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.



OF KANSAS

WATER RESOURCES RECEIVED

OCT 17 2022 1,18 KS DEPT OF AGRICULTURE

LMoody

KANSAS DEPARTMENT OF AGRICULTURE Mike Beam, Secretary of Agriculture

DIVISION OF WATER RESOURCES Earl D. Lewis Jr., Chief Engineer

50889

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

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

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:

1.	Name of Applicant (Please F	Print): Jerry Klein		
	Address: 11777 21st Road	t		
	City: <u>Udall</u>		State KS Z	Zip Code <u>67146</u>
	Telephone Number: (620)	229-3194 - Cell (620	0) 782-3823 - Home	
2.	The source of water is:	□ surface water in	(stream)	
	OR	⊠ groundwater in <u>Arka</u>		•
	when water is released from	m storage for use by water e date we receive your app	ws established by law or may assurance district members. blication, you will be sent the a	If your application is subject
3.	The maximum quantity of	water desired is 262.6	acre-feet OR	_ gallons per calendar year,
	to be diverted at a maximu	ım rate of <u>800</u> g	allons per minute OR	cubic feet per second.
	requested quantity of water maximum rate of diversion	r under that priority numbe and maximum quantity of	the requested maximum rate r can <u>NOT</u> be increased. Plea f water are appropriate and re ater Resources' requirements.	se be certain your requested easonable for your proposed
4.	The water is intended to be	e appropriated for (Check u	se intended):	
	(a) Artificial Recharge	(b) ⊠ Irrigation	(c) ☐ Recreational	(d) ☐ Water Power
	(e) ☐ Industrial	(f) Municipal	(g) ☐ Stockwatering	(h) ☐ Sediment Control
	(i) Domestic	(j) ☐ Dewatering	(k) ☐ Hydraulic Dredging	(I) ☐ Fire Protection
	(m) ☐ Thermal Exchange	(n) ☐ Contamination R	emediation	
	YOU <u>MUST</u> COMPLETE AND A SUBSTANTIATE YOUR REQUE	TTACH ADDITIONAL DIVISION ST FOR THE AMOUNT OF WA	OF WATER RESOURCES FORM(S TER FOR THE INTENDED USE REF	e) PROVIDING INFORMATION TO FERENCED ABOVE.
For Offi F.O2 Code _	ice Use Only: GMD Meets K.A.R. 5 RE2	5-3-1 (YES / NO) Use IRR Fee \$ 300 TR #	Source G/S County	ALB 10/18/2 By Date 2012 Check # 3012
	DWR 1-100 (Revised 05/17/2	2019) 1 0 + 4		11/2/2022

The	location of the proposed wells, pump sites or other works for diversion of water is:
Note	e: For the application to be accepted, the point of diversion location must be described to at least a 10 acre tract, unless you specifically request a 60 day period of time in which to locate the site within a specifically described, minimal legal quarter section of land.
(A)	One in the \underline{NW} quarter of the \underline{SE} quarter of the \underline{SW} quarter of Section $\underline{26}$, more particularly described as
	being near a point 3,761 feet North and 778 feet West of the Southeast corner of said section, in Township
	31 South, Range 2 East, Sumner County, Kansas.
(B)	One in the quarter of the quarter of the quarter of Section 26, more particularly
(0)	described as being near a point feet North and feet West of the Southeast corner of said
	section, in Township <u>31</u> South, Range <u>2</u> East, <u>Sumner</u> County, Kansas.
(C)	One in the quarter of the quarter of the quarter of Section <u>26</u> , more particularly
	described as being near a point feet North and feet West of the Southeast corner of said
	section, in Township 31 South, Range 2 East, Sumner County, Kansas.
(D)	One in the quarter of the quarter of the quarter of Section 26, more particularly
	described as being near a point feet North and feet West of the Southeast corner of said
	section, in Township <u>31</u> South, Range <u>2</u> East, <u>Sumner</u> County, Kansas.
wells	e source of supply is groundwater, a separate application shall be filed for each proposed well or battery o s, except that a single application may include up to four wells within a circle with a quarter (¼) mile radius ir same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well
four not t	attery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than wells in the same local source of supply within a 300 foot radius circle which are being operated by pumps to exceed a total maximum diversion rate of 800 gallons per minute and which supply water to a common ibution system.
The	owner of the point of diversion, if other than the applicant is (please print):
	(name, address and telephone number)
	(name, address and telephone number)
land	must provide evidence of legal access to, or control of, the point of diversion from the landowner or the owner's authorized representative. Provide a copy of a recorded deed, lease, easement or other document this application. In lieu thereof, you may sign the following sworn statement:
	I have legal access to, or control of, the point of diversion described in this application from the landowner or the landowner's authorized representative. I declare under penalty of perjury that the foregoing is true and correct. Executed on 2, 13, 2022. Applicant's Signature
Fail	applicant must provide the required information or signature irrespective of whether they are the landowner. ure to complete this portion of the application will cause it to be unacceptable for filing and the application will eturned to the applicant.
The	proposed project for diversion of water will consist of Battery of 4 wells, 1 Pump, 1 Pivot
and	(number of wells, pumps or dams, etc.) will be completed ASAP
The	(Month/Day/Year - each was or will be completed) first actual application of water for the proposed beneficial use was or is estimated to be ASAP
(Mo/I	Day/Year) WATER RESOURCES
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5.

6.

7.

8.

File No.

OCT 1 7 2022

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		File No
9.	Wil	I pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?
	X)	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.	sub	ou are planning to impound water, please contact the Division of Water Resources for assistance, prior to omitting the application. Please attach a reservoir area capacity table and inform us of the total acres of face drainage area above the reservoir.
		ve you also made an application for a permit for construction of this dam and reservoir with the Division of ater Resources? ☐ Yes
	•	If yes, show the Water Structures permit number here N/A
	•	If no, explain here why a Water Structures permit is not required N/A
11.	sho sec	e application <u>must</u> be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat bying the following information. On the topographic map, aerial photograph, or plat, identify the center of the ction, the section lines or the section corners and show the appropriate section, township and range numbers, so, please show the following information:
	(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.
	(b)	If the application is for groundwater, please show the location of any existing water wells of any kind within $\frac{1}{2}$ 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 $\frac{1}{2}$ mile, please advise us.
	(c)	If the application is for surface water, the names and addresses of the landowner(s) $\frac{1}{2}$ mile downstream and $\frac{1}{2}$ mile upstream from your property lines must be shown.
	(d)	The location of the proposed place of use should be shown by crosshatching on the topographic map, aerial photograph or plat.
	(e)	Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use.
		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.
12.	poi	t any application, appropriation of water, water right, or vested right file number that covers the same diversion nts or any of the same place of use described in this application. Also list any other recent modifications de to existing permits or water rights in conjunction with the filing of this application.
		WATER RESOURCES
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13.	Furnish the following well in has not been completed, gir					oundwater. If the wel
	Information below is from:		☐ Well	as complete	ed 🗆 Drillers	log attached
	Well location as shown in p	aragraph	(A)	(B)	(C)	(D)
	Date Drilled		10/25/21			
	Total depth of well		35			
	Depth to water bearing form	nation	3			
	Depth to static water level		9.10			
	Depth to bottom of pump in	take pipe	35			×
14. 15.	. Owner (owner, tenant, agent or otherwise) The owner(s) of the propert	se)	er is used, if	other than t	he applicant, is (
					•	
40	The same description and at a total and the same	(name, addr		•	•	
16.	The undersigned states that this application is submitted		et forth abo	ve is true to	the best of his/he	er knowledge and that
	Dated at/ PM	, Kansas	, this <u>13</u>	day of	oct.	2022
					(month)	(year)
	Jerry J.Ch. (Applicant Signatu	re)	_			
By	,					
2,	(Agent or Officer Sign	ature)				
	Jerry Kle (Please Print)	ein	_			
Assiste	d by JNE	<u>S</u>	FFO/ESII		Date: <u>0</u>	8/25/2022
			(0	office/title)	WATER RE	

