

Kansas Department of Agriculture
 Division of Water Resources
CHANGE: P/D WORKSHEET

1. File Number: 21760	2. Status Change Date: 2-26-19	3. Change Num: C2	4. Field Office: 04	5. GMD: 03
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6. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return	7. Filing Date of Change: 2/12/19
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8a. Landowner, WUC, applicant New to system <input type="checkbox"/> GRAHAM FARMS INC 2150 ROAD 220 DEERFIELD KS 67838-9513	8c. New to system <input type="checkbox"/> Person ID <u>6372</u> Add Seq# <u>1</u>
--	--

8b. Landowner(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____	8d. WUC New to system <input type="checkbox"/> Person ID _____ Add Seq# _____
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9. Documents and Enclosure(s): DWR Meter(s) Date to Comply: 12/31/19 N & P Date to Comply: 12/31/20

Anti-Reverse Meter
 Meter Seal
 Check Valve
 N & P Form
 Water Tube
 Driller Copy
 H & E Letter

Conservation Plan
 Date Required: _____
 Date Approved: _____
 Date to Comply: _____

10. Use Made of Water From: _____ To: _____

Date Prepared: **2/26/19** By: **MAM**
 Date Entered: _____ By: _____

Garden City Field Office
2508 Johns Street
Garden City, KS 67846-2804



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

Mike Beam, Interim Secretary

Laura Kelly, Governor

February 26, 2019

GRAHAM FARMS INC
2150 ROAD 220
DEERFIELD KS 67838-9513

RE: Water Right, File No. 21760

Dear Sir:

Enclosed is an order executed by the designee of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the application for change under the above referenced file number.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in this approval for change. A condition of this approval is that acceptable water flowmeter must be installed on the diversion works authorized under the referenced file number 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.

Since this order modifies the original document referred to above, it should be recorded with the Register of Deeds as other instruments affecting real estate.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Michael A. Meyer".

Michael A. Meyer
Water Commissioner

MAM:
enclosures
pc:

GROUNDWATER MANAGEMENT DISTRICT NO. 3

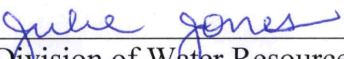
CERTIFICATE OF SERVICE

On this 26th day of February, 2019, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 21,760, dated 26th day of February, 2019 was mailed postage prepaid, first class, US mail to the following:

GRAHAM FARMS INC
2150 ROAD 220
DEERFIELD KS 67838-9513

With photocopies to:

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.

File No. 21760

RECEIVED
3:30 PM
FEB 12 2019

1. Application is hereby made for approval of the Chief Engineer to change the (check one or both):

Place of Use Point of Diversion

under the water right which is the subject of this application in accordance with the conditions described below.

The source of supply is: Groundwater Surface water

Garden City Field Office
 Division of Water Resources

2. Name and address of Applicant: ROY GRAHAM

2150 ROAD 220 DEEFIELD KS 67838

Phone Number: () _____ Email address: _____

Name and address of Water Use Correspondent: NO CHANGE

Phone Number: () _____ Email address: _____

3. The presently authorized place of use is:

Owner of Land ---- NAME: NO CHANGE

ADDRESS: _____

(If there is more than one landowner, attach supplemental sheets as necessary.)

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

4. If this application is for a change in place of use, it is proposed that the place of use be changed to:

Owner of Land ---- NAME: NO CHANGE

ADDRESS: _____

(If there is more than one landowner, attach supplemental sheets as necessary.)

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

For Office Use Only: Code _____ Fee \$ 200.00 TR # _____ Receipt Date 2-12-19 Check # 200.00

4810

5. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ NC Quarter of the _____ SW Quarter
 of Section _____ 15 _____, Township _____ 25 _____ South, Range _____ 35 _____ W,
 in KE _____ County, Kansas, _____ 1320 _____ feet North _____ 3960 _____ feet West of Southeast corner of section.
 Authorized Rate _____ Authorized Quantity _____ Depth of well _____ (feet)
 (DWR use only: Computer ID No. 03 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 the _____ NW Quarter of the _____ NW Quarter of the _____ SW Quarter
 of Section _____ 15 _____, Township _____ 25 _____ South, Range _____ 35 _____ W,
 in KE _____ County, Kansas, _____ 2170 _____ feet North _____ 4829 _____ 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 _____

6. **Presently authorized point of diversion:**
 One in the _____ SE Quarter of the _____ NW Quarter of the _____ SE Quarter
 of Section _____ 15 _____, Township _____ 25 _____ South, Range _____ 35 _____ W,
 in KE _____ County, Kansas, _____ 1350 _____ feet North _____ 1520 _____ feet West of Southeast corner of section.
 Authorized Rate _____ Authorized Quantity _____ Depth of well _____ (feet)
 (DWR use only: Computer ID No. 06 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 the _____ SE Quarter of the _____ NW Quarter of the _____ SE Quarter
 of Section _____ 15 _____, Township _____ 25 _____ South, Range _____ 35 _____ W, (EAD)
 in KE _____ County, Kansas, _____ 1335 _____ feet North _____ 1366 _____ 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 _____

