

60 DAYS TO LOCATE\*

Submit To:  
CHIEF ENGINEER  
Division of Water Resources  
Kansas Department of Agriculture  
1320 Research Park Drive  
Manhattan, KS 66502-5000  
<http://agriculture.ks.gov/dwr>

# APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

WATER RESOURCES  
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JUN 27 2024

13:11  
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State of Kansas

STATUTORY FILING FEE MUST ACCOMPANY THIS APPLICATION  
Please refer to the Fee Schedule attached to this application form.

File Number: **51257**

This item to be completed by the Division of Water Resources staff.

1. Name of Applicant: Shawn Neises  
Address: 380 SE. 70th St  
City: KINGMAN State: KS Zip Code: 67068  
Phone: (620) 491-1360 Email: Shawn.Neises@yahoo.com

2. The source of water is:  surface water in \_\_\_\_\_ (stream)  
 groundwater in Chikaskia River (drainage basin)

3. The maximum annual quantity of water desired is 135 98  acre-feet  gallons  
to be diverted at a maximum rate of 550  gpm  c.f.s.  natural flows  natural evaporation  
 This project involves surface water storage and redirection. The maximum annual quantity of water desired to be  
rediverted is \_\_\_\_\_  acre-feet  gallons, at a rate of \_\_\_\_\_  gpm  c.f.s.

### Conversion Factors

1 acre-foot (AF) = 325,851 gallons

1 million gallons (mg) = 3.07 acre-feet (AF)

1 cubic foot per second (c.f.s.) = 448.8 gallons per minute (gpm)

**IMPORTANT:** Once your application has been assigned a priority date and file number, the requested maximum rate of diversion and maximum requested annual quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum annual quantity of water are appropriate and reasonable for your proposed project.

4. The water is intended to be appropriated for the following use(s):  
 Artificial Recharge\*  Irrigation\*  Recreational\*  Water Power\*  
 Industrial\*  Municipal\*  Stockwatering\*  Sediment Control  
 Domestic  Dewatering  Hydraulic Dredging  Fire Protection  
 Thermal Exchange  Contamination Remediation

**\*IMPORTANT:** You **must** submit a supplemental form providing information to substantiate your request for the quantity of water listed in Item No. 3 for the intended use(s) referenced above.

FOR OFFICE USE ONLY							
FO	<u>2</u>	GMD	<u>-</u>	DUA	<u>-</u>	Use	<u>IRR</u>
Code	<u>BEG</u>	Fee \$	<u>200</u>	TR #	<u>PL2406A53B5</u>	Source	<u>GW</u>
				Receipt Date	<u>6-27-24</u>	County	<u>KM</u>
						By	<u>KJN</u>
						Date	<u>6/28/24</u>
						Check #	

6/28/2024  
KAnderson



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

60 DTL

6/27/2024  
KJN

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5. The location(s) of the proposed diversion work(s) (well, pumpsite, etc.) are described below. Note that for the application to be accepted, the point of diversion location(s) **must** be described to at least a 10-acre tract, unless you specifically request a 60-day period of time in which to locate the site within a specifically described, minimal legal quarter section of land. You can specify a nickname for the point of diversion via the A.K.A. line to help you identify it.

If the source of supply is groundwater, a separate application shall be filed for each proposed well or battery of wells, except that a single application may include up to four wells within a circle with a quarter (1/4) mile radius in the same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well.

A battery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than four wells in the same local source of supply within a 300-foot radius circle which are being operated by pumps not to exceed a total maximum diversion rate of 800gpm and which supply water to a common distribution system.

(A) One in the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of the NE quarter of Section 15, more particularly described as being near a point 3960 feet North and 1320 feet West of the Southeast corner of said section, in Township 29 South, Range 10 E W, Kingman County, KS. A.K.A: \_\_\_\_\_

(B) One in the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of Section \_\_\_\_\_, more particularly described as being near a point \_\_\_\_\_ feet North and \_\_\_\_\_ feet West of the Southeast corner of said section, in Township \_\_\_\_\_ South, Range \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

(C) One in the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of Section \_\_\_\_\_, more particularly described as being near a point \_\_\_\_\_ feet North and \_\_\_\_\_ feet West of the Southeast corner of said section, in Township \_\_\_\_\_ South, Range \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

(D) One in the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of Section \_\_\_\_\_, more particularly described as being near a point \_\_\_\_\_ feet North and \_\_\_\_\_ feet West of the Southeast corner of said section, in Township \_\_\_\_\_ South, Range \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

(E) One in the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of the \_\_\_\_\_ quarter of Section \_\_\_\_\_, more particularly described as being near a point \_\_\_\_\_ feet North and \_\_\_\_\_ feet West of the Southeast corner of said section, in Township \_\_\_\_\_ South, Range \_\_\_\_\_ E W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_

6. The proposed project for diversion of water will consist of one (1) well  
(number of wells, pumps, dams, etc.)  
and was/will be completed on or by the following date: \_\_\_\_\_  
(date each was or will be completed)

7. The first actual application of water for the proposed beneficial use was or is estimated to be \_\_\_\_\_  
(Date)

8. List any application, appropriation of water, water right, or vested right file number that covers the same point(s) of diversion 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.

WILL BE A 60 DAYS TO LOCATE APPLICATION



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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. All chemigation safety requirements must be met including a chemigation permit and reporting requirements.

10. If you are planning to impound water, please contact DWR prior to submitting this application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.  
Have you made an application for a permit for construction of this dam and reservoir with DWR?  Yes  No  
If yes, write the Water Structures permit number here: not applicable

11. Furnish a detailed topographic or aerial map that depicts the following information:

The application **must** be supplemented by a topographic map, aerial photograph or a detailed plat showing the information described in A-D below.

- (A) The center of the section, the section lines or the section corners, and labels showing the appropriate section, township and range numbers, as well as a north arrow and scale,
- (B) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) described in Item No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section,
- (C) The location of the proposed place of use identified by crosshatching,
- (D) **For Groundwater Use**, the location of any existing water wells of any kind within 1/2 mile of the proposed well or wells and indicate for each well its type of use and the name and mailing address of the property owner or owners, (If there are no wells within 1/2 mile, please indicate that on the map.)  
  