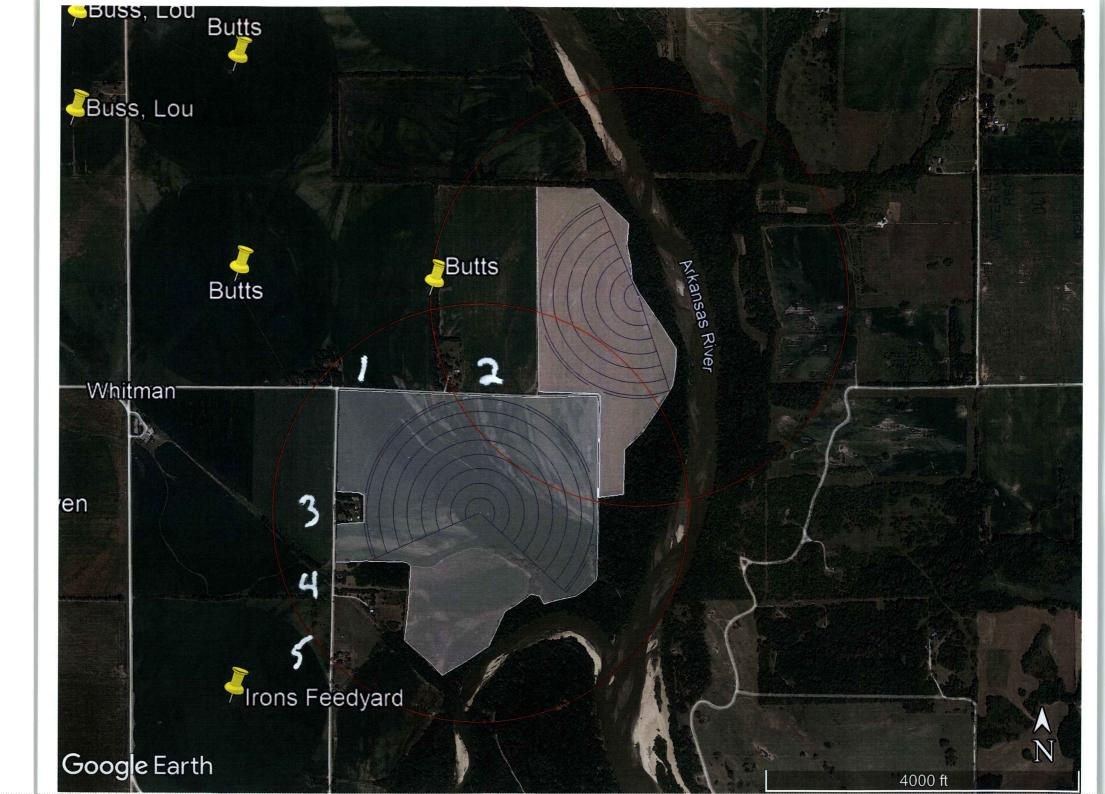
OCT 1 7 2022

File No.

Household wells in area of Section 25 & 26, T31s, R2E, Sumner County

- # 1 Darwin Reuter, 1750 E 50th Ave N, Belle Plaine KS 67013
- #2 Bevis/ Yeoman, 1774 E50th Ave N, Belle Plaine KS 67013
- #3 Len Hillier, 466 N Valley Road, Belle Plaine KS 67013
- # 4 Ernest Fincher, 444 N Valley Road, Belle Plaine KS 67013
- # 5 Scott Stewart, 436 N Valley Road, Belle Plaine KS 67013

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FEE SCHEDULE

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

> ACRE-FEET FEE 0-100 \$200.00

\$300.00 More than 320 \$300.00 plus \$20.00 for each additional 100 acre-feet or any part thereof.

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

101-320

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

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

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

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

MAKE CHECKS PAYABLE TO THE KANSAS DEPARTMENT OF AGRICULTURE

ATTENTION

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

CONVERSION FACTORS

1 acre-foot equals 325,851 gallons

1 million gallons equal 3.07 acre-feet

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IRRIGATION USE SUPPLEMENTAL SHEET

							Fi	le No											
			Nar	ne of	Appli	cant ((Pleas	e Prir	nt): <u>Je</u>	erry K	Clein							_	
1. I	Please lesign	supp ate th	oly the	e nam ıal nu	e and	addr of ac	ess o	f each be in	n land	lowned in e	er, the	legal	l desc cre tra	riptio	n of t	the la	nds to	o be in there	rrigated, and eof:
Land	lowne	er of l	Recor	d I	NAM	Е: <u>JU</u>	L Far	nily F	arm]	LL A	G GO								
				ADI	DRES	S: <u>11</u>	777 2	1st Ro	d, Ud	all, K	S 671	46							
S	Т	R		NI	Ε1/4			NV	W1/4			SV	V1/4			SI	Ξ1/4		TOTAL
	1	K	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	TOTAL
26	31	2E	37.0	37.0	26.0	38.0									16.5	7.0			161.5
25	31	2E	20		20.5														40.5
										Х									
Land	lowne	r of l	Recor	·d]	NAM	E:													
				ADI	DRES	S:													
				NI	Ε1/4			NV	V1/4			SV	V1/4			SE	E1/4		
S	T	R	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	TOTAL
																			- 1
Land	lowne	r of l	Recor	·d]	NAM	E:													
				ADI	ORES	S:													
				NI	Ε1/4			NV	V1/4			SV	V1/4			SE	E1/4		
S	T	R	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	sw	SE	NE	NW	sw	SE	TOTAL
_	-																		
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																		IDC.	S
														\	NATE	REC	EIVE	JRC	

DWR 1-100.23 (7/7/2000)

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Page 1 of 2

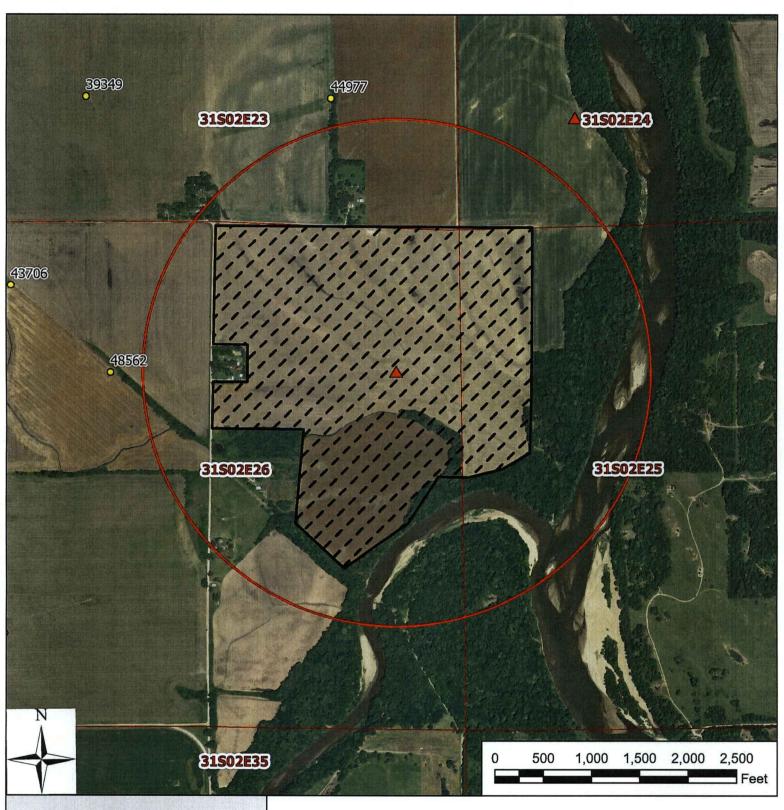
		e the following information the the total the	on for the description	of the operation for the	irrigation project. Attac
a.	Indicate th	e soils in the field(s) and t	their intake rates:		
	_ 3	Soil Jame	Percent of field	Intake Rate	Irrigation Design
	Lesho C	lay Loam	55.4	(in/hr)	215Z 4
	Lacola	Soils	6.4	5.95-19.98	6000
Brewer		on Sandy Loam	10.4	1.99-6.00	6220 3
,		Γotal:	100 %	•	
b.	Estimate th	ne average land slope in the	ne field(s):	%	
	Estimate th	ne maximum land slope in	the field(s):	Z. %	
c.	Type of irr	rigation system you propo	se to use (check one)	:	
		enter pivot eravity system (furrows)		vot - LEPA ystem (borders)	_ "Big gun" sprinkler _ Sideroll sprinkler
	Other, plea	ase describe:			
d.	System des	sign features:			
		ribe how you will control	tailwater: $\boldsymbol{\mathcal{V}}$.	1 not have	tailwater
	ii. For s	prinkler systems:			
	(1)	Estimate the operating	pressure at the distrib	oution system: 35	psi
	(2)	What is the sprinkler p	ackage design rate?	800 gpm	
	(3)	What is the wetted dian	meter (twice the dista	nce the sprinkler throws	water) of a sprinkler or
		the outer 100 feet of th	ne system?	feet	
	(4)	Please include a copy of	of the sprinkler packa	ge design information.	
e.		u intend to irrigate. Pleas			
	Cor	" Beans,	Wheat.	Cotton	
f.		cribe how you will determ		and how much water to a	apply (particularly
	Cr	op Longalta	ant		

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

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Page 2 of 2



Legend

- Water Appropriation
- **Battery Well**
- Proposed Point of Diversion
- Section Corner
- Section Line
- Proposed Place of Use

Application, File No.

