Kansas Department of Agriculture Division of Water Resources

CHANGE: P/D WORKSHEET

1. File Number:	2. Status Change Date:	3. Change Num:	4. Field Office:	5. GMD:		
38616	7-6-2021	C4	04	03		
6. Status: Approved Deni	ed by DWR/GMD	Dismiss by Reques	t/Failure to Return	7. Filing Date of Change:		
				6/17/2021		
8a. LANDOWNER, applicant, WUC New to system □	Person ID 62849 Add Seq#	8c. Landowno		Person IDAdd Seq#		
SHAFER FAMILY FARMS PO BOX 7602 HORSESHOE BAY, TX 78						
8b. Landowner(s), New to system □	Person ID	8d. WUC	rstem ⊠	Person ID Add Seq#		
9. Documents and Enclosure(s): 🛛 DV	VR Meter(s) Date to Comp	y: 12/31/2021	N & P Date to	Comply:		
☐ Anti-Reverse Meter ☐ Meter	Seal	⊠ N & P Form	☐ Water Tube ☐ □	oriller Copy		
☐ Conservation Plan Date Require	ed: Da	te Approved:	Date to	Comply:		
10. Use Made of Water From:		To: _				
			Date Prepared: 7/6/2 9 Date Entered:	By: MAM By:		

File No. 38616	11. County: \$	sv	Bas	sin: CI	MAR	RON F	RIVER			St	ream:							Fo	ormation C	ode: 211	Special Use:	
12. Points of Diversion CHK	CHK																					
MOD DEL PDIV														F	Authori	zed		Α	dditional			
ENT Qualifier	S	Т	R	ID	,	'N	'W		Com	nment (AKA L	ine)		Rate		Quanti af	ty	Rate gpm		antity af C	Overlap PD Files	
DEL 12836															71-18-16-1-1			8				
ENT 85661 SWSWSE	6 33	3 38	8W	05	43	9	22	292						180	0	247	.6	1800	24	17.6	40062, 41347	
																			ALSO	OVERL	AP WITH 201771	24 MF
13. Storage: Rate	N	F	Quar	ntity					_ac/ft	Ad	dition	al Rate	e				NF	Addi	tional Qua	intity		_ ac/ft
14. Limitation:	af/yr at					gpm (cfs) wh	nen cor	mbine	d with	file n	umber	(s)						
Limitation:	af/yr at					gpm (_				cfs) wh	nen cor	mbine	d with	file n	umber	(s)						
15. 5YR Allocation: Allocation																						
16. Place of Use CHK			NE	Ξ1/4			NV	V¹/₄			SV	V ½			,	SE¼		Total	Owner	Chg?	Overlap Files	
MOD DEL ENT PUSE S T R	ID	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4					
CHK 613																						
CHK 11191																						
CHK 13880																						
CHK 36124																						
CHK 40423																						
Base Acres: Year: Comments:	Mir	nimum	Reas	onable	e Quar	ntity:																

Garden City Field Office 4532 W. Jones, Suite B Garden City, KS 67846



Phone: 620-276-2901 Fax: 620-276-9315 www.agriculture.ks.gov

Mike Beam, Secretary

Laura Kelly, Governor

July 6, 2021

SHAFER FAMILY FARMS LLC PO BOX 7602 HORSESHOE BAY, TX 78657-7602

RE: Water Right, File Nos. 435, 38616, 40062, and 41347

Dear Sir:

Enclosed are orders executed by the designee of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the applications for change under the above referenced file numbers.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in the approvals for change. Conditions of these approvals is that an acceptable water flow meter must be installed on the diversion works authorized under the referenced file numbers and meet current specifications. Please return the required notifications of completion of the diversion works and installation of the required meter as soon as these actions are completed.

Since the orders modify the original documents referred to above, they should be recorded with the Register of Deeds as other instruments affecting real estate.

Should you have any questions, please feel free contact this office. If you would prefer, you could arrange an appointment for additional assistance.

Sincerely,

Michael A. Meyer

Water Commissioner

MAM enclosures

pc:

GMD3

CERTIFICATE OF SERVICE

On this 6th day of July 2021, I hereby certify that the foregoing Approval of Applications for Change in Point of Diversion, Water Right, File Nos. 435, 38,616, 40,062, and 41,347 dated 7th day of July 2021 was mailed postage prepaid, first class, US mail to the following:

SHAFER FAMILY FARMS LLC PO BOX 7602 HORSESHOE BAY, TX 78657-7602

Pc:

GROUNDWATER MANAGEMENT DISTRICT NO. 3

Division of Water Resources Staff

Submit completed application to: Kansas Department of Agriculture Division of Water Resources Field Office for your area. Call for address:

