Kansas Department of Agriculture Division of Water Resources

CHANGE: P/D WORKSHEET

1. File Number: 2393	2. Status Change Date:	3. Change Num:	4. Field Office: 04	5. GMD:				
	9-28-2021							
6. Status: ☐ Approved ☐ Den	ied by DWR/GMD	Dismiss by Reques	smiss by Request/Failure to Return 7. Filing Date of Change:					
				1/11/2021				
8a. LANDOWNER, Person ID 9	61284 Add Seq#	8c. LANDOW	NER, correspondent	Person IDAdd Seq#				
REBECCA GRAHAM 1457 RD 140 LAKIN, KS 67860-6300								
8b. Landowner(s), New to system □	Person IDAdd Seq#	2156 R		Person ID 61234 Add Seq# 3821				
9. Documents and Enclosure(s): DV	VR Meter(s) Date to Comp	y: 12/31/2021	N & P Date to	Comply: 3/1/2022				
☐ Anti-Reverse Meter ☐ Meter	Seal 🛛 Check Valve	⊠ N & P Form		riller Copy				
☐ Conservation Plan Date Requir	ed: Da	te Approved:	Date to	Comply:				
10. Use Made of Water From:		To: _						
			Date Prepared: 2/18/2 Date Entered:	2021 By: MAM By:				

File No. 2393		11. County	: FI	Ba	sin: AF	RKAN	SAS F	RIVER	:		S	tream:	e e						Fo	rmation Cod	de: 211	Special Use:	
12. Points of Diver CHK MOD DEL PDIV ENT	sion Qualifier	S	Т	R	ID	ı	N	'W		Com	ıment	(AKA	Line)			Author	uantity zed Quantit af	у	A Rate gpm			Overlap PD Files	
DEL 63550																							
ENT	SESWSE	12	23	34W		52	4	1160)						665		320		665	320)	6562	
*NOTE DIVERSION RATE REDUCTION																							
13. Storage: RateNF Quantityac/ft Additional RateNF Additional Quantityac/ft																							
14. Limitation:	14. Limitation: af/yr at gpm (cfs) when combined with file number(s)																						
Limitation:af/yr atgpm (cfs) when combined with file number(s)																							
15. 5YR Allocation:	Allocation	Туре	_ Sta	rt Year		_	5 YR	Amou	nt _		Amo	ount U	nit	_	Base	Acres		_ C	omment _				
16. Place of Use CHK			NE1/4		≣1/4	NW1/4			SW¹/4				SE1/4			Total	Owner	Chg?	Overlap Files				
MOD DEL ENT PUSE	STR	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 23742																							
Base Acres:	Base Acres: Year: Minimum Reasonable Quantity:																						
Comments:																							

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

April 28, 2021

REBECCA GRAHAM 1457 RD 140 LAKIN, KS 67860-6300

RE: Water Right, File No. 2393, 5191, 6562, 19401

Dear Madam:

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 approval for change. Conditions of these approvals are 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 notification of completion of the diversion works and installation of the required meter as soon as these actions are completed. Please also note the additional conditions attached to the orders.

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.

The abandoned well must be plugged in accordance with the requirements of Article 30 of the Rules and Regulations as adopted by the Kansas Department of Health and Environment

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: TRIPLE G FARMS

GMD3

CERTIFICATE OF SERVICE

On this 28th day of April 2021, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File Nos. 2393, 5191, 6562, 19401dated 28th day of April 2021 was mailed postage prepaid, first class, US mail to the following:

REBECCA GRAHAM 1457 RD 140 LAKIN, KS 67860-6300

Pc:

TRIPLE G FARMS 2156 ROAD 220 DEERFIELD, KS 67838-3821

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.

Paragraph Nos. 1, 2, 3 & 5 must be completed. Complete all other applicable portions. If change in point of diversion is greater than 100 feet, or if place of use will be changed, include a topographic map or detailed plat showing the authorized and proposed point(s) of diversion and/or place of use.

																K		IIVE	יט
						Fi	ile No.	2393										1 20	
1.	Applicatio	n is her	eby m	ade fo	r appr	oval of	the C	hief Er	gineer	to cha	ange th	ne (che	ck one	e or bo	oth);	Garde	n City	Field	Office
			•				ace of				Point o				DI	/Islon	of Wa	ater Re	sources
	under the	water r	iaht w	nich is	the su	biect o	of this	applica	ation in	accor	dance	with th	ne con	ditions	desci	ibed b	elow.		
	The source						roundv				Surface								
	THO COURT	30 01 04	ppij is	•		2 0	ound	Va(C)			Juniao								
2.	Name and address of Applicant: TRIPLE G FARMS																		
	2158 ROAD 220, DEERFIELD, KS 67838-3821																		
	Phone No	umber:)					Email a	addres	s:								
	Name an	d addre	ss of V	Vater I	Jse Co	orresp	onden	: Sam	16										
	Phone No					and the second s			Email a	addres	s:				-				
3.	The pres			**															
	Owner of Land NAME: REBECCA GRAHAM																		
	ADDRESS: 1457 RD 140, LAKIN, KS 67860-6300 (If there is more than one landowner, attach supplemental sheets as necessary.)																		
_	(If there is	more th	an one	landow	ner, att	ach su	ppleme	intal sh	eets as	necess	ary.)							- T	
				NE				NW%			SW¼			SE¼			TOTAL		
S	ec. Twp.	Range	NE%	NW1/4	SW1/4	SE¼	NE%	NW¼	SW1/4	SE1/4	NE%	NW¼	SW¼	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	
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4.	If this ap Owner o	f Land -	NA	ME:				, it is p	ropose	ed that	the pla	ace of	use be	chan	ged to	:			
								-tal ak					-						
	(If there is	more th	an one	landov	/ner, at	tach su	II Ippieme			neous	Sary.)	_							
				NE	5/4	1			NY4				NV.			T	E¼		TOTAL ACRES
S	ec. Twp.	Range	NE%	NW%	SW1/4	SE¼	NE%	NW%	SW1/4	SE1/4	NE%	NW%	SW¼	SEX	NEX	NW%	SW1/4	SE1/4	
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	For Offi	ce Use	Only:	Code		Fe	e \$		TR	# <u>20</u>	0 00	R	eceipt	Date	1-11-	21	Che	ck# <u></u>	613

-	- to heduce Authorized Diversion Rate of 6656PM-x owner 1/2701
45	- Lo late detailed Descript Rate of 6656PM-X Three Grapher
5.	Presently authorized point of diversion:
٥.	One in the SIM Quarter of the NE Quarter
	of Section 12 , Township 23 South, Range 34 (W), in FI County, Kansas, 2679 feet North 2343 feet West of Southeast corner of section.
	Authorized Rate Nochange Authorized Quantity No change Depth of Well(rect)
	(DWR use only: Computer ID No. 7 GPS feet North
	This point will not be changed
	One in the SE Quarter of the SE Quarter
	of Section 12 Township 23 South, Range 34 (**//)
	in FI County, Kansas, 524 feet North 1160 feet West of Southeast corner of section. Proposed Rate 665 GAM Proposed Quantity No change Proposed well depth (feet) 330
	This point is: Additional Well Geo Center List other water rights that will use this point 6562
6.	Presently authorized point of diversion:
	One in the Quarter of the Quarter of the Quarter of Section, Township South, Range (E/W),
	In County Kanage feel North teet West of Souther of Sou
	Authorized Rate Authorized Quantity Depth of well (feet) (DWR use only: Computer ID No GPS feet North feet West)
	(DWR use only: Computer ID No GPS feet North feet West) □ This point will not be changed □ This point will be changed as follows: □ No change, point better described with GPS as follows:
	Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)
	One in theQuarter of theQuarter of theQuarter of Section, TownshipSouth, Range(E/W),
	of Section, Township South, Range (EW),
	In County, Kansas, feet North feet West of Southeast corner of section. Proposed Rate Proposed Quantity Proposed well depth (feet)
	This point is: Additional Well Geo Center List other water rights that will use this point
7.	The changes herein are desired for the following reasons?
	(please be specific) 300 200 100 North 0 100 200 300
8.	If a well, is the test hole log attached? Yes No The change(s) (was)(will be) completed by? If the point of diversion is a well: West 0 ##1 ##1
0	200 + + + = + + = 200
9.	The change(s) (was)(will be) completed by? 100
10.	If the point of diversion is a well: (a) What are you going to do with the old well? West of the point of diversion is a well: West of the point of diversion is a well:
	(a) with all you going to do with the old went
	(b) When will this be done?
	(b) When will this be doller
11.	Groundwater Management District recommendation attached? 200 - 1 + 1 + 1 = 1 + 1 + 1 = 200
	Assisted by mf/GCFO Assisted by mf/GCFO
12.	300 200 100 0 100 200 300
13a	If the proposed point of diversion will be relocated more than 300 South Scale: 1 hathmark=10 ft
	feet but within 2,640 feet of the existing point of diversion, altach a topographic map or aerial photograph. For groundwater of the existing point of diversion, indicate its location on the
	of the proposed point of diversion and the names and mailing diversion. (PLEASE NOTE: The "X" in center of diversion.
	names and addresses of the landowner(s) one-half mile diversion to presently authorized point of
	downstream and one-half mile upstream from your property lines RECEIVED
DIA	2.1.121 (Poyland 04/5/04.0)
DVVI	R 1-121 (Revised 04/5/2018) Page 2 APR 2 7 2021 File No. 2393

6.Et	- to heduce	2 Autho	Keed Diversio	N Rate	0+ 665 GPM	- X -OWNES	
5.	Presently authoriz					00.00	,
٠. ا			Quarter of the	SW	Quarter of the	NE	Quarter
	of Section	12	, Township	23	South, Range	34	(W),
	in Fl	Cou	inty, Kansas, 2679	feet North	2343 feet West of	Southeast corne	er of section.
			Authorized Quantity				
			No. 7 GP				
			☑This point will be change				
			Complete only if chang				
1	One in the	SE	Quarter of the	M MAN	Quarter of the	SE	Quarter
	of Section	12	, Township	23	South, Range	34	(VV),
	in Fl	COL	Inty, Kansas, 524 Proposed Quantity	feet North _	feet West o	f Southeast come	er of section.
	Proposed Rate	ago GM	Proposed Quantity _	No change	Proposed well dept	n (teet)	
l	This point is:	Jaitional vveil	Geo Center List of	otner water rigi	its that will use this poli	11 0302	
۱ ۵	Presently authori	rod point of	divordon				
6.					Quarter of the		Quarter
	of Section		Quarter of the , Township		South Range		(EW).
	in	Co	unty, Kansas,	feet North	feet West o	f Southeast corne	er of section.
	Authorized Rate		Authorized Quantity	iou i i i i i i	Depth of well	(fe	et)
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			This point will be change				
	Proposed point of	f diversion:	(Complete only if chan	ge is request	ed or if existing point	is better describ	ed by GPS)
	One in the		Quarter of the, Township		Quarter of the		Quarter
	of Section		, Township		South, Range _		(E/W),
			ounty, Kansas,				
			Proposed Quantity				
	I nis point is: L	dditional vve	II ☐ Geo Center List	otner water rig	nts that will use this poi	nt	*
7.	The changes here	in are desire	d for the following reaso	ns?			
				_	Nor	th	
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8.	If a well, is the test	hole log attac	ched? X Yes No	200	-1+1+1	1+1+	1 = 200
9.	The change(s) (wa	e)(will ba) cou	nniated hv2				-
٥.	The change(s) (we	3)(WIII DC) COI	iipicted by t	400			100
					-1+1+1		1 = 100
10). If the point of diver	sion is a well:					=
	(a) What are you	going to do w	ith the old well?	West 0		ջ ումուսիսոփում	IIIIIH 0 East
					=		4
				100	E1+1+1-	= 1 + 1 +	- = 100
	(b) When will this	be done?					. 🛓
4.	1 Groundwater Man	agament Nietr	ict recommendation attach	ned? 200			- - 200
1		es No	oc recommendation andor	1001			1 = 200
					E	 	· , 🗐
1:	Assisted by mf/GC	;FO		_ 3	200 200	0, 100 20	0 300
1	3a. If the proposed po	int of diversior	will be relocated more tha	an 300		uth Scale: 1 hash	
	feet but within 2,64	10 feet of the	existing point of diversion, photograph. For ground	attach 13b.lfth	ne proposed point of diver	sion will be relocat	ed within 300 feet
	sources, show all	wells (including	g domestic) within one-ha	alf mile dia	the existing point of div gram shown above in	relation to the	s location on the existing point of
	of the proposed p	oint of divers	ion and the names and neuriface water sources, sho	nailing div	gram shown above in ersion. (PLEASE NOTE ove represents the	E: The "X" in co	enter of diagram
	names and add	resses of th	e landowner(s) one-hall	t mile aiv	ersion.)	preacting autili	meeu point of
	downstream and lines	one-half mile	upstream from your pr	operty			