**For Surface Water Use**, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines, and
- (E) The locations of proposed or existing dams, dikes, reservoirs, canals, pipelines, power houses, and any other structures for the purpose of storing, conveying, or using water.

12. For groundwater use, furnish copies of the driller's logs for all test holes or completed wells. Please ensure that the driller's logs provide depth to the static water level. If driller's logs cannot be obtained for an existing well, provide the following information:

Well location as shown in Item No. 5	(A)	(B)	(C)	(D)	(E)
Date drilled	_____	_____	_____	_____	_____
Total depth of well	_____	_____	_____	_____	_____
Depth to static water level	_____	_____	_____	_____	_____

13. The owner(s) of the point of diversion, if other than the applicant is:

JON @ McDONALD 308 13<sup>th</sup> Ave Medicine Lodge KS  
(name, address, and phone) 67104

ANGELA McDONALD (SAME AS ABOVE)  
(name, address, and phone) (620) 450-7171



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

14. The owner(s) of the property where the water is used, if other than the applicant, is:

JON & ANGELA McDONALD 308 13<sup>th</sup> Ave Medicine  
(name, address, and phone) LODGE KS  
(620) 450-7171 67104  
(name, address, and phone)

15. The relationship of the applicant to the proposed place where the water will be used is that of:

Owner  Agent  Tenant  Other: \_\_\_\_\_


16. A water use correspondent (WUC) must be designated. The WUC will be mailed the annual water use report, which must be filed with the Division by March 1 of each year. Failure to timely file an accurate water use report will subject the owner(s) to a civil fine of up to \$1,000 and potential suspension of the water appropriation or right. By signing this application, I verify that the owner(s) of the water right or permit have confirmed that the following person or agent should be designated as the WUC:

SHAWN NEISES 380 SE 70<sup>th</sup> St. KINGMAN KS  
(name, address, and phone) (620) 491-1360

17. I 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. This could affect the economics of my decision to appropriate water. Situations where this might occur may include times when minimum desirable streamflow (MDS) requirements are not met, when Assurance District or Water Marketing releases are made from storage in federal reservoirs, when a Water Reservation Right upstream of a federal reservoir is administered, or when water rights administration becomes necessary to prevent impairment.

I declare, under penalty of perjury, that I have legal access to or control of, the point(s) of diversion described in this application from the landowner or the landowner's authorized representative.

By signing below, I verify that the information set forth above is true to the best of my knowledge, I agree with all statements made above, and that this application is submitted in good faith.

 (Applicant Signature) 6/9/24 (Date)

Shawn Neises  
(Applicant Name - please print)

\_\_\_\_\_  
(Applicant Title, if applicable - please print)

Assisted by KJN Manhattan HQ Date: 6/4/24  
(office/title)



**IRRIGATION USE  
SUPPLEMENTAL SHEET**

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Name of Applicant (Please Print): Shawn Neises

1. Please supply the name and address of each landowner, the legal description of the lands to be irrigated, and designate the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

Landowner of Record NAME: ANGELA & JON McDONALD  
 ADDRESS: 308 13<sup>th</sup> Ave Medicine Lodge KS 67104

S	T	R	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15	29	10	15	15	20	20													70

Landowner of Record NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

S	T	R	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Landowner of Record NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

S	T	R	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	



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2. Please complete the following information for the description of the operation for the irrigation project. Attach supplemental sheets as needed.

a. Indicate the soils in the field(s) and their intake rates:

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
Shellabarger SL 3-6%	44%	1.0	7
CLARKE U 1-3%	32%	1.5	5
Albion SL 6-15%	20%	2.0	11
Shellabarger 1-3%	4%	1.0	7
Total:	100 %		

b. Estimate the average land slope in the field(s): 4-5 %

Estimate the maximum land slope in the field(s): 10 %

c. Type of irrigation system you propose to use (check one):

- Center pivot       Center pivot - LEPA       "Big gun" sprinkler  
 Gravity system (furrows)       Gravity system (borders)       Sideroll sprinkler

Other, please describe: \_\_\_\_\_

d. System design features:

i. Describe how you will control tailwater:

ii. For sprinkler systems:

(1) Estimate the operating pressure at the distribution system: 30 psi

(2) What is the sprinkler package design rate? 600 gpm

(3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? \_\_\_\_\_ feet

(4) Please include a copy of the sprinkler package design information.

e. Crop(s) you intend to irrigate. Please note any planned crop rotations:

WHEAT + FEED

f. Please describe how you will determine when to irrigate and how much water to apply (particularly important if you do not plan a full irrigation).

WILL IRRIGATE ACCORDING TO CROP NEEDS AND HOW MUCH AVAILABLE WATER THERE IS.

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



# Soils Map and Report

Date: 6/20/2024

Client(s): ANGELA J MCDONALD  
Kingman County, Kansas

Assisted By: ANDREW KOSTNER  
NRCS  
KINGMAN SERVICE CENTER  
KINGMAN COUNTY CD

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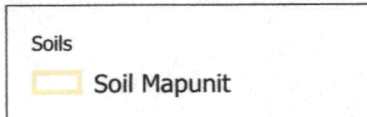
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Land Units: Tract 10890, Fields 4



Source: Esri, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo and the GIS User Community

Prepared with assistance from USDA-Natural Resources Conservation Service





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2. Please complete the following information for the description of the operation for the irrigation project. Attach supplemental sheets as needed.

a. Indicate the soils in the field(s) and their intake rates.

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
Shellabarger SL 3-6 <sup>2</sup>	44%	1.0	7
Clark CL 1-3 <sup>2</sup>	32%	.5	5
Albion SL 6-15 <sup>2</sup>	20%	2.0	11
Shellabarger SL 1-3 <sup>2</sup>	4%	1.0	7
Total:	100%		

b. Estimate the average land slope in the field(s): 4-5 %

Estimate the maximum land slope in the field(s): 10 %

c. Type of irrigation system you propose to use (check one)

Center pivot                       Center pivot - LEPA                       "Big gun" sprinkler  
 Gravity system (furrows)                       Gravity system (borders)                       Sideroll sprinkler

Other, please describe: \_\_\_\_\_

d. System design features.

i. Describe how you will control tailwater:

ii. For sprinkler systems:

(1) Estimate the operating pressure at the distribution system: \_\_\_\_\_ psi

(2) What is the sprinkler package design rate? \_\_\_\_\_ gpm

(3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? \_\_\_\_\_ feet

(4) Please include a copy of the sprinkler package design information

e. Crop(s) you intend to irrigate. Please note any planned crop rotations:

f. Please describe how you will determine when to irrigate and how much water to apply (particularly important if you do not plan a full irrigation).