Topeka -- (785) 296-5733 Stafford -- (620) 234-5311 Stockton -- (785) 425-6787 Garden City -- (620) 276-2901 http://agriculture.ks.gov/dwr

DWR FIELD OFFICE APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF USE AND/OR THE POINT OF DIVERSION



STATE OF KANSAS

Filing Fee Must Accompany the Application, K.S.A. 82a-708b(b), as amended. Fee Schedule is on the third page of this application form.

than		t, or if pl	ace of	use wi		nange	d, inclu		opogra	phic m	nap or	detaile	d plat	showir				RE	ion is greater osed point(s) CEIVED OI PM N 1 7 2021
4	Applicat	ion io bo	vebu e	nada fe		raval a	f the C	Shinf F	nainas	ur to oh		the (eb	and a	o or b	oth).			Barden	City Field Office
1.	Applicat	ion is ne	ereby r	nade i	or app			rniei ⊑ f Use				of Dive		ie oi b	ourj.		Div	ision o	f Water Resources
	under th	a water	niaht	المامانات	a tha a									adition	o dooo	ribad k	aalauu		
	The sou				s trie s		Ground		alioni			ce wat		idition	s uesc	inbed i	Jelow.		
	THE SOU	ice or si	ирріу і	5.			oround	water			Suria	se wat	EI						
2.	Name a	nd addr	ess of	Applica	ant: S	HAFE	R FAM	IILY FA	ARMS	LLC									
	PO BOX	(7602 F	HORSE	SHOE	BAY,	TX. 7	8657												
	Phone N	Number:	(620)	428-10	063				Email	addres	ss:								
	Name a	nd addr	ess of	Water	Use C	orresp	onden	t: WA	RREN	M & A	MANI	DARV	VILLIS						
	613 RO	AD N H	JGOT	ON, KS	S. 679	51													
	Phone N	Number:	(620)	428-1	063				Email	addres	ss:								
3.	3. The presently authorized place of use is:																		
Owner of Land NAME: NO CHANGE																			
		,	ADDRI	ESS:															
	(If there is	s more th	nan one	landov	vner, at	tach su	ippleme	ental sh	eets as	neces	sary.)								
				NE	Ε1/4			NV	V1/4			SV	V1/4			SE	=1/4		TOTAL
Sec	c. Twp.	Range	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	ACRES
	If this an	of Land -	NA ADDRI	AME: ESS:	NO CH	HANGI	Ξ								_				
				NE	Ξ1/4			NV	V1/4			SV	V1/4			SE	=1/4		TOTAL
Sec	c. Twp.	Range	NE1/4		T	SE1/4	NE1/4			SE1/4	NE1/4			SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	ACRES
						l								L	L		I		
	For Offi	ce Use	Only:	Code		<i>F</i> e	e \$_2	.00.0	<u>○</u> TR	#		Re	ceipt	Date _	p-17-	21	Chec	k# <u>}</u>	341

5.	Presently author	rized point of	diversion:				
- 1	One in the		Quarter of the	NC	Quarter of the	NW	Quarter
	of Section	7	, Township	33	South, Range	38	(E/V),
i	in STEVENS	Co	unty, Kansas, <u>3940</u>	feet North _	3960 feet West of S	Southeast corne	er of section.
	Authorized Rate	1,800 GPM	Authorized Quantity _	247.6 AF	Depth of well	(fee	et)
	(DWR use only:	Computer ID	No. 2 GPS	S	feet North	feet We	est)
	☐This point will n	ot be changed		d as follows: [☐ No change, point better d	escribed with GP	S as follows:
1 '			(Complete only if change				
			Quarter of the				
			, Township				
	in STEVENS	Co	unty, Kansas, <u>439</u>	feet North _	2292 feet West of S	Southeast corne	er of section.
	Proposed Rate _		Proposed Quantity Geo Center List ot		Proposed well depth (feet)	
L	This point is:	Additional We	II ☐ Geo Center List ot	her water righ	its that will use this point	40062,	1/3 47
_							
	Presently autho						
- 1	One in the	***************************************	Quarter of the Township		Quarter of the		Quarter
- 1	of Section		, Township		South, Range		(E/W),
l i	in	Co	untv. Kansas.	feet North	feet West of S	Southeast corne	er of section.
	Authorized Rate		Authorized Quantity GPS		Depth of well	(fee	et)
- 1	(DWR use only:	Computer ID	No GPS	S	feet North	feet We	est)
	This point will no	ot be changed	☐This point will be changed	d as follows:	No change, point better de	scribed with GP	S as follows:
!	Proposed point	of diversion:	(Complete only if change	e is requeste	d or if existing point is	better describ	ed by GPS)
- 1	One in the		Quarter of the		Quarter of the		Quarter
			, Township				
	in	Co	unty, Kansas,	feet North _	feet West of S	Southeast corne	er of section.
			Proposed Quantity				
L.	This point is:	Additional We	II ☐ Geo Center List ot	her water righ	its that will use this point		
			d for the following reasons	?			
1	(please be specific	;)		300		100 200	300
						The state of the s	ПШЗ
					= = = = = = = = = = = = = = = = = = = =	- /-	
8.	If a well, is the tes	t hole log attac	hed? Yes No	200	-1 A $+1$ $=$	1 + 1 +	1===200
a .	The change(s) (wa	as)(will he) com	inleted by?				E/
Ο.	The onange(s) (we	13)(WIII DC) COII	ipicted by:	E	/ =	1 1 1 1	\=
	w			100		1 + 1 +	100
10.	If the point of diver	sion is a well:		#			=
	(a) What are you		th the old well?	West 0	-dadadadadada		11 1 HE O East
	(a) What are you	going to do wit	ar the old well:	‡			1
9							1
i	(b) When will this	be done?		100	<u> </u>	1 + 1 +	100
	. ,				·\ =		
11.	Groundwater Man	agement Distric	ct recommendation attached	? 200 =	-1 + 1 =	1 + 1 +	200
		es No		E	_ =		=
	-	OO			_\ _ =		
	Assisted by						