I hereby verify, being first duly sworn upon my oath or affirmation and under penalty of perjury, that I am of lawful age and the owner, the spouse of the owner, or a duly authorized agent of the owner(s) to make this application on their behalf, in regards to the water right(s) to which this application pertains. I further verify that the statements contained in this application are true, correct and complete. Dated at	14. If the proposed groundwater point of diversion is 300 or fewer feet fi	om the existing point of diversion, complete the following:
affected if this application is approved as requested? Yes		
Content Cont	affected if this application is approved as requested?	
or a change in place of use, the application must be signed by all owners of the currently authorized place of use, or their duly authorized agent (attach notarized statement authorizing representation). I hereby verify, being first duly sworn upon my oath or affirmation and under penalty of perjury, that I am of lawful age and the owner, the spouse of the owner, or a duly authorized agent of the owner(s) to make this application on their behalf, in regards to the water right(s) to which this application pertains. I further verify that the statements contained in this application are true, correct and complete. Dated at	(c) If this application is not approved expeditiously, will there be sull Yes No (If no, all owners must sign this appli	bstantial damage to property, public health or safety? ication.)
age and the owner, the spouse of the owner, or a duly authorized agent of the owner(s) to make this application on their behalf, in regards to the water right(s) to which this application pertains. I further verify that the statements contained in this application are true, correct and complete. Dated at		
(Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Spouse) (Spouse) (Please Print) (Spouse) (age and the owner, the spouse of the owner, or a duly author	rized agent of the owner(s) to make this application on
(Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Spouse) (Spouse) (Please Print) (Spouse) (Dated at, Kansas, this	day of <u>Schucry</u> 8 , 2021.
(Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Please Print) State of Kenses Colorado County of Chaffel I hereby certify that the foregoing application was signed in my presence and sworn to before me this Ata day of Notary The State of Colorado Netury The Castillo Netury The Castillo Notary Public Notary Public Notary Public Notary Public Notary Public Notary Public Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less. \$100 (2) Application to change a point of diversion on the name of the set of t	Ω	- 1
(Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Please Print) State of Kansas Colorado County of Charfel I hereby certify that the foregoing application was signed in my presence and sworn to before me this Ata day of Notary Public State of Colorado Netary 19 to 2017/4034799 My Commission Expires 8-18-3 (Stary 19 to 2017/4034799) Notary Public Notary Public Stary Public	(Owner)	(Spause)
(Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Please Print) State of Kansas Colorado County of Charfel I hereby certify that the foregoing application was signed in my presence and sworn to before me this 4 day of Notary 19th 2017403479 My Commission Expires 4-18-3 (Stary 19th 2017403479) My Commission Expires 4-18-3 (Stary 19th 2017403479) Notary 19th 2017403479 My Commission Expires 49th 2017403479 My Commission Expires 49th 2017403479 To be completed, 4ft of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid. FEE SCHEDULE Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less . \$100 (2) Application to change a point of diversion more than 300 feet . \$200	Robert O Cooks	(oposios)
(Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Please Print) (Owner) (Spouse) (Please Print) (Please Print) State of Kansas Colorado County of Charfel I hereby certify that the foregoing application was signed in my presence and sworn to before me this Ata day of Notary Public State of Colorado Netary 19 to 2017/4034799 My Commission Expires 8-18-3 (Stary 19 to 2017/4034799) Notary Public Notary Public Stary Public	(Please Print)	(Please Print)
(Please Print) (Owner) (Spouse) (Please Print) (Please Pri		
(Owner) (Spouse) (Please Print) (Please Print) State of Kansas Colorado County of Chaffel SS I hereby certify that the foregoing application was signed in my presence and sworn to before me this 4 day of State of Colorado Natary 31-bits State of County Count	(Owner)	(Spouse)
(Please Print) State of Kansas Colorado County of Chaffel I hereby certify that the foregoing application was signed in my presence and sworn to before me this day of State of Colorado My Commission Expires 6-18-31 My Commission Expires 8-18-31 ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be completed, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid. FEE SCHEDULE Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less. \$100 (2) Application to change a point of diversion more than 300 feet . \$200	(Please Print)	(Please Print)
State of Kansas Colorado County of Chaffel I hereby certify that the foregoing application was signed in my presence and sworn to before me this 4 day of Constant of Castillo Netary Public State of Colorado Notary Public State of Colorado Notary Public Notary Public Notary Public Notary Public Notary Public State of Colorado Notary Public Notary Public Notary Public Notary Public Notary Public State of Colorado Notary Public State of Colorado Notary Public Notary Pub	(Owner)	(Spouse)
I hereby certify that the foregoing application was signed in my presence and sworn to before me this day of Danage 1, 20 3 1 1 1 1 20 20 20 20 20 20 20 20 20 20 20 20 20	(Please Print)	(Please Print)
I hereby certify that the foregoing application was signed in my presence and sworn to before me this day of Danage 1, 20 3 1 1 1 1 20 20 20 20 20 20 20 20 20 20 20 20 20	State of Kansas Colum do	
My Commission Expires 8-18-31 ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid. FEE SCHEDULE Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less \$100 (2) Application to change a point of diversion more than 300 feet \$200	County of Chaffee SS	
My Commission Expires 8-18-31 My Commission Expires 8-18-31 My Commission Expires 8-18-31 My Commission Expires 8-18-31 My Commission Expires 8/18/21 ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid. FEE SCHEDULE Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less \$100 (2) Application to change a point of diversion more than 300 feet \$200	I hereby certify that the foregoing application was signed in of 2000 100 100 100 100 100 100 100 100 10	my presence and sworn to before me this 8th day
My Commission Expires My Commission Expires 8/18/21 ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid. FEE SCHEDULE Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less	Jacqueline Castillo	boots Costill
ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid. FEE SCHEDULE Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less	State of Colorado	Notary Public
accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid. FEE SCHEDULE Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less	My Comunission Expires 8/10	8/21
Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less	ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all accurate information; maps, if necessary, must be included; signatures of all the at the appropriate fee must be paid.	of the applicable portions of the application form must be completed with appropriate owners' must be affixed to the application and notarized; and
forth in the schedule below: Make checks payable to: Kansas Department of Agriculture (1) Application to change a point of diversion 300 feet or less	FEE SCHED	ULE
	forth in the schedule below: Make checks payable to: Kansas Departm (1) Application to change a point of diversion 300 feet or less (2) Application to change a point of diversion more than 300 feet	nent of Agriculture \$100

SUMMARY ORDER APPROVING APPLICATION FOR CHANGE AND IMPOSING CONDITIONS

pro Wit	visions of the Kansas Water Appropriation I aw K S A 82a-7	Bb, as amended, and K.A.R. 5-5-1, <i>et seq.</i> and other applicable 701 et. seq., and rules and regulations promulgated thereunder, this Summary Order does not change the terms, conditions and
1.	A change application was received on	requesting that the place of use and / or point of er be changed as described in the application.
2.	On and after the effective date of this summary order, the auth the topographic map accompanying the application to char	norized place(s) of use shall be located substantially as shown on age 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.	ts and shall be limited to the same source or sources of water as this summary order shall be located within a foot of the located within a lo
4.	The point(s) of diversion described herein is administrative Positioning System (GPS), as described in the application.	y corrected to be more accurately described using the Global Applicable Not Applicable
5.	The point(s) of diversion authorized herein shall not actually be authorized point(s) of diversion.	be located more than feet from the previously of Applicable
6.	As required by K.A.R. 5-3-5d, if the works for diversion is a woor other device suitable for making water level measuremer K.A.R. 5-6-13. Applicable Not Applicable	ell with a diversion rate of 100 gallons per minute or more, a tube at shall be installed, operated and maintained in accordance with
7.	December 31, 20_2, or before the first use of water, operated and maintained in accordance with K.A.R. 5-1-4 to	perly install an acceptable water flow meter on or before whichever occurs first. The water flow meter shall be installed, nrough 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 water g 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 22 the aworks for diversion has been completed, on the form providing Applicable Not Applicable	completed on or before December 31, 20_2/_, or within any applicant shall notify the Chief Engineer that construction of the ded by the Chief Engineer, as required by K.A.R. 5-8-4e.
9.	The completed well log shall be submitted with the requir	red notice. Applicable Not Applicable
10.	with an in-line, automatic, quick-closing check valve capab	reign substance will be injected into the water shall be equipped le of preventing pollution of the source of the water supply. The accordance with K.A.R. 5-3-5c. ☑ Applicable ☐ Not Applicable
11.	Additional Conditions are attached. Yes	
12.	water appropriated under the above-referenced file number limitations, as amended and/or supplemented by this Summappropriation Law and the Rules and Regulations promule.	R. 5-5-14, all of the owners of the authorized place(s) of use of er are responsible for compliance with its terms, conditions and mary Order, and with applicable provisions of the <i>Kansas Water</i> gated thereunder. Failure to comply with these provisions may ended, and/or the suspension or revocation and dismissal of the as authorized by law.
4	Administrative Appeal and Effective Date of Order	FOR OFFICE USE ONLY
lf yc	ou are aggrieved by this order, pursuant to K.S.A. 82a-1901,	APPLICATION APPROVED AND SUMMARY ORDER ISSUED
Eng	may request an evidentiary hearing before the Chief lineer or request administrative review by the Secretary of	SOMMANT ONDER ISSUED
Agri	iculture. A request for hearing by the Chief Engineer must be within 15 days of service of this Order and a request for	By: Duly Authorized Designee of the Chief Engineer
adrr	ninistrative review by the Secretary must be filed within 30 s pursuant to K.S.A. 77-531. Any request for administrative	(Print Name): MCHAFT A. MINTON
revi	ew must state a basis for review pursuant to K.S.A. 77-527. any request with Kansas Department of Agriculture,	Division of Water Resources - Kansas Department of Agriculture
Leg	al Division, 1320 Research Park Drive, Manhattan, KS	Date of Issuance: Appli 28, 202/
prec	02. Failure to timely request a hearing or review may clude review under the Kansas Judicial Review Act.	State of Kansas
	For Use by Register of Deeds	County of Jinney) SS
		Acknowledged before me on A accidence 28 2021
		by Michael A. Meyer.
		Signature:
		Nótary Public
		My commission expires JULIE JONES (Notary Seal) December 15, 2022
		61

DWR 1-121 (Revised 04/5/2018)

Page 4

File No. 2393____

ADDITIONAL CONDITIONS TO SUMMARY ORDER APPROVING APPLICATION FOR CHANGE AND IMPOSING CONDITIONS, Water Right, File No. 2,393

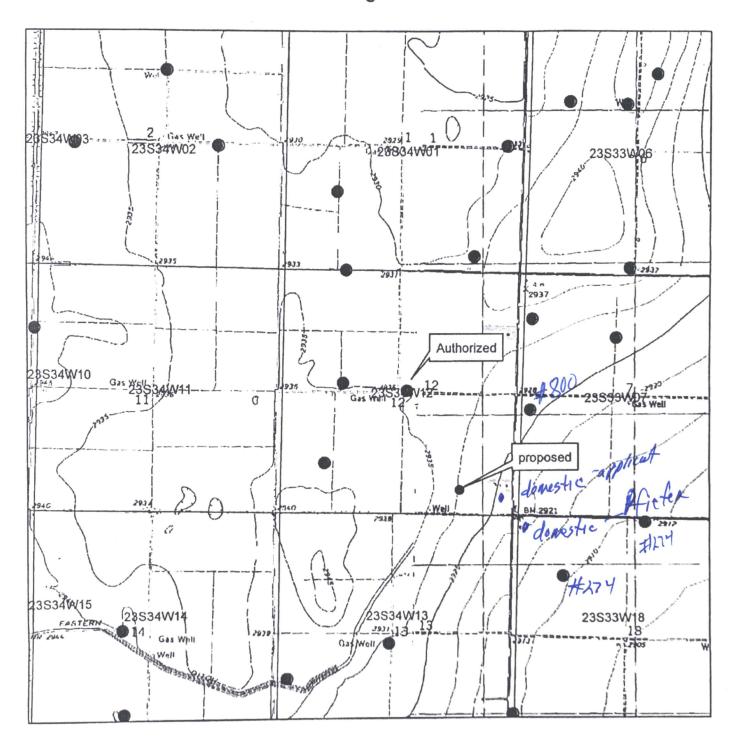
The effective date of the change shall be the date this order is executed by the Chief Engineer, after which the following condition is included as a condition of the approval of this application for change in point of diversion.

This order effectively reduces the authorized maximum rate of diversion to a rate not to exceed 665 gallons per minute (1.48 c.f.s.) from the authorized point of diversion described herein.

	By: (Duly Authorized Designee of the Chief Engineer)
	(Print Name):
	Dated of Issuance: April 28, 2011
State of Kansas	
County of Finney) SS	
Acknowledged before me on	the 28 day of April 2021
By Michael A	. Meyer
Signature Notary	Public
My Commission expires:	JULIE JONES My Appointment Expires Was Sea December 15, 2022

DWR 1-121 File No. 2,393

Change in point of diversion application for water right 2393





 $\mathbf{W} \stackrel{\mathbf{X}}{\Longrightarrow} \mathbf{E}$

Authorized point of diversion

All wells within 1/2 mile are on this map.