** corrected according to field measurements w/GPS on 2-27-73*

7. The changes herein are desired for the following reasons?
 (please be specific) _____

8. If a well, is the test hole log attached? Yes No

9. The change(s) (was)(will be) completed by?

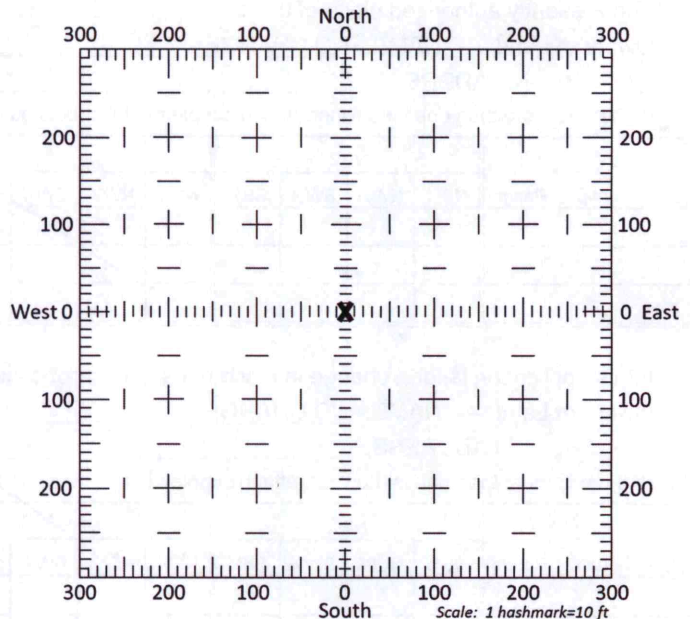
10. If the point of diversion is a well:
 (a) What are you going to do with the old well?

 (b) When will this be done? _____

11. Groundwater Management District recommendation attached?
 Yes No

12. Assisted by _____

13a. If the proposed point of diversion will be relocated more than 300 feet but within 2,640 feet of the existing point of diversion, attach a topographic map or aerial photograph. For groundwater sources, show all wells (including domestic) within one-half mile of the proposed point of diversion and the names and mailing addresses of the owners. For surface water sources, show the names and addresses of the landowner(s) one-half mile downstream and one-half mile upstream from your property lines



13b. If the proposed point of diversion will be relocated within 300 feet of the existing point of diversion, indicate its location on the diagram shown above in relation to the existing point of diversion. (PLEASE NOTE: The "X" in center of diagram above represents the presently authorized point of diversion.)

14. If the proposed groundwater point of diversion is 300 or fewer feet from the existing point of diversion, complete the following:
- (a) Does the undersigned represent all owners of the currently authorized place(s) of use identified in this application?
 Yes No (If no, all owners must sign this application.)
 - (b) Will the ownership interest of any owner of the currently authorized place(s) of use identified in this application be adversely affected if this application is approved as requested?
 Yes No (If yes, all owners must sign this application.)
 - (c) If this application is not approved expeditiously, will there be substantial damage to property, public health or safety?
 Yes No (If no, all owners must sign this application.)

If the application proposes a surface water change in point of diversion, a groundwater change in point of diversion greater than 300 feet, 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 Garden City, Kansas, this 12th day of February, 2019.

<u>Roy Graham Graham Farms Inc</u> (Owner)	(Spouse)
<u>Roy Graham Graham Farms Inc</u> (Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)

State of Kansas }
 County of Finney } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 12th day of February, 2019.