17-32-3E // Cowley County

WATER RESOURCES

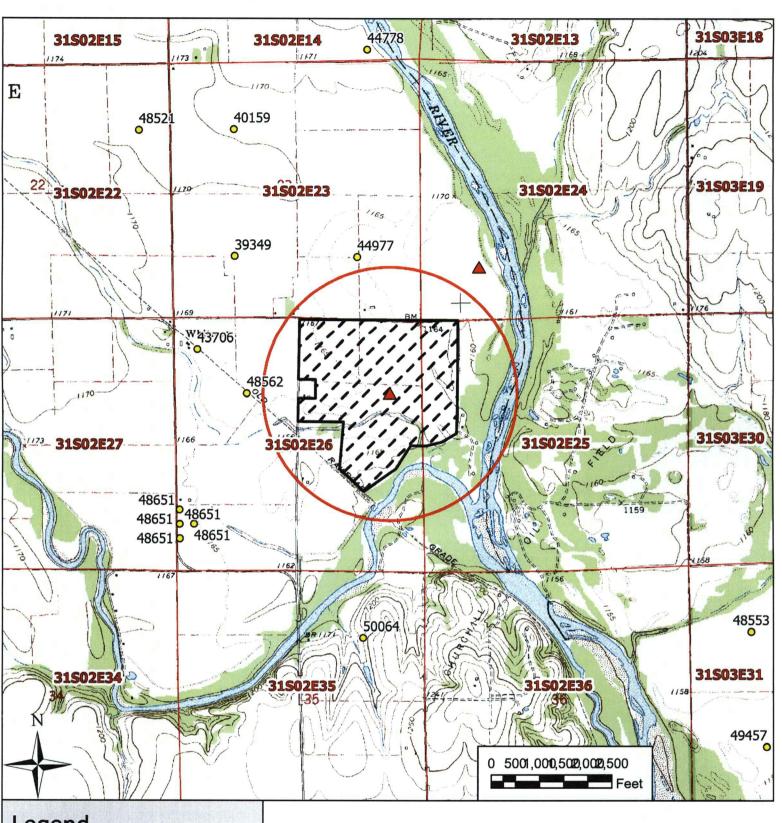
To the best of my knowledge, all points of diversion within one-half mile of the proposed point of diversion have been shown. KS DEPT OF AGRICULTURE

Signature / Date

Gct. 13-08/25/2022

JNE/SFFO

1:12,000



Legend

- Water Appropriation
- **Battery Well**
- **Proposed Point of Diversion**
- Section Corner
- Section Line
- Proposed Place of Use

Application, File No. ____

17-32-3E // Cowley County

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To the best of my knowledge, all points of diversion within one-half-mile of the proposed point of diversion have been shown.

Signature / Date

08/25/2022 JNE/SFFO 1:24,000

			CLARKE WELL & EQUIPMENT, IN	
112	24		FORMATION TEST HOLE / 2" OB WELL	PLUGGED PLUGGED
JOB NUM	MBER _	16201	LEAD 1998年	T T T T
WELL O	NNER	Jerry K	Stein WELL NO. TH-1-21	
WELLUS	SE Fo	rmation '	Test APPR. NO.	+ + + ×
LEGAL)	E 1/4]	VW 1/4 5	SE 1/4 NE 1/4 Sect 26 Twp 31 S Rng 2 E Sumner KS COUNTY STATE	
-	建筑地区域		_FEL	
GPS -	661	944	E 4132646 N Zone 14 NAD 27	
Formation			ZE HOLE 5 "DIA. Electric Log SWL 9.10 FGL	SECTION 26
FROM	ТО	FEET	FORMATION / COMMENTS	SAMPLES TAKEN
0	3		Topsoil	
3	12		Clay, dark brown, soft	
31	31		Sand, coarse to fine, with fine to medium gravel Shale, gray, green	
			Strate, gray, green	
				E DISTRIBUTE
				经 加强的预测
			THE RESIDENCE OF THE PARTY OF T	
				战 国际直流的现在分
		14	《大学》的《大学》的《大学》的《大学》的《大学》的《大学》的《大学》	医 上侧线 建筑
			· 大学	
				16 JE 19 19 19 19 19 19 19 19 19 19 19 19 19
			W W	ATER RESOURCES RECEIVED
		-		ndT 1 7 2022
				74 1 575
		1	No.	DEP OF AGRICULTURE

WELL CONSTRUCTION JOB # 16201 W		NER _	Jerry Kk	ełn		WELL NO). <u>TH</u>	-1-21		
HOLEDIA 5 TO	35	DRE	AMED O	UT FROM	"DIA HOLE	DRILLING	S METHOD	M	ud Rotary	
SIZE CASING 2					经营营业 企业的			持续地	EXPENSE NO.	
SIZE SCREEN 2			A A				是是新型物化制			
SCREEN TYPE		Mill S	lot							
CASING AND SCREEN					GRAVEL PACK	ANNULAI	RSEAL			
DESCRIPTION	FROM	то	FEET	OPENING	MATERIA		FROM	ТО	FEET	QTY
PVC Casing	0	21	21		Bentonite Chips		0	20	20	
PVC Screen	21	31	10	.032	Well Pack (Ark R	iver Sand)	20	35	15	
							1000			
	11 13 kg	- 19								
A A A A A A A A A A A A A A A A A A A										
		1000								
				I LILL			E Medical Co.			
							10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
Casing left above	ground		2							
Total Casing and			33		The Park of					
1 100 000/19 07/1										
Water Samples						Develop	The last of the la			
FROM TO CI	ppm)			OTHER TE	STS		Method		+	lours
						Air				
					THE LEE	Mark 1				
Disinfected with						Qua	ntity			
What is the nearest source	e of pos	ssible c	ontamina	ation?	医生物 计	None	Known			
Direction from well				How n	lany feet		WATE	RECEI	OURCE	5
Water level measurement	t tube in	stalled	? Y	-	公司是有限的国际的基础的国际	cking cap	installed?		(espara	No
NO	TE All	measu	rements	are from a	round level DE	SIGNED B	Y		2042	

