-WOB 8 LAVENDER	5												
S	N I-WOB 8.5 LAVENDER	6												
S	N I-WOB 9.5 GREY	7,	21											
S	N I-WOB 10 TURQUOISE	8,	9,	22										
S	N I-WOB 10.5 TURQUOISE	10,	20,	23,	24,	27								
S	N I-WOB 11 YELLOW	11,	25,	26,	28,	29,	30,	32						
S	N I-WOB 11.5 YELLOW	12,	31,	33,	34,	35								
S	N I-WOB 12 RED	13,	14,	36,	37,	43								
S	N I-WOB 12.5 RED	15,	38,	39,	44									
S	N I-WOB 13 WHITE	16,	19,	40,	41,	42,	45,	46,	47,	48,	49,	50,	51,	54
S	N I-WOB 13.5 WHITE	17,	52,	55,	56,	57,	65							
S	N I-WOB 14 BLUE	53,	58											
S	N I-WOB 14.5 BLUE	18,	59,	60,	66									
S	N I-WOB 15 DK BROWN	61,	62,	63,	64,	67,	68,	69,	70,	71,	72,	73,	76,	77
S	N I-WOB 15.5 DK BROWN	74,	78,	79,	87									
S	N I-WOB 16 ORANGE	75,	80,	81,	88									
S	N I-WOB 16.5 ORANGE	82,	89,	90,	93,	95,	98,	105,	106					
S	N I-WOB 17 DK GREEN	83,	84,	85,	86,	91,	92,	94,	96,	99,	101			
S	N I-WOB 17.5 DK GREEN	97,	100	,102	,104	,107								
S	N I-WOB 18 PURPLE	103												
S	N I-WOB 18.5 PURPLE	108	,130											
S	N I-WOB 19 BLACK	109	,110	,111,	,112	,113,	114	,115,	116,	117,	131,	132		
S	N I-WOB 19.5 BLACK	118	,119	,120	,121	,122								
S	N I-WOB 20 DK TURQUOISE	123	,124											
S	N I-WOB 20.5 DK TURQUOISE	125	,126	, 127										
S	N I-WOB 21 MUSTARD	129												
S	N I-WOB 22 MAROON	133												
S	N I-WOB 22.5 MAROON	128												

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#### PRECIPITATION CHART FOR FULL CIRCLE

WISH-49159

MARCH 06, 2006

DEALER - SOUTH CENTRAL IRRIGATION

IRRIGATOR - DENNIS MCKINNEY FIELD NO - COMANCHE SE 1/4 34-31-18

TOTAL LENGTH PIPE = 1316.87 SYSTEM PRESSURE = 50 PSI

GPM UNDER PIPE = 889.26

TOTAL GPM = 950.51

MOTOR SIZE (HP) = 1 LOADED MOTOR RPM = 1745

ACRES UNDER PIPE = 125.07

CENTER GEAR BOX RATIO = 58 WHEEL GEAR BOX RATIO = 52

RANGE OF ENDGUN = 43.45

TIRE SIZE = 11.2 X 24

GPM OF ENDGUN = 61.25 ACRES UNDER ENDGUN = 8.39

LAST TOWER SPEED (FPM) = 6.10

WATERING LENGTH = 1360.32

DASI TOWER SILED (FIR) - 0.

PRECIPITATION DATA FIGURED WITH ENDGUN RUNNING

#### 

PRECIPITATION INCHES	% TIMER	TIME	% TIMER	PRECIPITATION	TIME
	SETTING	HOURS	SETTING	INCHES	HOURS
.34	100.00	21.90 - 1314(min)	100.00	.34	21.90 - 1314(min)
.40	86.02	25.46	90.00	.38	24.34
.50	68.82	31.83	80.00	.43	27.38
.60	57.35	38.19	70.00	.49	31.29
.70	49.16	44.56	60.00	.57	36.50
.75	45.88	47.74	50.00	.69	43.80
.80	43.01	50.92	45.00	.76	48.67
.90	38.23	57.29	40.00	.86	54.75
1.00	34.41	63.65	35.00	.98	62.58
1.25	27.53	79.57	30.00	1.15	73.01
1.50	22.94	95.48	25.00	1.38	87.61
1.75	19.66	111.39	20.00	1.72	109.51
2.00	17.20	127.30	15.00	2.29	146.01
2.25	15.29	143.22	10.00	3.44	219.02
2.50	13.76	159.13	5.00	6.88	438.04

CAUTION: The relationship between precipitation rate, timer setting, and hours per revolution provided above are theoretical numbers based on the data list at the top of the page. Actual precipitation rates may vary due to the following field and machine conditions: wind drift; evaporation; tire slippage, tire loaded radius; drive train efficiency; elevation changes; soil type. Due to these varying field and machine conditions the above chart should be used as a guide only.