Julie Jones
Notary Public

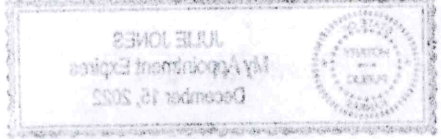
My Commission Expires _____

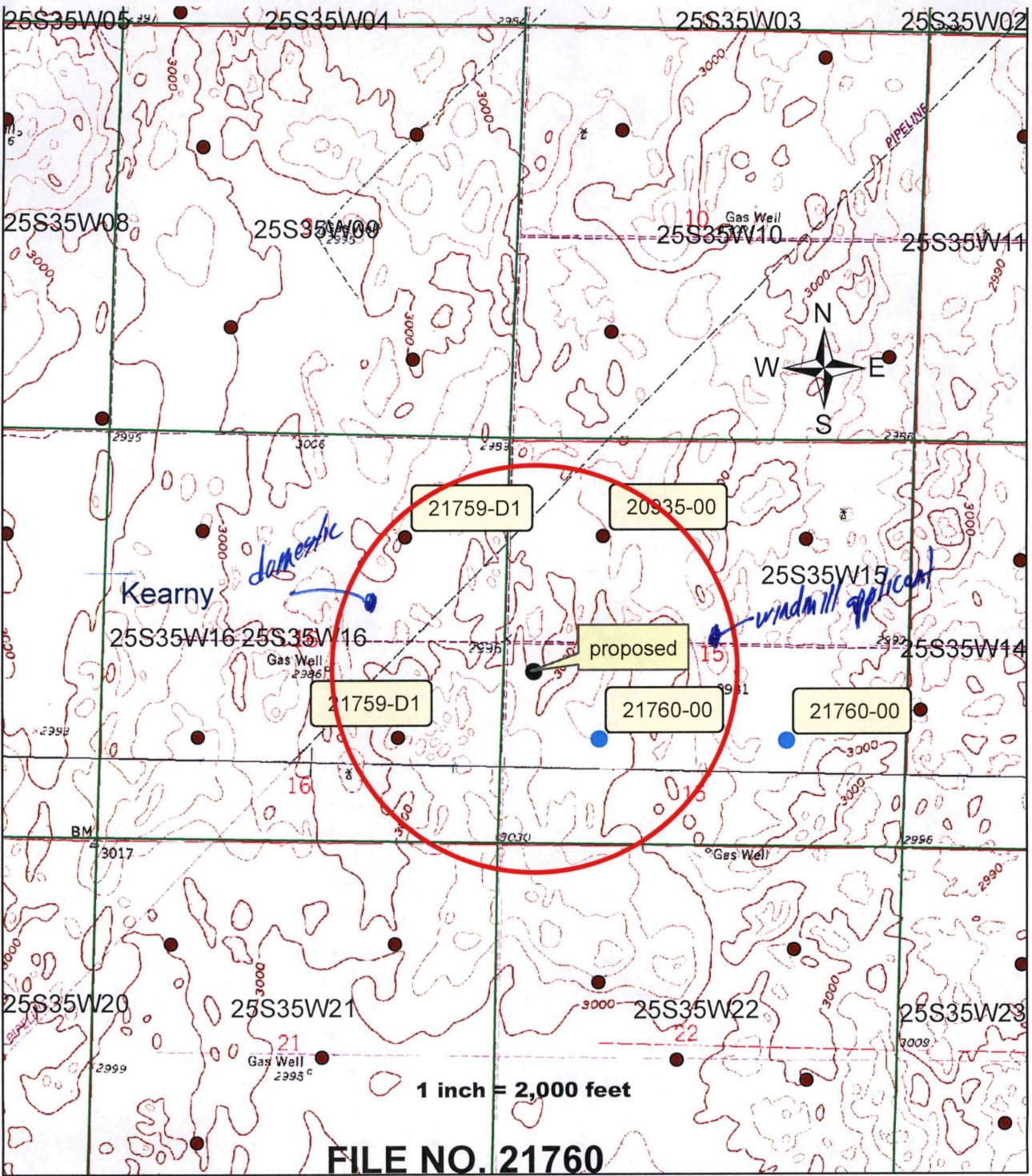
ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate 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
- (3) Application to change the place of use \$200





FILE NO. 21760

**APPLICATION TO CHANGE
THE POINT OF DIVERSION**

X _____
APPLICANT SIGNATURE

No other wells within one half mile

6202606000

#21760

2170' N x 4829' W

WELL LOG

DATE: 1/17/2019

Downey Drilling Inc.



#1

CUSTOMER NAME: GRAHAM FARMS

LEGAL: NW/SW 15-25S-35W

→ SW 1/4 Hole in NW Corner

COUNTY: KEARNY

GPS: 37 52' 42" N

37.87833

-101 09' 24" W

101.156667

DRILLER: BENNY

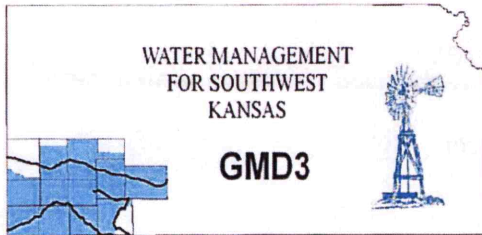
WO: 18-892

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	30	TOP SOIL AND FINE SAND	SOFT	TAN	FAST		SMOOTH
	30	60	FINE GRAVEL	SOFT	TAN	FAST		CHATTER
			CLAY LAYER AT 53-58 (TAN)	SLOW	TAN	FAST		
	60	100	FINE SAND WITH A TRACE OF SILTY CLAY	SOFT	TAN	FAST		CHATTER
	100	120	SILTY CLAY WITH LAYERS OF BLUE CLAY	SOFT	TAN / BLUE	FAST		SMOOTH
	120	145	FINE-MEDIUM-COARSE SAND, MEDIUM-COARSE GRAVEL, AND STICKY CLAY LAYERS	SOFT	RED	FAST		CHATTER
	145	155	SILTY CLAY	SOFT	TAN	FAST		SMOOTH
	155	205	FINE-MEDIUM-COARSE SAND AND FINE GRAVEL	SOFT	RED	FAST		CHATTER
	205	215	SANDY CLAY WITH COARSE GRAVEL	SOFT	TAN	FAST		SLIGHT CHATTER
	215	242	FINE-MEDIUM-COARSE SAND	SOFT	RED	FAST		CHATTER
	242	280	SANDY CLAY WITH FINE-MEDIUM-COARSE GRAVEL	SOFT	RED	FAST		SLIGHT CHATTER
			FINE-MEDIUM-COARSE SAND AT 262-267	SOFT	RED	FAST		
	280	300	FINE SAND WITH SANDY CLAY	SOFT	RED	FAST		VIBRATE
	300	410	FINE SAND, FINE-MEDIUM-COARSE SAND, FINE-MEDIUM GRAVEL	SOFT	RED	FAST		VIBRATE / CHATTER
			SANDY CLAY @ 408-410	SOFT	TAN	FAST		
	410	420	WEATHERED SHALE	SOFT	YELLOW / BLUE	SLOW		SMOOTH
	420	450	LIGHT SHALE WITH A TRACE OF SILTY CLAY	SOFT	LT GRAY / GRAY	SLOW		SMOOTH
	450	472	FINE - MED SAND	SOFT	TAN	FAST		SOME CHATTER
	472	510	LIGHT SHALE WITH A TRACE OF SILTY CLAY	DENSER	GRAY / TAN	SLOWER		SMOOTHER
X	510	570	FINE SAND AND BROWN ROCK	SOFT	RED	FAST		CHATTER
X	570	580	SILTY CLAY AND FINE SAND	SOFT	TAN	FAST		SMOOTH
X	580	615	FINE SAND, AND TRACES OF BROWN ROCK AND SANDSTONE	SOFT	TAN	FAST		SOME CHATTER
X	615	621	SILTY CLAY AND FINE SAND	SOFT	TAN	FAST		SMOOTH
X	621	645	FINE SAND, AND TRACES OF BROWN ROCK AND SANDSTONE	SOFT	TAN	FAST		SOME CHATTER
X	645	646	CEMENTED (LIMESTONE?)	HARD	DARK TAN	SLOW	X	CHOPPY
X	645	680	LIGHT SHALE WITH SILTY CLAY	HARD	GRAY / TAN	SLOW		CHOPPY
			CEMENTED @ 672-673 AND 675-676	HARD		SLOW	X	CHOPPY
			13 SACKS OF QUIK GEL					
			1 SACK OF SODA ASH					
			3 LOADS OF WATER					
			STARTED TAKING WATER FROM 510					