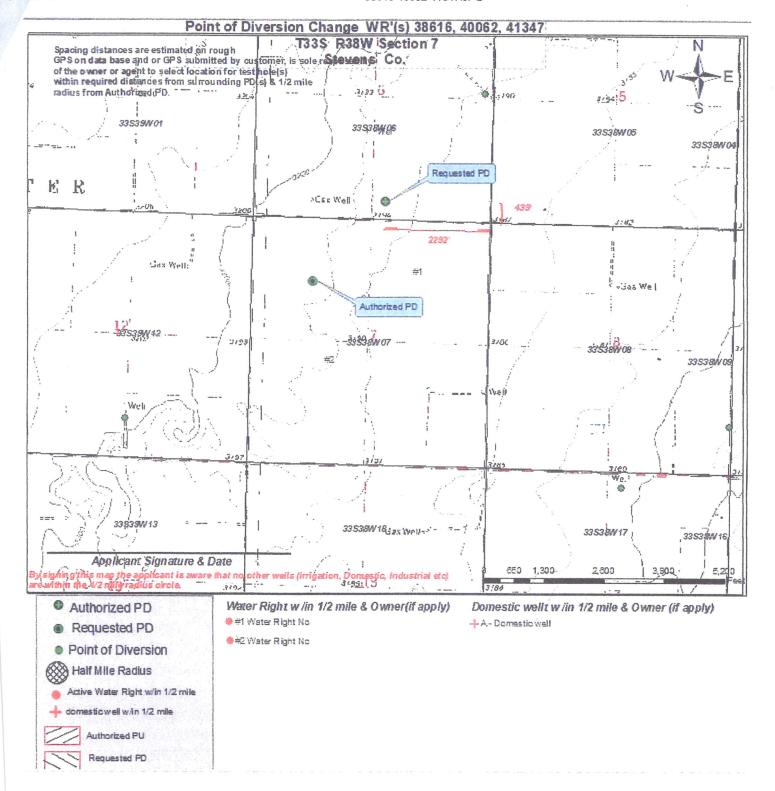
13a. If the proposed point of diversion will be relocated more than 300 a topographic map or aerial photograph. For groundwater sources, show all wells (including domestic) within one-half mile of the proposed point of diversion and the names and mailing addresses of the owners. For surface water sources, show the names and addresses of the landowner(s) one-half mile downstream and one-half mile upstream from your property lines

feet but within 2,640 feet of the existing point of diversion, attach 13b.If the proposed point of diversion will be relocated within a 300 foot radius of the existing point of diversion, indicate its location on the diagram shown above in relation to the existing point of diversion. The proposed point of diversion must be located within the circle shown above. (PLEASE NOTE: The "X" in center of diagram above represents the presently authorized point of diversion.)