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



**Map Unit Description (Brief, Generated)**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, provide information on the composition of map units and properties of their components.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

**Report—Map Unit Description (Brief, Generated)****Kingman County, Kansas**

**Map Unit:** 5856--Albion sandy loam, 6 to 15 percent slopes

**Component:** Albion (90%)

The Albion component makes up 90 percent of the map unit. Slopes are 6 to 15 percent. This component is on paleoterraces on river valleys. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R079XY122KS Sandy Loam ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

**Component:** Clark (4%)

Generated brief soil descriptions are created for major soil components. The Clark soil is a minor component.

**Component:** Lincoln (3%)

Generated brief soil descriptions are created for major soil components. The Lincoln soil is a minor component.

**Component:** Farnum (2%)

Generated brief soil descriptions are created for major soil components. The Farnum soil is a minor component.

**Component:** Carbika (1%)

Generated brief soil descriptions are created for major soil components. The Carbika soil is a minor component.

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**Map Unit:** 5873--Clark clay loam, 1 to 3 percent slopes**Component:** Clark (70%)

The Clark component makes up 70 percent of the map unit. Slopes are 1 to 3 percent. This component is on paleoterraces on river valleys. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R079XY112KS Limy Plains ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 40 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

**Component:** Naron (8%)

Generated brief soil descriptions are created for major soil components. The Naron soil is a minor component.

**Component:** Geary (7%)

Generated brief soil descriptions are created for major soil components. The Geary soil is a minor component.

**Component:** Case (7%)

Generated brief soil descriptions are created for major soil components. The Case soil is a minor component.

**Component:** Ost (5%)

Generated brief soil descriptions are created for major soil components. The Ost soil is a minor component.

**Component:** Farnum (2%)

Generated brief soil descriptions are created for major soil components. The Farnum soil is a minor component.

**Component:** Aquolls, occasionally ponded (1%)

Generated brief soil descriptions are created for major soil components. The Aquolls, occasionally ponded soil is a minor component.

**Map Unit:** 5956--Shellabarger sandy loam, 1 to 3 percent slopes**Component:** Shellabarger (85%)

The Shellabarger component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on paleoterraces on river valleys. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R079XY122KS Sandy Loam ecological site. Nonirrigated land capability classification is 2e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

**Component:** Albion (5%)

Generated brief soil descriptions are created for major soil components. The Albion soil is a minor component.

**Component:** Nalim (5%)

Generated brief soil descriptions are created for major soil components. The Nalim soil is a minor component.

**Component:** Pratt (4%)

Generated brief soil descriptions are created for major soil components. The Pratt soil is a minor component.

**Component:** Carbika (1%)

Generated brief soil descriptions are created for major soil components. The Carbika soil is a minor component.

**Map Unit:** 5957--Shellabarger sandy loam, 3 to 6 percent slopes**Component:** Shellabarger, moderately eroded (99%)

The Shellabarger, moderately eroded component makes up 99 percent of the map unit. Slopes are 3 to 7 percent. This component is on paleoterraces on river valleys. The parent material consists of loamy alluvium. Depth to a root



restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R079XY122KS Sandy Loam ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

**Component:** Aquolls (1%)

Generated brief soil descriptions are created for major soil components. The Aquolls soil is a minor component.

### Data Source Information

Soil Survey Area: Kingman County, Kansas

Survey Area Data: Version 19, Sep 12, 2023

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## Soils Inventory Report

Tract	Land Unit	Map Unit Symbol	Map Unit Name	Acres	Percent
10890	1	5856	Albion sandy loam, 6 to 15 percent slopes	12.9	20%
10890	1	5873	Clark clay loam, 1 to 3 percent slopes	20.6	32%
10890	1	5956	Shellabarger sandy loam, 1 to 3 percent slopes	2.6	4%
10890	1	5957	Shellabarger sandy loam, 3 to 6 percent slopes	28.7	44%
<b>Total</b>				<b>64.8</b>	<b>100%</b>
<b>Grand Total</b>				<b>64.8</b>	<b>100%</b>

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# Lindsay Manufacturing Co.



2707 North 108th Street  
Omaha, NE 68164  
800 - 829 - 5300 office

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**Farm: Shorty**

Grower: Shawn Neisis

6/20/2024

Systems:	Length	Spans	Total area including endgun
○ Pivot 3	964.08 ft	5 spans + 44 ft o.h.	67.03 acres

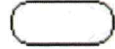


## Pivot 3

Pivot Area: **67.03** acres  
Endgun Area: **0.00** acres  
Total Area: **67.03** acres

System Length: **964.08** ft  
# of Spans: **5 + overhang**  
Deg. of Sweep: **360.0°**  
Endgun Throw: **0.0** ft

Color on map:



### Spans

# of Spans: 5	Span 1 (180.2)	Span 2 (359.1)	Span 3 (538.0)	Span 4 (716.9)	Span 5 (917.1)	Overhang (964.1)
Length:	179	179	179	179	201	44 ft
Pipe Size:	6 - 5/8"	6 - 5/8"	6 - 5/8"	6 - 5/8"	6 - 5/8"	5 - 9/16"

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### Endgun Areas

This system does not have an endgun.