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FEB 04 2019

Field Office Resources



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

February 26, 2019

Michael A. Meyer
Division of Water Resources
2508 N Johns Street
Garden City, Kansas 67846

RE: Application for Change in Point of Diversion
Water Right, File Nos. 21760

Dear Mike:

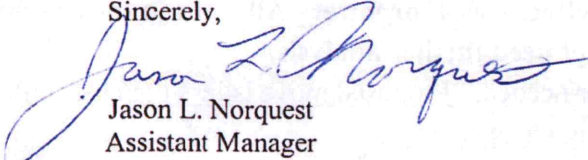
We have completed a review of the application for the above referenced water right. The proposed change in point of diversion is in accordance with current area rules, K.A.R. 5-23-3, as it pertains to distance moved and minimum spacing to neighboring wells.

Well evaluations were conducted 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 the applicant. Under this analysis, the proposed change is considered to be reasonable and unlikely to impair if either the net in-season well-to-well effect of the proposed change is less than a strict maximum allowable threshold (4 ft in cases where saturated thickness is greater than 200 ft), or if no well with a net well-to-well effect exceeding the threshold is identified as critical. Critical wells are identified as wells that are expected to either lose or greatly diminish water supply over the next 25 years. The attached review information is based on a Theis analysis using inputs from the GMD3 aquifer model, which is considered to be the best information on well and aquifer data readily and easily available to the public. If either the applicant or the neighbors believe they have better data that might change the result of the analysis, they should contact GMD3. Conclusions of the well analysis may change if better information on well and aquifer data can be made available.

Every neighboring well within 1 mile of the proposed move was evaluated. Evaluations showed that in no case did the net effect on neighboring wells exceed the 4.0 ft maximum allowable threshold. Therefore, GMD3 sees this move as reasonable and unlikely to impair neighboring wells. It is therefore recommended that the applications be approved.

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

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Garden City Field Office
Division of Water Resources

GMD3 Change Review

File No(s): 21760.

DWR office: GC.

App filed to change: PD.

Is Landowner(s) correct in WRIS: Graham Farms Inc.

If NO, is documentation included?

Is Water Use Correspondent correct in WRIS? Yes.

If NO, is documentation included?

Regulation(s) Reviewed: KAR 5-23-3

Point of diversion ID No(s) 03 being changed.

	ft. North	ft. West		
Authorized PD	1320	3960	Sect. 15-25-35	
Proposed PD	2170	4829		
Difference	-850 n	-869 w		
$a^2 + b^2 = c^2$	722500	755161	1215.591 foot move NW	GPS

for proposed PD: Lat: 37.878333 Long: -101.156667.

Is proposed PD stacking on existing WRs? No.

Is Proposed PU overlapping existing WRs? No Change.

Land Owner(s) notified: .

Name .

Name .

Address .

Address .

Zip .

Zip .

Neighboring certified well(s) notified: .

Name .

Name .

Address .

Address .

Zip .

Zip .

Domestic well(s) notified: .

Name .

Name .

Address .

Address .

Zip .

Zip .

Base Acres: .

Perfected Acres: .

Irr. Return-Flow %

Saturated thickness in the area was greater than 200' so first criteria for de minimus effect was 4' or lower. All wells in the are showed significantly less effect and did not need further analysis.

