

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

1. File Number: 21439	2. Status Change Date: 7-2-2020	3. Change Num: C1	4. Field Office: 4	5. GMD: 3
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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: 5/20/2020
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8a. Applicant(s) New to system <input type="checkbox"/> GARRETT & CALEY LOVE 21506 12 ROAD MONTEZUMA, KS 67867-9032	8c. Landowner(s) New to system <input type="checkbox"/> Person ID <u>67219</u> Add Seq# _____
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8b. Landowner(s) New to system <input type="checkbox"/> 8a	8d. WUC New to system <input type="checkbox"/> 8a
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9. Documents and Enclosure(s): DWR Meter(s) Date to Comply: **12/31/2020** N & P Date to Comply: **3/1/2021**

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: **7/1/2020** By: **AM**
 Date Entered: _____ By: _____

File No. **21439** 11. County: **GY** Basin: **ARKANSAS RIVER** Stream: Formation Code: **211** Special Use:

12. Points of Diversion
 CHK
 MOD
 DEL
 ENT

Rate and Quantity

Authorized Additional

PDIV Qualifier S T R ID 'N 'W Comment (AKA Line) Rate gpm Quantity af Rate gpm Quantity af Overlap PD Files

DEL 22748

ENT NW NE NW 28 26S 29W 5176 3752 325 252 325 252 NONE

NOTE: REDUCTION IN RATE

13. Storage: Rate _____ NF Quantity _____ ac/ft Additional Rate _____ NF Additional Quantity _____ ac/ft

14. Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____
 Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____

15. 5YR Allocation: Allocation Type _____ Start Year _____ 5 YR Amount _____ Amount Unit _____ Base Acres _____ Comment _____

16. Place of Use CHK MOD DEL ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files
						NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼				
CHK 20256																									

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

July 2, 2020

GARRETT & CALEY LOVE
21506 12 ROAD
MONTEZUMA, KS 67867-9032

RE: Water Right, File No. 21439

Dear Sir or Madam:

Enclosed is the 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 an acceptable water flow meter must be installed on the diversion works authorized under the referenced file number and meet current specifications.

Please also note, a condition of this approval is that the authorized diversion rate is being reduced.

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 the order modifies the original document referred to above, it 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,

A blue ink signature of Michael A. Meyer.

Michael A. Meyer
Water Commissioner

MAM:am
enclosures

pc: GROUNDWATER MANAGEMENT DISTRICT NO. 3

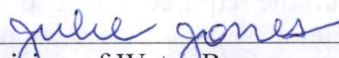
CERTIFICATE OF SERVICE

On this 2nd day of July 2020, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 21,439 dated 2nd day of July 2020 was mailed postage prepaid, first class, US mail to the following:

GARRETT & CALEY LOVE
21506 12 ROAD
MONTEZUMA, KS 67867-9032

Pc:

GROUNDWATER MANAGEMENT DISTRICT NO. 3



Division of Water Resources Staff

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

Call for address:

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

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



STATE OF KANSAS

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

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. 21439

RECEIVED
 9:00 AM
 MAY 20 2020

Garden City Field Office
 DIVISION OF WATER RESOURCES

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

2. Name and address of Applicant: LOVE LAND & CATTLE

21506 ROAD 12 MONTEZUMA, KS 67864

Phone Number: (620)846 0223

Email address: _____

Name and address of Water Use Correspondent: GARRET & CALEY LOVE

21506 ROAD 12 MONTEZUMA, KS 67864

Phone Number: (620)846 0223

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 5-20-20 Check # 101

5. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ NC Quarter of the _____ NW Quarter
 of Section _____ 28 _____, Township _____ 26 _____ South, Range _____ 29 _____ (W),
 in GRAY _____ County, Kansas, _____ 3960 feet North _____ 3960 feet West of Southeast corner of section.
 Authorized Rate 950 GPM Authorized Quantity 252 AF Depth of well _____ (feet)
(DWR use only: Computer ID No. 3 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 _____ NE Quarter of the _____ NW Quarter
 of Section _____ 28 _____, Township _____ 26 _____ South, Range _____ 29 _____ (W),
 in GRAY _____ County, Kansas, _____ 5176 feet North _____ 3752 feet West of Southeast corner of section.
 Proposed Rate 325 GPM Proposed Quantity 252 AF Proposed well depth (feet) _____
 This point is: Additional Well Geo Center List other water rights that will use this point _____

** Requested by Garrett Love 6-30-2020*

MM/awr

6. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter
 of Section _____, Township _____ South, Range _____ (W),
 in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section.
 Authorized Rate _____ Authorized Quantity _____ Depth of well _____ (feet)
(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 the _____ Quarter of the _____ Quarter of the _____ Quarter
 of Section _____, Township _____ South, Range _____ (W),
 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) lack of production on current PD