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**Lindsay Manufacturing Co.** Omaha, NE 800-829-5300 office



96 Agri Sales, Inc.  
316.661.2281  
Mt Hope, KS

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Dealer : 96 Agri Sales Inc  
Mt Hope, KS  
Customer : Shawn Nesis  
Shorty  
Printout No: Nesis, Shawn, Shorty, 600 GPM IWOB



\*\* Specify Senninger UP3 Nozzles when ordering \*\*



# 96 Agri Sales Inc

10400 N 247th St W

Mt Hope, KS 67108

316.661.2281

jason.wood@96agrisales.com

Chart Design by Jason Wood

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Date: 06/20/2024

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

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## Dealer:

96 Agri Sales Inc  
Mt Hope, KS

## Customer:

Shawn Nesis  
Shorty  
600GPM

## Comments:

### Machine

Mfg: Lindsay  
Flow: 600.00 gpm  
Pivot Pressure: 33.51 psi  
Base Press: 38.07 psi  
End Pressure: 25.00 psi  
Spacing: Span dependent  
Length: 964.47 ft  
GPM / Acre: 8.91 gpm  
Average Drop: 10.0 ft  
End Gun: No

### Pipes

C Factor: 140  
Pipe 1: 919.6 ft, 6.39 inch ID  
Pipe 2: 44.9 ft, 5.37 inch ID

### Elevation

Difference above(+) pivot 10.00  
Difference below(-) pivot 40.00  
Elevation Rise included in calculations

### Sprinklers

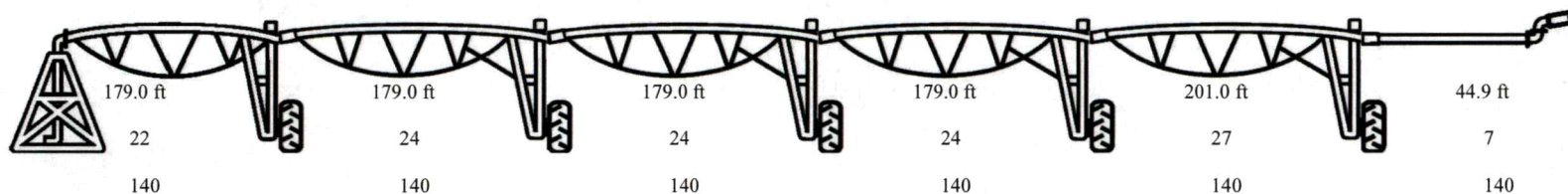
128 IWob2 UP3  
(128)Low Ang 9



### Regs

Position : Bottom  
128 PSR-10

### Spans # 5



38.07 psi

# 96 Agri Sales Inc

10400 N 247th St W

Mt Hope, KS 67108

316.661.2281

jason.wood@96agrisales.com

Chart Design by Jason Wood

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Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

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## WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATE CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, AND AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE, SENNINGER IRRIGATION INC. MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

PRODUCTS MANUFACTURED BY SENNINGER IRRIGATION INC. THAT ARE SPECIFIED ON THIS SYSTEM ARE COVERED UNDER THE PRINTED "LIMITED WARRANTY" OF EACH INDIVIDUAL ITEM.

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. SENNINGER IRRIGATION THEREFORE DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

ALL FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING...

1. INFORMATION PROVIDED TO SENNINGER IRRIGATION, INC. CONCERNING PIPE LENGTH, DIAMETER, SURFACE FINISH AND OUTLET SPACINGS, PLUS WATER FLOW AND PRESSURE, PLUS ALL OTHER APPLICABLE DATA IS CORRECT.
2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY & NO EVAPORATION)
3. ALL BOW STRING AND WARREN TRUSS TYPE SPANS (EXCEPT THE LAST) ARE CONSIDERED TO END AT THE CENTER OF THE FLEXIBLE COUPLING. THE LAST SPAN IS CONSIDERED TO END AFTER THE "TOWER TOP" OR "END BOOM TRANSITION PIECE" FLANGE. CABLE SUPPORTED SPANS ARE CONSIDERED TO END AT THE CENTER OF THE TOWER.
4. PIVOT PRESSURE IS MEASURED UP ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
5. PIVOT PRESSURE HAS BEEN DETERMINED IN CONSIDERATION OF A MAXIMUM FIELD ELEVATION RISE AND FALL FROM THE PIVOT POINT AS SHOWN ON PAGE ONE, WITH THESE ELEVATIONS OCCURING AT THE END OF THE SYSTEM.
6. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS, WITH FLOW VS. FRICTION LOSS THROUGH EACH REGULATOR CONSIDERED. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO THE MAIN PIPE PRESSURE TO DETERMINE SPRAY NOZZLE INLET PRESSURE.



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## CAUTIONS

WHEN IRRIGATING WITH SENNINGER I-WOBS, USE STANDARD INTEGRAL WEIGHTS OR THREADED PLASTIC OR GALVANIZED DROP WEIGHT ONLY, DO NOT USE SLIP OVER DROP WEIGHTS.

SENNINGER IRRIGATION RECOMMENDS SPACING I-WOBS NO MORE THAN 18 FEET APART WHEN INSTALLED ON DROP PIPES!

SENNINGER I-WOBS ARE DESIGNED TO OPERATE AT 10-20 PSI. THE USE OF I-WOBS AT PRESSURES GREATER THAN 25 PSI VOIDS PRODUCT WARRANTY!

WHEN IRRIGATING WITH I-WOBS, DO NOT EXCEED 18 FOOT SPRINKLER SPACING PAST 2 SPANS WHEN CROP INTERFERENCE CAN PROHIBIT I-WOBS DESIGN DISTRIBUTION!

I-Wob Sprinklers require at least 24" of drop hose. Do not use slip weights. Do not install integrated weights on drop with double I-Wob. Inadequate crop clearance and/or structural interference may cause poor water distribution, resulting in decreased uniformity and possibly streaking.

This package was plugged with the recommended minimum ground clearance and above the crop canopy.