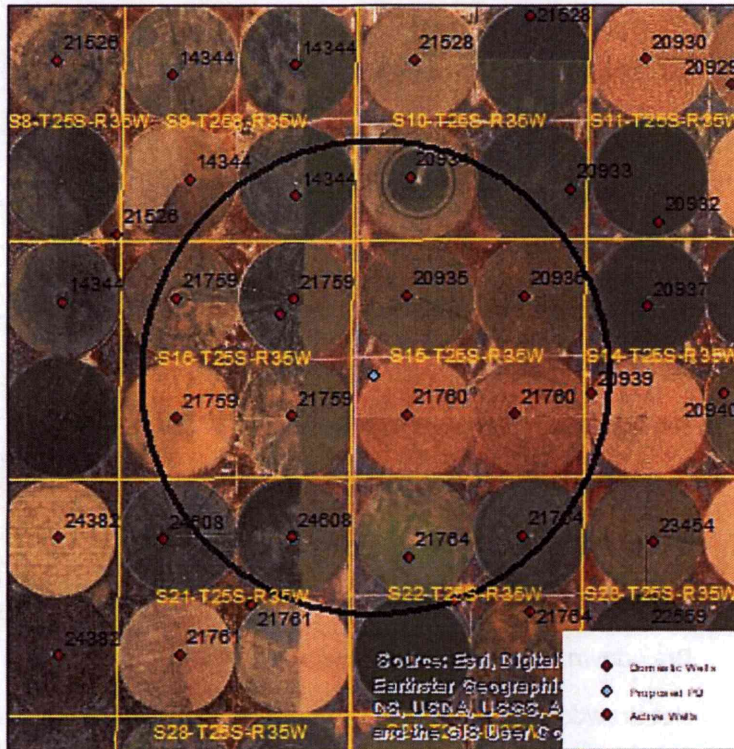
Is a waiver needed: Proposed move is less than half mile and minimum spacing to neighboring wells is met.

Final Recommendation: After review of all available information, it appears all current area rules are met. Well analysis shows the proposed move would have de minimus effect on neighboring wells. Staff therefore recommends approval of the application.



Evaluation of proposed move for Water Right No 21760 ID3

Proposed: Move the well authorized under water right no. 21760 ID3 1126 ft to the northwest.



Wells within 1 mile: 21760 ID5, 20935, 20936, 21764 D1 ID6, 21764 D1 ID1, 24608, 21759 D2 ID2, 21759 D1 ID1, 21759 D1 ID4, 21759 D1 ID5, 14344 D3 ID6, 20934, and a domestic well in section 16-25-35.

The saturated thickness at the proposed well location is estimated to be 330 ft, based upon observation well data from section 26-25-35. For saturated thicknesses greater than 200 ft, the maximum allowable drawdown to neighboring critical wells is 4.0 ft.

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

$S = 0.1072$, $T = 21,945 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 212 \text{ days}$ (based upon observed rate and reported quantity), $Q_{\text{current}} = 251 \text{ gpm}$ (based upon observation during 2014 field visit), $tp_{\text{proposed}} = 70 \text{ days}$, $Q_{\text{proposed}} = 875 \text{ gpm}$. Wells were given the following X-Y coordinates:

- 21760 ID3 (Current PD): X = -102,365 ft, Y = 364,684 ft
- Proposed PD: X = -103,123 ft, Y = 365,544 ft
- 20935: X = -102,380 ft, Y = 367,315 ft
- 20936: X = -99,724 ft, Y = 367,328 ft
- 21764 D1 ID6: X = -102,328 ft, Y = 361,534 ft
- 21764 D1 ID1: X = -99,789 ft, Y = 361,990 ft

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Division of Water Resources

24608: X = -104,985 ft, Y = 361,990 ft
21759 D2 ID2: X = -107,589 ft, Y = 367,289 ft
21759 D1 ID1: X = -104,946 ft, Y = 367,263 ft
21759 D1 ID4: X = -104,985 ft, Y = 364,659 ft
21759 D1 ID5: X = -107,602 ft, Y = 364,607 ft
14344 D3 ID6: X = -104,893 ft, Y = 369,568 ft
20934: X = -102,315 ft, Y = 366,951 ft
Domestic 16-25-35: X = -105,258 ft, Y = 366,951 ft

Theis drawdowns were calculated as follows:

21760 ID5: Drawdown from current location = 0.91 ft
Drawdown from proposed location = 1.27 ft
Net drawdown = **0.4 ft**

20935: Drawdown from current location = 0.89 ft
Drawdown from proposed location = 1.87 ft
Net drawdown = **1.0 ft**

20936: Drawdown from current location = 0.77 ft
Drawdown from proposed location = 1.12 ft
Net drawdown = **0.4 ft**

21764 D1 ID6: Drawdown from current location = 0.82 ft
Drawdown from proposed location = 1.08 ft
Net drawdown = **0.3 ft**

21764 D1 ID1: Drawdown from current location = 0.77 ft
Drawdown from proposed location = 1.57 ft
Net drawdown = **0.2 ft**

24608: Drawdown from current location = 0.76 ft
Drawdown from proposed location = 1.09 ft
Net drawdown = **0.3 ft**

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FEB 2 8 11 AM

Division of Water Resources
Golden City Field Office

21759 D2 ID2: Drawdown from current location = 0.62 ft
Drawdown from proposed location = 0.97 ft
Net drawdown = 0.3 ft

21759 D1 ID1: Drawdown from current location = 0.77 ft
Drawdown from proposed location = 1.57 ft
Net drawdown = 0.8 ft

21759 D1 ID4: Drawdown from current location = 0.89 ft
Drawdown from proposed location = 1.79 ft
Net drawdown = 0.9 ft

21759 D1 ID5: Drawdown from current location = 0.66 ft
Drawdown from proposed location = 1.00 ft
Net drawdown = 0.3 ft

14344 D3 ID6: Drawdown from current location = 0.64 ft
Drawdown from proposed location = 1.03 ft
Net drawdown = 0.4 ft

20934: Drawdown from current location = 0.65 ft
Drawdown from proposed location = 1.01 ft
Net drawdown = 0.4 ft