14. If the proposed groundwater point of diversion is 300 or fewer feet from	m the existing point of diversion, complete the following:
(a) Does the undersigned represent all owners of the currently autho ☐ Yes ☐ No (If no, all owners must sign this applic	
 (b) Will the ownership interest of any owner of the currently authori affected if this application is approved as requested? ☐ Yes ☐ No (If yes, all owners must sign this application) 	
(c) If this application is not approved expeditiously, will there be subs ☐ Yes ☐ No (If no, all owners must sign this applic	
If the application proposes a surface water change in point of diversion, a or a change in place of use, the application must be signed by all owners agent (attach notarized statement authorizing representation).	
I hereby verify, being first duly sworn upon my oath or affirmation age and the owner, the spouse of the owner, or a duly authorist their behalf, in regards to the water right(s) to which this appropriate in this application are true, correct and complete.	zed agent of the owner(s) to make this application on
Dated at Horsesher Bay , Kansas, this _	day of May , 20 21.
Robert J. Shafer Robert J. Shafer (Owner) Robert J. Shafer (Please Print)	Donna K. Shafer (Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
State of Kansas) Notar	AH HENDERSON y JD #132903456 mmission Expires bruary 1, 2025
I hereby certify that the foregoing application was signed in most	any presence and sworn to before me this 11th day
My Commission Expires 02 01 2025 .	Notary Public
ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all caccurate information; maps, if necessary, must be included; signatures of all the apthe appropriate fee must be paid.	of the applicable portions of the application form must be completed with propriate owners' must be affixed to the application and notarized; and
FEE SCHEDU	<u>LE</u>
Each application to change the place of use or the point of diversion under forth in the schedule below: Make checks payable to: Kansas Departme (1) Application to change a point of diversion 300 feet or less (2) Application to change a point of diversion more than 300 feet (3) Application to change the place of use	ent of Agriculture

SUMMARY ORDER APPROVING APPLICATION FOR CHANGE AND IMPOSING CONDITIONS

pro Wit	visions of the Kansas Water Appropriation Law, K.S.A. 82a-	08b, as amended, and K.A.R. 5-5-1, et seq. and other applicable 701 et. seq., and rules and regulations promulgated thereunder, n, this Summary Order does not change the terms, conditions and
1.	A change application was received on diversion authorized under the above-referenced file num	requesting that the place of use and / or point of ber be changed as described in the application.
2.	On and after the effective date of this summary order, the author to companying the application to characteristics.	thorized place(s) of use shall be located substantially as shown on ange the place of use. Applicable Not Applicable
3.	The change in point of diversion shall not impair existing right previously authorized. The point of diversion authorized by radius of the authorized point(s) of diversion. Applicable	nts and shall be limited to the same source or sources of water as by this summary order shall be located within a foot located Not Applicable
4.	The point(s) of diversion described herein is administrative Positioning System (GPS), as described in the application	ely corrected to be more accurately described using the Global . Applicable Not Applicable
5.	The point(s) of diversion authorized herein shall not actually authorized point(s) of diversion. Applicable X N	be located more than feet from the previously ot Applicable
6.	As required by K.A.R. 5-3-5d, if the works for diversion is a vor other device suitable for making water level measurement K.A.R. 5-6-13. Applicable	well with a diversion rate of 100 gallons per minute or more, a tube ents shall be installed, operated and maintained in accordance with
7.	December 31, 20 \(\frac{1}{2}\), or before the first use of water, operated and maintained in accordance with K.A.R. 5-1-4	operly install an acceptable water flow meter on or before whichever occurs first. The water flow meter shall be installed, through 5-1-12. As required by K.S.A. 82a-732, as amended, and the reading of the water flow meter and the total quantity of watering the end of each calendar year.
8.	Installation of the works for diversion of water shall be authorized extension of time. By March 1, 20 the works for diversion has been completed, on the form prov Applicable Not Applicable	completed on or before December 31, 20, or within any applicant shall notify the Chief Engineer that construction of the ided by the Chief Engineer, as required by K.A.R. 5-8-4e.
9.	The completed well log shall be submitted with the requ	ired notice. ☐ Applicable ☐ Not Applicable
10.	with an in-line, automatic, quick-closing check valve capa	foreign substance will be injected into the water shall be equipped ble of preventing pollution of the source of the water supply. The in accordance with K.A.R. 5-3-5c. ⚠ Applicable ☐ Not Applicable
11.	Additional Conditions are attached. Yes No	
12.	water appropriated under the above-referenced file number limitations, as amended and/or supplemented by this Sun Appropriation Law and the Rules and Regulations promu	A.R. 5-5-14, all of the owners of the authorized place(s) of use of our are responsible for compliance with its terms, conditions and nmary Order, and with applicable provisions of the <i>Kansas Water</i> algated thereunder. Failure to comply with these provisions may needed, and/or the suspension or revocation and dismissal of the ons authorized by law.
	Administrative Appeal and Effective Date of Order	FOR OFFICE USE ONLY
If vo	ou are aggrieved by this order, pursuant to K.S.A. 82a-1901,	APPLICATION APPROVED AND
you	may request an evidentiary hearing before the Chief	SUMMARY ORDER ISSUED
Agr	ineer or request administrative review by the Secretary of iculture. A request for hearing by the Chief Engineer must be	By: Mulul A. My
filed	d within 15 days of service of this Order and a request for ninistrative review by the Secretary must be filed within 30	Duly Authorized Designee of the Chief Engineer
day	s pursuant to K.S.Á. 77-531. Any request for administrative ew must state a basis for review pursuant to K.S.A. 77-527.	(Print Name): MCHATC A.MEYER Division of Water Resources - Kansas Department of Agriculture
File	any request with Kansas Department of Agriculture,	Date of Issuance: Tyle (e, 204)
665	pal Ďivision, 1320 Research Park Drive, Manhattan, KS 02. Failure to timely request a hearing or review may	State of Kansas)
pre	clude review under the Kansas Judicial Review Act. For Use by Register of Deeds	County of Finney) SS
		Acknowledged before me on
		by Michael A. Meyer
		Signature: Due Keem
		Notary Public
		My commission expires:
		NOTANY NOTANY Spelltment Expires