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

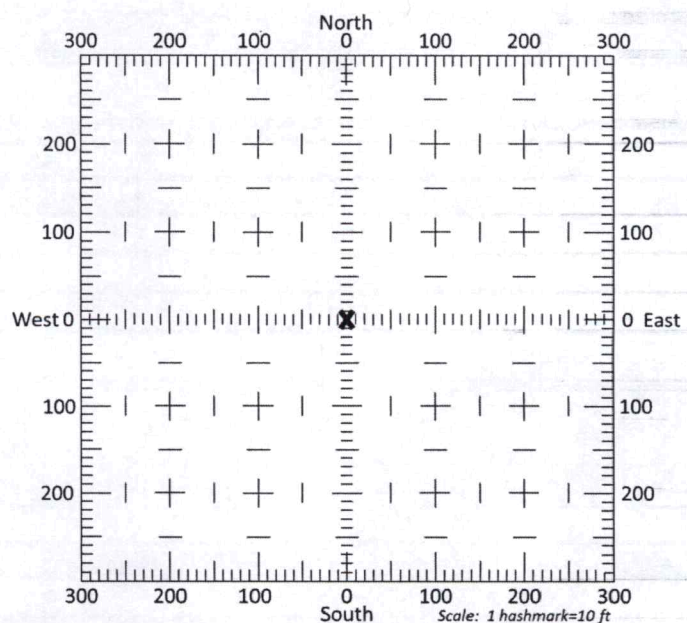
9. The change(s) (was)(will be) completed by?

10. If the point of diversion is a well:
 (a) What are you going to do with the old well?
To be plugged
 (b) When will this be done? _____

11. Groundwater Management District recommendation attached?
 Yes No

12. Assisted by CAC

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 WARREN CITY, Kansas, this 19th day of MAY, 2020.

X [Signature]

 (Owner)
GARRETT LOVE

 (Please Print)

+ [Signature]

 (Spouse)
Caley LOVE

 (Please Print)

 (Owner)

 (Please Print)

 (Owner)

 (Please Print)

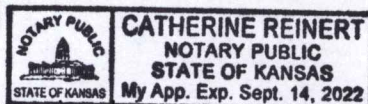
 (Spouse)

 (Please Print)

 (Spouse)

 (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 19th day of MAY, 2020.

My Commission Expires 9-14-22

[Signature]

 Notary Public

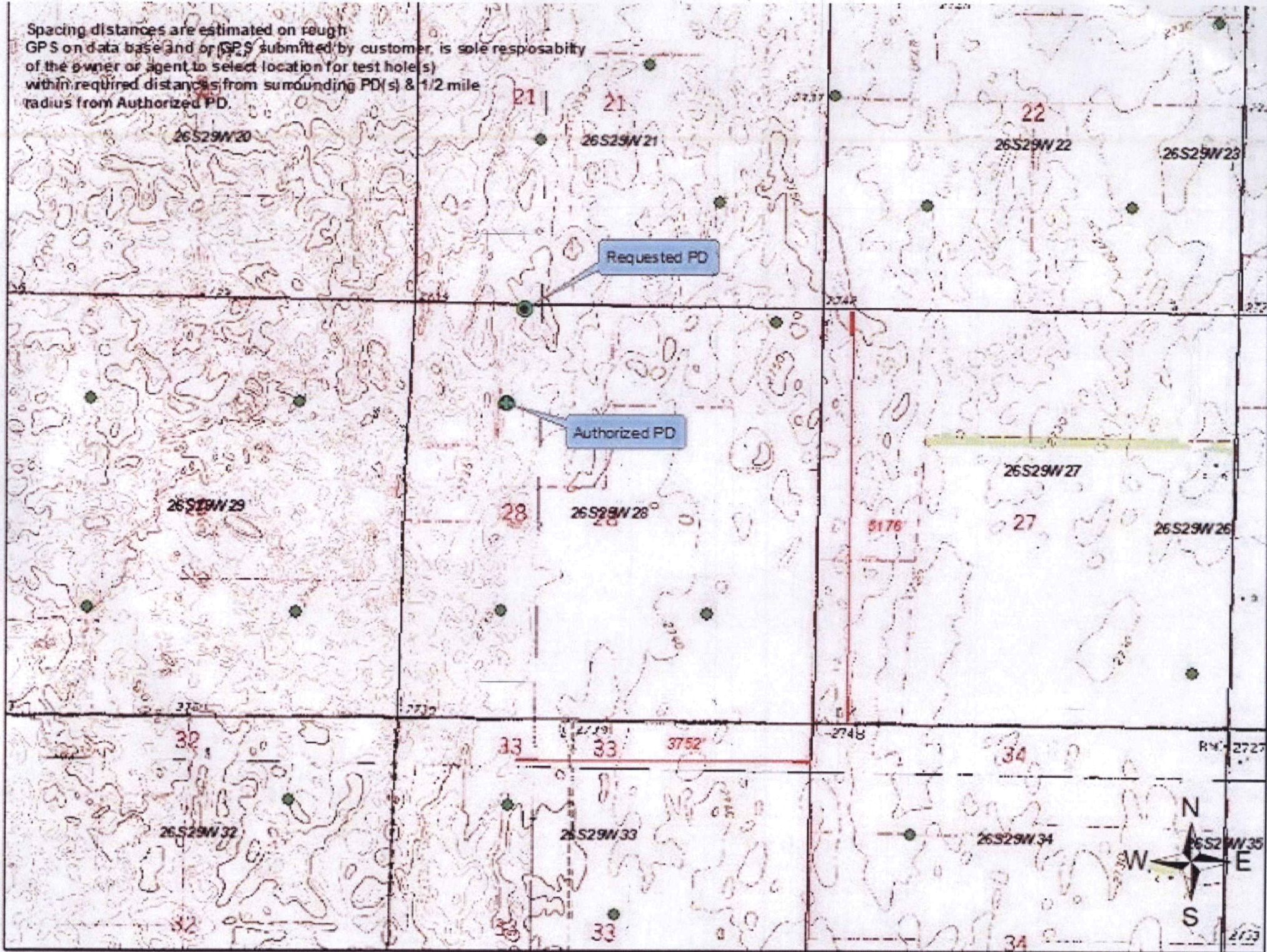
ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate 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