MAY 2.5 2017
MAY 2.5 AGRICULTURE

hxhh

## SOUTH CENTRAL IRRIGATION

NORTH 634 MAIN STREET GREENSBURG, KANSAS 67054

MARCH 06, 2006 WISH-49159 DENNIS MCKINNEY COMANCHE SE 1/4 34-31-18 VALLEY 4071 MODIFIED - LINDSAY 307 MIX SENNINGER I-WOBS SENNINGER 15 PSI REGULATORS .75 I.D. FLEXIBLE HOSE DUAL NELSON P85AS 15/32 TB

Rotation time at 100% = 21.90 Hours Or 1314 minutes

950 @ 50 PSI

1113	stallatio	n Cha	rt												Page ·
Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	
123456789111234567891112345678911123456789112345678911234567891112345678911123456789111111111111111111111111111111111111	PLUG PLUG PLUG PLUG PLUG PLUG PLUG PLUG	1 2 3 4 5 6 7 8 8 9 10	7 7 7 8 8.5 9.5 10 10 10.5 11 11.5 12 12 12.5 13 13.5 14.5 13 10.5 10.5 11 11 11.5 11	PSR15	789012 12345678911123456789012 1234567891112345678911123456789012 1234	72666048 <b>R TOWER</b> 484406662288888882226660488 <b>TOWER</b> TOWER 455666677777777777777777777777777777777	36 37 38 39 40 41	122	PSR15 PSR15 PSR15 PSR15 PSR15	89111111111111111111111111111111111111	72 78 78 78 78 77 76 66 60 44 48 40 66 66 72 78 78 78 78 78 78 78 78 78 78 78 78 78	# 93 94 956 97 8 99 1001 1002 1003 1004 1010 1007 1008 11112 1113 1114 5 6 1112 1122 3 1122 6 1122 7 122 8 1131 2 1131 1132 1133 1133	51ze 16.5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PSR15 PSR15	

#### **DEALER - SOUTH CENTRAL IRRIGATION**

IRRIGATOR - DENNIS MCKINNEY FIELD NO. - COMANCHE SE 1/4 34-31-18

SPAN 1 POS/LEN 1 - 66 2 - 78 3 - 78 4 - 78 5 - 72 6 - 72 7 - 60 8 - 48	SPAN 2 <u>POS/LEN</u> 9 - 54 10 - 60 11 - 66 12 - 72 13 - 78 14 - 78 15 - 78 16 - 72 17 - 66 18 - 60 19 - 48	SPAN 3 POS/LEN 20 - 48 21 - 54 22 - 54 23 - 60 24 - 66 25 - 66 26 - 72 27 - 72 28 - 78 30 - 78 31 - 78 32 - 78 33 - 78 34 - 78 35 - 72 36 - 72 37 - 66 38 - 66 39 - 60 40 - 54 41 - 48	SPAN 4 POS/LEN 42 - 48 43 - 54 44 - 54 45 - 60 46 - 66 47 - 66 48 - 72 49 - 72 50 - 78 51 - 78 52 - 78 53 - 78 54 - 78 55 - 78 56 - 78 57 - 72 58 - 72 59 - 66 60 - 66 61 - 60 62 - 54 63 - 48	SPAN 5 POS/LEN 64 - 48 65 - 54 66 - 54 67 - 60 68 - 66 69 - 66 70 - 72 71 - 72 72 - 78 73 - 78 74 - 78 75 - 78 76 - 78 77 - 78 78 - 78 79 - 72 80 - 72 81 - 66 82 - 66 83 - 60 84 - 54 85 - 48	SPAN 6 POS/LEN 86 - 48 87 - 54 88 - 54 89 - 60 90 - 66 91 - 66 92 - 72 93 - 72 94 - 78 95 - 78 96 - 78 97 - 78 98 - 78 101 - 72 102 - 72 103 - 66 104 - 66 105 - 60 106 - 54 107 - 54 108 - 48	SPAN 7 POS/LEN 109 - 48 110 - 54 111 - 60 112 - 66 113 - 66 114 - 72 115 - 72 116 - 78 117 - 78 118 - 78 119 - 78 120 - 78 121 - 78 122 - 72 123 - 72 124 - 66 125 - 66 126 - 60 127 - 54 128 - 48	ENDBOOM <u>POS/LEN</u> 129 - 48 130 - 48 131 - 48 132 - 48 133 - 48
--	--	--	--	--	--	--	---