Southwest Kansas Groundwater Management District No. 3 2009 E. Spruce Street Garden City, Kansas 67846

(620) 275-7147 phone (620) 275-1431 fax www.gmd3.org

June 30, 2021

Michael A. Meyer Division of Water Resources 4532 W Jones Ave., Suite B Garden City, Kansas 67846

RE:

Applications for Change in Point of Diversion Water Right, File Nos. 435, 38616, 40062 & 41347

Dear Mike:

We have completed a review of the applications for the above referenced water rights. The proposed change in authority between the points of diversion is in accordance with current area rules, K.A.R. 5-23-3, as it pertains to distance moved and minimum spacing to neighboring wells. The move to the north well will increase the authority from that point of diversion, while the south well is proposed to have less authority than it's recent average reported use.

Well evaluations were conducted again to estimate possible effects of the proposal on the supply of other wells with water rights prior to the proposal per K.S.A. 82a-708b, and the draft revised management program. Under K.S.A. 82a-708b, an applicant requesting a change in point of diversion must demonstrate to the chief engineer that any proposed change is reasonable and will not impair. The enclosed report is an analysis performed by the GMD on behalf of our membership. Under this analysis, the proposed change is considered to be reasonable and unlikely to impair if either the net in-season well-to-well effect of the proposed change is less than a strict maximum allowable threshold (4.0 ft in cases where saturated thickness is greater than 200 ft), or if no well with a net well-to-well effect exceeding the threshold is identified as critical. Critical wells are identified as wells that are expected to either lose or greatly diminish water supply over the next 25 years. The attached review information is based on a Theis analysis using inputs from the GMD3 aquifer model, which is considered to be the best information on well and aquifer data readily and easily available to the public. If either the applicant or the neighbors believe they have better data that might change the result of the analysis, they should contact GMD3. Conclusions of the well analysis may change if better information on well and aquifer data can be made available.

Every neighboring well within 1 mile of the proposed move was evaluated. Evaluations showed one of the neighboring wells, which is under the same ownership, exceeded the net effect above the maximum allowable threshold and required further evaluations. Further analysis showed that the proposed new authority would not be considered critical. Therefore, GMD3 sees this move as reasonable and therefore recommend that the application be approved. If aquifer conditions change or there is a change to the water right in the future, we would be happy to evaluate the effects at that time.

Thank you for the opportunity to review the applications and to provide a recommendation. If you have any questions, please don't hesitate to contact us.

Sincerely,

Jason L. Norquest

Assistant Manager

RECEIVED

JUN 3 0 2021

GMD3 Change Review

File No(s).: 435,		<u>& 41347</u> .		DWR office: <u>GC</u> .
App filed to chan	ge: <u>PD</u> .			
Is Landowner(s)	correct in WRI	S: Shafer F	Family Farms LLC.	
If NO, is o	locumentation	included?		
Is Water Use Cor	respondent cor	rrect in WRIS	S?	
If NO, is o	documentation	included?		
Regulation(s) Rev	viewed: KAR	5-23-3		
Point of diversion	ID No(s)	being change	ed.	
	ft. North	ft. West		
Authorized PD	439	2292		
Proposed PD	3940	3960	Sect 7-33-38	
Difference	1779	-1668	2420 66 6-11-1	
a2 + b2 = c2	3164841		2438.66 feet betwe	en wells
GPS for proposed		<u> </u>	_	
			Maintain current overl	
			No Change on these	applications, did have
a prior application				
Neighboring certi	fied well(s) no	otified:		
Name Steve El	lis (15996) .			
Address 10124 S	Big Bow Gra	<u>de</u> .		
Zip Johnson	<u>, KS 67855</u> .			
Email: <u>steven@</u>	pld.com. Pl	hone: <u>620-3</u>	353-4561.	
Domestic well(s)	notified:			
Name				
Address				
Zip				
Base Acres:				
Perfected Acres:				
Irr. Return-Flow _	%			
Applications pro	pose flip/flop	ping the aut	hority between the tw	vo wells.
435 Authorized:	640AF @ 2.2	23cfs		
This well was red	drilled in 2016	5, at that tim	e was about 1700' no	orth of current
location.				
Average reported	d use (2017-20	(020) = 539A1	F	
2018 WUR repor				
Did not find any			redrill.	
38616 Authorize	_		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
			imited to 1800gpm w	:/38616
		SP	Service of the servic	

GMD3 Change Review

41347 Authorized: 555AF @ 1800gpm. Limited to 1453AF @ 1800 w/ 38616 & 40062.

10year average use reported (2011-2020) = 939.9AF 2020 WUR reported 1390gpm.