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## Dealer:

96 Agri Sales Inc  
Mt Hope, KS

## Customer:

Shawn Nesis  
Shorty  
600GPM

## Comments:

### Precipitation

### Circle Degree 360

Delivered Flow:	601.97 gpm
Pivot Pressure:	33.51 psi
Length:	964.47 ft
Area:	67.31 acre
Distance to last tower:	919.60 ft
Speed of last tower:	12.51 ft
Precip. / Acre: (360)	8.91 gpm
Time for coverage:	7.70Hrs
Tire Size	11.2 x 38
Motor loaded speed (RPM)	1725
Center gear box reduction (RATIO)	40:1
Wheel gear box reduction (RATIO)	50:1

<u>Average Depth</u>	<u>Timer</u>	<u>Rotation</u>
0.15 inch	100.00%	7.7hrs
0.20 inch	75.81%	10.2hrs
0.30 inch	50.54%	15.2hrs
0.40 inch	37.90%	20.3hrs
0.50 inch	30.32%	25.4hrs
0.60 inch	25.27%	30.5hrs
0.70 inch	21.66%	35.5hrs
0.80 inch	18.95%	40.6hrs
0.90 inch	16.85%	45.7hrs
1.00 inch	15.16%	50.8hrs
1.25 inch	12.13%	63.5hrs
1.50 inch	10.11%	76.2hrs
2.00 inch	7.58%	101.5hrs
2.50 inch	6.06%	126.9hrs
0.24 inch	64.15%	12 hrs
0.47 inch	32.08%	24 hrs

Caution\*\*This chart is an estimate of the performance for your irrigation system. Tire inflation, tire slippage, soil conditions, flow fluctuations and other conditions can cause application and time deviations. The info above should be used as a guide and used with caution.














# SENNINGER IRRIGATION

Date: 06/20/2024

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

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LOCATION				HYDRAULICS DATA					HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM LAST OUTLET (FT)	LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#	
<b>Pivot - Gauge</b>													
1-Plg			3.4										
2-Plg			5.5										
3-Plg			7.8										
4-Plg			10.3										
5-Plg			12.8										
6-Plg			15.3										
7-Plg			17.7										
8-Plg			20.2										
9	22.59		22.6	0.21	0.85	33.23	11.42	104	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	1 G	
10-Plg			25.0										
11-Plg			27.5										
12	7.34	29.93	29.9	0.28	0.85	33.14	11.41	107	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	2 G	
13-Plg			32.4										
14-Plg			34.9										
15	7.34	37.27	37.3	0.36	0.85	33.05	11.41	110	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	3 G	
16-Plg			39.7										
17-Plg			42.2										
18	7.50	44.77	44.8	0.42	0.85	32.96	11.41	112	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	4 G	
19-Plg			47.0										
20-Plg			49.5										
21	6.98	51.75	51.8	0.48	0.85	32.87	11.41	114	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	5 G	
22-Plg			54.3										
23-Plg			56.8										
24	7.50	59.25	59.3	0.56	0.85	32.78	11.41	116	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	6 G	
25-Plg			61.7										
26-Plg			64.2										
27	7.34	66.59	66.6	0.63	0.85	32.69	11.41	117	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	7 G	
28-Plg			69.0										
29-Plg			71.5										
30	7.34	73.93	73.9	0.70	0.85	32.60	11.41	118	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	8 G	
31-Plg			76.4										
32-Plg			78.9										
33	7.34	81.27	81.3	0.78	0.85	32.51	11.41	119	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	9 G	
34-Plg			83.7										
35-Plg			86.2										
36	7.50	88.77	88.8	0.83	0.85	32.41	11.41	119	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	10 G	
37-Plg			91.0										
38-Plg			93.5										
39	6.98	95.75	95.8	0.89	0.85	32.33	11.41	119	PSR-10	IWob UP3-2 Low Ang 9	 6-GOLD	11 G	
40-Plg			98.3										
41-Plg			100.8										

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SENNINGER IRRIGATION

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

Date: 06/20/2024

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LOCATION			HYDRAULICS DATA					HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM LAST OUTLET (FT)	LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
125-Plg			306.7									
126	7.34	127.59	309.2	2.91	2.89	29.83	11.32	114	PSR-10	IWob UP3-2 Low Ang 9	11-YELLOW	40 G
127-Plg			311.8									
128-Plg			314.0									
129	7.31	134.90	316.5	2.98	2.89	29.75	11.32	112	PSR-10	IWob UP3-2 Low Ang 9	11-YELLOW	41 G
130-Plg			318.8									
131-Plg			321.3									
132	7.33	142.23	323.8	3.05	3.16	29.67	11.31	109	PSR-10	IWob UP3-2 Low Ang 9	11.5-YEL/*	42 G
133-Plg			326.3									
134-Plg			328.7									
135	7.34	149.57	331.2	3.13	3.16	29.59	11.31	107	PSR-10	IWob UP3-2 Low Ang 9	11.5-YEL/*	43 G
136-Plg			333.6									
137-Plg			336.0									
138	7.34	156.91	338.5	3.19	3.16	29.51	11.31	104	PSR-10	IWob UP3-2 Low Ang 9	11.5-YEL/*	44 G
139-Plg			340.9									
140-Plg			343.3									
141	7.34	164.25	345.8	3.26	3.16	29.43	11.30	101	PSR-10	IWob UP3-2 Low Ang 9	11.5-YEL/*	45 G
142-Plg			348.3									
143-Plg			350.7									
144	7.34	171.59	353.2	4.02	4.04	29.36	11.25	98	PSR-10	IWob UP3-2 Low Ang 9	13-WHITE	46 G
145-Plg			355.8									
146-Plg			358.0									
<b>Tower 2</b>		179.00	360.60									
147-Plg			361.4									
148	10.31	2.90	363.5	4.11	4.04	29.25	11.24	96	PSR-10	IWob UP3-2 Low Ang 9	13-WHITE	47 G
149-Plg			365.8									
150-Plg			368.3									
151	7.33	10.23	370.8	3.50	3.44	29.17	11.29	99	PSR-10	IWob UP3-2 Low Ang 9	12-RED	48 G
152-Plg			373.3									
153-Plg			375.7									
154	7.34	17.57	378.2	3.57	3.44	29.10	11.29	102	PSR-10	IWob UP3-2 Low Ang 9	12-RED	49 G
155-Plg			380.6									
156-Plg			383.0									
157	7.34	24.91	385.5	3.64	3.73	29.02	11.27	105	PSR-10	IWob UP3-2 Low Ang 9	12.5-RED/*	50 G
158-Plg			387.9									
159-Plg			390.4									
160	7.34	32.25	392.9	3.71	3.73	28.95	11.27	108	PSR-10	IWob UP3-2 Low Ang 9	12.5-RED/*	51 G
161-Plg			395.3									
162-Plg			397.7									
163	7.34	39.59	400.2	3.77	3.73	28.87	11.27	110	PSR-10	IWob UP3-2 Low Ang 9	12.5-RED/*	52 G
164-Plg			402.8									
165-Plg			405.0									