Spacing distances are estimated on rough GPS on data base and or GPS submitted by customer, is sole responsibility of the owner or agent to select location for test hole(s) within required distances from sumounding PD(s) & 1/2 mile radius from Authorized PD.



100.51667° W

100.50000° W

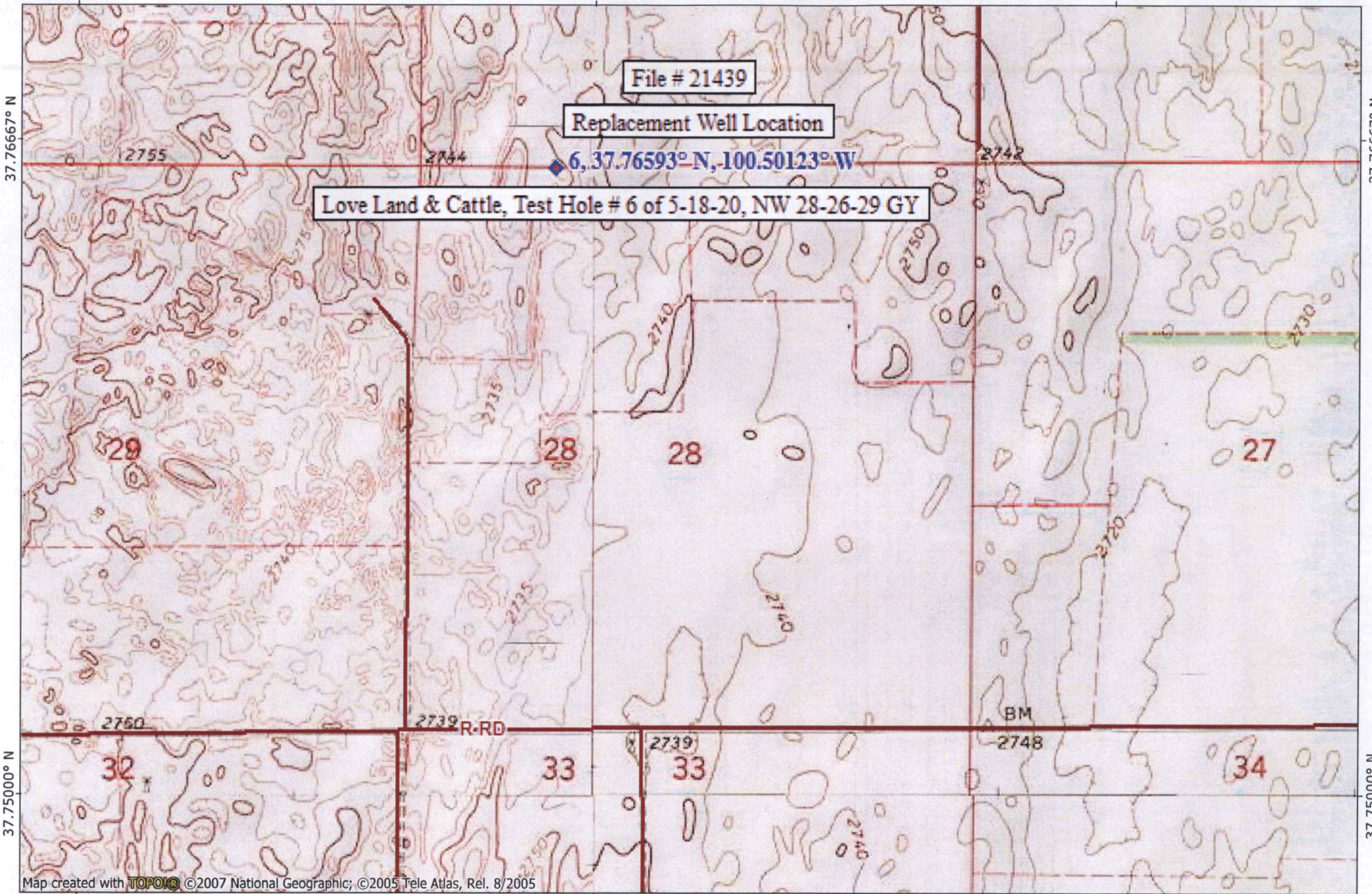
NAD27 100.48333° W

37.76667° N

37.76667° N

37.75000° N

37.75000° N

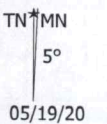
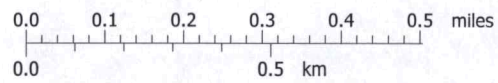