Proposed point of diversion

MIDWEST WELL & PUMP

PO BOX 692, Garden City, Kansas 67846

(620)275-1920

Submit for Redvill

Owner-Name:

Graham Farms

Address:

2150 Rd. 220

City, St. Zip:

Deerfield, KS 67838

GPS:

(N.38.06317 W.100.99704)

Contact #:

Cory 620-272-3074

Location:

SE ¼ 12-23-34 Finney County

From Old Well:

About 2800' South East

Date: 3/20

Test Hole: 4-19

Driller: Soukup

Dig Safe#20097133

Static Water Level About:180'

Total Depth: 330' Black Shale

FROM:	TO:	STRATA:
0	2	Top Soil
2	31	Soft Brown Clay
31	35	Brown Clay With Gypsum
35	40	Medium To Coarse Sand Small Gravel
40	72	Brown Clay
82	96	Medium To Coarse Sand Small Gravel With Brown Clay Streaks
96	104	Brown Clay With Medium To Coarse Sand Streaks
104	105	Medium Sand
105	112	Blue Sticky Clay
112	114	Coarse Sand Small Gravel
114	120	Brown Clay Few Small Coarse Sand Small Gravel Streaks
120	126	Medium To Coarse Sand Small Gravel
126	130	Brown Clay
130	146	Medium To Coarse Sand Small Gravel Few Very Small Cemented Sand Streaks
146	152	Medium With Brown Clay Streaks
152	166	Medium Sand Some Small Gravel
166	197	Brown Clay Few Small Medium Sand Streaks 90/10
197	200	Fine To Medium Sand With Brown Clay And Cemented Sand Streaks
200	206	Medium To Coarse Sand Small Gravel
206	218	Brown Clay Few Small Medium Sand Streaks
218	219	Medium Sand
219	221	Brown Clay
221	226	Medium Sand With Brown Clay Streaks
226	234	Soft Sticky Blue Clay
234	240	Brown Sticky Clay
240	256	Light Brown Sticky Clay With Gypsum and cemented Sand Streaks
256	264	Very Fine To Fine Sand Few Very Small Brown Clay Streaks
264	284	Medium To Coarse Sand Small Gravel Few Very Small Brown Clay Streaks
284	308	Medium To Coarse Sand Small Gravel With Brown Clay Streaks 60/40
308	320	Medium To Coarse Sand Small Gravel White Broken Rock
** CTT-00-TOTAL THE VALUE OF THE COLUMN COLU		

Theis analysis of change in points of diversion, File Nos. 2,393; 5,191; 6,562; 19,401

A Theis analysis was used to evaluate the potential impacts of a set of change in point of diversions. The applications propose moving of File No. 2,393 and 6,562 to a new point of diversion located approximately 2400 feet southeast of the current location; moving File No. 19,401 to the point currently authorized by File Nos. 2,393 and 6,562; and moving File No. 5,191 to the point currently authorized by File No. 19,401.

An aquifer test was conducted by John Munson by measuring the drawdown at File 5,191 while pumping Files 2,393; 19,401; 7,334; and 1,662. Using the Theis solution the transmissivity was determined to be 24,540 ft 2 /day and the storage coefficient to be 0.0002843. The saturated thickness prior to beginning pumping was 119 feet. The current (17,334 ft 2 /day) and projected 2068 (6,881 ft 2 /day) transmissivities were estimated using five stratigraphic logs near the location of the pump test, the GMD No. 3 groundwater model projected future saturated thickness, and the calibrated hydraulic conductivities from the model. The transmissivity from the aquifer test was multiplied by the ratio of the estimated future transmissivity to the estimated current (40%) to adjust it to future conditions (9,741 ft 2 /day).

Pumping the proposed rate and quantity at the new location was compared to pumping the ten-year average use of 5,191 (65 acre-feet) at the last reported rate (90 gallons per minute). Drawdowns were evaluated at the point of diversion authorized by File No. 800. With these assumptions, the drawdown at File No. 800 increases by 11.9 feet, or 24.4% of the projected future saturated thickness (Table 1). If the proposed rate is limited to 664 gallons per minute, the net drawdown is 9.8 feet, or 20.0% of the projected future saturated thickness (Table 2).

Table 1: Theis analysis of drawdown at File No. 800: T = 9.741 ft²/day: S = 0.0002843

I dole al liles di	idiyolo of alawaowi	i at i ne i toi eee, i	5), , ,	0.00000	
	Distance	Quantity		Drawdown	Drawdown
Scenario	(Feet)	(Acre-Feet)	Rate (GPM)	(Feet)	(%ST)
Proposed	2,337	640	860	13.1	26.9%
Current	4,658	65.1	90	1.2	2.4%
***************************************			Net:	11.9	24.4%

Table 2: Theis analysis of drawdown at File No. 800; $T = 9,741 \text{ ft}^2/\text{day}$; S = 0.0002843

	Distance	Quantity		Drawdown	Drawdown
Scenario	(Feet)	(Acre-Feet)	Rate (GPM)	(Feet)	(%ST)
Proposed	2,337	640	664	10.9	22.4%
Current	4,658	65.1	90	1.2	2.4%
100 100 100 100 100 100 100 100 100 100			Net:	9.8	20.0%

Meyer, Mike [KDA]

From: Meyer, Mike [KDA]

Sent: Monday, April 26, 2021 3:18 PM

To:'Cory Weatherred'Subject:change applicationAttachments:20210426150512362.pdf

cory, the pump test provided a much higher transmissivity at your point of diversion that what the GMD3 model calculated. transmissivity is the ability of the aquifer to transmit groundwater throughout its entire saturated thickness. therefore, after our calculations, it appears there will be no reduction in annual quantity, but only a reduction in maximum diversion rate of 665 GPM.

if you agree, we would need Ms. Graham to agree to legally reduce Water Right, File Nos. 2393 and 6562 to a total of 665 GPM from 860 GPM total. Attached are 2 forms that she can sign and date, with a confirmation email back saying agree to legally reduce the water rights to 665 GPM and send the attached back.

let me know if you have questions

Michael A. Meyer, PG
Kansas Department of Agriculture
Division of Water Resources
Garden City Field Office
4532 W Jones Ave, Suite B
Garden City KS 67846
Lat 37.98820, Lon -100.944470
(620)-276-2901
mike.meyer@ks.gov

Meyer, Mike [KDA]

From:

Munson, John [KDA]

Sent:

Tuesday, April 20, 2021 4:15 PM

To:

Meyer, Mike [KDA]

Cc:

Engelhaupt, David [KDA]; Beightel, Chris [KDA]

Subject:

Graham aquifer test Section 12-23-34 west Finney County

Attachments:

pump7334&1662&2393&19401for9day.pdf

Hi Mike,

Attached is a PDF file of the AQTESOLV report of the Graham aguifer test in Section 12-23-34 west in Finney County.

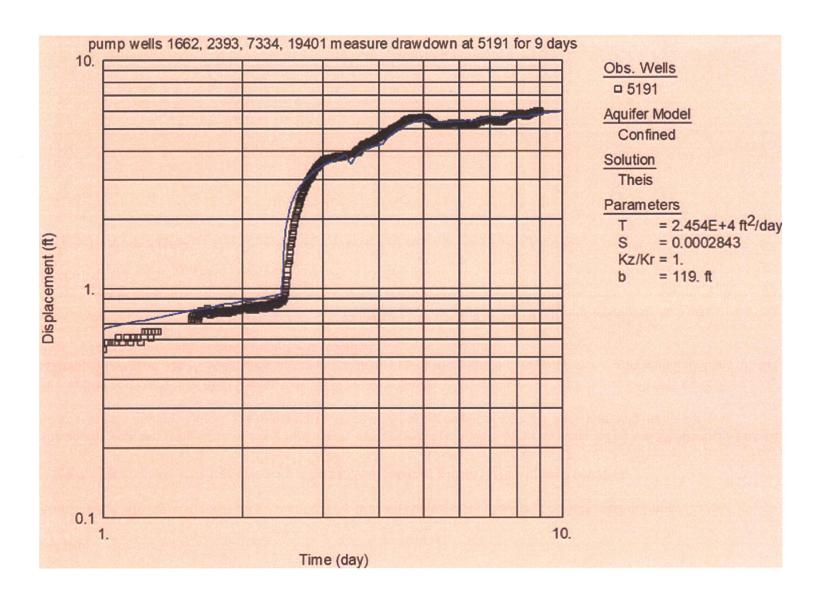
Using the Theis solution the transmissivity is T = 183,559 gpd/ft or 24,540 ft2/d and S = 0.0002843.

The aquifer test was conducted by measuring water levels at well 5,191 while pumping wells 2,393 and 19,401 in Section 12, Township 23 South, Range 34 West and pumping wells 1,662 and 7,334 to the north. None of the other neighboring wells were pumping during the test.

The aquifer test started on April 5 when well 7,334 began pumping as drawdown was observed at well 5,191 and at wells 2,393 and 19,401 prior to those wells starting to pump on April 7. Well 1,662 began pumping on April 9 and continued to pump along with wells 2,393 and 19,401 when the test was concluded on April 14 so no water level recovery period was recorded.

The saturated thickness of 119 feet used to compute the average hydraulic conductivity and specific storage was an average of the saturated thicknesses of the depth to water taken prior to the test at wells 2,393, 5,191, and 19,401 subtracted from the depth of the wells to shale from the well logs and includes clay layers.

Here is the AQTESOLV analysis result of the aquifer test. Details are in the attached PDF file.



John Munson
Groundwater Impairment Investigator
Technical Services
Water Management Services
Kansas Department of Agriculture
Division of Water Resources
1320 Research Park Drive

Manhattan, Kansas 66502

Office:785-564-6675 Field Cell: 785-256-1069

Time (day)	Displacement (ft)	Time (day)	Displacement (ft)
2.483	0.995	6.403	5.2
2.49	1.032	6.41	5.202
2.497	1.09	6.417	5.176
2.504	1.136	6.424	5.202
2.511	1.2	6.431	5.193
2.518	1.278	6.438	5.208
2.525	1.318	6.444	5.201
2.532	1.368	6.451	5.229
2.539	1.445	6.458	5.213
2.546	1.517	6.465	5.228
2.553	1.568	6.472	5.232
2.56	1.613	6.479	5.233
2.567	1.668	6.486	5.24
2.574	1.72	6.493	5.257
2.581	1.782	6.5	5.266
2.587	1.855	6.507	5.263
2.594	1.902	6.514	5.277
2.601	1.955	6.521	5.286
2.608	2.027	6.528	5.299
2.615	2.072	6.535	5.286
2.622	2.106	6.542	5.314
2.629	2.171	6.549	5.307
2.636	2.199	6.556	5.33
2.643	2.245	6.563	5.327
2.65	2.296	6.569	5.351
2.657	2.34	6.576	5.361
2.664	2.4	6.583	5.338
2.671	2.413	6.59	5.37
2.678	2.48	6.597	5.358
2.685	2.503	6.604	5.375
2.692	2.529	6.611	5.374
2.699	2.563	6.618	5.349
2.706	2.617	6.625	5.374
2.712	2.617	6.632	5.357
2.719	2.665	6.639	5.384
2.726	2.688	6.646	5.354
2.733	2.739	6.653	5.382
2.74	2.767	6.66	5.377
2.747	2.797	6.667	5.378
2.754	2.832	6.674	5.367
2.761	2.85	6.681	5.364
2.768	2.881	6.688	5.372
2.775	2.93	6.694	5.404
2.782	2.959	6.701	5.4
2.789	2.974	6.708	5.417
2.796	2.994	6.715	5.379
2.803 2.81 2.817 2.824 2.831	3.02 3.036 3.074 3.097 3.112	6.722 6.729 6.736 6.743	5.405 5.423 5.425 5.421
2.831 2.837 2.844 2.851	3.113 3.163	6.75 6.757 6.764 6.771	5.44 5.421 5.421 5.405
2.858 2.865 2.872 2.879	3.208 3.196 3.233 3.277 3.282	6.778 6.785 6.792 6.799	5.423 5.417 5.437 5.437
2.886 2.893	3.303 3.36 3.36	6.806 6.813 6.819	5.416 5.43 5.417
2.9 2.907 2.914 2.921 2.928	3.389 3.388 3.42 3.433	6.826 6.833 6.84 6.847	5.417 5.442 5.433 5.437
2.935	3.46	6.854	5.431
2.942	3.492	6.861	5.454
2.949	3.484	6.868	5.434
2.956	3.513	6.875	5.444
2.962	3.526	6.882	5.453
2.969	3.544	6.889	5.443
2.976	3.562	6.896	5.457

Time (day)	Displacement (ft)	Time (day)	Displacement (ft)
1.983	0.807	5.903	5.281
1.99	0.813	5.91	5.276
1.997	0.818	5.917	5.257
2.004	0.813	5.924	5.297
2.011	0.818	5.931	5.289
2.018	0.824	5.938	5.283
2.025	0.818	5.944	5.269
2.032	0.813	5.951	5.279
2.039	0.813	5.958	5.284
2.046	0.829	5.965	5.29
2.053	0.824	5.972	5.279
2.06	0.846	5.979	5.283
2.067	0.818	5.986	5.286
2.074	0.807	5.993	5.281
2.081	0.807	6.	5.298
2.087	0.824	6.007	5.259
2.094	0.813	6.014	5.276
2.101	0.818	6.021	5.253
2.108	0.824	6.028	5.246
2.115	0.829	6.035	5.272
2.122	0.807	6.042	5.245
2.129	0.824	6.049	5.245
2.136	0.807	6.056	5.209
2.143	0.841	6.063	5.218
2.15	0.818	6.069	5.226
2.157	0.835	6.076	5.218
2.164	0.824	6.083	5.205
2.171	0.841	6.09	5.215
2.178	0.835	6.097	5.195
2.185	0.835	6.104	5.195
2.192	0.824	6.111	5.196
2.199	0.835	6.118	5.192
2.206	0.824	6.125	5.205
2.212	0.846	6.132	5.188
2.219	0.829	6.139	5.187
2.226	0.835	6.146	5.209
2.233	0.818	6.153	5.21
2.24	0.846	6.16	5.218
2.247	0.824	6.167	5.208
2.254	0.846	6.174	5.239
2.261	0.846	6.181	5.211
2.268 2.275 2.282 2.289 2.296 2.303 2.31	0.846 0.841 0.835 0.829 0.852 0.858 0.846	6.188 6.194 6.201 6.208 6.215 6.222 6.229 6.236	5.231 5.227 5.207 5.21 5.217 5.193 5.228
2.317	0.846	6.236	5.228
2.317	0.852	6.243	5.21
2.324	0.846	6.25	5.208
2.331	0.858	6.257	5.212
2.337	0.846	6.264	5.2
2.344	0.869	6.271	5.203
2.351	0.852	6.278	5.191
2.358 2.365 2.372 2.379 2.386 2.393	0.846 0.858 0.863 0.858 0.874 0.874	6.278 6.285 6.292 6.299 6.306 6.313	5.197 5.187 5.18 5.18 5.18 5.198 5.191
2.4	0.891	6.319	5.186
2.407	0.863	6.326	5.196
2.414	0.874	6.333	5.183
2.421	0.88	6.34	5.186
2.428	0.886	6.347	5.192
2.435	0.88	6.354	5.197
2.442	0.874	6.361	5.184
2.449	0.886	6.368	5.202
2.456	0.895	6.375	5.207
2.462	0.913	6.382	5.179
2.469	0.931	6.389	5.2
2.476	0.952	6.396	5.175