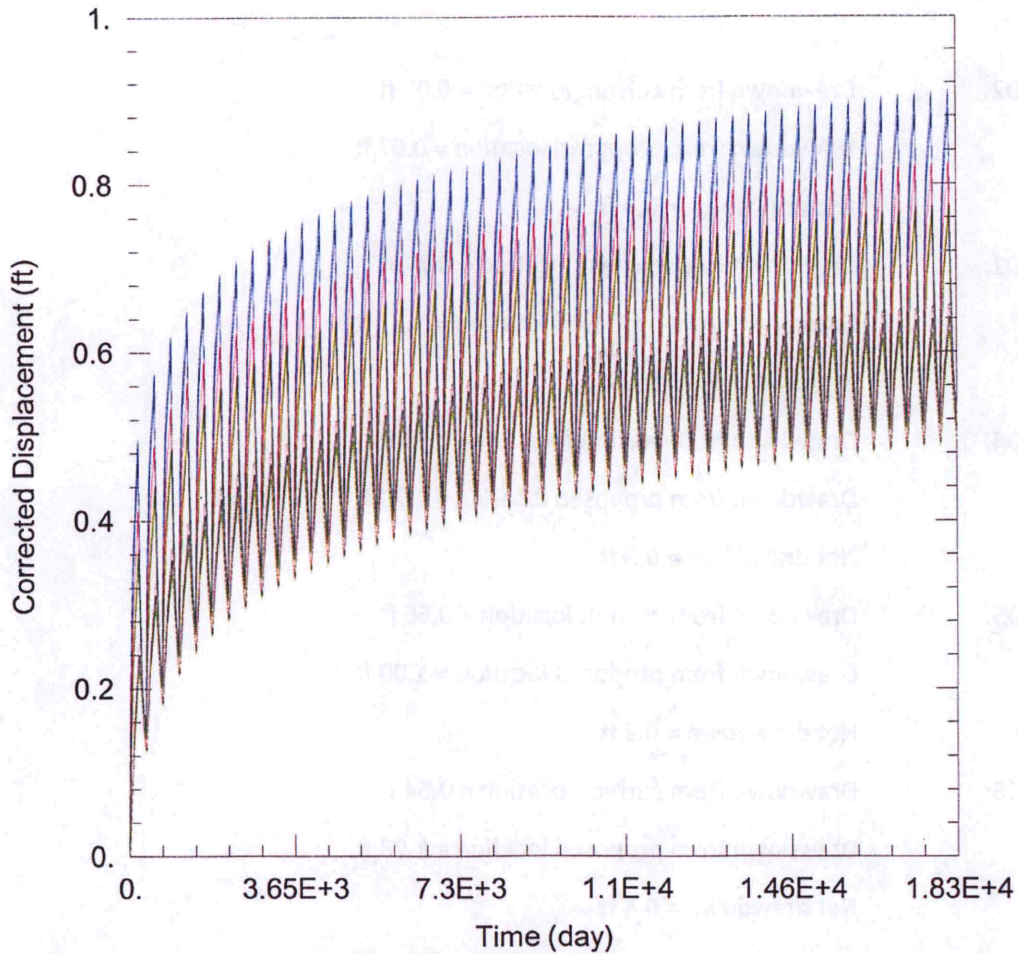
Domestic 16-25-35: Drawdown from current location = 0.77 ft
Drawdown from proposed location = 1.55 ft
Net drawdown = 0.8 ft

Net drawdown does not exceed 4.0 ft on any neighboring well, so critical well evaluation is not necessary.

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Garden City Field Office
Division of Water Resources



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2019_moves\21760\21760 Current.aqt