LOCATION OF W. County: Sumner				Division of Wa				1-1-21		
	Correction Chan	The same of the sa		desources App.			Well ID			
County: Surmer	ATER WELL:	Fraction	- 1	Section Numb	per To	wnship Number				
	I/Iaia	NE ¼ NW ¼ SE		26		T 31 S	R 2 2 E			
WELL OWNER: La Business:	ist Name: Klein	First: Jerry				vell is located (if				
Address: 11777 21st	Rd		direction fr	om nearest town	or intersect	ion): If at owner's	address, check h	ere:		
Address:	Tru.		Approxin	nately 4 mile	s north o	of Oxford.				
City: Udall	State; KS	ZIP: 67146								
LOCATE WELL	4 DEPTH OF CO	MDI ETED WELL	. 33	0 5 7 4		37.328215				
WITH "X" IN	Depth(s) Groundwater	Engagetered: 1)	9.1	. II. 5 Lati	tude:	07.020215	(decima	l degrees		
SECTION BOX:		3) ft., or		Lon	gitude:	-97.17215	O(decima	l degree:		
N	WELL'S STATIC WA	ATER I EVEL:	9.10 g	1		SS 84 □ NAD 8	33 M NAD 27			
	below land surface	e, measured on (mo-	day-vr) 10/25/2			itude/Longitude: make model:				
NW NEX-	above land surface					AS enabled? Y		• • • • • • • • • • • • • • • • • • • •		
	Pump test data: Well					ey Topograph				
V E	And the second s	rs pumping				apper:				
SW SE		water was								
	Estimated Yield:0	rs pumping	gpm	6 Elevation:ft. ☐ Ground Level ☐ TOO						
S	Bore Hole Diameter: .	5 in to 3	5 e and			nd Survey GP				
mile	Bore Trole Diameter.	in. to	ft.			ner				
WELL WATER TO										
. Domestic:		ater Supply: well ID		10. 🗆 0	Oil Field V	Vater Supply: leas	e			
☐ Household		ing: how many wells		11. Tes	t Hole: w	ell IDTH-	1-21	ing and a grant		
☐ Lawn & Garden		Recharge: well ID			Cased [Uncased Ge	otechnical			
☐ Livestock	8. Monitori:	ng: well ID	· · · · · · · · · · · · · · · · · · ·			how many bores? .				
. Irrigation		ital Remediation: we				op Horizontal				
. Feedlot	Air Sparg	•	oor Extraction			D Surface Disch				
. Industrial	Recovery					cify):				
Vas a chemical/bacter		mitted to KDHE?	☐ Yes ☑ N	lo If yes, da	ite sample	e was submitted:				
Water well disinfected?	☐ Yes ☑ No									
TYPE OF CASING	USED: ☐ Steel ☑ P	VC Other	CA	SING JOINT	S: 🛮 Gh	ued Clamped [☐ Welded ☐ T	hreaded		
Casing diameter 2 Casing height above land s	in. to	., Diameter	in. to	ft., Dia	meter	in. to	ft.			
asing height above land s	urface	n. Weight	lbs	ft. Wall thi	ckness or	gauge No!?4				
TYPE OF SCREEN OR			C	m .c	Mala (C	:E \				
	iless Steel anized Steel	₽V	ne used (open		iner (Spec	ify)				
CREEN OR PERFOR			ne used (open	noie)						
Continuous Slot			Torch Cut 1	7 Drilled Hole	e 🗆 Oth	er (Specify)				
The state of the s	☐ Key Punched ☐ \			None (Open		ici (Specity)				
CREEN-PERFORATI	ED INTERVALS: Fro	in 21 ft to 3	1 ft Fro	m ft	to	ft., From	ft. to	ft.		
GRAVEL PAG	CK INTERVALS: Fro	m 20 ft to	35 ft. Fro	m ft.	to	ft., From	fl. to	ft.		
GROUT MATERIA	L: Neat cement I	Cement grout	Bentonite	Other						
	L: Neat cement [ft., From	ft. to	ft., From	n	ft. to	ft.			
rout intervals: From	e contamination: 🗸 N	lo potential source of	contamination	within 200 ft.						
rout intervals: From Searest source of possible	☐ Lateral Lin			Livestock l		☐ Insecticid				
Searest source of possible Septic Tank	Cess Pool		e Lagoon	☐ Fuel Storag			ed Water Well			
iearest source of possibl Septic Tank Sewer Lines				☐ Fertilizer S	itorage	Oil Well/	Gas Well			
Kearest source of possibl ☐ Septic Tank ☐ Sewer Lines ☐ Watertight Sewer Line										
Gearest source of possible Septic Tank Sewer Lines Watertight Sewer Line Other (Specify)		D:				Δ.				
Searest source of possible Septic Tank Sewer Lines Watertight Sewer Line Other (Specify)		Distance from	m well?				LUCCNIC DE	EDW.		
Gearest source of possible Septic Tank Sewer Lines Watertight Sewer Line Other (Specify)	LITHOLO	Distance from DGIC LOG	m well?			ft. D. LOG (cont.) or P	LUGGING INT	ERVA		
Septic Tank Sewer Lines Watertight Sewer Line Other (Specify) Of FROM TO 3	LITHOLO Fopsoil	Distance from DGIC LOG	m well?				LUGGING INT	ERVA		
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Septic Tank Sewer Lines Watertight Sewer Line Other (Specify) OFROM TO	LITHOLO Topsoil Clay, dark brown, so Sand, coarse to fine,	Distance from DGIC LOG	m well?				LUGGING INT	ERVA		
Septic Tank Sewer Lines Watertight Sewer Lines Other (Specify) Other (Spec	LITHOLO Topsoil Clay, dark brown, so Sand, coarse to fine, to medium gravel	Distance from DGIC LOG	m well?				LUGGING INT	ERVA		
Septic Tank Sewer Lines Watertight Sewer Lines Other (Specify) Other (Spec	LITHOLO Topsoil Clay, dark brown, so Sand, coarse to fine,	Distance from DGIC LOG	m well?				LUGGING INT	ERVA		
Septic Tank Sewer Lines Watertight Sewer Lines Other (Specify) Other (Spec	LITHOLO Topsoil Clay, dark brown, so Sand, coarse to fine, to medium gravel	Distance from DGIC LOG	m well?	1 TO			LUGGING INT	ERVA		
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INPUTS	
Target Section Definition	
Section	26
Township	31
Range	2
Range Direction	E
Target Point Coordinates (NAD	27 or <i>NAD83</i>)
Target Longitude	-97.172155
Target Latitude	37.328215

Load Data and Compute

Instructions

- 1. Enter values for section, township, range and range direction.
- 2. Enter NAD27 or NAD83 longitude and latitude of target point.
- 3. Click "Load Data and Compute" button.
- 4. Use feet distances corresponding to datum of target point.

26-31-2E Klein SHORE

Loaded Section Data From LEOBASE using NAD83							
Corner	Corner Latitudes	Corner Longitudes					
sw	37.31813797	-97.18757523					
NW	37.33266481	- 97.18765134					
NE	37.33229785	-97.16984382					
SE	37.31790914	-97.16979771					
Degrees	Longitude per Foot	3.43888943E-06					
Degrees	Latitude per Foot	2.74641048E-06					
_	Point Distances from C Feet North(+)/South(-)	_					
sw	3669	-4484					
NW	-1620	-4506					
NE	-1487	672					
SE	3752	685					

	Loaded Section	Data
	From LEOBASE usi	ng NAD27
Corner	Corner Latitudes	Corner Longitudes
SW	37.31811500	-97.18725600
NW	37.33264200	-97.18733200
NE	37.33227500	-97.16952500
SE	37.31788600	-97.16947900
Degrees	s Longitude per Foot	3.43888839E-06
Degrees	s Latitude per Foot	2.74598553E-06
Target	Point Distances from C	orners using NAD27
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	3678	-4391
NW	-1612	-4413
NE	-1479	765

3761

778

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Oct 13-2022 (Date)

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

ounty of Country

(Print Applicant's Name)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 13th, day of 10thours, 20 22.

) ss

Notary Public - State of Kansas My Appt. Expires 11 -15 - 25 Notary 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

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United States Department of Agriculture

NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Sumner County, Kansas

Kline Shore



OCT 17 2022

September 30, 2022

A. L

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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6060—Lincoln soils, frequently flooded	
6220—Brewer silty clay loam, rarely flooded	
6226—Canadian sandy loam, rarely flooded	

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

WATER RESOURCES RECEIVED

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

WATER RESOURCES RECEIVED

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



KS DEPT OF AGR!CULTURE

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils





Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill Lava Flow



Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water Rock Outcrop

Saline Spot

Sandy Spot Severely Eroded Spot

Sinkhole

Sodic Spot

Slide or Slip

Spoil Area

Stony Spot Very Stony Spot

Wet Spot Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes Major Roads

Local Roads

Background

Aerial Photography

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: Sumner County, Kansas Survey Area Data: Version 18, Sep 14, 2021

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

Date(s) aerial images were photographed: Jun 4, 2020—Jun 5,

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

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2152	Lesho clay loam, occasionally flooded	113.0	55.4%
6060	Lincoln soils, frequently flooded	13.1	6.4%
6220	Brewer silty clay loam, rarely flooded	56.7	27.8%
6226	Canadian sandy loam, rarely flooded	21.3	10.4%
Totals for Area of Interest		204.1	100.0%

Map Unit Descriptions

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, along with the maps, can be used to determine the composition and properties of a unit.

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.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate RECEIVED

pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

WATER RESOURCES RECEIVED

Sumner County, Kansas

2152—Lesho clay loam, occasionally flooded

Map Unit Setting

National map unit symbol: 2ywsr Elevation: 1,660 to 2,610 feet

Mean annual precipitation: 25 to 33 inches
Mean annual air temperature: 55 to 57 degrees F

Frost-free period: 180 to 200 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Lesho, occasionally flooded, and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lesho, Occasionally Flooded

Setting

Landform: Flood plains Down-slope shape: Linear Across-slope shape: Linear

Parent material: Loamy alluvium over sandy alluvium

Typical profile

Ap - 0 to 14 inches: clay loam AC - 14 to 32 inches: clay loam 2C - 32 to 79 inches: sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: 20 to 39 inches to abrupt textural change

Drainage class: Somewhat poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.60 in/hr)

Depth to water table: About 24 to 48 inches

Frequency of flooding: Occasional Frequency of ponding: None

Calcium carbonate, maximum content: 20 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 3.0

Available water supply, 0 to 60 inches: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): 3w Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: C

Ecological site: R079XY132KS - Subirrigated

Hydric soil rating: No

Minor Components

Platte, occasionally flooded

Percent of map unit: 4 percent

WATER RESOURCES RECEIVED

Landform: Flood plains Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R079XY132KS - Subirrigated

Hydric soil rating: No

Canadian

Percent of map unit: 4 percent Landform: Flood plains Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R079XY123KS - Sand Floodplain

Hydric soil rating: No

Dale, rarely flooded

Percent of map unit: 2 percent

Landform: Flood plains

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R080AY050OK - Loamy Bottomland

Hydric soil rating: No

Lincoln

Percent of map unit: 2 percent Landform: Flood plains Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R079XY123KS - Sand Floodplain

Hydric soil rating: No

Aquolls, occasionally ponded

Percent of map unit: 1 percent Landform: Depressions Down-slope shape: Concave Across-slope shape: Concave

Ecological site: R079XY132KS - Subirrigated

Hydric soil rating: Yes

Zenda

Percent of map unit: 1 percent Landform: Flood plains Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R079XY132KS - Subirrigated

Hydric soil rating: No

Sweetwater

Percent of map unit: 1 percent

Landform: Flood plains

Ecological site: R072XY102KS - Saline Subirrigated

Hydric soil rating: Yes

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6060—Lincoln soils, frequently flooded

Map Unit Setting

National map unit symbol: 1kh80 Elevation: 700 to 2,000 feet

Mean annual precipitation: 24 to 31 inches Mean annual air temperature: 45 to 70 degrees F