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SENNINGER IRRIGATION

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

Date: 06/20/2024

LOCATION			HYDRAULICS DATA						KS Dept. of Agriculture HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM LAST OUTLET (FT)	LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#	
208	7.34	149.57	510.2	4.81	4.67	27.83	11.19	107	PSR-10	IWob UP3-2 Low Ang 9	 14-BLUE	67 G	
209-Plg			512.6										
210-Plg			515.0										
211	7.34	156.91	517.5	4.88	5.01	27.77	11.17	104	PSR-10	IWob UP3-2 Low Ang 9	 14.5-BLU/*	68 G	
212-Plg			519.9										
213-Plg			522.4										
214	7.34	164.25	524.9	4.95	5.01	27.71	11.17	101	PSR-10	IWob UP3-2 Low Ang 9	 14.5-BLU/*	69 G	
215-Plg			527.3										
216-Plg			529.7										
217	7.34	171.59	532.2	6.05	6.08	27.64	11.06	98	PSR-10	IWob UP3-2 Low Ang 9	 16-ORANGE	70 G	
218-Plg			534.8										
219-Plg			537.0										
<b>Tower 3</b>		179.00	539.60										
220-Plg			540.4										
221	10.31	2.90	542.5	6.14	6.08	27.56	11.05	96	PSR-10	IWob UP3-2 Low Ang 9	 16-ORANGE	71 G	
222-Plg			544.8										
223-Plg			547.3										
224	7.33	10.23	549.8	5.19	5.36	27.50	11.14	99	PSR-10	IWob UP3-2 Low Ang 9	 15-DK BROWN	72 G	
225-Plg			552.3										
226-Plg			554.7										
227	7.34	17.57	557.2	5.26	5.36	27.43	11.14	102	PSR-10	IWob UP3-2 Low Ang 9	 15-DK BROWN	73 G	
228-Plg			559.6										
229-Plg			562.0										
230	7.34	24.91	564.5	5.33	5.36	27.37	11.13	105	PSR-10	IWob UP3-2 Low Ang 9	 15-DK BROWN	74 G	
231-Plg			566.9										
232-Plg			569.4										
233	7.34	32.25	571.9	5.40	5.36	27.32	11.13	108	PSR-10	IWob UP3-2 Low Ang 9	 15-DK BROWN	75 G	
234-Plg			574.3										
235-Plg			576.7										
236	7.34	39.59	579.2	5.45	5.35	27.26	11.13	110	PSR-10	IWob UP3-2 Low Ang 9	 15-DK BROWN	76 G	
237-Plg			581.8										
238-Plg			584.0										
239	7.31	46.90	586.5	5.52	5.35	27.20	11.12	113	PSR-10	IWob UP3-2 Low Ang 9	 15-DK BROWN	77 G	
240-Plg			588.8										
241-Plg			591.3										
242	7.33	54.23	593.8	5.60	5.71	27.14	11.10	115	PSR-10	IWob UP3-2 Low Ang 9	 15.5-DBN/*	78 G	
243-Plg			596.3										
244-Plg			598.7										
245	7.34	61.57	601.2	5.67	5.71	27.09	11.10	116	PSR-10	IWob UP3-2 Low Ang 9	 15.5-DBN/*	79 G	
246-Plg			603.6										
247-Plg			606.0										
248	7.34	68.91	608.5	5.74	5.71	27.03	11.09	117	PSR-10	IWob UP3-2 Low Ang 9	 15.5-DBN/*	80 G	

















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KS Dept of Agriculture

Date: 06/20/2024

SENNINGER IRRIGATION

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

LOCATION				HYDRAULICS DATA					HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM LAST OUTLET (FT)	LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#	
249-Plg			610.9										
250-Plg			613.4										
251	7.34	76.25	615.9	5.81	5.71	26.97	11.09	118	PSR-10	IWob UP3-2 Low Ang 9	 15.5-DBN/*	81 G	
252-Plg			618.3										
253-Plg			620.7										
254	7.34	83.59	623.2	5.87	5.71	26.92	11.09	119	PSR-10	IWob UP3-2 Low Ang 9	 15.5-DBN/*	82 G	
255-Plg			625.8										
256-Plg			628.0										
257	7.31	90.90	630.5	5.93	6.08	26.87	11.07	119	PSR-10	IWob UP3-2 Low Ang 9	 16-ORANGE	83 G	
258-Plg			632.8										
259-Plg			635.3										
260	7.33	98.23	637.8	6.02	6.08	26.81	11.06	119	PSR-10	IWob UP3-2 Low Ang 9	 16-ORANGE	84 G	
261-Plg			640.3										
262-Plg			642.7										
263	7.34	105.57	645.2	6.09	6.08	26.76	11.06	118	PSR-10	IWob UP3-2 Low Ang 9	 16-ORANGE	85 G	
264-Plg			647.6										
265-Plg			650.0										
266	7.34	112.91	652.5	6.16	6.08	26.71	11.05	117	PSR-10	IWob UP3-2 Low Ang 9	 16-ORANGE	86 G	
267-Plg			654.9										
268-Plg			657.4										
269	7.34	120.25	659.9	6.23	6.08	26.66	11.05	116	PSR-10	IWob UP3-2 Low Ang 9	 16-ORANGE	87 G	
270-Plg			662.3										
271-Plg			664.7										
272	7.34	127.59	667.2	6.28	6.46	26.61	11.03	114	PSR-10	IWob UP3-2 Low Ang 9	 16.5-ORN/*	88 G	
273-Plg			669.8										
274-Plg			672.0										
275	7.31	134.90	674.5	6.35	6.45	26.56	11.02	112	PSR-10	IWob UP3-2 Low Ang 9	 16.5-ORN/*	89 G	
276-Plg			676.8										
277-Plg			679.3										
278	7.33	142.23	681.8	6.43	6.45	26.51	11.02	109	PSR-10	IWob UP3-2 Low Ang 9	 16.5-ORN/*	90 G	
279-Plg			684.3										
280-Plg			686.7										
281	7.34	149.57	689.2	6.50	6.45	26.46	11.01	107	PSR-10	IWob UP3-2 Low Ang 9	 16.5-ORN/*	91 G	
282-Plg			691.6										
283-Plg			694.0										
284	7.34	156.91	696.5	6.57	6.45	26.41	11.01	104	PSR-10	IWob UP3-2 Low Ang 9	 16.5-ORN/*	92 G	
285-Plg			698.9										
286-Plg			701.4										
287	7.34	164.25	703.9	6.64	6.45	26.36	11.01	101	PSR-10	IWob UP3-2 Low Ang 9	 16.5-ORN/*	93 G	
288-Plg			706.3										
289-Plg			708.7										
290	7.34	171.59	711.2	8.08	8.04	26.32	10.82	98	PSR-10	IWob UP3-2 Low Ang 9	 18.5-PUR/*	94 G	