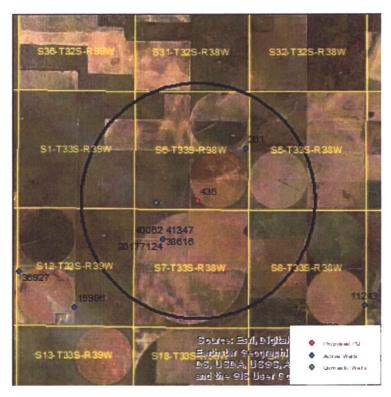
2014 Field inspection calculated 1455gpm (close to reported rate that year)

Is a waiver needed: The flip in authority is less than half mile and minimum spacing to neighboring wells is met. The move to the north well will have increased authority on the well. The only wells in the area are the applicant's. The first guidelines are exceeded on WR261, but further evaluation showed that the well would not be critical. The change in authority on the south well will decrease the authority on the well to an amount that is less than the prior average use reported and should not cause possible impairment. Recommendation: Seeing as how this move will send more authority to a well surrounded by the applicant's other wells, analysis shows it not to be critical. The other move will reduce authority in the area. All other current area rules are met. Staff therefore recommends approval of the application.

Im

Evaluation of proposed move for Water Right Nos. 435, 38616, 40062, and 41347

Proposed: Move water right no. 435 to the well currently authorized under water right nos. 38616, 40062, and 41347, a distance of 2,332 ft to the southwest. Move water right nos. 38616, 40062, and 41347 to the well currently authorized under water right no. 435, a distance of 2,332 ft to the northeast. Total authority on the southwest well will be reduced from 1453AF @ 1800 gpm to 640 AF @ 1000 gpm. Total authority on the northeast well will be increased from 640 AF @ 1000 gpm to 1453 AF @ 1800 gpm.



Wells within 1 mile: 261 and a domestic well in section 6-33-38.

The saturated thickness at the proposed well location is estimated to be 226 ft, based upon the GMD3 model. For saturated thickness greater than 200 ft, the drawdown allowance is 4.0 ft.

50 year Theis Analysis: The following values were used to run the analysis. (Note water right number indicates current well location. Proposed values apply to the well location, not the water right):

$$S = 0.05629$$
, $T = 11,204$ ft²/day,

38616 & 40062 & 41347:
$$tp_{current} = 153 days$$
, $Q_{current} = 1390 gpm$, $tp_{proposed} = 145 days$, $Q_{proposed} = 1000 gpm$

Theis drawdowns were calculated as follows:

261:

Drawdown from current location = 9.34 ft

Drawdown from proposed location = 13.86 ft

Net drawdown = 4.5 ft

Domestic 6-33-38:

Drawdown from current location = 14.81 ft

Drawdown from proposed location = 18.00 ft

Net drawdown = 3.2 ft

Net drawdown exceeds the drawdown allowance of 4.0 ft for the well authorized under water right no. 261. Critical well analysis is necessary on that well.

Critical Well Evaluation:

261:

Water Column = 226 ft

DP = 4.5 ft (Net drawdown from the proposal indicated above)

DE = 24.2 ft (Water level decline from 2021 through 2046 based upon GMD3 model)

DD = 10.5 ft (S = 0.05629, T = 83,808 gpd/ft, Q = 300 gpm, tp = 127 days, efficiency = 70%)

DT = 39.2 ft

Economic Drawdown Constraint (EDC) = 0.4 * 226 ft = 90.4 ft

Physical Drawdown Constraint (PDC) = 226 ft - 60 ft = 166 ft

Total drawdown of 39.2 ft is less than the EDC and PDC, so this well is not critical.

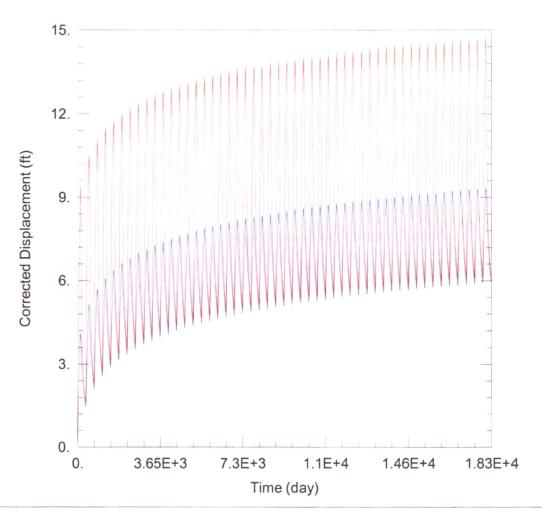
Conclusion:

The proposed moves will create an effect on the well authorized under water right no. 261 that is likely to be noticeable. Saturated thickness, modeled declines, and aquifer parameters show that this water right will likely be able to access a similar rate and quantity to its current use over the next 25 years, accounting for the move. This well is also owned and operated by the Applicant. Therefore, GMD3 staff recommends approval of the application.