Frost-free period: 205 to 265 days

Farmland classification: Not prime farmland

Map Unit Composition

Lincoln, frequently flooded, and similar soils: 99 percent

Minor components: 1 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lincoln, Frequently Flooded

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

A - 0 to 10 inches: loamy fine sand

C - 10 to 60 inches: stratified fine sand to clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95

to 19.98 in/hr)

Depth to water table: About 60 to 72 inches Frequency of flooding: FrequentNone

Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Available water supply, 0 to 60 inches: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: A

Ecological site: R080AY068OK - Sandy Bottomland

Hydric soil rating: No

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Minor Components

Aquolls, occasionally flooded

Percent of map unit: 1 percent

Landform: Hillslopes, drainageways, depressions

Down-slope shape: Concave Across-slope shape: Concave

Hydric soil rating: Yes

6220—Brewer silty clay loam, rarely flooded

Map Unit Setting

National map unit symbol: 2wtx9 Elevation: 980 to 1.660 feet

Mean annual precipitation: 31 to 38 inches Mean annual air temperature: 54 to 57 degrees F

Frost-free period: 175 to 200 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Brewer, rarely flooded, and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Brewer, Rarely Flooded

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

Ap - 0 to 12 inches: silty clay loam
Bt - 12 to 42 inches: silty clay
BC - 42 to 79 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: High (about 9.6 inches)

WATER RESOURCES

001 1 7 1022

Interpretive groups

Land capability classification (irrigated): 1 Land capability classification (nonirrigated): 1

Hydrologic Soil Group: C

Ecological site: R076XY113KS - Loamy Lowland

Hydric soil rating: No

Minor Components

Verdigris, occasionally flooded

Percent of map unit: 10 percent

Landform: Flood plains Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R076XY113KS - Loamy Lowland

Hydric soil rating: No

Osage, ponded

Percent of map unit: 5 percent Landform: Flood plains Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R076XY104KS - Clay Lowland

Hydric soil rating: Yes

6226—Canadian sandy loam, rarely flooded

Map Unit Setting

National map unit symbol: 1kh85 Elevation: 800 to 1,300 feet

Mean annual precipitation: 24 to 31 inches Mean annual air temperature: 45 to 70 degrees F

Frost-free period: 168 to 215 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Canadian, rarely flooded, and similar soils: 99 percent

Minor components: 1 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Canadian, Rarely Flooded

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

Ap - 0 to 10 inches: sandy loam

WATER RESOURCES RECEIVED

Custom Soil Resource Report

Bw - 10 to 40 inches: fine sandy loam C - 40 to 60 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: RareNone Frequency of ponding: None

Available water supply, 0 to 60 inches: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: A

Ecological site: R080AY050OK - Loamy Bottomland

Hydric soil rating: No

Minor Components

Aquolls, occasionally flooded

Percent of map unit: 1 percent

Landform: Hillslopes, drainageways, depressions

Down-slope shape: Concave Across-slope shape: Concave

Hydric soil rating: Yes

WATER RESOURCES RECEIVED

OCT 1 7 2022

WATER RESOURCES RECEIVED



Valley Dealer

INMAN IRRIGATION 892 ARAPAHO ROAD INMAN, KS 67546-8002 United States

Dealer No.

00003440

Parent Order No.
Sprinkler Order No.Kline Jerry Shore

Plant VALLEY SHIPPING

Customer

Jerry Kline 11777 21st rd Udall, KS 67146-7455 US

Field Name

Kline, Jerry Shore Pivot

Dealer PO

Order Date **09/30/2022**

Load Date 10/05/2022

Method Of Shipment UPSG

8 Span Valley Standard Pivot 8000 Machine Flow 800 (GPM) Pivot Pressure 35 (PSI)

Customer Jerry Kline

Field Name Kline, Jerry Shore Pivot

Valley Standard Pivot 8000 Machine Summary

Span and	l Overhang
----------	------------

			Pipe	Coupler		D. U.	
Model	Qty	Length	O.D.	Spacing	Qty	Profile	Tire
		(ft)	(in)	(in)			
8000	3	184.8	6 5/8	108	21	Standard	11.2 x 38
8000	4	180.0	6 5/8	108	20	Standard	11.2 x 38
8000	1	160.0	6 5/8	108	18	Standard	11.2 x 38
8000	1	36.0	6 5/8	110	6		

Field Area Flow 175.8 (Ac) Total 800 (GPM) 4.55 (GPM per Acre) 156.2 (Ac) Pivot 360° 19.6 (Ac) EG on 100% 0.24 (in per day) App Rate 0.161 (in) App Depth @ 100% 1471.8 (ft) Machine Length

Messages

Caution:

- 1. I-Wob, Orbitor, Twister and Nutator sprinklers require at least 24 in (61 cm) of drop hose. Do not use slip weights or rigid drop materials. Do not
- 2. install integrated weights on drop with double I-Wob or Nutator sprinklers.

Dealer: None

Sprinkler -- Available Outlets

1402.71 (ft) Total Drop Hose Length

Sprinkler Configuration	Range(ft)	
Senninger U-Pipe 6(in) Plastic 3/4 M NPT x 3/4 M Hose	Outlets 3,21,1	
Blue Premium Hose Drop Variable Length 72(in) Ground C		
Wellow Developed BCD 4 10/DCD 2/4 F NDT	163,164	
Valley Regulator PSR-2 10(PSI) 3/4 F NPT	166,167	
Senninger Magnum-Threaded Integrated Weight 0.85		
Senninger I-Wob2 - UP3 Std Angle 3/4 M NPT		14

LRDU Drive Train

89.4 (ft) End Gun Radius

35 (PSI) Pivot Pressure Inlet Pressure

Pressure

0.0 (ft) Highest Elevation

0.0 (ft) Lowest Elevation

34 RPM Center Drive @60 Hz freq.

11.2 x 38 Tire

52:1 Wheel GB Ratio, LRDU Dist 1435.6 (ft) 16.0 Hrs/360° @ 100% **9.45** (Ft per Min)

91.9 (GPM)

End Gun

DEPT OF AGRICULTURE

16 Hrs/360° @ 100%

Cover Sheet - 09/30/2022

KS DEPT OF AGRICULTURE

Dealer INMAN IRRIGATION

Customer Jerry Kline

Field Name Kline, Jerry Shore Pivot

Valley Standard Pivot 8000 Machine Summary

Pressure Loss

			Total =	= 10.8	
18.1	3.79	Galvanized	150	0.3	
1453.7	6.42	Galvanized	150	10.5	
Length (ft)	I.D. (in)	<u>Finish</u>	C-Factor	(PSI)	
Pipe	Pipe	Pipe		Loss	

End Gun(s) & Booster Pump Information

Primary End Gun

Nelson SR75 End Gun
0.65 Nozzle

Berkeley 2 HP Booster Pump

Span Flow

	Drain Sprinkle		9.2	8.8			
Totals		175.7		792.2			
EG	89.4	19.6	89.2	91.9	4.56	4.70	3.1
O/H	36.2	7.6	34.9	34.8	4.60	4.59	-0.2
8	159.8	31.2	139.7	139.7	4.47	4.47	-0.0
7	180.1	30.8	137.7	137.5	4.47	4.46	-0.2
6	180.1	26.1	116.8	116.7	4.47	4.47	-0.1
5	180.1	21.4	95.9	95.9	4.47	4.47	0.0
4	180.1	16.8	75.0	75.2	4.47	4.49	0.4
3	184.9	12.3	55.2	55.1	4.47	4.47	-0.1
2	184.9	7.4	33.2	33.2	4.47	4.47	0.0
1	170.2	2.5	11.0	12.2	4.47	4.92	10.1
Number	Length (ft)	(Ac)	(GPM)	(GPM)	(GPM per Acre)	(GPM per Acre) %	Deviation
Span	Irrigated	Area	Rqd	Act	Rqd	Act	

Advanced Options

Drain Sprinkler = Senninger Directional Last Sprinkler Coverage = 1 ft Sprinkler Coverage Length = 1472.8 ft Use Last Coupler= YES Minimum Mainline Pressure = 6 PSI

Shipping Options

Ш	
	Ship Drop Hardware Ship Endgun Nozzle Ship Endgun & Hardware Do not ship Endgun Valve / Nozzle Valve Hardware Do not ship Boosterpump Hardware
ı	Ship Endgun Nozzle
I	Ship Endgun & Hardware
I	Do not ship Endgun Valve / Nozzle Valve Hardware
	Do not ship Boosterpump Hardware
ш	<u> </u>

Sprinkler Order No Kline Jerry Shore

Dealer INMAN IRRIGATION

Customer Jerry Kline

Field Name Kline, Jerry Shore Pivot

Valley Standard	Pivot 8000	Machine	Sprinkler	Chart
vaney Standard	LIANT OUR	Maciline	Sprinkler	Chart