Map created with TOPO! ©2007 National Geographic; ©2005 Tele Atlas, Rel. 8/2005

100.51667° W

100.50000° W

NAD27 100.48333° W



KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

M E M O R A N D U M

TO: Files


DATE: July 1, 2020

FROM: Austin McColloch

RE: Change in Point
of Diversion Application,
Water Right,
File No. 21,439

A proposed field office change in point of diversion application was received in the office May 20, 2020 that met well spacing rules after initial review. Nearby well letters were sent both by DWR and GMD3, there was no responses. GMD3 conducted a well evaluation effects and found one "critical" well that would exceed the net effect above their maximum allowable threshold based on the GMD3 model data. DWR also conducted a Theis analysis and showed that there was significant potential for impact to the nearby well by using assumed aquifer property values based on known regional more specific values found GMD3 wide. DWR raised a concern of have data lacking in the immediate area of more specific aquifer properties to conduct a better analysis by the Theis calculation, but the only data available was the published GMD3 modeled data. After consultation with the applicant and GMD3, all agreed to consider the GMD3 well evaluation as the best available data (model data). To mitigate effects and remove the "critical well" as documented by GMD3, GMD3 proposed to limit the rate of diversion for the above referenced water right to 325 gallons per minute. With verbal agreement by Garrett and Greg Love on June 30, 2020 during a telephone conference between GMD3, the Loves, and DWR, and by agreement by email dated June 30, 2020 by Garrett Love to Mike Meyer, Water Commissioner, the Loves agreed to reduce their authorized diversion rate to 325 GPM to further process the application for approval and to allow the change in point of diversion. DWR has concern that either the completed well (after approval) will not produce enough diversion rate or there could be potential nearby effects over time if the GMD3 model data is not correct or overestimates. We explained the level of risk the Loves are taking if they impair the near-by well. In the future, DWR/GMD3 may work with the Loves in other nearby areas for an aquifer test to gain valuable information on aquifer properties to further evaluate future applications to change the point of diversion. Therefore, the proposal is to recommend approval based on the discussion above and the agreements made between all parties.

Austin McColloch
Assistant Water Commissioner


Water Commissioner

Meyer, Mike [KDA]

From: Garrett Love <garrett.t.love@gmail.com>
Sent: Tuesday, June 30, 2020 5:30 PM
To: Meyer, Mike [KDA]
Subject: Re: file No. 21439, redrill 28-26-29W

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.

Hey Mike,

Yes, I agree with a reduced authorized diversion rate of 325 GPM with the approval of this change application as a condition for that approval.

Thank you for your work and everyone's time on this.

Garrett Love

On Tue, Jun 30, 2020 at 5:11 PM Meyer, Mike [KDA] <Mike.Meyer@ks.gov> wrote:

Garrett can you provide with this email that you and or your dad agree with a reduced authorized diversion rate of 325 GPM with the approval of this change application as a condition for that approval?

thank you, that will help us proceed with processing and document your agreement with the recommendation by GMD3.

this will be a permanent authorized rate of 325 GPM for the water right.

thank you again for your patience and understanding on this whole process

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

Meyer, Mike [KDA]

From: McColloch, Austin [KDA]
Sent: Monday, June 22, 2020 11:34 AM
To: Meyer, Mike [KDA]
Subject: FW: Recommendation Change App File No. 21439
Attachments: 2020-06-22_ReviewMat_PD.pdf

Austin McColloch
Ph: (620) 276-2901

From: Jason Norquest <norquest@gmd3.org>
Sent: Monday, June 22, 2020 11:24 AM
To: McColloch, Austin [KDA] <Austin.McColloch@ks.gov>
Subject: RE: Recommendation Change App File No. 21439

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.

Good morning Austin. Here is our review for this change app. It is not a great saturated thickness area. We had issues with one of the neighboring wells that did come out critical, but minimize effects with limit on rate to 325gpm. I did have conversation with Garrett Love and he understands our analysis, but didn't want a limitation at this time if it can be avoided. Not sure if they would get much more sustained rate anyway. Let me know if you have questions.

Have a good day.

Jason Norquest
Assistant Manager, GMD3
Cell: 620-271-1289
Office: 620-275-7147
www.gmd3.org

From: McColloch, Austin [KDA] <Austin.McColloch@ks.gov>
Sent: Monday, June 8, 2020 4:13 PM
To: Jason Norquest <norquest@gmd3.org>
Subject: Recommendation Change App File No. 21439

Jason,

Attached is a copy of the above referenced change application along with a request to make a recommendation. Nearby notices were sent out and we did not receive any responses. Let me know if you have any questions or need anything.

RECEIVED

JUN 22 2020

Garden City Field Office
Division of Water Resources

Austin J. McColloch

Assistant Water Commissioner

Kansas Department of Agriculture- DWR

Garden City Field Office

<http://agriculture.ks.gov/>

Ph: (620) 276-2901

RECEIVED
JAN 8 2020
Garden City Field Office
Division of Water 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

June 22, 2020

Austin J. McColloch
Division of Water Resources
4532 W Jones Ave., Suite B
Garden City, Kansas 67846

RE: Application for Change in Point of Diversion
Water Right, File No. 21439

Dear Austin:

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 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 (1.5 ft in cases where saturated thickness is in a range between 50-75 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 one of the neighboring wells exceeded the net effect above the maximum allowable threshold. Further analysis showed that well to be critical. That status could be mitigated by limiting the rate to 325gpm. Our office did not receive any comments from neighboring well owners. We did have a conversation with the applicant and explained our results and ran other options with our analysis tool. He understood our results, but would rather not have a limitation on the new well at this time. We told him what our recommendation would be and he understood. Therefore, GMD3 sees this move as reasonable and therefore recommend that the application be approved, with the rate being limited to 325gpm at this time. If aquifer conditions change or there is a change to the water right in the future, we would be happy to evaluate the effects at that time.