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Garden City Field Office Division of Water Resources



WELL TEST ANALYSIS

Data Set: C:\...\435_38616_40062_41347 Current.aqt

Date: 06/29/21 Time: 14:08:41

PROJECT INFORMATION

Company: GMD 3

Project: 435, 38616, 40062, 41347

Location: Stevens County

WELL DATA

F	Pumping Wells		Observation Wells					
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)			
	-201602	119105		-201602	119105			
	-203158	117368		-203158	117368			
			261	-199458	121452			
			 Domestic 6-33-38 	-203471	119030			

SOLUTION

Aquifer Model: Unconfined

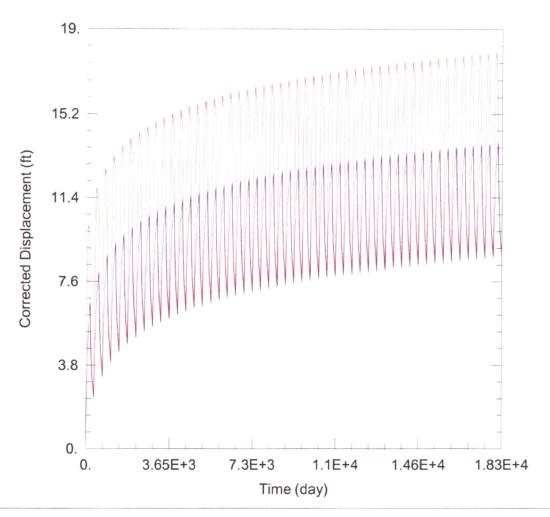
 $T = 1.12E + 4 \text{ ft}^2/\text{day}$

Kz/Kr = 1.

Solution Method: Theis

S = 0.05629

b = 226. ft



WELL TEST ANALYSIS

Data Set: C:\...\435 38616 40062 41347 Proposed.aqt

Date: 06/29/21

Time: 14:01:42

PROJECT INFORMATION

Company: GMD 3

Project: 435, 38616, 40062, 41347

Location: Stevens County

WELL DATA

F	Pumping Wells		Observ	ation Wells
Well Name	X (ft)	Y (ft)	Well Name	X (ft)
	-201602	119105		-20160
	-203158	117368	a	-20315
			261	-19945
			D	20247

Well Name	X (ft)	Y (ft)
0	-201602	119105
	-203158	117368
· 261	-199458	121452
 Domestic 6-33-38 	-203471	119030

SOLUTION

Solution Method: Theis

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 $= 1.12E+4 \text{ ft}^2/\text{day}$ T

Aquifer Model: Unconfined

S = 0.05629

Kz/Kr = 1.

b = 226. ft Garden City Field Office Division of Water Resource

Report Date: Monday, June 21 2021 Water Rights and Points of Diversion Within 1 mile of point defined as: 439 Feet N and 2292 Feet W of the Southeast Corner of Section 6 Twp 33S Rng 38W Located at: 101.491552 West Longitude and 37.200144 North Latitude Proposed 38616, 40062 + 4113417 Both SURFACE WATER and GROUNDWATER File Number Use ST SR Dist (ft) Q4 Q3 Q2 Q1 FeetN FeetW Sec Twp Rng ID Batt Auth_Quan Add_Quan Unit 261 00 IRR NK G 3155 -- SE SE NE 2783 181 6 33 38W 6 2191 580.00 580.00 AF 435 00 IRR NK G* -__ 14 -- SW SW SE 439 2292 6 33 38W 5 640.00 640.00 AF 38616 00 IRR NK G* 2415 -- -- NC NW 3940 3960 7 33 38W 2 247.60 247.60 AF 40062 00 IRR NK G* 2415 -- -- NC NW 3940 3960 7 33 38W 2 524.00 524.00 AF 41347 00 IRR NK G* 2415 -- -- NC NW 3940 3960 7 33 38W 2 555.00 495.40 AF T__20177124 MF IRR GY G .00 2415 -- -- NC NW 3940 3960 7 33 38W 2 5817.90 AF _______ Total Net Quantities Authorized: Direct Storage Appear MET Total Requested Amount (AF) = .00 .00 .00 Total Permitted Amount (AF) = .00 Total Inspected Amount (AF) = .00 .00 .00 Total Pro_Cert Amount (AF) = .00 2487.00 Total Certified Amount (AF) = .00 Total Vested Amount (AF) = .00 .00 TOTAL AMOUNT (AF) = 2487.00 .00 An * after the source of supply indicates a pending application for change under the file number. An * after the ID indicates a 15 AF exemption was granted under the file number. A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the The number in the Batt column is the number of wells in the battery. Water Rights and Points of Diversion Within 1 mile of point defined as: 439 Feet North and 2292 Feet West of the Southeast Corner of Section 6 Twp 33S Rng 38W Located at: 101.491552 West Longitude and 37.200144 North Latitude Both SURFACE WATER and GROUNDWATER WATER USE CORRESPONDENTS: 261 - fore Concert below MP File Number Use ST SR > WARREN M & AMANDA R WILLIS > 613 ROAD N > HUGOTON KS 67951 Application >-----> SHAFER FAMILY FARMS LLC > PO BOX 7602 > HORSESHOE BAY TX 78657