					Valley Standard P	ivot 8000 Machine	Sprinkler Chart					Ø
Cpl	Dist	Spk	Dist	Nozzle	Color	Spk	Wear	Drop	Regulator	Line	Spk	Rad Act
No	From	No	Last	Size		Model	Pad	Length		(PSI)	(PSI)	(GPM) (GPM)
	Pivot		Spk					(in)				SOU EIVEI
	(ft)		(ft)									0
												ER REC
1	5.4			Gauge						35.0		WATER RE
2	14.4			Plug								N.
	Sp	rink	ler : Senn:	inger Iwo	b2 - Up3							
					-							
3	23.4	1		6	Gold	I-Wob2 - UP3	Std Angle Black	95	PSR-2 10A	34.3	11.4	0.3 0.9
4	32.4			Plug								
5	41.4	2	18.0	6	Gold	I-Wob2 - UP3	Std Angle Black	105	PSR-2 10A	33.8	11.4	0.5 0.9
6	49.9			Plug			· ·					
7	58.3	3	16.9	6	Gold	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	33.3	11.4	0.6 0.9
8	66.8			Plug								
9	75.3	4	16.9	6	Gold	I-Wob2 - UP3	Std Angle Black	117	PSR-2 10A	33.0	11.4	0.9 0.9
10	84.3			Plug								
11	93.3	5	18.0	6.5	Gold Notched	I-Wob2 - UP3	Std Angle Black	119	PSR-2 10A	32.7	11.4	1.1 1.0
12	102.3			Plug								
13	111.3	6	18.0	7.5	Lime Notched	I-Wob2 - UP3	Std Angle Black	118	PSR-2 10A	32.5	11.4	1.2 1.4
14	119.7			Plug								
15	128.1	7	16.8	7.5	Lime Notched	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	32.4	11.4	1.4 1.4
16	136.5			Plug								
17	145.0	8	16.9	8	Lavender	I-Wob2 - UP3	Std Angle Black	110	PSR-2 10A	32.4	11.4	1.6 1.5
18	154.0			Plug								
19	163.0	9	18.0	9	Grey	I-Wob2 - UP3	Std Angle Black	101	PSR-2 10A	32.5	11.4	1.9 1.9
20	172.0		40.0	Plug								
21	181.0	10	18.0	8	Lavender	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	32.7	11.4	1.6 1.5
	185.6		Tower Num		Span Length(ft): 184.6							
22	190.3	11	9.3	7	Lime	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A		11.4	1.1 1.2
23	199.3	12	9.0	7	Lime	I-Wob2 - UP3	Std Angle Black	96	PSR-2 10A		11.4	1.2 1.2
24	208.3	13	9.0	7	Lime	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A		11.4	1.2 1.2
25	217.3	14 15	9.0	7.5	Lime Notched	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A		11.4	1.3 1.4
26 27	234.8	16	9.0		Lime Lime Notched	I-Wob2 - UP3	Std Angle Black	111	PSR-2 10A		11.4	1.3 1.2
28	243.2	17	8.5	7.5 7.5		I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A		11.4	1.3 1.4
28	243.2	17	0.4	1.5	Lime Notched	I-Wob2 - UP3	Std Angle Black	117	PSR-2 10A	31.0	11.4	1.3 1.4

Customer Jerry Kline

Field Name Kline, Jerry Shore Pivot

Valley Standard Pivot 8000 Machine Sprinkler Chart

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Cpl	Dist From	Spk No	Dist	Nozzle	Color	Spk Model	Wear Pad	Drop	Regulator	Line	Spk (PSI)	Rqd (QPM)	Act
No	Pivot	NO	Last Spk	Size		Model	Pau	Length (in)		(FSI)	(PSI)	E C	(GPM)
	(ft)		(ft)					(211)				VED	2
29	251.6	18	8.4	7.5	Lime Notched	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	30.8	11.4	E E	
30	260.1	19	8.5	8	Lavender	I-Wob2 - UP3	Std Angle Black	121	PSR-2 10A	30.7	11.4		1.5
31	269.1	20	9.0	8	Lavender	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	30.5	11.4		1.5
32	278.1	21	9.0	8	Lavender	I-Wob2 - UP3	Std Angle Black	123	PSR-2 10A	30.4	11.4	136	1.5
33	287.1	22	9.0	8.5	Lavender Notched	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	30.3	11.4	1.7	1.7
34	296.1	23	9.0	8	Lavender	I-Wob2 - UP3	Std Angle Black	121	PSR-2 10A	30.3	11.4	1.7	1.5
35	304.5	24	8.4	8.5	Lavender Notched	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	30.2	11.4	1.7	1.7
36	312.9	25	8.4	8.5	Lavender Notched	I-Wob2 - UP3	Std Angle Black	117	PSR-2 10A	30.2	11.4	1.7	1.7
37	321.4	26	8.4	8.5	Lavender Notched	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	30.2	11.4	1.8	1.7
38	329.9	27	8.5	8.5	Lavender Notched	I-Wob2 - UP3	Std Angle Black	111	PSR-2 10A	30.3	11.4	1.9	1.7
39	338.9	28	9.0	9	Grey	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	30.3	11.4	2.0	1.9
40	347.9	29	9.0	9.5	Grey Notched	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	30.4	11.4	2.0	2.2
41	356.9	30	9.0	9	Grey	I-Wob2 - UP3	Std Angle Black	96	PSR-2 10A	30.5	11.4	2.1	1.9
42	365.9	31	9.0	9.5	Grey Notched	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	30.6	11.4	2.2	2.2
	370.5		Tower	Number: 2	Span Length(ft): 184.9								
43	375.2	32	9.3	9.5	Grey Notched	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	30.5	11.4	2.2	2.2
44	384.2	33	9.0	10	Turquoise	I-Wob2 - UP3	Std Angle Black	96	PSR-2 10A	30.2	11.4	2.2	2.4
45	393.2	34	9.0	9.5	Grey Notched	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	29.9	11.4	2.3	2.2
46	402.2	35	9.0	10	Turquoise	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	29.7	11.4	2.3	2.4
47	411.2	36	9.0	10	Turquoise	I-Wob2 - UP3	Std Angle Black	111	PSR-2 10A	29.4	11.4	2.3	2.4
48	419.7	37	8.5	9.5	Grey Notched	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	29.2	11.4	2.3	2.2
49	428.1	38	8.4	10	Turquoise	I-Wob2 - UP3	Std Angle Black	117	PSR-2 10A	29.0	11.4	2.3	2.4
50	436.5	39	8.4	10	Turquoise	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	28.8	11.4	2.4	2.4
51	445.0	40	8.5	10	Turquoise	I-Wob2 - UP3	Std Angle Black	121	PSR-2 10A	28.7	11.3	2.5	2.4
52	454.0	41	9.0	10.5	Turq Notched	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	28.6	11.3	2.6	2.6
53	463.0	42	9.0	10.5	Turq Notched	I-Wob2 - UP3	Std Angle Black	123	PSR-2 10A	28.5	11.3		2.6
54	472.0	43	9.0	11	Yellow	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	28.4	11.3	2.7	2.9
55	481.0	44	9.0	10.5	Turq Notched	I-Wob2 - UP3	Std Angle Black	121	PSR-2 10A	28.3	11.3	2.7	2.6
56	489.4	45	8.4	10.5	Turq Notched	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	28.3	11.3		2.6
57	497.8	46	8.4	10.5	Turq Notched	I-Wob2 - UP3	Std Angle Black	117	PSR-2 10A	28.3	11.3		2.6
58	506.2	47	8.4	11	Yellow	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	28.3	11.3	2.8	
59	514.7	48	8.5	11	Yellow	I-Wob2 - UP3	Std Angle Black	111	PSR-2 10A	28.4	11.3		2.9
60	523.7	49	9.0	11.5	Yellow Notched	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	28.4	11.3	3.0	3.2