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

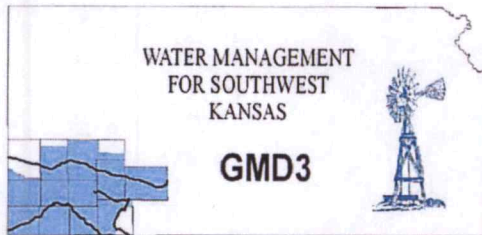
Sincerely,

Jason L. Norquest
Assistant Manager

RECEIVED

JUN 22 2020

Garden City Field Office
Division of Water 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

June 22, 2020

Austin J. McColloch
Division of Water Resources
4532 W Jones Ave., Suite B
Garden City, Kansas 67846

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Water Right, File No. 21439

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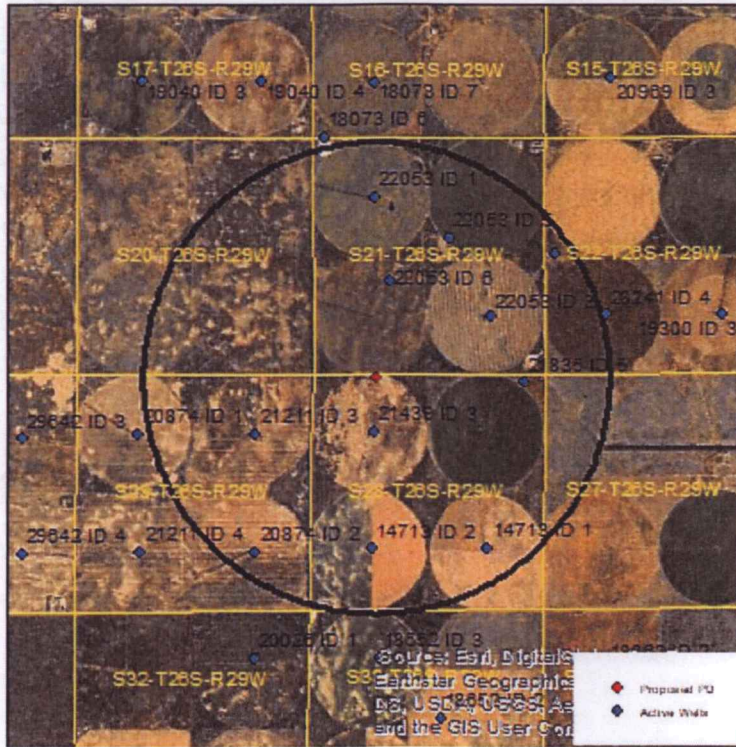
Thank you for the opportunity to review the applications and to provide a recommendation. If you have any questions, please don't hesitate to contact us.

Sincerely,

Jason L. Norquest
Assistant Manager

Evaluation of proposed move for Water Right No 21439

Proposed: Move water right no. 21439 a distance of 1,223 ft to the north.



Wells within 1 mile: 14713 ID 1, 14713 ID 2, 21835, 20874, 21211, 22053 ID 1, 22053 ID 3, 22053 ID 5, 22053 ID 6, and 14552.

The saturated thickness at the proposed well location is estimated to be 61 ft, based upon the driller's log and the GMD3 model. For saturated thickness between 50 ft and 75 ft, the drawdown allowance is 1.5 ft.

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

$S = 0.2873$, $T = 9,925 \text{ ft}^2/\text{day}$, $tp_{\text{current}} = 14 \text{ days}$ (based upon average use and observed rate),
 $Q_{\text{current}} = 200 \text{ gpm}$ (based upon 2011 field inspection), $tp_{\text{proposed}} = 60 \text{ days}$, $Q_{\text{proposed}} = 950 \text{ gpm}$

These drawdowns were calculated as follows:

- 14713 ID 1: Drawdown from current location = 0.06 ft
 Drawdown from proposed location = 1.08 ft
 Net drawdown = 1.0 ft
- 14713 ID 2: Drawdown from current location = 0.08 ft
 Drawdown from proposed location = 1.20 ft
 Net drawdown = 1.1 ft

RECEIVED

JUN 2 2011

Division of Water Resources
 Garden City Field Office

GMD3 Change Review

Analysis shows low saturated thickness in the area. Most wells meet the criteria except for one. Limiting the rate to around 350gpm would mitigate the critical effect.