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SENNINGER IRRIGATION

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

Date: 06/20/2024

LOCATION			HYDRAULICS DATA					KS DRAINAGE HARDWARE DESCRIPTION				Goose Neck
OUTLET COUNT	DISTANCE FROM LAST OUTLET (FT)	LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH (in)	PRESS REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
374-Plg			917.1									
<b>Tower 5</b>	201.00		919.60									
<b>PIPE I.D. CHANGE AT 919.60 ft FROM 6.395 inch TO 5.369 inch</b>												
375-Plg			921.7									
376	11.81	4.44	924.0	11.41	11.53	25.18	10.28	95	PSR-10	IWob UP3-2 Low Ang 9	 22.5-MRN/*	122 G
377-Plg			926.5									
378-Plg			929.0									
379	7.42	11.86	931.5	8.84	8.88	25.15	10.71	95	PSR-10	IWob UP3-2 Low Ang 9	 19.5-BLK/*	123 G
380-Plg			933.9									
381-Plg			936.4									
382	7.34	19.20	938.8	8.86	8.88	25.12	10.70	95	PSR-10	IWob UP3-2 Low Ang 9	 19.5-BLK/*	124 G
383-Plg			941.2									
384-Plg			943.7									
385	7.34	26.54	946.1	8.93	8.88	25.08	10.70	95	PSR-10	IWob UP3-2 Low Ang 9	 19.5-BLK/*	125 G
386-Plg			948.6									
387-Plg			951.1									
388	7.34	33.88	953.5	9.05	8.87	25.05	10.69	95	PSR-10	IWob UP3-2 Low Ang 9	 19.5-BLK/*	126 G
389-Plg			955.9									
390-Plg			958.4									
391	7.42	41.30	960.9	6.78	6.84	25.02	10.98	95	PSR-10	IWob UP3-2 Low Ang 9	 17-DK GREEN	127 G
392-Plg			963.2									
393	3.57	44.87	964.5	4.43	4.35	25.00	11.22	95	PSR-10	IWob UP3-2 Low Ang 9	 13.5-WHT/*	128 G









# 96 Agri Sales Inc

10400 N 247th St W

Mt Hope, KS 67108

316.661.2281

jason.wood@96agrisales.com

Chart Design by Jason Wood

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## QUANTITIES

Qty	Item	Description
128	IWob UP3	(128) Low Ang 9
128	PSR-10	
265	Plugs	
	(inch)	(inch)
7 x	95 Drop	6 x 114 Drop
5 x	96 Drop	4 x 115 Drop
4 x	98 Drop	9 x 116 Drop
5 x	99 Drop	9 x 117 Drop
4 x	101 Drop	9 x 118 Drop
5 x	102 Drop	13 x 119 Drop
5 x	104 Drop	2 x 120 Drop
5 x	105 Drop	3 x 121 Drop
5 x	107 Drop	3 x 122 Drop
5 x	108 Drop	
3 x	109 Drop	
6 x	110 Drop	
1 x	111 Drop	
6 x	112 Drop	
4 x	113 Drop	
	1175.58ft	TOTAL DROP LENGTH

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Drop lengths are based on the following values.

Span	Tower height	Crown height	Ground Clearance ft
1,2,3,4	12.83	14.83	
5	12.83	15.08	

Ground Clearance : General

4.00

These dimensions must be confirmed  
prior to manufacturing the drop components

## DEVIATION SUMMARY

Span number	Area	Required flow	Actual flow	% Deviation	GPM/Acre
1	2.38	20.97	24.06	14.72	10.11
2	7.00	62.25	62.09	-0.26	8.87
3	11.62	103.52	103.35	-0.16	8.89
4	16.24	144.71	144.34	-0.26	8.89
5	23.75	211.67	211.34	-0.16	8.90
6	6.10	56.88	56.79	-0.15	9.32

Nozzle Discharge Uniformity Coefficient = 98.2 %





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## BILL of MATERIALS - Hydraulic Components

Qty	PartNumber	Cost	----- Description -----
128	IWOB200B3LA9UP3		I-Wob-2 Low Angle 9 Groove (Blue)
265	FTP3		3/4" Plugs
11	UP3NZ06		# 6 UP3 Nozzle (gold)
2	UP3NZ065		# 6.5 UP3 Nozzle (gold) notched
3	UP3NZ07		# 7 UP3 Nozzle (lime)
2	UP3NZ075		# 7.5 UP3 Nozzle (lime) notched
3	UP3NZ08		# 8 UP3 Nozzle (lavender)
3	UP3NZ085		# 8.5 UP3 Nozzle (lavender) notched
3	UP3NZ09		# 9 UP3 Nozzle (grey)
3	UP3NZ095		# 9.5 UP3 Nozzle (grey) notched
4	UP3NZ10		#10 UP3 Nozzle (turquoise)
3	UP3NZ105		#10.5 UP3 Nozzle (turquoise) notched
4	UP3NZ11		#11 UP3 Nozzle (yellow)
4	UP3NZ115		#11.5 UP3 Nozzle (yellow) notched
2	UP3NZ12		#12 UP3 Nozzle (red)
4	UP3NZ125		#12.5 UP3 Nozzle (red) notched
7	UP3NZ13		#13 UP3 Nozzle (white)
5	UP3NZ135		#13.5 UP3 Nozzle (white) notched
5	UP3NZ14		#14 UP3 Nozzle (blue)
2	UP3NZ145		#14.5 UP3 Nozzle (blue) notched
6	UP3NZ15		#15 UP3 Nozzle (brown)
5	UP3NZ155		#15.5 UP3 Nozzle (brown) notched
7	UP3NZ16		#16 UP3 Nozzle (orange)
6	UP3NZ165		#16.5 UP3 Nozzle (orange) notched
4	UP3NZ17		#17 UP3 Nozzle (dark green)
5	UP3NZ175		#17.5 UP3 Nozzle (dark green) notche
6	UP3NZ18		#18 UP3 Nozzle (purple)
9	UP3NZ185		#18.5 UP3 Nozzle (purple) notched
4	UP3NZ19		#19 UP3 Nozzle (black)