Customer Jerry Kline

Field Name Kline, Jerry Shore Pivot

Valley Standard Pivot 8000 Machine Sprinkler Chart

	Cpl No	Dist From Pivot	Spk No	Dist Last Spk	Nozzle Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	SOURS) IVED (WAD)	Act (GPM)
_		(ft)		(ft)				 	100	505.0.101		44.0	SIL	
	61	532.7	50	9.0	11	Yellow	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	28.5	11.3	T. L	2.9
	62	541.7	51	9.0	11.5	Yellow Notched	I-Wob2 - UP3	Std Angle Black	96	PSR-2 10A	28.7	11.3	AX IV	3.2
	63	550.7	52	9.0	11.5	Yellow Notched	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	28.8	11.3	3/33	3.2
		555.4			Iumber : 3	Span Length(ft): 184.9		 						
	64	560.1	53	9.3	12	Red	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	28.7	11.3	3.3	
	65	569.1	54	9.0	11.5	Yellow Notched	I-Wob2 - UP3	Std Angle Black	97	PSR-2 10A	28.4	11.3	3.3	
	66	578.1	55	9.0	12	Red	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A		11.3	3.4	3.4
	67	587.1	56	9.0	12	Red	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A		11.3	3.4	3.4
	68	596.1	57	9.0	12	Red	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	27.6	11.3	3.5	3.4
	69	605.1	58	9.0	12	Red	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A		11.3	3.5	3.4
	70	614.1	59	9.0	12.5	Red Notched	I-Wob2 - UP3	Std Angle Black	118	PSR-2 10A	27.2	11.3	3.6	3.7
	71	623.1	60	9.0	12	Red	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	27.1	11.3	3.6	3.4
	72	632.1	61	9.0	12.5	Red Notched	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	26.9	11.3	3.7	3.7
	73	641.1	62	9.0	12.5	Red Notched	I-Wob2 - UP3	Std Angle Black	123	PSR-2 10A	26.8	11.3	3.7	3.7
	74	650.0	63	8.9	12.5	Red Notched	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	26.8	11.3	3.8	3.7
	75	659.0	64	9.0	12.5	Red Notched	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	26.7	11.3	3.8	3.7
	76	668.0	65	9.0	13	White	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	26.7	11.3	3.9	4.1
	77	677.0	66	9.0	12.5	Red Notched	I-Wob2 - UP3	Std Angle Black	118	PSR-2 10A	26.7	11.3	3.9	3.7
	78	686.0	67	9.0	13	White	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	26.7	11.2	4.0	4.1
	79	694.8	68	8.9	13	White	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	26.8	11.2	4.0	4.1
	80	703.8	69	9.0	13	White	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	26.9	11.2	4.1	4.1
	81	712.8	70	9.0	13	White	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	27.0	11.2	4.1	4.1
	82	721.8	71	9.0	13.5	White Notched	I-Wob2 - UP3	Std Angle Black	97	PSR-2 10A	27.1	11.2	4.2	4.4
	83	730.8	72	9.0	13.5	White Notched	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	27.3	11.2	4.3	4.4
		735.5		Tower N	Number: 4	Span Length(ft): 180.1								
	84	740.2	73	9.3	13.5	White Notched	I-Wob2 - UP3	 Std Angle Black	90	PSR-2 10A	27.2	11.2	4.4	4.4
	85	749.2	74	9.0	13.5	White Notched	I-Wob2 - UP3	Std Angle Black	97	PSR-2 10A	26.9	11.2	4.3	4.4
	86	758.2	75	9.0	13.5	White Notched	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	26.6	11.2	4.4	4.4
	87	767.2	76	9.0	13.5	White Notched	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	26.4	11.2	4.5	4.4
	88	776.2	77	9.0	13.5	White Notched	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	26.2	11.2	4.5	4.4
	89	785.2	78	9.0	14	Blue	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	26.0	11.2	4.6	4.7
	90	794.2	79	9.0	14	Blue	I-Wob2 - UP3	Std Angle Black	118	PSR-2 10A	25.8	11.2	4.6	4.7
	91	803.2	80	9.0	14	Blue	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	25.7	11.2	4.7	4.7

Customer Jerry Kline

Field Name Kline, Jerry Shore Pivot

	Valley Standard Pivot 8000 Machine Sprinkler Chart											
Cpl No	Dist From Pivot (ft)	Spk No	Dist Last Spk (ft)		Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Act (AM)
92	812.2	81	9.0	14	Blue	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	25 6	11.2	4.714.7
93	821.2	82	9.0	14	Blue	I-Wob2 - UP3	Std Angle Black	123	PSR-2 10A		11.2	4.8
94	830.1	83	8.9	14	Blue	I-Wob2 - UP3	Std Angle Black	123	PSR-2 10A		11.2	4 8 4.7
95	839.1	84	9.0	14.5	Blue Notched	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A		11.2	4.9 5.0
96	848.1	85	9.0	14	Blue	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A		11.2	4.9 4.7
97	857.1	86	9.0	14.5	Blue Notched	I-Wob2 - UP3	Std Angle Black	118	PSR-2 10A		11.2	5.0 5.0
98	866.1	87	9.0	14.5	Blue Notched	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A		11.2	5.0 5.0
99	875.0	88	8.9	14.5	Blue Notched	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	25.5	11.2	5.0 5.0
100	884.0	89	9.0	14.5	Blue Notched	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	25.6	11.2	5.1 5.0
101	893.0	90	9.0	15	Dark Brown	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	25.8	11.1	5.2 5.4
102	902.0	91	9.0	15	Dark Brown	I-Wob2 - UP3	Std Angle Black	97	PSR-2 10A	25.9	11.1	5.2 5.4
103	911.0	92	9.0	15	Dark Brown	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	26.1	11.1	5.4 5.4
	915.6		Tower	Number: 5	Span Length(ft): 180.1							
104	920.3	93	9.3	15	Dark Brown	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	26.1	11.1	5.4 5.4
105	929.3	94	9.0	15	Dark Brown	I-Wob2 - UP3	Std Angle Black	97	PSR-2 10A	25.8	11.1	5.4 5.4
106	938.3	95	9.0	15	Dark Brown	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	25.5	11.1	5.4 5.4
107	947.3	96	9.0	15	Dark Brown	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	25.3	11.1	5.5 5.4
108	956.3	97	9.0	15.5	Dark Brn Notched	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	25.1	11.1	5.5 5.7
109	965.3	98	9.0	15.5	Dark Brn Notched	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	24.9	11.1	5.6 5.7
110	974.3	99	9.0	15.5	Dark Brn Notched	I-Wob2 - UP3	Std Angle Black	118	PSR-2 10A	24.8	11.1	5.7 5.7
111	983.3	100	9.0	15.5	Dark Brn Notched	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	24.7	11.1	5.7 5.7
112	992.3	101	9.0	15.5	Dark Brn Notched	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	24.6	11.1	5.8 5.7
113	1001.3	102	9.0	15.5	Dark Brn Notched	I-Wob2 - UP3	Std Angle Black	123	PSR-2 10A	24.5	11.1	5.8 5.7
114	1010.2	103	8.9	15.5	Dark Brn Notched	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	24.5	11.1	5.8 5.7
	1019.2		9.0	15.5	Dark Brn Notched	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	24.4	11.1	5.9 5.7
116	1028.2	105	9.0	16	Orange	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	24.5	11.1	6.0 6.1
	1037.2		9.0	16	Orange	I-Wob2 - UP3	Std Angle Black	118	PSR-2 10A	24.5	11.1	6.0 6.1
	1046.2		9.0	16	Orange	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	24.6	11.1	6.0 6.1
	1055.1		8.9	16	Orange	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	24.7	11.1	6.1 6.1
	1064.1		9.0	16	Orange	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	24.8	11.1	6.2 6.1
	1073.1		9.0	16	Orange	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	24.9	11.0	6.2 6.1
	1082.1		9.0	16.5	Orange Notched	I-Wob2 - UP3	Std Angle Black	97	PSR-2 10A	25.1	11.0	6.3 6.5
123	1091.1	112	9.0	16.5	Orange Notched	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	25.3	11.0	6.4 6.5