Is a waiver needed: Proposed move less than half mile, minimum wells spacing is met.
Analysis shows one neighboring well could be critical if run at authorized rate/quantity.
Recommendation: After review of all available information, it appears to meet current area rules. Analysis shows one well to be critical. No response from notices. Did have a conversation with the applicant. We reviewed the data and ran a couple other options.
Discussed what our recommendation would be. He understood our results, but did not think he would be looking to limit the new well if possible. Staff would recommend approval of the change and that it be limited to a rate of 325gpm. If circumstances change, we could reevaluate any other changes to the setting.



RECEIVED

JUN 22 2020

Garden City Field Office
Division of Water Resources

21835: Drawdown from current location = 0.06 ft
Drawdown from proposed location = 1.33 ft
Net drawdown = **1.3 ft**

20874: Drawdown from current location = 0.06 ft
Drawdown from proposed location = 1.06 ft
Net drawdown = **1.0 ft**

21211: Drawdown from current location = 0.08 ft
Drawdown from proposed location = 1.44 ft
Net drawdown = **1.4 ft**

22053 ID 1: Drawdown from current location = 0.05 ft
Drawdown from proposed location = 1.16 ft
Net drawdown = **1.1 ft**

SE

22053 ID 3: Drawdown from current location = 0.06 ft
Drawdown from proposed location = 1.46 ft
Net drawdown = **1.4 ft**

22053 ID 5: Drawdown from current location = 0.05 ft
Drawdown from proposed location = 1.28 ft
Net drawdown = **1.2 ft**

SW

22053 ID 6: Drawdown from current location = 0.06 ft
Drawdown from proposed location = 1.86 ft
Net drawdown = **1.8 ft**

14552: Drawdown from current location = 0.05 ft
Drawdown from proposed location = 1.04 ft
Net drawdown = **1.0 ft**

Net drawdown exceeds the drawdown allowance of 1.5 ft for the well authorized under water right number 22053, DWR Computer ID 6. Critical well analysis is necessary on that well.

Critical Well Evaluation:

22053 ID 6:

Water Column = 61 ft

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DP = 1.80 ft

DE = 32.0 ft (Water level decline from 2020 through 2045 based upon GMD3 model)

DD = 42.8 ft (S = 0.2873, T = 74,241 gpd/ft, Q = 248 gpm, tp = 194 days, efficiency = 70%)

DT = 42.8 ft

Economic Drawdown Constraint (EDC) = $0.4 * 61 \text{ ft} = 24.4 \text{ ft}$

Physical Drawdown Constraint (PDC) = $61 \text{ ft} - 60 \text{ ft} = 1 \text{ ft}$

The PDC is more conservative than the EDC, so maximum allowable drawdown is 1.0 ft.

Total drawdown of 42.8 ft is greater than the allowable drawdown of 1.0 ft, so the well is **critical**.

Conclusion:

This move is being proposed in an area with low saturated thickness and low yielding wells. The area has little remaining water supply, and aquifer conditions will become worse as supply declines. If the applicant were to pump the proposed well at the fully authorized rate and quantity of 950 gpm and 252 AF, it is likely that effects on neighboring wells that already have low yield would be noticed. In order to prevent future impairment, **GMD3 staff recommends limiting the applicant to a rate of 325 gpm and an annual quantity of 252 AF from the proposed well location.** This would be a limitation on the water right, not a reduction. Current authorized rate of 950 gpm would be considered on any future change. Net drawdown effect on the critical well, 22053 ID 6, would be reduced to 1.5 ft, which falls within the drawdown allowance for current saturated thickness conditions specified by the GMD3 Drawdown Assessment Guidelines.

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Garden City Field Office
Division of Water Resources

GMD3 Change Review

File No(s): 21439.

DWR office: GC.

App filed to change: PD.

Is Landowner(s) correct in WRIS: Love Land & Cattle.

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) 03 being changed.

	ft. North	ft. West	
Authorized PD	3960	3960	Sect 28-26-29
Proposed PD	5176	3752	
Difference	-1216 n	208 e	
a2 + b2 = c2	1478656	43264	1233.661 foot move NE

GPS for proposed PD: Lat: 37.76593 Long: -100.50123.

Is proposed PD stacking on existing WRs? No.

Is Proposed PU overlapping existing WRs? No change.

Neighboring certified well(s) notified: ___.

Name Anthony W & Tracy A Bleumer (21835).

Address 16504 7 RD.

Zip Ingalls, KS 67853.

Name Rodney & Glenda Toews (22053).

Address 200 E Parks Ave

Zip Montezuma, KS 67867.

Name Richard L & Sharon K Batman (28241).

Address 17704 11 RD.

Zip Ingalls, KS 67867.

Domestic well(s) notified: ___.

Name ___.

Address ___.

Zip ___.