Time (day)	Displacement (ft)	Time (day)	Displacement (ft)
1.146	0.58	5.403	5.137
1.167	0.61	5.41	5.155
1.188	0.61	5.417	5.13
1.208 1.229	0.58 0.65	5.424 5.431	5.13 5.148 5.158
1.25	0.65	5.438	5.141
1.271	0.61	5.444	5.122
1.292	0.65	5.451	5.115
1.313	0.65	5.458	5.134
1.546	0.728	5.465	5.139
1.553	0.739	5.472	5.141
1.56	0.751	5.479	5.117
1.567	0.767	5.486	5.152
1.574	0.734	5.493	5.169
1.581	0.756	5.5	5.137
1.587	0.767	5.507	5.175
1.594	0.734	5.514	5.176
1.601 1.608 1.615	0.722 0.756 0.751	5.521 5.528 5.535	5.177 5.18
1.622 1.629	0.751 0.773 0.801	5.542 5.549	5.166 5.179 5.204
1.636	0.784	5.556	5.211
1.643	0.773	5.563	5.193
1.65	0.779	5.569	5.201
1.657	0.79	5.576	5.187
1.664	0.796	5.583	5.201
1.671	0.79	5.59	5.209
1.678	0.818	5.597	5.23
1.685	0.801	5.604	5.221
1.692	0.79	5.611	5.221
1.699	0.773	5.618	5.214
1.706	0.767	5.625	5.221
1.712 1.719	0.79 0.79 0.79	5.632 5.639	5.227 5.239
1.726	0.773	5.646	5.227
1.733	0.779	5.653	5.214
1.74	0.79	5.66	5.242
1.747	0.779	5.667	5.218
1.754	0.784	5.674	5.249
1.761	0.779	5.681	5.241
1.768	0.801	5.688	5.252
1.775	0.79	5.694	5.237
1.782	0.796	5.701	5.237
1.789 1.796	0.796 0.796 0.813	5.701 5.708 5.715	5.237 5.228 5.254
1.803	0.79	5.722	5.256 5.259
1.81 1.817 1.824	0.801 0.79 0.796	5.729 5.736 5.743	5.263 5.249
1.831	0.784	5.75	5.253
1.837	0.79	5.757	5.272
1.844 1.851 1.858	0.807 0.807 0.79	5.764 5.771 5.778 5.785 5.792	5.259 5.249 5.264 5.253
1.865 1.872	0.784 0.796	5.776 5.785 5.792	5.253 5.246
1.879	0.801	5.799	5.242
1.886	0.801	5.806	5.267
1.893	0.801	5.813	5.252
1.9	0.796	5.819	5.277
1.907	0.796	5.826	5.248
1.914	0.79	5.833	5.274
1.921	0.801	5.84	5.277
1.928	0.813	5.847	5.274
1.935	0.807	5.854	5.286
1.942 1.949	0.807 0.796 0.813	5.861 5.868	5.247 5.29
1.956	0.807	5.875	5.27
1.962	0.807	5.882	5.264
1.969	0.801	5.889	5.262
1.976	0.807	5.896	5.236

	Pumping Pe	eriod Data		
Time (day)	Rate (gal/min)	Time (day)	Rate (gal/min)	
4.042	437.3	7.124	414.5	
4.125	538.5	8.337	478.6	

OBSERVATION WELL DATA

No. of observation wells: 1 Observation Well No. 1: 5191

X Location: 0. ft Y Location: 0. ft

Radial distance from 2393: 2443.634456 ft Radial distance from 19401: 1789.723762 ft Radial distance from 7334: 5223.711561 ft Radial distance from 1662: 4280.709842 ft

Fully Penetrating Well

No. of Observations: 1127

Time (day)	Observati Displacement (ft)	on Data Time (day)	Displacement (ft)
0.1458	0.04	5.069	5.533
0.1667	0.08	5.076	5.541
0.1875	0.08	5.083	5.539
0.2083	0.11	5.09	5.549
0.2292	0.08	5.097	5.539
0.25	0.15	5.104	5.539
0.2708	0.15	5.111	5.519
0.2917	0.15	5.118	5.523
0.3125	0.22	5.125	5.506
0.3333	0.22	5.132	5.504
0.3542	0.18	5.139	5.481
0.375	0.22	5.146	5.461
0.3958	0.22	5.153	5.454
0.4167	0.26	5.16	5.424
0.4375	0.29	5.167	5.423
0.4583	0.29	5.174	5.392
0.4792	0.26	5.181	5.398
0.5	0.29	5.188	5.398
0.5208	0.33	5.194	5.381
0.5417	0.33	5.201	5.361
0.5625 0.5833 0.6042	0.33 0.37 0.37	5.208 5.215	5.348 5.362 5.353
0.625 0.6458	0.37 0.37 0.4	5.222 5.229 5.236	5.342 5.335
0.6667 0.6875	0.4 0.4 0.4	5.243 5.25	5.332 5.317
0.7083	0.4	5.257	5.295
0.7292	0.44	5.264	5.287
0.75	0.48	5.271	5.281
0.7708	0.44	5.278	5.281
0.7917	0.48	5.285	5.257
0.8125	0.48	5.292	5.253
0.8333	0.48	5.299	5.233
0.8542	0.48	5.306	5.243
0.875	0.51	5.313	5.214
0.8958	0.54	5.319	5.237
0.9167	0.51	5.326	5.211
0.9375	0.54	5.333	5.189
0.9583 0.9792 1.	0.54 0.54 0.54	5.34 5.347 5.354	5.181 5.196
1.021 1.042	0.58 0.58	5.361 5.368	5.192 5.179 5.166
1.063	0.58	5.375	5.162
1.083	0.61	5.382	5.138
1.104	0.58	5.389	5.135
1.125	0.61	5.396	5.157

Time (day) 5.424 5.431 5.438 5.444 5.451 5.458 5.465 5.472 5.486 5.507 5.514 5.521 5.521 5.521 5.5523 5.5569 5.5563 5.569 5.569 5.569 5.6611 5.618 5.625 5.667 5.681 5.688 5.694	Rate (gal/min) 606.4 606.3 607.4 607.9 608.9 610.1 611.3 611.5 612.6 613.7 613.4 614.6 615.5 615.1 615.5 616.2 616.3 615.1 615.5 616.5 616.5 616.7 615.5 616.7 615.2 614.8 614.7 615.2	Time (day) 8.701 8.708 8.715 8.715 8.722 8.729 8.736 8.743 8.75 8.757 8.764 8.771 8.778 8.785 8.792 8.799 8.806 8.813 8.819 8.826 8.833 8.844 8.854 8.861 8.868 8.875 8.882 8.889 8.896 8.903 8.91 8.917 8.924 8.931 8.938 8.944 8.951 8.958 8.955 8.972	Rate (gal/min) 624.8 624.1 621.6 622.2 622.6 618.4 615.2 621.2 614.3 620.1 620.5 622.1 620.6 623.9 629.3 628.5 630.9 631. 631.3 630.9 630.3 629.2 628.1 628.9 628. 623.8 610.2 609.4 609. 610.5 612.9 616.1 617.4 619.7 619.7 619.7 616.
5.701	615.2	0.972	616.

Pumping Well No. 3: 7334

X Location: 3146.2872 ft Y Location: 4169.8968 ft

Casing Radius: 1. ft Well Radius: 1. ft

Fully Penetrating Well

No. of pumping periods: 6

	Pumping Po	eriod Data	
Time (day)	Rate (gal/min)	Time (day)	Rate (gal/min)
0.	550.7	3.109	517.
0.189	521.	4.132	503.1
2.138	534.3	5.	0.

Pumping Well No. 4: 1662

X Location: 147.636 ft Y Location: 4278.1632 ft

Casing Radius: 1. ft Well Radius: 1. ft

Fully Penetrating Well

No. of pumping periods: 4

Time (day) 4.924 4.931 4.938 4.944 4.951 4.958	Rate (gal/min) 636.1 636. 635.6 636.3 637. 635.	Time (day) 8.201 8.208 8.215 8.222 8.229 8.236	Rate (gal/min) 620.6 619.7 618.8 618.8 619.1 615.1
4.965 4.972 4.979 4.986 4.993 5. 5.007	634.7 634.9 633.5 634. 633.6 632.3 630.5 630.4	8.243 8.25 8.257 8.264 8.271 8.278 8.285 8.292	618.8 619.7 617.8 617.9 618.4 618.7 617.8 619.
5.021 5.028 5.035 5.042 5.049 5.056 5.063 5.069	630. 629. 629.7 628.4 628. 628.1 627.1	8.299 8.306 8.313 8.319 8.326 8.333 8.34 8.347	616.1 618.2 618.5 617.5 617.2 616.5 617.7 617.6
5.066 5.076 5.083 5.09 5.097 5.104 5.111 5.118 5.125	691.9 292.1 373.4 614.8 614.3 613.2 611.5 612.	8.354 8.361 8.368 8.375 8.382 8.389 8.396 8.403	617.5 617.8 617.9 617.6 617.4 617.6 617.9 618.6
5.132 5.139 5.146 5.153 5.16 5.167 5.174	613. 612.8 612.4 609.6 607.8 609.8 610.4	8.41 8.417 8.424 8.431 8.438 8.444 8.451	618. 618.3 618.3 618.7 618.7 618.5 618.2
5.181 5.188 5.194 5.201 5.208 5.215 5.222 5.229	611.1 609.6 607.8 608.9 607.4 608.9 608.5 608.8	8.458 8.465 8.472 8.479 8.486 8.493 8.5	618.8 619.4 619.9 620.2 620.5 621.1 620.9 621.2
5.236 5.243 5.25 5.257 5.264 5.271 5.278 5.285	610.2 610.2 609. 608.7 609.9 608.4 609.3 608.3	8.514 8.521 8.528 8.535 8.542 8.549 8.556 8.563	621.6 621.1 621.2 620.9 620.6 620.3 620.5 621.3
5.292 5.299 5.306 5.313 5.319 5.326 5.333 5.34	608.5 608.5 608.2 607.6 607.7 607.4 606.5	8.569 8.576 8.583 8.59 8.597 8.604 8.611 8.618	622.9 623.5 623.6 623.6 622.6 622.8 622.
5.347 5.354 5.361 5.368 5.375 5.382 5.389 5.396	606.9 607.2 606.9 607.5 606.6 607.3 605.6 606.8	8.625 8.632 8.639 8.646 8.653 8.66 8.667	622.5 622.7 623.6 623.6 623.6 624. 624.3
5.403 5.41 5.417	606.9 606.6 606.8	8.681 8.688 8.694	625.1 624.8 624.6

Time (day)	Rate (gal/min)	Time (day)	Rate (gal/min)
4.424	615.6	7.701	629.4
4.431	616.9	7.708	619.9
4.438	617.6	7.715	626.6
4.444	615.3	7.722	618.6
4.451	612.	7.729	621.8
4.458	615.4	7.736	630.
4.465	619.2	7.743	629.9
4.472	620.6	7.75	631.6
4.479	621.3	7.757	630.7
4.486 4.493 4.5	620.9 624.1 626.	7.764 7.771 7.778	630.4 630.9
4.507 4.514	633.2 633.2	7.785 7.792	631.8 632. 632.1
4.521	633.6	7.799	631.8
4.528	631.5	7.806	631.6
4.535	634.3	7.813	630.6
4.542 4.549	635.5 635.6	7.819 7.826 7.833	630.9 630.7
4.556 4.563 4.569	636.6 638. 638.6	7.833 7.84 7.847 7.854	630.1 629.5 628.5
4.576	639.3	7.854	628.1
4.583	638.3	7.861	624.8
4.59	637.8	7.868	620.5
4.597	637.	7.875	627.1
4.604	637.9	7.882	627.6
4.611	637.8	7.889	620.5
4.618	636.2	7.896	617.8
4.625	637.3	7.903	615.8
4.632	638.3	7.91	618.3
4.639	638.6	7.917	625.6
4.646	638.5	7.924	626.9
4.653	639.	7.931	629.3
4.66	638.6	7.938	629.6
4.667	638.2	7.944	628.8
4.674	637.5	7.951	630.3
4.681	636.5	7.958	629.9
4.688	637.5	7.965	626.2
4.694	640.5	7.972	628.2
4.701	640.1	7.979	621.3
4.708	638.6	7.986	614.6
4.715	635.	7.993	613.1
4.722	638.7	8.	617.7
4.729	638.9	8.007	617.2
4.736	638.7	8.014	618.9
4.743	640.5	8.021	622.5
4.75 4.757 4.764	640.2 638.9 638.5	8.028 8.035	626.7 625.2 624.
4.771 4.778	638.8 638.2	8.042 8.049 8.056	625.1 621.
4.785 4.792 4.799	638.6 639.5 638.6 637.7	8.063 8.069 8.076 8.083	620.6 620.8 625.4
4.806	637.7	8.083	625.4
4.813	638.	8.09	623.9
4.819	637.3	8.097	625.9
4.826	636.9	8.104	624.4
4.833	637.	8.111	623.2
4.84	636.1	8.118	617.9
4.847	632.4	8.125	620.6
4.854	634.4	8.132	621.3
4.861	635.9	8.139	618.7
4.868	638.	8.146	623.
4.875	637.6	8.153	621.9
4.882	638.3	8.16	621.5
4.889	637.	8.167	619.6
4.896	637.1	8.174	622.5
4.903	636.4	8.181	618.9
4.91	635.7	8.188	622.1
4.917	635.9	8.194	623.5
7.017	000.0	0.137	020.0