Customer Jerry Kline

Field Name Kline, Jerry Shore Pivot

Valley Standard Pivot 8000 Machine Sprinkler Chart

Cpl No	Dist From Pivot (ft)	Spk No	Dist Last Spk (ft)	Size	Color	Spk Model	Wear Pad	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	Rgd Act (GPM) (GPM)
	1095.7		Tower	Number: 6	Span Length(ft): 180.1							
124	1100.4	113	9.3	16.5	Orange Notched	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	25.3	11.0	6.5 6.5
125	1109.4	114	9.0	16.5	Orange Notched	I-Wob2 - UP3	Std Angle Black	97	PSR-2 10A	25.0	11.0	6.5
126	1118.4	115	9.0	16.5	Orange Notched	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	24.8	11.0	6.5
127	1127.4	116	9.0	16.5	Orange Notched	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	24.6	11.0	6.5 6.5
128	1136.4	117	9.0	16.5	Orange Notched	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	24.4	11.0	6.6 6.5
129	1145.4	118	9.0	17	Dark Green	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	24.2	11.0	6.6 6.8
130	1154.4	119	9.0	16.5	Orange Notched	I-Wob2 - UP3	Std Angle Black	118	PSR-2 10A	24.1	11.0	6.7 6.5
131	1163.4	120	9.0	17	Dark Green	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	24.0	11.0	6.8 6.8
132	1172.4	121	9.0	17	Dark Green	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	23.9	11.0	6.8 6.8
133	1181.4	122	9.0	17	Dark Green	I-Wob2 - UP3	Std Angle Black	123	PSR-2 10A	23.9	11.0	6.8 6.8
134	1190.3	123	8.9	17	Dark Green	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	23.8	11.0	6.9 6.8
135	1199.3	124	9.0	17	Dark Green	I-Wob2 - UP3	Std Angle Black	122	PSR-2 10A	23.9	11.0	7.0 6.8
136	1208.3	125	9.0	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	120	PSR-2 10A	23.9	10.9	7.0 7.3
137	1217.3	126	9.0	17	Dark Green	I-Wob2 - UP3	Std Angle Black	118	PSR-2 10A	23.9	11.0	7.1 6.8
138	1226.3	127	9.0	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	115	PSR-2 10A	24.0	10.9	7.1 7.3
139	1235.2	128	8.9	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	24.1	10.9	7.1 7.3
140	1244.2	129	9.0	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	107	PSR-2 10A	24.3	10.9	7.2 7.3
141	1253.2	130	9.0	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	24.4	10.9	7.3 7.3
142	1262.2	131	9.0	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	97	PSR-2 10A	24.6	10.9	7.3 7.2
143	1271.2	132	9.0	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	90	PSR-2 10A	24.8	10.9	7.5 7.2
	1275.8		Tower	Number: 7	Span Length(ft): 180.1							
144	1280.5	133	9.3	18	Purple	I-Wob2 - UP3	Std Angle Black	89	PSR-2 10A	24.9	10.9	7.6 7.7
145	1289.5	134	9.0	18	Purple	I-Wob2 - UP3	Std Angle Black	94	PSR-2 10A	24.7	10.9	7.5 7.7
146	1298.5	135	9.0	18	Purple	I-Wob2 - UP3	Std Angle Black	99	PSR-2 10A	24.5	10.9	7.5 7.7
147	1307.5	136	9.0	18	Purple	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	24.4	10.9	7.6 7.7
148	1316.5	137	9.0	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	106	PSR-2 10A	24.2	10.9	7.4 7.2
149	1325.0	138	8.5	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	108	PSR-2 10A	24.1	10.9	7.2 7.3
150	1333.4	139	8.4	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	110	PSR-2 10A	24.1	10.9	7.2 7.3
151	1341.8	140	8.4	17.5	Dark Grn Notched	I-Wob2 - UP3	Std Angle Black	111	PSR-2 10A	24.0	10.9	7.3 7.3
152	1350.3	141	8.5	18	Purple	I-Wob2 - UP3	Std Angle Black	111	PSR-2 10A	24.0	10.9	7.6 7.7
153	1359.3	142	9.0	18	Purple	I-Wob2 - UP3	Std Angle Black	112	PSR-2 10A	24.0	10.9	7.9 7.7
154	1368.3	143	9.0	18.5	Purple Notched	I-Wob2 - UP3	Std Angle Black	111	PSR-2 10A	24.0	10.8	7.9 8.1
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Customer Jerry Kline

Field Name Kline, Jerry Shore Pivot

	Valley Standard Pivot 8000 Machine Sprinkler Chart											
Cpl No	Dist From Pivot	Spk No	Dist Last Spk		Color	Spk Model	Wear	Drop Length (in)	Regulator	Line (PSI)	Spk (PSI)	ROD ACT (GNOSE)
155	(ft) 1377.3	144	(ft) 9.0	18.5	Purple Notched	I-Wob2 - UP3	Std Angle Black	110	PSR-2 10A	24.0	10.8	8.0118.1
156	1386.3	145	9.0	18.5	Purple Notched	I-Wob2 - UP3	Std Angle Black	108	PSR-2 10A	24.1	10.8	8.8 2018
157	1395.2	146	8.9	18.5	Purple Notched	I-Wob2 - UP3	Std Angle Black	105	PSR-2 10A	24.2	10.8	8.1
158	1404.2	147	9.0	18.5	Purple Notched	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	24.3	10.8	8.1 8.1
159	1413.2	148	9.0	18.5	Purple Notched	I-Wob2 - UP3	Std Angle Black	99	PSR-2 10A	24.4	10.8	8.2 8.1
160	1422.2	149	9.0	18.5	Purple Notched	I-Wob2 - UP3	Std Angle Black	94	PSR-2 10A	24.5	10.8	8.3 8.1
161	1431.2	150	9.0	18.5	Purple Notched	I-Wob2 - UP3	Std Angle Black	89	PSR-2 10A	24.7	10.8	8.2 8.1
162	1435.0 1435.6		Tower	B.P. Number: 8	Span Length(ft): 159.8							
163	1440.0	151	8.8	19	Black	I-Wob2 - UP3	Std Angle Black	89	PSR-2 10A	24.7	10.8	8.3 8.5
164	1449.2	152	9.2	19	Black	I-Wob2 - UP3	Std Angle Black	93	PSR-2 10A	24.6	10.8	8.5 8.5
165	1452.7			Plug								
166	1458.1	153	8.9	19	Black	I-Wob2 - UP3	Std Angle Black	97	PSR-2 10A	24.4	10.8	8.5 8.5
167	1467.3	154	9.2	20	Dark Turquoise	I-Wob2 - UP3	Std Angle Black	102	PSR-2 10A	24.2	10.6	9.6 9.3
		Spri	nkler	: Senninger :	Spray							
168	1470.8	155		16	Orange	Directional				24.1	24.1	9.2 8.8
	1471.8			Overhang	Span Length(ft): 36.2							

Sprinkler : Nelson Endgun



169 1471.8 **156** 0.65 SR75 24.1 55.5 89.2 91.9

Primary Endgun Arc Settings: Forward Angle: 45 Reverse Angle: 80

801.0

INMAN IRRIGATION

Jerry Kline Customer

Field Name Kline, Jerry Shore Pivot



Sprinkler Order No Kline Jerry Shore

Parent Order No

Valley Standard Pivot 8000 Percent Timer Data

Setup In

Information - Valle	ey Computer Control P	anel Water Application Constan	its: Minimum Application = 0.161	(in) Hours/360	° = 16
Based on IN			Based on % Time	r	
IN Per	Pivot	Hours Per	Pivot	IN Per	Hours Per
60 degrees	% Timer	360 degrees	% Timer	360 degrees	360 degrees
0.161	100.0	16.0	100.0	0.161	16.0
0.20	80.4	10 0	90.0	0.18	17 8

IN Per	Pivot	Hours Per
360 degrees	% Timer	360 degrees
0.161	100.0	16.0
0.20	80.4	19.9
0.30	53.6	29.9
0.40	40.2	39.8
0.50	32.2	49.7
0.60	26.8	59.7
0.70	23.0	69.6
0.80	20.1	79.6
0.90	17.9	89.4
1.00	16.1	99.4
1.25	12.9	124.0
1.50	10.7	149.5
1.75	9.2	173.9
2.00	8.0	200.0
2.50	6.4	250.0
3.00	5.4	296.3

Duscu on 70 111			0)
Pivot	IN Per	Hours Per	
% Timer	360 degrees	360 degrees	ER F
100.0	0.161	16.0	
90.0	0.18	17.8	3
80.0	0.20	20.0	
70.0	0.23	22.9	
60.0	0.27	26.7	
50.0	0.32	32.0	
45.0	0.36	35.6	
40.0	0.40	40.0	
35.0	0.46	45.7	
30.0	0.54	53.3	
25.0	0.64	64.0	
20.0	0.80	80.0	
17.5	0.92	91.4	
15.0	1.07	106.7	
12.5	1.29	128.0	
10.0	1.61	160.0	
7.5	2.15	213.3	
5.0	3.22	320.0	

Field Area	Flow	Pressure	LRDU Drive Train
175.8 (Ac) Total	800 (GPM)	35 (PSI) Pivot Pressure	34 RPM Center Drive @ 60 Hz freq.
156.2 (Ac) Pivot 360°	4.55 (GPM per Acre)	Inlet Pressure	11.2 x 38 Tire
19.6 (Ac) EG on 100%	0.24 (in per day) App Rate	0.0(ft) Highest Elevation	52:1Wheel GB Ratio, LRDU Dist 1435.6(ft)
1471.8(ft)Machine Length	0.161 (in) App Depth @ 100%	0.0 (ft) Lowest Elevation	16.0 Hrs/360° @ 100% (9.45) (Ft per Min)
89.4 (ft)End Gun Radius	91.9 (GPM) End Gun	L	16 Hrs/360° @ 100%
	NI		L

The information presented in the attached Percent Timer Report is based on variables which cannot be totally controlled by Valmont (including, but not limited to; pivot pressure, inside pipeline surface, end gun throw, end gun arc setting, tire slippage, tire pressure, field slopes, soil variations, sprinkler package installation, well capacity, center drive motor voltage, center drive motor frequency, climatic conditions and other elements and circumstances beyond Valmont's reasonable control). Valmont recommends monitoring the machine for at least one pass through field to obtain an accurate rotation time.

DATA ENTRY SYSTEM ID NUMBER SHEET

FILE NUMBER	50889	· .				
APPLICANT PERSON ID & SEQ #	89862	PDIV ID	_	BATTERY ID		
68707						
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LANDOWNER PERSON ID & SEQ #	71084 - \$	PUSE ID SEC 26				
68708	71085	•	•			
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			•			
WATER USE CORRESPONDE PERSON ID & SEQ #	INT _					
68708				·		
00700						
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