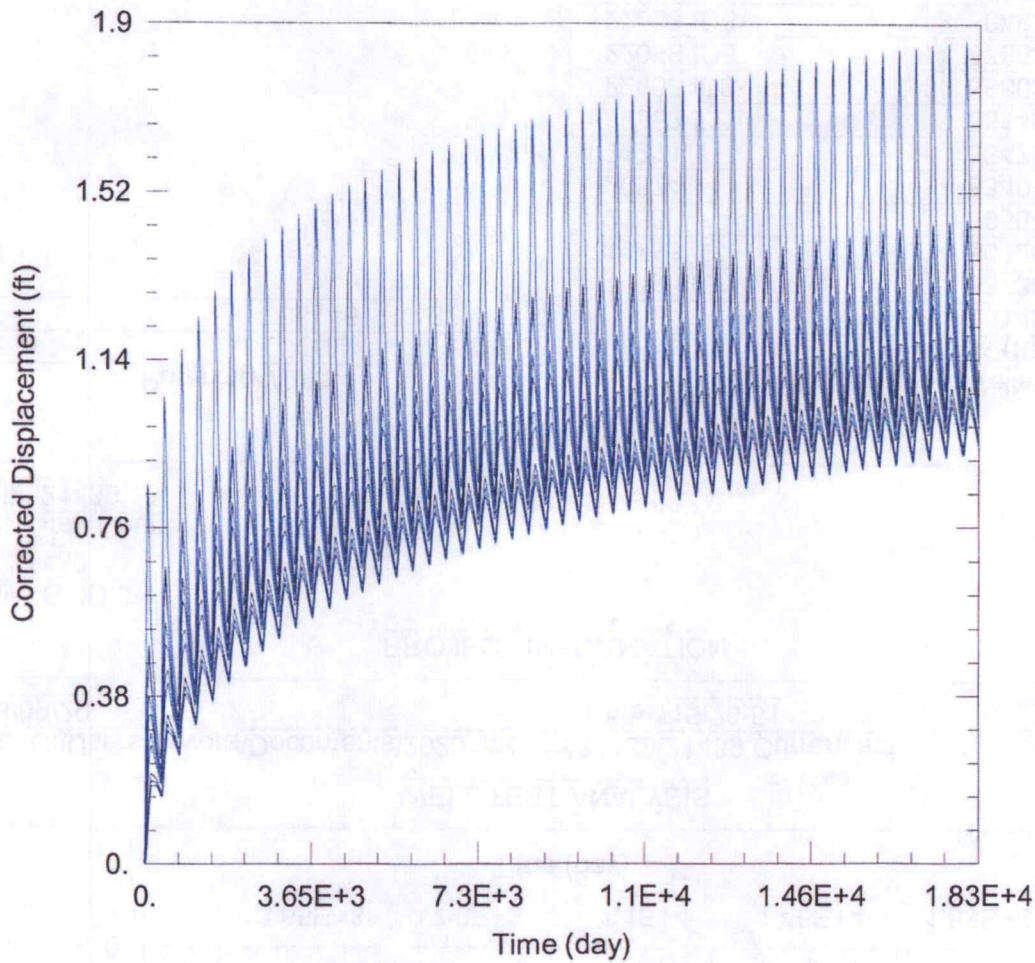
Base Acres: ___.

Perfected Acres: ___.

Irr. Return-Flow ___%

This well shows no water use reported since 2013.

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Garden City Field Office



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\21439\21439 Proposed.aqt
 Date: 06/09/20 Time: 15:20:35