> WARREN M & AMANDA R WILLIS
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Garden City Field Office Division of Water Resources

Water Rights and Points of Diversion Within 1 mile of point defined as: 3940 Feet N and 3960 Feet W of the Southeast Corner of Section 7 Twp 33S Rng 38W Located at: 101.497169 West Longitude and 37.195294 North Latitude Both SURFACE WATER and GROUNDWATER roposed ______ File Number Use ST SR Dist (ft) Q4 Q3 Q2 Q1 FeetN FeetW Sec Twp Rng ID Batt Auth Quan Add Quan Unit 435 00 IRR NK G* -- 2397 -- SW SW SE 439 2292 6 33 38W 5 640.00 AF 15996 00 IRR NK G 5003 -- NE SE SW 805 2660 12 33 39W 4 640.00 640.00 AF 38616 00 IRR NK G* 9 -- -- NC NW 3940 3960 7 33 38W 2 247.60 247.60 AF 2300/524.00 40062 00 IRR NK G* 9 -- -- NC NW 3940 3960 7 33 38W 2 524.00 41347 00 IRR NK G* 9 -- -- NC NW 3940 3960 7 33 38W 2 555.00 495.40 T__20177124 MF IRR GY G 9 -- -- NC NW 3940 3960 7 33 38W 2 5817.90 .00 Total Net Quantities Authorized: Direct Storage Gracing Appenis .00 Total Requested Amount (AF) = .00 .00 .00 Total Permitted Amount (AF) = .00 .00 Total Inspected Amount (AF) = .00 .00 Total Pro Cert Amount (AF) = .00 Total Certified Amount (AF) = 2547.00 .00 .00 Total Vested Amount (AF) = TOTAL AMOUNT 2547.00 .00 (AF) = An * after the source of supply indicates a pending application for change under the file number. An * after the ID indicates a 15 AF exemption was granted under the file number. A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the The number in the Batt column is the number of wells in the battery. Water Rights and Points of Diversion Within 1 mile of point defined as: 3940 Feet North and 3960 Feet West of the Southeast Corner of Section 7 Twp 33S Rng 38W Located at: 101.497169 West Longitude and 37.195294 North Latitude Both SURFACE WATER and GROUNDWATER WATER USE CORRESPONDENTS: ________ File Number Use ST SR Application SHAFER FAMILY FARMS LLC > PO BOX 7602 > HORSESHOE BAY TX 78657 >-----> STEVE L ELLIS > 10124 S BIG BOW GRADE > JOHNSON KS 67855

> WARREN M & AMANDA R WILLIS Application > 613 ROAD N > HUGOTON KS 67951 > WARREN M & AMANDA R WILLIS > 613 ROAD N > HUGOTON KS 67951 > WARREN M & AMANDA R WILLIS

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Garden City Field Office Division of Water Resources Garden City Field Office 4532 W. Jones, Suite B Garden City, KS 67846



Phone: 620-276-2901 Fax: 620-276-9315 www.agriculture.ks.gov

Mike Beam, Secretary

Laura Kelly, Governor

June 18, 2021

SOUTHWEST KANSAS GROUNDWATER MANAGEMENT DISTRICT NO. 3 2009 E SPRUCE ST GARDEN CITY KS 67846

> Water Right, File Nos. 435, 38616, 40062, 41347 Re:

Dear Mr. Norquest:

This is to advise you that Shafer Family Farms: LLC, has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point if diversion.

We are delaying action on the change application to allow you time to review and provide a recommendation. Please submit a recommendation within 15 days from the date of this letter.

Thank you and as always feel free to contact this office at any time.

Sincerely,

Michael A. Meyer

Water Commissioner

MAM Enclosures