Time (day) 3.924 3.931 3.938 3.944 3.951 3.958 3.965 3.972 3.979 3.986 3.993 4.007 4.014 4.021 4.028 4.042 4.049 4.056 4.063 4.069 4.076 4.083 4.097 4.111 4.118 4.125 4.132 4.139 4.146 4.167 4.174 4.181 4.188 4.194 4.201 4.222 4.229 4.236 4.243 4.257 4.257	Rate (gal/min) 627.2 627.7 625.6 624.2 627.5 625.2 624.8 624. 626.4 627.5 625.1 621.6 622.1 623.1 621.6 623.3 626.4 626.2 627.4 626.5 622.8 627.4 626.2 627.5 628.9 629.2 627.8 626.2 627.5 624.5 625.3 625.9 621.4 621.3 621.8 624.7 624.1 625.5 623.3 624.4 625.6 624.4 625.6 624.4 625.6 624.4 625.6	Time (day) 7.201 7.208 7.215 7.222 7.229 7.236 7.243 7.25 7.257 7.264 7.271 7.278 7.285 7.292 7.299 7.306 7.313 7.319 7.326 7.333 7.34 7.347 7.354 7.361 7.368 7.375 7.382 7.389 7.396 7.403 7.41 7.424 7.431 7.424 7.431 7.424 7.431 7.424 7.431 7.424 7.431 7.424 7.431 7.428 7.458 7.465 7.479 7.465 7.479 7.514 7.521 7.521 7.528 7.535	Rate (gal/min) 610.3 611.6 610.6 611.2 610.2 611.1 612.6 611.1 612.6 610.7 611.6 610.7 611.6 610.7 611.6 615.8 615.3 615.3 607.6 615.3 616.6 612.5 604.6 608.6 608.6 608.7 604.6 608.6 617.3 616.6 612.5 604.6 617.4 623.4 624.2 625.5
4.201 4.208 4.215 4.222 4.229 4.236 4.243 4.25	623.3 623.1 623.4 624.4 625. 624.8 621.8 619.4	7.479 7.486 7.493 7.5	624.5 625.4 618.3 616.7 612.3 617.4 626.7 624.2

	,		
Time (day) 3.424 3.431 3.438 3.444 3.451 3.458 3.465 3.479 3.4863 3.507 3.514 3.528 3.535 3.5563 3.5563 3.5563 3.5563 3.5563 3.5563 3.5667 3.681 3.6881 3.6881 3.6881 3.6884 3.701 3.778 3.789 3.819 3.826 3.833 3.847 3.847 3.8896 3.8903 3.91	Rate (gal/min) 690.3 690.6 691.5 692.3 692.9 691.4 652. 630.2 631.7 632.2 634.7 635.3 634.6 634.4 634.3 634.6 635.5 633.3 633.5 634.6 635.1 633.5 633.7 633.7 633.8 631.7 633.8 631.7 633.8 631.7 632.8 633.9 634.6 629.9 628.8 629.9 628.8 629.9 629.8 629.9 628.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.9 629.8 629.9 629.8 629.9 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9 629.8 629.9	Time (day) 6.701 6.708 6.715 6.722 6.729 6.736 6.743 6.757 6.764 6.771 6.778 6.785 6.799 6.806 6.813 6.819 6.826 6.833 6.847 6.868 6.896 6.891 6.917 6.924 6.931 6.938 6.944 6.951 6.958 6.969 7.7014 7.028 7.035 7.049 7.056 7.069 7.077 7.014 7.111 7.118 7.125 7.132 7.104 7.111 7.118 7.125 7.139 7.146 7.153 7.167 7.174 7.118	Rate (gal/min) 613.7 615.8 622.2 622.6 622.2 622.6 622.1 622.1 615.3 611.2 615.3 611.2 615.3 611.2 615.3 611.3 611.3 611.3 612.3 613.3 632.3 632.3 6331.3 63
3.917	626.8	7.194	616.7

Time (day)	Rate (gal/min)	Time (day)	Rate (gal/min)
2.924	625.5	6.201	595.6
2.931	625.1	6.208	596.6
2.938	624.7	6.215	594.4
2.944	621.8	6.222	594.1
2.951	619.	6.229	595.
2.958	613.9	6.236	595.5 595.6
2.965	620.3	6.243	595.3
2.972	621.	6.25	
2.979	620.1	6.257	595.6
2.986	619.3	6.264	597.8
2.993	619.3	6.271 6.278	596.
3.	619.7	6.285	598.3
3.007	618.6		597.1
3.014	618.3	6.292	596.9
3.021	616.5	6.299	599.1
3.028	617.4	6.306	620.2
3.035	617.2	6.313	637.9
3.042	616.3	6.319	608.3
3.049	615.5	6.326	603.
3.056	614.2	6.333	601.
3.063	614.	6.34	602.5
3.069	614.3	6.347	602.3
3.076	612.2	6.354	602.4
3.083	612.3	6.361	605.1
	611.9	6.368	604.7
3.09 3.097	612.7	6.375	607.
3.104	610.5	6.382	607.2
3.111	611.1	6.389	604.1
3.118	611.2	6.396 6.403	605.5 605.6
3.125 3.132	611. 611.8	6.41	606.6
3.139	611.	6.417	606.8
3.146	610.8	6.424	608.9
3.153	610.9	6.431	607.4
	611.6	6.438	607.
3.16 3.167	611.1	6.444	607.8
3.174	610.7	6.451	607.9
3.181	611.2	6.458	605.3
3.188	610.4	6.465	606.1
	610.8	6.472	604.9
3.194 3.201	610.4	6.479	604.1
3.208	611.3	6.486	603.9
3.215	612.8	6.493	604.1
3.222	612.8	6.5	602.1 601.
3.229 3.236	612.3 614.	6.507 6.514 6.521 6.528	608.2
3.243 3.25	614. 612.9 612.5	6.521 6.528	610.2 608.8
3.257	612.5	6.535	613.4
3.264	611.8	6.542	608.
3.271	612.2	6.549	606.9
3.278	612.3	6.556	604.6
3.285		6.563	602.6
3.292 3.299	612.3 611.5 611.9 611.5	6.569 6.576	604.8 603.9
3.306	612.	6.583	604.3 606.
3.313	611.6	6.59	606.4
3.319	612.3	6.597	
3.326	611.5	6.604	604.9
3.333	611.4	6.611	605.
3.34	610.9	6.618	604.7
3.347	611.5	6.625	608.1
3.354	610.6	6.632	606.9
3.361	658.	6.639	605.9
3.368	685.8	6.646	607.6
3.375	685.	6.653 6.66	608.4 610.9
3.382 3.389	685. 686.2	6.667	616.7
3.396	686.8	6.674	616.4
3.403	686.5	6.681	617.9
3.41	688.3	6.688	613.8
3.417	689.3	6.694	615.2
J.417	003.3	0.034	013.2

Pumping Period Data Rate (gal/min) Time (day) Rate (gal/min) Time (day) S.708 614.7
2.729 627.5 6.007 607. 2.736 626.2 6.014 606.6 2.743 625.2 6.021 605.8 2.75 625.3 6.028 597.6 2.757 626.1 6.035 591.1 2.764 626. 6.042 590. 2.771 626.5 6.049 590.8 2.778 625.3 6.056 592.7 2.785 625.3 6.063 595.3 2.792 625.6 6.069 595.7 2.799 626. 6.076 595.5 2.806 626.7 6.083 595.7 2.813 627.4 6.09 595.7 2.819 627.5 6.097 592.6 2.826 625.4 6.104 594.3 2.833 624.6 6.111 596.1 2.844 623.8 6.118 594.4 2.847 624.7 6.125 595.2 2.854 625.7 6.132 595.6 2.868 625.6 6.146 5

Time (day) 5.306 5.3319 6.3319	Rate (gal/min) 591.1 591.5 589.8 588.8 592.1 591.9 592. 591.7 592.8 591.4 594.4 594.4 594.2 593.6 594.4 594.4 594.2 593.6 603.3 601. 599.2 603.5 599.9 596.1 601.2 597.3 597.1 595.2 597.3 597.1 595.2 597.3 597.1 595.2 597.3 597.1 595.2 597.3 597.1 595.2 597.3 597.1 595.2 597.3 597.1 595.2 597.3 597.1 595.2 597.3 597.1 595.2 597.3 597.1 595.2 597.3 597.1	Time (day) 8.576 8.583 8.599 8.597 8.604 8.611 8.625 8.632 8.639 8.646 8.653 8.667 8.667 8.681 8.688 8.694 8.701 8.705 8.715 8.722 8.729 8.736 8.743 8.757 8.764 8.771 8.778 8.785 8.792 8.819 8.826 8.833 8.847 8.854 8.868 8.896 8.896 8.891 8.896 8.891 8.9931 8.931 8.931 8.931 8.938 8.944 8.955	Rate (gal/min 614.7 618.6 619.7 618.6 618.1 617.9 618.6 618.1 617.9 618.8 618.5 618.8 618.5 618.6 619.7 619.9 619.1 619.0 619.1 619.0 619.1 619.0 619.1 619.0 619.
5.681 5.688 5.694 5.701	603. 599.9 604.7 605.3		

Pumping Well No. 2: 19401

X Location: 410.1 ft Y Location: 1742.1048 ft

Casing Radius: 1. ft Well Radius: 1. ft

Fully Penetrating Well

No. of pumping periods: 943

Time (day) 4.799 4.806 4.813 4.826 4.833 4.847 4.868 4.8854 4.865 4.8963 4.917 4.924 4.938 4.994 4.995 5.001 4.9986 4.999 5.001 5.0020 5.0040	Rate (gal/min) 574.4 578.8 578.6 579.3 578.2 579.7 581.4 579.8 576.3 575.2 577.2 576.2 577.2 576.2 579.4 580.7 578.6 579.1 580.9 580.9 578.6 579.1 578.6 579.8 579.8 578.8 579.8 578.8 578.9 580.9 578.1 580.9 578.6 579.1 578.6 579.8 578.6 579.8 578.6 609.6 605.8 607.1 604.5 609.6 605.8 607.1 604.5 607.1 604.5 607.1 604.5 607.1 597.7 599.5 597.7 599.5 597.7 599.8 578.8 578.8 578.8 578.8 578.8 578.8 578.8 578.8 578.8 578.9 578.9 599.8 578.9 599.9 599.9 599.9 599.9 599.9 599.9 599.9 599.9	Time (day) 8.076 8.083 8.097 8.104 8.111 8.1125 8.1329 8.146 8.153 8.1467 8.1488 8.153 8.167 8.1888 8.194 8.201 8.2229 8.2229 8.2229 8.2229 8.2236 8.2229 8.2236 8.2257 8.2264 8.2278 8.2292 8.334 8.347 8.354 8.361 8.375 8.389 8.396 8.319 8.334 8.347 8.4424 8.4431 8.4451 8.458 8.457 8.458 8.457 8.465 8.479 8.486 8.479 8.486 8.479 8.486 8.479 8.486 8.479 8.486 8.479 8.486 8.479 8.486 8.470 8.528 8.535 8.542	Rate (gal/min) 617.6 619.3 618.4 619.3 614.6 614.9 615.2 613.3 614.6 614.9 615.2 613.3 614.6 619.2 613.3 614.9 615.2 613.3 614.9 613.5 609.2 610.5 609.4 609.6 607.7 609.6 607.7 609.6 609.6 610.6 609.6 610.6 613.3 614.9 613.6 612.7 613.4 613.6 612.7 613.4 613.6 612.7 613.4 613.6 612.7 613.4 613.6 612.7 613.4 613.6 612.7 613.4 613.6 612.7 613.4 613.6 612.7 613.4 613.6 613
5.243 5.25	594.5 591.3	8.528	614.2