Date: 02/19/19

Time: 16:49:39

PROJECT INFORMATION

Company: GMD 3

Client: Roy Graham

Project: 21760 ID3

Location: Kearny County

Test Well: 21760 ID3

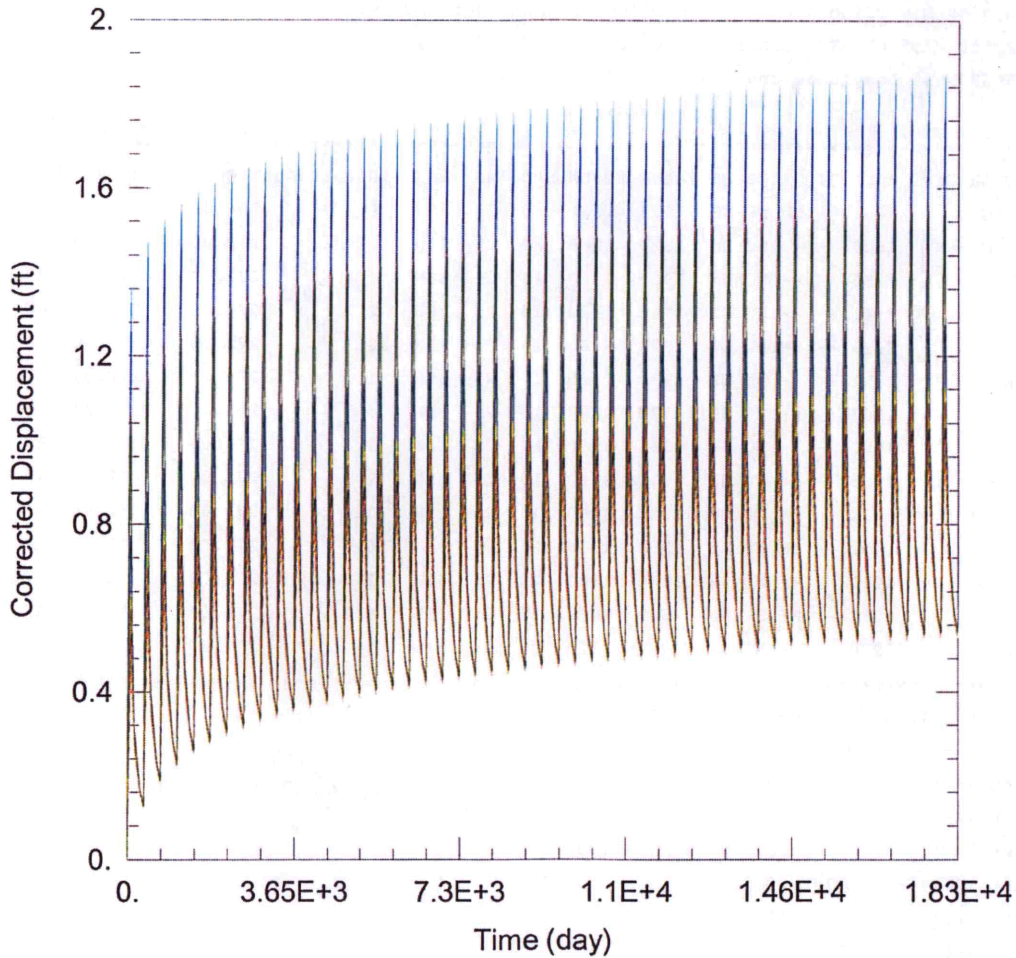
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
21760 ID3	-102365	364684

Observation Wells

Well Name	X (ft)	Y (ft)
□	-102365	364684
□ 21760 ID 5	-99930	364710
□ 20935	-102380	367315
□ 20936	-99724	367328
□ 21764 D1 ID6	-102328	361534
□ 21764 D1 ID 1	-99789	361990
□ 24608	-104985	361990
□ 21759 D2 ID2	-107589	367289
□ 21759 D1 ID1	-104946	367263
□ 21759 D1 ID4	-104985	364659
□ 21759 D1 ID5	-107602	364607
□ 14344 D3 ID6	-104893	369568



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2019_moves\21760\21760 Proposed.aqt

Date: 02/19/19

Time: 16:49:28

PROJECT INFORMATION

Company: GMD 3
 Client: Roy Graham
 Project: 21760 ID3
 Location: Kearny County
 Test Well: 21760 ID3

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Garden City Field Office
Division of Water Resources

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
21760 ID3	-103123	365544

Observation Wells

Well Name	X (ft)	Y (ft)
□	-103123	365544
□ 21760 ID 5	-99930	364710
□ 20935	-102380	367315
□ 20936	-99724	367328
□ 21764 D1 ID6	-102328	361534
□ 21764 D1 ID 1	-99789	361990
□ 24608	-104985	361990
□ 21759 D2 ID2	-107589	367289
□ 21759 D1 ID1	-104946	367263
□ 21759 D1 ID4	-104985	364659
□ 21759 D1 ID5	-107602	364607
□ 14344 D3 ID6	-104893	369568

Water Rights and Points of Diversion Within 1.00 miles of point defined as:

2170 ft N and 4829 ft W of the SE Corner of Section 15, T 25S, R 35W

Located at: 101.156668 West Longitude and 37.878334 North Latitude

GROUNDWATER ONLY

1600' on All

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit	
A__ 14344	D3	IRR	NK	G	4401	--	NW	SE	SE	1024	1320	9	25	35W	6	256.00	256.00	AF	
A__ 20934	00	IRR	NK	G	4529	--	--	NC	SW	1320	3960	10	25	35W	2	272.00	272.00	AF	
A__ 20935	00	IRR	NK	G	1980	--	--	NC	NW	3960	3960	15	25	35W	1	272.00	272.00	AF	
A__ 20936	00	IRR	NK	G	3941	--	--	NC	NE	3960	1320	15	25	35W	2	272.00	272.00	AF	
A__ 20939	00	IRR	NK	G	5029	--	--	SW	NW	SW	1823	5080	14	25	35W	12	272.00	272.00	AF
A__ 21759	D1	IRR	NK	G	2424	--	--	NC	NE	3930	1320	16	25	35W	1	272.00	272.00	AF	
Same					1965	--	--	NC	SE	1320	1350	16	25	35W	4	272.00	272.00	AF	
Same					4460	--	--	NC	SW	1265	3960	16	25	35W	5	272.00	272.00	AF	
A__ 21759	D2	IRR	NK	G	4688	--	--	NC	NW	3930	3960	16	25	35W	2	272.00	272.00	AF	
A__ 21760	00	IRR	NK	G*	1221	--	--	NC	SW	1320	3960	15	25	35W	3	272.00	272.00	AF	
Same					3409	--	--	SE	NW	SE	1350	1520	15	25	35W	6	272.00	272.00	AF
A__ 21764	D1	IRR	NK	G	4949	--	--	NC	NE	3960	1320	22	25	35W	1	272.00	272.00	AF	
Same					4057	--	--	NE	SW	NW	3500	4065	22	25	35W	6	272.00	272.00	AF
A__ 24608	00	IRR	NK	G	3970	--	--	NC	NE	3960	1320	21	25	35W	3	272.00	272.00	AF	

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	.00	.00
Total Permitted Amount (AF) =	.00	.00
Total Inspected Amount (AF) =	.00	.00
Total Pro_Cert Amount (AF) =	.00	.00
Total Certified Amount (AF) =	3792.00	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	3792.00	.00

Minimum Spacing is MET

An * after the source of supply indicates a pending application for change for the file number.