SUMMARY OF DROPS

17 - 48 IN DROP

16 - 54 IN DROP

13 - 60 IN DROP

23 - 66 IN DROP

24 - 72 IN DROP

40 - 78 IN DROP

TOTAL OF 133 DROPS

TOTAL OF 133 DROPS

TOTAL OF 133 DROPS

RECEIVED

RECEIVED MAY

KS DEPT OF AGRICULTURE

PSI 50 Gallons 950 Welted Sprinker Dia 51'

1320 Research Park Drive Manhattan, Kansas 66502 Department of Agriculture

Phone: (785) 564-6700 Fax: (785) 564-6777 Email: ksag@kda.ks.gov www.agriculture.ks.gov

Sam Brownback, Governor

Jackie McClaskey, Secretary

May 25, 2017

DAVID M KRIEGEL & DEREK M KRIEGEL PO BOX 698 **COLDWATER KS 67029** 

FILE COPY

**RE**: Application File No. 49849

Dear Sir or Madam:

Your application for permit to appropriate water in 34-31S-18W in Comanche County, was received and has been assigned the file number noted above.

As a matter of record, the Division of Water Resources has on hand a large number of applications awaiting processing. Therefore to be fair to all concerned, and so that we can process those applications on hand in the order they were received, we intend to concentrate on the backlog of applications until the issue is resolved. Once review of your application has begun, we will contact you, if additional information is required.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water as proposed prior to approval of the application is unlawful. Once approved, compliance with the terms, conditions and limitations of the permit is necessary. Conservation of the water resources of Kansas is required.

Section 82a-728 of the Kansas Water Appropriation Act, provides (a) except for the appropriation of water for the purpose of domestic use, . . . it shall be unlawful for any person to appropriate or threaten to appropriate water from any source without first applying for and obtaining a permit to appropriate water in accordance with the provisions of the Water Appropriation Act or for any person to violate any condition of a vested right, appropriation right or an approved application for a permit to appropriate water for beneficial use.

(b) (1) The violation of any provision of this section by any person is a class C misdemeanor . . .

A class C misdemeanor is punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. Each day that the violation occurs constitutes a separate offense.

If you have any questions, please contact me at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

Kristen A. Baum

**New Applications Unit Supervisor** Water Appropriation Program

risteraBaum

BAT: diw

pc:

STAFFORD Field Office

**GMD** 



#### MAP LEGEND Area of Interest (AOI) Spoil Area Area of Interest (AOI) Stony Spot Soils Very Stony Spot 0 Soil Map Unit Polygons Wet Spot Soil Map Unit Lines Other Δ Soil Map Unit Points Special Line Features **Special Point Features Water Features Blowout** (0) Streams and Canals Borrow Pit X **Transportation** 莱 Clay Spot Rails Closed Depression Interstate Highways Gravel Pit $\times$ **US Routes Gravelly Spot** Major Roads Landfill Local Roads Lava Flow Background Aerial Photography Marsh or swamp Mine or Quarry Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip

Sodic Spot

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Comanche County, Kansas Survey Area Data: Version 15, Sep 20, 2016

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 13, 2010—Jan 25, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

### **Map Unit Legend**

Comanche County, Kansas (KS033)						
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI			
5427	Kingsdown fine sandy loam, 0 to 2 percent slopes	28.8	22.2%			
5873	Clark clay loam, 1 to 3 percent slopes	7.6	5.9%			
5928	Pratt loamy fine sand, 1 to 5 percent slopes	71.3	55.1%			
5929	Pratt loamy fine sand, 5 to 12 percent slopes	7.9	6.1%			
5956	Shellabarger sandy loam, 1 to 3 percent slopes	13.9	10.7%			
Totals for Area of Interest	1	129.5	100.0%			

WATER RESOURCES

MAY 2 5 2017