Time (day) 4.299 4.306 4.313	Rate (gal/min) 591. 591.3 590.8	Time (day) 7.576 7.583	Rate (gal/min) 621.4 625.3 626.3
4.319 4.326 4.333 4.34	591.5 590.4 590.7 591.3	7.59 7.597 7.604 7.611 7.618	622.8 622.2 624.1 622.2
4.347	591.1	7.625	623.6
4.354	590.6	7.632	624.
4.361	590.6	7.639	624.5
4.368	590.6	7.646	623.9
4.375	591.2	7.653	623.1
4.382	591.3	7.66	625.2
4.389	590.2	7.667	625.9
4.396	590.3	7.674	626.6
4.403	589.8	7.681	625.3
4.41	591.1	7.688	624.
4.417	592.	7.694	625.5
4.424	592.5	7.701	621.5
4.431	592.	7.708	619.3
4.438	591.3	7.715	619.1
4.444	592.7	7.722	620.5
4.451	594.1	7.729	617.2
4.458	593.9	7.736	621.5
4.465	591.9	7.743	621.1
4.472	591.7	7.75	619.2
4.479	592.	7.757	621.8
4.486	591.2	7.764	623.9
4.493	589.8	7.771	623.7
4.5	590.4	7.778	623.9
4.507	588.6	7.785	622.9
4.514	588.6	7.792	624.2
4.521 4.528 4.535 4.542	587.3 586.5 585.2 581.5	7.799 7.806 7.813 7.819	624.2 624.1 620.6 624.9 626.
4.549	585.7	7.826	625.1
4.556	586.2	7.833	626.6
4.563	581.	7.84	627.
4.569	580.	7.847	629.
4.576	580.8	7.854	631.5
4.583	585.3	7.861	628.1
4.59	585.1	7.868	628.5
4.597	585.6	7.875	624.8
4.604	584.6	7.882	623.4
4.611	585.2	7.889	633.5
4.618	585.7	7.896	633.1
4.625	584.9	7.903	635.4
4.632 4.639 4.646 4.653 4.66	583.1 580.5 579.1 577.5 577.5	7.91 7.917 7.924 7.931 7.938	634.2 622.4 616.1 613.9
4.667 4.674 4.681 4.688	577.1 579.4 580.9 575.6	7.936 7.944 7.951 7.958 7.965	611.4 616.3 625.3 625.3 617.2
4.694	572.4	7.972	622.9
4.701	574.8	7.979	626.7
4.708	571.	7.986	630.
4.715	574.8	7.993	632.3
4.722	575.8	8.	630.3
4.729	577.4	8.007	627.
4.736	578.1	8.014	623.7
4.743	574.	8.021	620.6
4.75	574.3	8.028	621.6
4.757	579.4	8.035	620.1
4.764	579.6	8.042	619.7
4.771	578.3	8.049	616.8
4.778	578.4	8.056	617.8
4.785	576.9	8.063	618.
4.792	574.5	8.069	619.4

Time (day) 3.799 3.806 3.813 3.819 3.826 3.833 3.84 3.854 3.854 3.861 3.868 3.875 3.889 3.896 3.903 3.91 3.917 3.924 3.931 3.938 3.944 3.951 3.958 3.965 3.979 3.986 3.979 3.986 3.993 4.007 4.014 4.021 4.028 4.035	Rate (gal/min) 575. 580.3 583.3 590.2 589. 592.4 588.8 597. 590.6 596.4 596.7 594.5 593.3 589.5 591.7 590.6 589.8 592.5 593.7 594.9 596. 596.6 596.7 595.5 595.3 593.9 593.3 592.2 592.4 592.3 592.7 592.8 592.7	Time (day) 7.076 7.083 7.09 7.097 7.104 7.111 7.118 7.125 7.132 7.139 7.146 7.153 7.16 7.167 7.174 7.181 7.188 7.194 7.201 7.208 7.215 7.222 7.229 7.229 7.236 7.243 7.25 7.257 7.264 7.271 7.278 7.285 7.292 7.299 7.306 7.313	Rate (gal/min) 629.1 628.5 628.1 628.6 627.7 628.9 628.7 627.5 626.8 624.1 623.2 624.1 625.4 625.4 625.4 625.4 625.4 625.9 625.2 623.5 623.5 623.9 623.5 623.5 623.9 625.6 625.1 625.1 625.1 625.2 625.3 625.6 625.3 625.3 625.3
4.028	592.7 592.8 592.7 592.8 592.5 591.1 590.8 591.9 592.3 591.5 592.3 590.6 592.1 592.3 590.7 588.2 591.5 588.3 586.9 587.5 586.3 587.5 588.8 589.8 589.8	7.299 7.306 7.313 7.319 7.326 7.333 7.34 7.354 7.354 7.361 7.368 7.375 7.389 7.403 7.41 7.424 7.431 7.424 7.431 7.458 7.458 7.479 7.486 7.479 7.486 7.493 7.507 7.514 7.528 7.528 7.528 7.535 7.542 7.563 7.569	622.9 625. 618.1 616.6 618.8 619.3 619.7 624.9 623.7 624.9 625.7 629.1 629.1 629.1 628.8 627.2 608.3 609.3 609.3 619.3 6

Time (day)	Rate (gal/min)	Time (day)	Rate (gal/min)
3.299	565.5	6.576	627.5
3.306	564.8	6.583	628.4
3.313	565.5	6.59	628.1
3.319	564.9	6.597	628.4
3.326	565.7	6.604	629.5
3.333	566.1	6.611	629.5
3.34	567.1	6.618	630.
3.347	568.	6.625	629.
3.354	570.8	6.632	628.6
3.361	129.5	6.639	630.5
3.368	0.76	6.646	630.1
3.375	0.652	6.653	629.7
3.382	0.652	6.66	629.
3.389	0.652	6.667	627.2
3.396	0.652	6.674	627.7
3.403	0.652	6.681	628.1
3.41	0.652	6.688	628.5
3.417	0.652	6.694	628.2
3.424	0.652	6.701	628.7
3.431	0.652	6.708	627.3
3.438	0.652	6.715	626.
3.444	0.652	6.722	625.7
3.451	0.652	6.729	626.4
3.458	79.4	6.736	626.6
3.465	645.8	6.743	627.4
3.472	615.6	6.75	632.3
3.479	596.	6.757	630.6
3.486	593.	6.764	628.2
3.493	594.8	6.771	631.7
3.5	593.2	6.778	631.3
3.507	594.4	6.785	631.6
3.514	595.9	6.792	630.6
3.521	603.	6.799	629.1
3.528	601.5	6.806	623.9
3.535	597.1	6.813	622.3
3.542	595.2	6.819	623.5
3.549	607.2	6.826	621.8
3.556	598.5	6.833	620.
3.563	593.7	6.84	621.1
3.569	592.3	6.847	622.9
3.576	603.4	6.854	624.1
3.583	604.	6.861	620.5
3.59	601.1	6.868	620.6
3.597	604.8	6.875	621.8
3.604 3.611 3.618 3.625 3.632	605.9 597.5 595.4 595.4 599.6	6.882 6.889 6.896 6.903 6.91	620.6 620.9 620.
3.639 3.646 3.653 3.66	595.7 599.2 594.4 591.7	6.917 6.924 6.931 6.938	621.2 622.6 622.9 621.4 619.3 619.7
3.667	598.3	6.944	619.7
3.674	592.9	6.951	619.7
3.681	592.1	6.958	620.2
3.688	597.8	6.965	623.2
3.694	598.	6.972	625.3
3.701 3.708 3.715 3.722	598. 595. 585.9 587.4 592.1	6.972 6.979 6.986 6.993	628.5 631. 630.8 631.8
3.729 3.736 3.743 3.75 3.757	578.6 588.1 591.5 582.5 578.2	7.007 7.014 7.021 7.028 7.035 7.042	630.2 630. 630.3 631.1 630.8
3.764	579.1	7.042	629.5
3.771	582.2	7.049	628.9
3.778	576.1	7.056	629.4
3.785	580.5	7.063	629.8
3.792	584.1	7.069	630.

Time (day) 2.799 2.806 2.813 2.826 2.833 2.847 2.854 2.868 2.875 2.889 2.8903 2.91 2.917 2.924 2.931 2.958 2.965 2.972 2.986 2.979 2.986 2.979 2.986 3.028 3.049 3.049 3.056 3.069 3.076 3.083 3.097 3.111 3.118 3.125 3.139 3.146 3.153 3.167 3.174 3.181 3.125 3.139 3.146 3.153 3.167 3.174 3.188 3.194 3.208 3.257 3.264 3.278 3.278 3.278 3.278	Rate (gal/min) 563.6 562.7 562.9 564.5 562.19 564.5 562.19 564.5 563.1 566.1.9 563.6 562.4 566.3 566.3 566.3 566.3 566.3 566.3 566.1 566.1 566.1 566.1 566.1 566.1 566.1 566.1 566.1 566.2 566.2 566.3	Time (day) 6.076 6.083 6.097 6.104 6.118 6.129 6.118 6.129 6.118 6.129 6.184 6.188 6.152 6.184 6.188 6.194 6.188 6.194 6.188 6.194 6.208 6	Rate (gal/min) 613.3 612.9 611.8 611
3.285	565.4	6.563	627.
3.292	565.5	6.569	627.2

AQTESOLV for Windows pump wells 1662, 2393, 7334, 19401 measure drawdown at 5191 for 9 days

Data Set: C:\Users\JMUNSON\OneDrive - State of Kansas, OITS\JMunson\pump7334&1662&2393&19401for

PUMPING WELL DATA

No. of pumping wells: 4

Pumping Well No. 1: 2393

X Location: 1893.0216 ft Y Location: 1545.2568 ft

Casing Radius: 1. ft Well Radius: 1. ft

Fully Penetrating Well

No. of pumping periods: 943

Time (day) 2.431 2.438 2.444 2.451 2.458 2.465 2.472 2.479 2.486 2.493	Pumping P Rate (gal/min) 557.4 662.5 613.5 604.9 599.9 593.6 591.2 588.2 585.3 583.5	eriod Data Time (day) 5.708 5.715 5.722 5.729 5.736 5.743 5.75 5.757 5.764 5.771	Rate (gal/min) 604.5 606.7 606.5 606. 607.2 607.3 604.2 602.5 602.2 604.3
2.5 2.507 2.514 2.521 2.528 2.535 2.542 2.549 2.556 2.563 2.569 2.576 2.576	585.8 584.4 582.7 585.3 582.3 576.3 564.7 566.1 564.5 565.2 566.7	5.778 5.785 5.792 5.799 5.806 5.813 5.819 5.826 5.833 5.847 5.854	608. 596.6 600.8 600.5 597.1 610.5 611.7 616.2 607.5 601.2 598.5 597.3
2.59 2.597 2.604 2.611 2.618 2.625 2.632 2.639 2.646 2.653 2.667 2.667 2.667 2.681 2.688 2.694	567.2 566.4 566.2 565.1 563.2 564.5 564.8 566.4 563.3 563.9 564.7 563.7 563.7 562.6 563.	5.868 5.875 5.882 5.889 5.896 5.903 5.917 5.924 5.931 5.938 5.944 5.951 5.958 5.965 5.972	601.3 608.6 603.7 607.3 607.6 607.4 606.7 607.5 605.2 603. 607. 610.6 607.7 610.3 613.4
2.701 2.708 2.715 2.722 2.729 2.736 2.743 2.75 2.757 2.764 2.771 2.778 2.778 2.785 2.792	563.5 562.7 562.7 560.5 560.5 561.6 562.2 561.9 561.1 561.4 559.9 560.7 561.8 563.3	5.979 5.986 5.993 6. 6.007 6.014 6.021 6.028 6.035 6.042 6.049 6.056 6.063 6.069	615.2 616.5 617.3 615.1 616.6 615.4 613.5 613.9 615. 614.1 613.4 613.4 613.6

D. Engelhaupt 3/22/2021

Theis analysis of change in points of diversion, File Nos. 2,393; 5,191; 6,562; 19,401

A Theis analysis was used to evaluate the potential impacts of a set of change in point of diversions. The applications propose moving of File No. 2,393 and 6,562 to a new point of diversion located approximately 2400 feet southeast of the current location; moving File No. 19,401 to the point currently authorized by File Nos. 2,393 and 6,562; and moving File No. 5,191 to the point currently authorized by File No. 19,401. The 2068 projected saturated thickness (49 feet) and transmissivity (1,693 ft²/day) from the GMD No. 3 groundwater model were used. The specific storage was assumed to be 10⁻⁵, which results in a storage coefficient of 0.0005. Pumping the proposed rate and quantity at the new location was compared to pumping the ten-year average use of 5,191 (65 acre-feet) at the last reported rate (90 gallons per minute). Drawdowns were evaluated at the point of diversion authorized by File No. 800. With these assumptions, the drawdown at File No. 800 increases by 52.8 feet, or 107.9% of the projected future saturated thickness.

Table 2: Theis analysis of drawdown at File No. 800; $T = 1,693 \text{ ft}^2/\text{day}$; S = 0.0005

	Distance	Quantity		Drawdown	Drawdown
Scenario	(Feet)	(Acre-Feet)	Rate (GPM)	(Feet)	(%ST)
Proposed	2,337	640.0	860	57.6	117.8%
Current	4,658	65.1	90	4.8	9.9%
AND THE RESIDENCE OF THE PARTY			Net:	52.8	107.9%

Meyer, Mike [KDA]

From: Engelhaupt, David [KDA]

Sent: Monday, March 22, 2021 3:01 PM

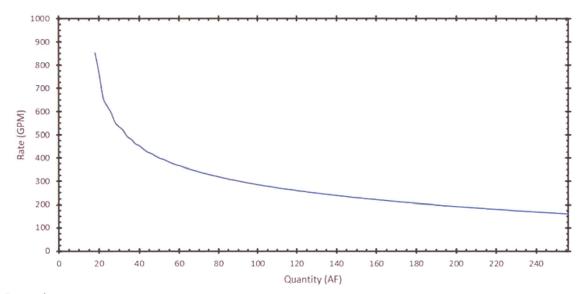
To: McColloch, Austin [KDA]; Meyer, Mike [KDA]

Subject: RE: Theis - Graham Files

Attachments: Theis_2393.pdf; Theis2393.xlsb

Mike and Austin,

Report is attached. Since I know the next question will be "what will pass?", I've found that answer too. The graph below plots the rate that it would pass at for a given authorized quantity. I've also attached the supporting excel file so you can get the rate accurately without having to read it off the graph. Enter a quantity in F2 and the allowable rate is calculated in K2.



Regards,

David Engelhaupt, P.E.