An * after the ID indicates a 15 AF exemption was granted for the file number.

A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the battery.

The number in the Batt column is the number of wells in the battery.

Water Rights and Points of Diversion Within 1.00 miles of point defined as:

101.156668 West Longitude and 37.878334 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number	Use	ST	SR	
A__ 14344	D3	IRR	NK	G
>	CALVIN R & DEBRA J KOEHN			
>	9228 N 2420 RD			
>	THOMAS OK 73669			

A__ 20934	00	IRR	NK	G
>	WHEATLAND ELECTRIC COOPERATIVE INC			
>	PERRY SMITH			
>	PO BOX 953			
>	GARDEN CITY KS 67846			

A__ 20935 00 IRR NK G
> GRAHAM FARMS INC
>
> 2150 ROAD 220
> DEERFIELD KS 67838

A__ 20936 00 IRR NK G
> GRAHAM FARMS INC
>
> 2150 ROAD 220
> DEERFIELD KS 67838

A__ 20939 00 IRR NK G
> GRAHAM FARMS INC
>
> 2150 ROAD 220
> DEERFIELD KS 67838

A__ 21759 D1 IRR NK G
> GRAHAM FARMS INC
>
> 2150 ROAD 220
> DEERFIELD KS 67838

A__ 21759 D2 IRR NK G
> GRAHAM FARMS INC
>
> 2150 ROAD 220
> DEERFIELD KS 67838

A__ 21760 00 IRR NK G
> GRAHAM FARMS INC
>
> 2150 ROAD 220
> DEERFIELD KS 67838

A__ 21764 D1 IRR NK G
> WHEATLAND ELECTRIC COOPERATIVE INC
> PERRY SMITH
> PO BOX 953
> GARDEN CITY KS 67846

A__ 24608 00 IRR NK G
> GRAHAM FARMS INC
>
> 2150 ROAD 220
> DEERFIELD KS 67838

RECEIVED
FEB 26 2019
Garden City Field Office
Division of Water Resources

INPUTS	
Target Section Definition	
Section	15
Township	25
Range	35
Range Direction	w
Target Point Coordinates (<i>NAD27</i> or <i>NAD83</i>)	
Target Longitude	-101.156667
Target Latitude	37.878333

Load Data and Compute

Instructions

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

Loaded Section Data From LEOBASE using <i>NAD83</i>		
Corner	Corner Latitudes	Corner Longitudes
SW	37.87228990	-101.15849851
NW	37.88667911	-101.15846733
NE	37.88690844	-101.14024809
SE	37.87239635	-101.14038522
Degrees Longitude per Foot		3.46449909E-06
Degrees Latitude per Foot		2.74614846E-06
Target Point Distances from Corners using <i>NAD83</i>		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	2201	-529
NW	-3039	-520
NE	-3123	4739
SE	2162	4700

Target point is In Section

Loaded Section Data From LEOBASE using <i>NAD27</i>		
Corner	Corner Latitudes	Corner Longitudes
SW	37.87226900	-101.15805100
NW	37.88665800	-101.15802000
NE	37.88688700	-101.13980100
SE	37.87237500	-101.13993800
Degrees Longitude per Foot		3.46449810E-06
Degrees Latitude per Foot		2.74598553E-06
Target Point Distances from Corners using <i>NAD27</i>		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	2208	-399
NW	-3032	-391
NE	-3115	4868
SE	2170	4829

Target point is In Section

Difference (<i>NAD83</i> Minus <i>NAD27</i>)		
Corner	Corner Latitudes	Corner Longitudes
SW	0.00002090	-0.00044751
NW	0.00002111	-0.00044733
NE	0.00002144	-0.00044709
SE	0.00002135	-0.00044722
Difference (<i>NAD83</i> Minus <i>NAD27</i>)		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	-7.74168448	-129.17007368
NW	-7.50725101	-129.11812068

Garden City Field Office
2508 Johns Street
Garden City, KS 67846-2804



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

Mike Beam, Interim Secretary

Laura Kelly, Governor

February 15, 2019

SOUTHWEST KANSAS GROUNDWATER
MANAGEMENT DISTRICT NO. 3
409 CAMPUS DRIVE, SUITE 106
GARDEN CITY KS 67846

Re: Water Right File No. 21760

Dear Mr. Norquest:

This is to advise you that Roy Graham has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point of diversion for the above referenced file.

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

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

Sincerely,

A handwritten signature in blue ink that reads "Michael A. Meyer".

Michael A. Meyer
Water Commissioner

MAM
Enclosures