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## BILL of MATERIALS - Hydraulic Components

Qty	PartNumber	Cost	----- Description -----
4	UP3NZ195		#19.5 UP3 Nozzle (black) notched
1	UP3NZ22		#22 UP3 Nozzle (maroon)
1	UP3NZ225		#22.5 UP3 Nozzle (maroon) notched
128	PSR103F3F		REGULATOR, SENN, PSR, 10 PSI
649	Total		



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## BILL of MATERIALS - Drop Components

Qty	PartNumber	Cost	----- Description -----
-----	------------	------	-------------------------

96 Agri Sales Inc  
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Chart Design by Jason Wood

Dealer : 96 Agri Sales Inc  
Mt Hope, KS  
Customer : Shawn Nesis  
Shorty  
Printout No: Nesis, Shawn, Shorty, 600 GPM IWOB

JUN 27 2024  
KS Dept. of Agriculture

Date: 06/20/2024

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

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INSTALLATION

Tower 1				Tower 2				Tower 3				Tower 4					
Out#	Len	Noz	Reg	Out#	Len	Noz	Reg	Out#	Len	Noz	Reg	Out#	Len	Noz	Reg		
1				48	116	14	7	13				61			24		
2				49				14	108	27	9	62	107	43	11.5	25	
3				50				15				63				26	
4				51	114	15	7	16				64				27	
5				52				17	110	28	9.5	65	104	44	11.5	28	
6				53				18				66				29	
7				54	112	16	7	19				67				30	
8				55				20	113	29	9.5	68	101	45	11.5	31	
9	104	1	6	56				21				69				32	
10				57	110	17	7.5	22				70				33	
11				58				23	115	30	9.5	71	98	46	13	34	
12	107	2	6	59				24				72				35	
13				60	108	18	7.5	25				73				36	
14				61				26	116	31	10	-- Drop Summary --				37	
15	110	3	6	62				27				96x1 98x1 99x1				38	
16				63	105	19	8	28				101x1 102x1 104x1				39	
17				64				29	117	32	10	105x1 107x1 108x1				40	
18	112	4	6	65				30				109x1 110x1 112x1				41	
19				66	102	20	8	31				113x1 114x1 115x1				42	
20				67				32	118	33	10	116x2 117x2 118x2				43	
21	114	5	6	68				33				119x3				44	
22				69	99	21	8	34				<b>Tower No. 2</b>				45	
23				70				35	119	34	10	1				46	
24	116	6	6	71				36				2				47	
25				72	96	22	8.5	37				96 47 13				48	
26				73				38	119	35	10.5	3				49	
27	117	7	6	-- Drop Summary --				39					4				50
28				96x1 99x1 102x1				40					5				51
29				104x1 105x1 107x1				41	119	36	10.5	PSR-10	99 48 12				52
30	118	8	6	108x1 110x2 112x2				42					6				53
31				114x2 116x2 117x2				43					7				54
32				118x2 119x3				44	118	37	10.5	PSR-10	8				55
33	119	9	6	<b>Tower No. 1</b>				45					9				56
34				1				46					10				57
35				2				47	117	38	11	PSR-10	105 50 12.5				58
36	119	10	6	3				48					11				59
37				4				49					12				60
38				5				50	116	39	11	PSR-10	13				61
39	119	11	6	6				51					14				62
40				7				52					108 51 12.5				63
41				8				53	114	40	11	PSR-10	15				64
42	118	12	6.5	9				54					16				65
43				10				55					17				66
44				11				56	112	41	11	PSR-10	110 52 12.5				67
45	117	13	6.5	12				57					18				68
46				1				58					19				69
47				2				59	109	42	11.5	PSR-10	20				70
				3				60					21				71
				4									22				
				5									23				
				6									115 54 13				
				7									PSR-10				
				8													
				9													
				10													
				11													
				12													





6/10/24  
(Date)

Kansas Department of Agriculture  
Division of Water Resources  
Earl D. Lewis, Jr., Chief Engineer  
1320 Research Park Drive  
Manhattan, Kansas 66502

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JUN 27 2024

Re: Application File No. \_\_\_\_\_  
KS Dept. of Agriculture

Minimum Desirable Streamflow

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.

Shawn Neises  
Signature of Applicant

State of Kansas )  
County of Kingman ) ss

SHAWN NEISES  
(Print Applicant's Name)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 10<sup>th</sup> day of June, 20 24.

Michael J. Clinton  
Notary Public

My Commission Expires:





1320 Research Park Drive  
Manhattan, KS 66502  
785-564-6700  
www. agriculture.ks.gov



900 SW Jackson, Room 456  
Topeka, KS 66612  
785-296-3556

Mike Beam, Secretary

Laura Kelly, Governor

July 22, 2024

SHAWN NEISES  
380 SE 70TH ST  
KINGMAN KS 67068

RE: Application, File No(s). **51257**

Dear Sir or Madam:

The Division of Water Resources (Division) has received your application(s) for a permit to appropriate water for beneficial use. Your application(s) has been assigned the file number(s) referenced above. Please be aware that the Division may have a large number of pending applications on hand at times and makes every attempt to process them in the order in which they are received. You will be contacted if additional information is required.

Please note, this letter only acknowledges receipt of your application(s) and does not guarantee approval. In accordance with the provisions of the Kansas Water Appropriation Act, the use of water as proposed prior to approval of the application(s) is unlawful.

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

Sincerely,

Kris Neuhauser  
New Applications Lead  
Water Appropriation Program