Technical Services Supervisor Kansas Department of Agriculture Division of Water Resources (785) 564-6680 From: McColloch, Austin [KDA] <Austin.McColloch@ks.gov>

Sent: Monday, March 15, 2021 3:47 PM

To: Engelhaupt, David [KDA] <David.Engelhaupt@ks.gov>

Cc: Meyer, Mike [KDA] < Mike. Meyer@ks.gov>

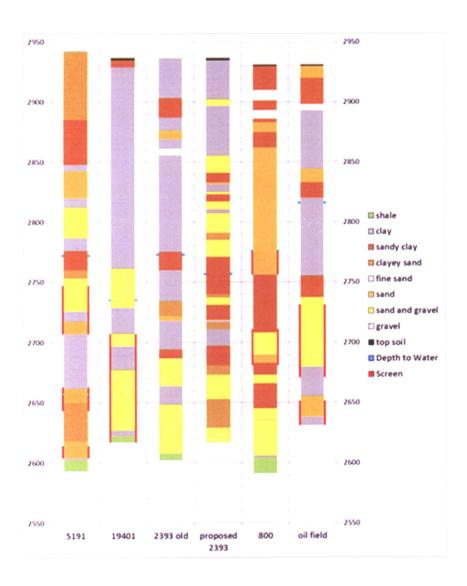
Subject: Theis - Graham Files

David,

Can we get a their run on this proposed change. Attached are the applications, along with GMD3 analysis pulled from the web. We have not received an official recommendation back from them yet.

Thanks,

Austin McColloch Ph: (620) 276-2901







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

March 17, 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. 2393, 5191, 6562 & 19401

Dear Mike:

We have completed a review of the applications for the above referenced water rights. The proposed changes in points of diversion are in accordance with current area rules, K.A.R. 5-23-3, as it pertains to distance moved and minimum spacing to neighboring wells.

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 (2.5 ft in cases where saturated thickness is between 100-125 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 multiple neighboring wells exceeded the net effect above the maximum allowable threshold and required further evaluations. The main effects would be from the new proposed well under water rights 2393 & 6562. The analysis shows that if that well was limited to a quantity of 267AF and a rate of 500gpm, the neighboring wells would no longer be considered critical. The highest effects appear to be on the domestic well in the NW corner of 18-23-33. Our office did not receive any responses from the neighbor notices that were sent out. Therefore, GMD3 sees this move as reasonable and therefore recommend that the application be approved with the limitation on the new well. 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

MAR 18 2021

Garden City Field Office Division of Water Resources

Working Water Conservation Every Day Since 1976

GMD3 Change Review

File No(s).: 2393, 5191, 6562 & 19401. DWR office: GC. App filed to change: PDs. Is Landowner(s) correct in WRIS: Rebecca Graham. If NO, is documentation included? Is Water Use Correspondent correct in WRIS? . . If NO, is documentation included? Regulation(s) Reviewed: KAR 5-23-3 Point of diversion ID No(s) __ being changed. ft. North ft. West Authorized PD Proposed PD Difference 0 0 a2 + b2 = c20 0 GPS for proposed PD: Lat: 38.06317 Long: -100.99704. Is proposed PD stacking on existing WRs? No change in current stacking. 2393 & 6562 moving together and 5191 & 19401 remain separate but moving to new (current) wells. Is Proposed PU overlapping existing WRs? No change. Neighboring certified well(s) notified: . . Name Paul A Pfeifer (274, 18700 & domestic). Address 6090 W 6 Mile RD. Zip Holcomb, KS 67851. Phone: 620-640-2772. Email: grandmaster.mike@yahoo.com. Name Fred D Cormack Jr (599). Address PO Box 1006. Zip Holcomb, KS 67851. Email: poorfarmer@wsbnet.org. Phone: 620-290-0307. Name Russell Komlofske (800). Address 4500 N IBP RD. Zip Holcomb, KS 67851. Email: rkomlofske65@gmail.com. Phone: 620-272-5087. Name The Garden City Co (7193DE, 35059). Address PO Box 597. Zip Garden City, KS 67846. Email: troy.dumler@sbcglobal.net. Phone: 620-276-3246. Domestic well(s) notified: . Name Franz Weibe (NE NE 12-23-34).

GMD3 Change Review

Address	<u>8405 N Big Lowe RD</u> .
Zip	Holcomb, KS 67851.
1	
Name	Paula A Pfeifer Trust (NW NW 18-23-33).
Address	6090 W 6 Mile RD.
Zip	Holcomb, KS 67851.
Zip	1101collio, 185 07051.
Base Acre	s:
Perfected A	Acres:
Irr. Return	-Flow%
2393 & 65	662 moving to a new well. Authorized a combined 640AF.
Current v	vell: Ten year average reported use (2010-2019): 247.826AF, 650gpm
reported i	in 2018. GMD3 inspection in 2020 calculated flow at 526gpm.
-	norized 218AF @ 700gpm, moving to the well location vacated by 19401.
Current v	vell: Ten year average reported use: 75.169AF, 90gpm reperted in 2018.
	spection in 2020 calculated flow at 44gpm. THIS WELL WILL BE
ABANDO	

19401, 294AF @ 950gpm, moving to well location vacated by 2393 & 6562. Current well: Ten year average reported use: 199.9AF, 575gpm reported in 2018. GMD3 inspection in 2016 calculated flow at 562gpm.

Is a waiver needed: All proposed moves less than half mile and appears to meet spacing to neighboring wells. Analysis shows the proposed new well would have effects above our guidelines and would need to be limited to mitigate the effects in the area. The biggest effect was to a domestic well in the NW corner of 18-23-33. We did not receive any comments from neighbors.

Recommendation: Appears current area rules are met, however the proposed move as proposed would have possible adverse effects to other wells in area and be considered critical. By limiting the new well to 267AF @ 500gpm would mitigate the effects.

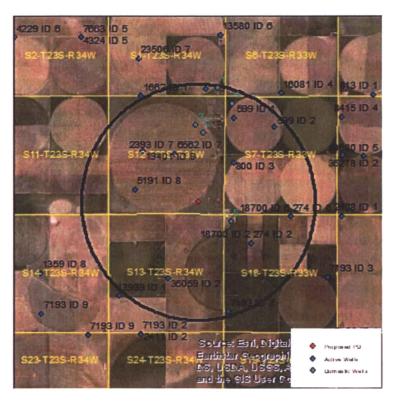
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MAR 1 8 2021

Garden City Field Office Division of Water Resources

Evaluation of proposed move for Water Right Nos 2393, 5191, 6562, and 19401

Proposed: Move water right nos. 2393 & 6562 to a new well location a distance of 2,392 ft to the southeast. Move water right no. 19401 to the well location currently authorized by water right nos. 2393 & 6562. Move water right no. 5191 to the well location currently authorized by water right no. 19401.



Wells within 1 mile: 7334, 800, 599 ID 1, 599 ID 2, 274 & 18700 ID2, 274 & 18700 ID 6, 7193, 35059, and 5 domestic wells, numbered on the above map.

The saturated thickness at the proposed well location is estimated to be 106 ft, based upon the driller's log and an observation well in section 7-23-33. For saturated thickness between 100 ft and 125 ft, the drawdown allowance is 2.5 ft.

50 year Theis Analysis: The following values were used to run the analysis:

S = 0.259, T = 4387.6 ft²/day, $tp_{current} = 170$ days, $Q_{current} = 100$ gpm, $tp_{proposed} = 168$ days, $Q_{proposed} = 860$ gpm (Note that this evaluation is treated as if the well shutting off, 5191, is moving to the new well location.)

Theis drawdowns were calculated as follows:

7334: Drawdown from current location = 0.52 ft

Drawdown from proposed location = 4.62 ft

Net drawdown = 4.1 ft

800:	Drawdown from o	current loc	ation - 0 59 ft
٥٥٥.	Drawdown Holli (turrent loc	auon = 0.56 it

Drawdown from proposed location = 7.18 ft

Net drawdown = 6.6 ft

599 ID 1: Drawdown from current location = 0.52 ft

Drawdown from proposed location = 5.29 ft

Net drawdown = 4.8 ft

599 ID 2: Drawdown from current location = 0.44 ft

Drawdown from proposed location = 4.77 ft

Net drawdown = 4.3 ft

274 & 18700 ID 2: Drawdown from current location = 0.50 ft

Drawdown from proposed location = 6.29 ft

Net drawdown = 5.8 ft

274 & 18700 ID 6: Drawdown from current location = 0.43 ft

Drawdown from proposed location = 5.19 ft

Net drawdown = 4.8 ft

7193: Drawdown from current location = 0.44 ft

Drawdown from proposed location = 4.62 ft

Net drawdown = 4.2 ft

35059: Drawdown from current location = 0.61 ft

Drawdown from proposed location = 5.64 ft

Net drawdown = 5.0 ft

Domestic 1: Drawdown from current location = 0.50 ft

Drawdown from proposed location = 4.58 ft

Net drawdown = 4.1 ft

Domestic 2: Drawdown from current location = 0.63 ft

Drawdown from proposed location = 6.20 ft

Net drawdown = 5.6 ft

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MAR 1 8 2021

Garden City Field Office Division of Water Resources Domestic 3:

Drawdown from current location = 0.63 ft

Drawdown from proposed location = 5.84 ft

Net drawdown = 5.2 ft

Domestic 4:

Drawdown from current location = 0.50 ft

Drawdown from proposed location = 4.87 ft

Net drawdown = 4.4 ft

Domestic 5:

Drawdown from current location = 0.58 ft

Drawdown from proposed location = 8.75 ft

Net drawdown = 8.2 ft

Net drawdown exceeds the drawdown allowance of 2.5 ft for all wells within 1 mile of the proposed location. Critical well analysis is necessary on those wells.

Critical Well Evaluation:

7334:

Water Column = 106 ft

DP = 4.1 ft (Net drawdown from the proposal indicated above)

DE = 41.3 ft (Water level decline from 2021 through 2046 based upon GMD3 model)

DD = 11.3 ft (S = 0.2197, T = 75,760 gpd/ft, Q = 472 gpm, tp = 72 days, efficiency = 70%)

DT = 61.5 ft

Economic Drawdown Constraint (EDC) = 0.4 * 106 ft = 42.4 ft

Physical Drawdown Constraint (PDC) = 106 ft - 60 ft = 46 ft

Total drawdown of 61.5 ft is greater than the EDC and PDC, so this well is critical.

800:

Water Column = 117 ft

DP = 6.6 ft (Net drawdown from the proposal indicated above

DE = 32.4 ft (Water level decline from 2021 through 2046 based upon GMD3 model)

DD = 37.9 ft (S = 0.1696, T = 29,654 gpd/ft, Q = 444 gpm, tp = 100 days, efficiency = 70%)

DT = 76.9 ft

Economic Drawdown Constraint (EDC) = 0.4 * 117 ft = 46.8 ft

Physical Drawdown Constraint (PDC) = 117 ft - 60 ft = 57 ft

Total drawdown of 76.9 ft exceeds both the EDC and PDC, so this well is critical.

599 ID 1:

Water Column = 117 ft

DP = 4.8 ft (Net drawdown from the proposal indicated above)

DE = 32.4 ft (Water level decline from 2021 through 2046 based upon GMD3 model)

DD = 0 ft (Well has not reported use in over 10 years)

DT = 37.2 ft

Economic Drawdown Constraint (EDC) = 0.4 * 117 ft = 46.8 ft

Physical Drawdown Constraint (PDC) = 117 ft - 60 ft = 57 ft

Total drawdown of 37.2 ft is less than both the EDC and PDC, so this well is not critical.

599 ID 2:

Water Column = 117 ft

DP = 4.3 ft (Net drawdown from the proposal indicated above)

DE = 32.4 ft (Water level decline from 2021 through 2046 based upon GMD3 model)

DD = 47.0 ft (S = 0.1696, T = 29,654 gpd/ft, Q = 552 gpm, tp = 96 days, efficiency = 70%)

DT = 83.7 ft

Economic Drawdown Constraint (EDC) = 0.4 * 117 ft = 46.8 ft

Physical Drawdown Constraint (PDC) = 117 ft - 60 ft = 57 ft

Total drawdown of 83.7 ft exceeds both the EDC and PDC, so this well is critical.



Garden City Field Office Division of Water Resources

274 & 18700 ID 2:

Water Column = 111 ft

DP = 5.8 ft (Net drawdown from the proposal indicated above)

DE = 39.8 ft (Water level decline from 2021 through 2046 based upon GMD3 model)

DD = 18.1 ft (S = 0.2651, T = 62,525 gpd/ft, Q = 457 gpm, tp = 55 days, efficiency = 70%)

DT = 63.7 ft

Economic Drawdown Constraint (EDC) = 0.4 * 111 ft = 44.4 ft

Physical Drawdown Constraint (PDC) = 111 ft - 60 ft = 51 ft

Total drawdown of 63.7 ft is greater than both the EDC and PDC, so this well is critical.

274 & 18700 ID 6:

Water Column = 132 ft

DP = 4.8 ft (Net drawdown from the proposal indicated above)

DE = 39.8 ft (Water level decline from 2021 through 2046 based upon GMD3 model)

DD = 20.3 ft (S = 0.2651, T = 62,525 gpd/ft, Q = 507 gpm, tp = 58 days, efficiency = 70%)

DT = 64.9 ft

Economic Drawdown Constraint (EDC) = 0.4 * 132 ft = 52.8 ft

Physical Drawdown Constraint (PDC) = 132 ft - 60 ft = 72 ft

Total drawdown of 64.9 ft is greater than the EDC, so this well is critical.

7193:

Water Column = 117 ft

DP = 4.2 ft (Net drawdown from the proposal indicated above)

DE = 39.8 ft (Water level decline from 2021 through 2046 based upon GMD3 model)

DD = 20.1 ft (S = 0.2651, T = 62,525 gpd/ft, Q = 496 gpm, tp = 75 days, efficiency = 70%)

 $DT = 64.1 \, ft$

Economic Drawdown Constraint (EDC) = 0.4 * 117 ft = 46.8 ft

Physical Drawdown Constraint (PDC) = 117 ft - 60 ft = 57 ft

Total drawdown of 64.1 ft is greater than both the EDC and PDC, so this well is critical.

Domestic 1:

Water Column = 126 ft

DP = 4.1 ft

DE = 41.3 ft

DT = 45.4 ft

Economic Drawdown Constraint (EDC) = 0.4 * 126 ft = 50.4 ft

Physical Drawdown Constraint (PDC) = 126 ft - 20 ft = 106 ft

Total drawdown of 45.4 ft is less than both the EDC and the PDC, so this well is not critical.

Domestic 2:

Water Column = 122 ft

DP = 5.6 ft

DE = 37.8 ft

DT = 43.4 ft

Economic Drawdown Constraint (EDC) = 0.4 * 122 ft = 48.8 ft

Physical Drawdown Constraint (PDC) = 122 ft - 20 ft = 102 ft

Total drawdown of 43.4 ft is less than both the EDC and the PDC, so this well is not critical.

Domestic 3:

Water Column = 122 ft (note: Driller's log shows a water column of 61 ft. This well was drilled in 1976 and does not appear to be drilled to the bottom of local aquifer formation, so the water column on nearby domestic 2 was used for evaluation.)

DP = 5.2 ft

DE = 37.8 ft

DT = 43.0 ft

Economic Drawdown Constraint (EDC) = 0.4 * 122 ft = 48.8 ft

Physical Drawdown Constraint (PDC) = 122 ft - 20 ft - 102 ft

Total drawdown of 43.0 ft is less than both the EDC and the PDC, so this well is not critical.



Domestic 4:

Water Column = 130 ft

DP = 4.4 ft

DE = 32.4 ft

DT = 36.8 ft

Economic Drawdown Constraint (EDC) = 0.4*130 ft = 52.0 ft

Physical Drawdown Constraint (PDC) = 130 ft - 20 ft = 110 ft

Total drawdown of 36.8 ft is less than both the EDC and PDC, so this well is not critical.

Domestic 5:

Water Column = 111 ft

DP = 8.2 ft

DE = 39.8 ft

DT = 48.0 ft

Economic Drawdown Constraint (EDC) = 0.4 * 111 ft = 44.4 ft

Physical Drawdown Constraint (PDC) = 111 ft - 20 ft = 91 ft

Total drawdown of 48.0 ft is greater than the EDC, so this well is critical.

Conclusion:

The proposed moves are located in an area with rapidly depleting aquifer and if the new well is operated at the proposed rate and quantity, it is likely to create noticeable effects on neighboring critical wells. GMD3 staff recommends a rate limitation of 500 gpm and a quantity limitation of 267 AF at the proposed new well location. This rate and quantity would produce the following net effects on neighboring critical wells:

7334: Net Drawdown = 1.4 ft

800: Net Drawdown = **2.5** ft

599 ID 2: Net Drawdown = **1.6 ft**

274 & 18700 ID 2: Net Drawdown = 2.2 ft

274 & 18700 ID 6: Net Drawdown = 1.8 ft

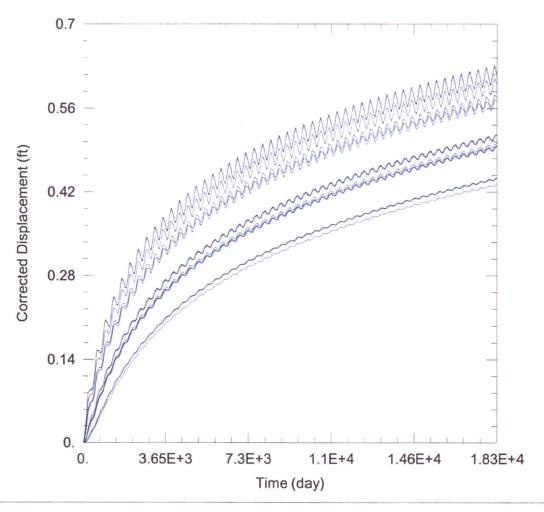
7193: Net Drawdown = 1.5 ft

Domestic 5: Net Drawdown = 3.3 ft

Note that while this effect on Domestic 5 would exceed the 2.5 ft drawdown allowance, the well would not be considered critical with a 3.3 ft drawdown effect.

MAR 1 8 2021

Garden City Field Office Division of Water Resources



WELL TEST ANALYSIS

 $Data~Set:~\underline{C:\backslash Users\backslash trevora\backslash Documents\backslash 2021_Moves\backslash 2393_5191_6562_19401\backslash 2393~Current.aqt}$

Date: 02/25/21 Time: 15:10:57

PROJECT INFORMATION

Company: GMD 3 Project: 2393+

Location: Finney County

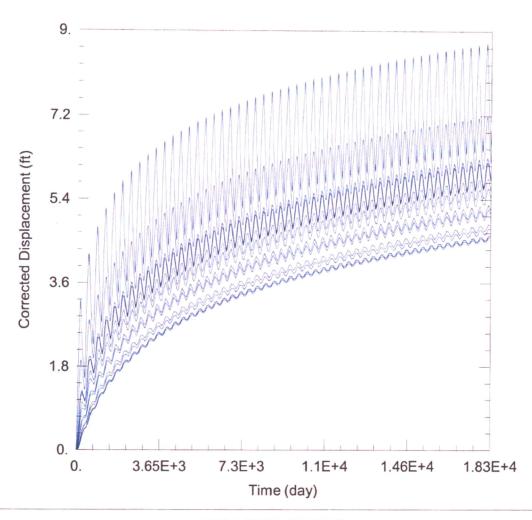
Test Well: 2393+

WELL DATA

Well Name	X (ft)	Y (ft)
5191	-59750	433252

Pumping Wells

Observation Wells			
Well Name	X (ft)	Y (ft)	
	-59750	433252	
7334	-56527	437773	
□ 800	-55262	434474	
□ 599 ID1	-55243	436453	
□ 599 ID2	-53433	436065	
□ 274 & 18700 ID2	-54490	430852	
□ 274 & 18700 ID6	-52717	432055	
- 7193	-55520	427802	
35059	-58242	429300	
Domestic 1	-56002	437781	
Domestic 2	-56672	435802	
Domestic 3	-56994	436132	
Domestic 4	-55363	437120	



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2021_Moves\2393_5191_6562_19401\2393 Proposed.aqt

Date: 02/04/21 Time: 14:37:32

PROJECT INFORMATION

RECEIVED

Company: GMD 3 Project: 2393+

Location: Finney County

Test Well: 2393+

MAR 18 2021

Garden City Field Office Division of Water Resources

WELL DATA

Pumping Wells			
Well Name	X (ft)	Y (ft)	
5191	-56892	432703	

Observation Wells			
Well Name	X (ft)	Y (ft)	
	-56892	432703	
7334	-56527	437773	
□ 800	-55262	434474	
□ 599 ID1	-55243	436453	
□ 599 ID2	-53433	436065	
□ 274 & 18700 ID2	-54490	430852	
□ 274 & 18700 ID6	-52717	432055	
· 7193	-55520	427802	
35059	-58242	429300	
Domestic 1	-56002	437781	
Domestic 2	-56672	435802	
Domestic 3	-56994	436132	
 Domestic 4 	-55363	437120	

Meyer, Mike [KDA]

From:

Meyer, Mike [KDA]

Sent:

Wednesday, February 24, 2021 7:19 AM

To:

Jason Norquest

Subject:

RE: graham

good morning

I will extend the deadline to March 8th to provide a recommendation for this pending application. I am sure we will hear from the owner or driller soon asking about the approval.

thank you

Mike

From: Jason Norquest <norquest@gmd3.org> **Sent:** Wednesday, February 24, 2021 7:15 AM **To:** Meyer, Mike [KDA] <Mike.Meyer@ks.gov>

Subject: RE: graham

EXTERNAL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Got caught up with other things. I think it would be best if I could get another week or week and half for Graham, please.

Jason Norquest

Assistant Manager, GMD3

Cell: 620-271-1289 Office: 620-275-7147

www.gmd3.org

From: Meyer, Mike [KDA] < Mike.Meyer@ks.gov > Sent: Tuesday, February 23, 2021 9:24 AM

*To: Jason Norquest < norquest@gmd3.org >

Subject: RE: graham

no we didn't as all meets spacing and received no objections. if you need an extension let me know today.

Mike

From: Jason Norquest < norquest@gmd3.org Sent: Tuesday, February 23, 2021 9:22 AM
To: Meyer, Mike [KDA] < Mike.meyer@ks.gov

Subject: RE: graham

EXTERNAL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Did you run any Theis on neighboring well? Possible concerns with a domestic well to SE and other wells. Would be looking at recommending limit. I still can't get a response from them but will keep trying.

Jason Norquest

Assistant Manager, GMD3

Cell: 620-271-1289 Office: 620-275-7147 www.gmd3.org

From: Meyer, Mike [KDA] < Mike. Meyer@ks.gov>

Sent: Tuesday, February 23, 2021 9:06 AM **To:** Jason Norquest norquest@gmd3.org

Subject: graham

let me know what you are doing with these apps (extension or not) or I am moving on....

Mike

Meyer, Mike [KDA]

From:

Meyer, Mike [KDA]

Sent:

Friday, January 29, 2021 8:08 AM

To:

'Norquest, Jason (Norquest@gmd3.org)'

Subject:

Request for recommendation, File Nos. 2393, 5191, 6562, 19401

Attachments:

20210129075442368.pdf

good morning sir

attached are 4 applications from Rebecca Graham requesting to change the point of diversion. these are a sequence of moves. there will be one new well drilled, and the other 3 wells are hopscotching. I was not involved in the drafting of these, so don't know why for sure the sequence.

Please review and provide a recommendation within 15 days. there has been no comments from owners except Roger Unruh phone call to make sure he understands the proposal and that authority is moving away and meets current rules. roger has a pending application north of these proposals also that is out for comment from neighbors.

thank you and have a good day

Mike



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

Mike Beam, Secretary

Laura Kelly, Governor

January 29, 2021

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

Re: Water Right, File Nos. 2393, 5191, 6562, 19401

Dear Mr. Norquest:

This is to advise you that Rebecca Graham, has filed applications for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point of diversion.

We are delaying action on the change applications 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



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

Mike Beam, Secretary

Laura Kelly, Governor

January 15, 2021

TRACIE ADAMS 8355 BIG LOWE RD HOLCOMB KS 67851-9003

RE:

Water Right, File No. 2393, 5191, 6562, 19401

Dear Madam:

This is to advise you that Rebecca Graham has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to point of diversion under the above referenced application. An irrigation well is proposed to be relocated.

You can find the complete application posted by water right file number as referenced above at www.agriculture.ks.gov/divisions-programs/dwr/water-appropriation/notices

You are notified on this proposed point of diversion (well) so that you may furnish this office with any comments or other information you may want to submit. Such comments or other information must be received in this office within 15 days from the date of this letter.

Should you have any questions, please feel free to call this office. If you would prefer, an appointment could be arranged for additional assistance. Please refer to the file number when you contact us if you wish to discuss a specific file.

Sincerely,

Michael A. Meyer

Water Commissioner

MAM

Pc:



Mike Beam, Secretary

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

Laura Kelly, Governor

January 15, 2021

SCOTT LEE CORMACK 1205 S PENNSYLVANIA AVE CHEROKEE, OK 73728-4024

RE:

Water Right, File No. 2393, 5191, 6562, 19401

Dear Sir:

This is to advise you that Rebecca Graham has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to point of diversion under the above referenced application. An irrigation well is proposed to be relocated.

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Sincerely,

Michael A. Meyer

Water Commissioner

MAM

Pc:



Garden City, KS 67846
Mike Beam, Secretary

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

Laura Kelly, Governor

January 15, 2021

RUSSELL KOMLOFSKE 4500 N IBP RD HOLCOMB, KS 67851-9023

RE: Water Right, File No. 2393, 5191, 6562, 19401

Dear Sir:

This is to advise you that Rebecca Graham has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to point of diversion under the above referenced application. An irrigation well is proposed to be relocated.

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Sincerely,

Michael A. Meyer

Water Commissioner

MAM

Pc.



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

Mike Beam, Secretary

Laura Kelly, Governor

January 15, 2021

PFEIFER DIVERSIFIED INVESTMENT LP Attn: PAUL PFEIFER 6090 W 6 MILE RD HOLCOMB, KS 67851-9077

RE:

Water Right, File No. 2393, 5191, 6562, 19401

Dear Sir:

This is to advise you that Rebecca Graham has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to point of diversion under the above referenced application. An irrigation well is proposed to be relocated.

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Sincerely,

Michael A. Meyer

Water Commissioner

MAM

Pc:



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

Mike Beam, Secretary

Laura Kelly, Governor

January 15, 2021

ROGER G & RANDALL UNRUH 625 S COWGILL DR GARDEN CITY, KS 67846-8911

RE: Water Right, File No. 2393, 5191, 6562, 19401

Dear Sir:

This is to advise you that Rebecca Graham has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to point of diversion under the above referenced application. An irrigation well is proposed to be relocated.

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Sincerely,

Michael A. Meyer

Water Commissioner

MAM

Pc:



Mike Beam, Secretary

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

Laura Kelly, Governor

January 15, 2021

FRANZ WIEBE 8405 N. BIG LOWE RD HOLCOMB, KS 67851-9004

RE:

Water Right, File No. 2393, 5191, 6562, 19401

Dear Sir:

This is to advise you that Rebecca Graham has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to point of diversion under the above referenced application. An irrigation well is proposed to be relocated.

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Sincerely,

Michael A. Meye

Water Commissioner

MAM