PROJECT INFORMATION

Company: GMD 3
 Project: 21439
 Location: Gray County
 Test Well: 21439

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WELL DATA

*Garden City Field Office
 Division of Water Resources*

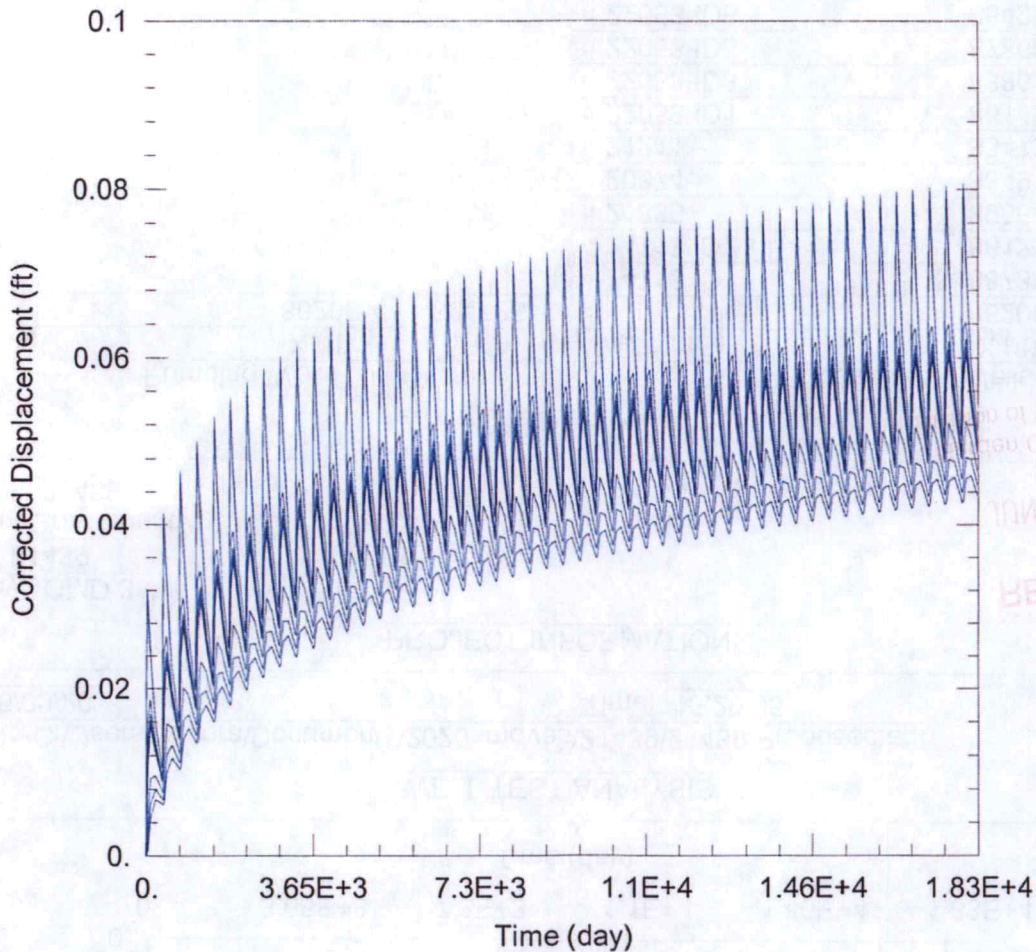
Pumping Wells

Well Name	X (ft)	Y (ft)
21439	86206	324538

Observation Wells

Well Name	X (ft)	Y (ft)
□	86206	324538
□ 14713 ID1	88738	320712
□ 14713 ID2	86125	320705
□ 21835	89554	324429
□ 20874	83491	320632
□ 21211	83473	323291
□ 22053 ID1	86149	328579
□ 22053 ID3	88802	325934
□ 22053 ID5	87863	327652
□ 22053 ID6	86496	326687
□ 14552	90223	327301

SOLUTION



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2020_moves\21439\21439 Current.aqt
 Date: 06/09/20 Time: 15:20:51

PROJECT INFORMATION

Company: GMD 3
 Project: 21439
 Location: Gray County
 Test Well: 21439

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
21439	86145	323317

Observation Wells

Well Name	X (ft)	Y (ft)
□	86145	323317
□ 14713 ID1	88738	320712
□ 14713 ID2	86125	320705
□ 21835	89554	324429
□ 20874	83491	320632
□ 21211	83473	323291
□ 22053 ID1	86149	328579
□ 22053 ID3	88802	325934
□ 22053 ID5	87863	327652
□ 22053 ID6	86496	326687
□ 14552	90223	327301

SOLUTION

14713 ID 1 current dd = 0.061293
14713 ID 2 current dd = 0.080684
21835 current dd = 0.062185
20874 current dd = 0.060317
21211 current dd = 0.079121
22053 ID 1 current dd = 0.048187
22053 ID 3 current dd = 0.060764
22053 ID 5 current dd = 0.052486
22053 ID 6 current dd = 0.064187
14552 current dd = 0.045978

14713 ID 1 proposed dd = 1.08017
14713 ID 2 proposed dd = 1.19773
21835 proposed dd = 1.32947
20874 proposed dd = 1.05594
21211 proposed dd = 1.44069
22053 ID 1 proposed dd = 1.16401
22053 ID 3 proposed dd = 1.46004
22053 ID 5 proposed dd = 1.27748
22053 ID 6 proposed dd = 1.86349
14552 proposed dd = 1.03945

14713 ID 1 net dd = 1.018877
14713 ID 2 net dd = 1.117046
21835 net dd = 1.267285
20874 net dd = 0.995623
21211 net dd = 1.361569
22053 ID 1 net dd = 1.115823
22053 ID 3 net dd = 1.399276
22053 ID 5 net dd = 1.224994
22053 ID 6 net dd = 1.799303
14552 net dd = 0.993472

22053 ID 6 325 gpm dd = 1.60705
325 gpm net = 1.542863
22053 ID 6 550 gpm dd = 1.76413
550 gpm net = 1.699943

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Garden City Field Office
Division of Water Resources

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



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

Mike Beam, Secretary

Laura Kelly, Governor

June 8, 2020

GROUNDWATER MANAGEMENT DISTRICT #3
2009 E SPRUCE ST
GARDEN CITY KS 67846

Change Application,
File No. 21439


Dear Sir or Madam:

We are enclosing a copy of the referenced application, which was submitted by Love Land & Cattle and appears to be in proper form, for your review.

We are delaying any further action for a period of 15 days from the date of this letter to allow you time to submit your recommendation concerning this application. Please submit your recommendation within the allotted time, or any authorized extension of time thereof.

If you have any questions, please contact me at (620) 276-2901. If you wish to discuss a specific file, please have the file number ready to that I may help you more efficiently.

Sincerely,


Austin McColloch
Assistant Water Commissioner

Enclosure
pc:

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

May 21, 2020

RODNEY & GLENDA TOEWS
200 E PARKS AVE
MONTEZUMA, KS 67867-8806

RE: Water Right, File No. 21439

Dear Sir or Madam:

This is to advise you that Love Land & Cattle has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point of diversion under the above referenced application. An irrigation well is proposed to be relocated to the NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 28, Township 26 South, Range 29 West, Gray County.

You can find the complete applications posted by water right file number as referenced above at: <https://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 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 contact this office. If you would prefer, you could arrange an appointment for additional assistance. Please refer to the file number when you contact us if you wish to discuss a specific file.

Sincerely,


Austin J. McColloch
Assistant Water Commissioner

AM:
enclosures

pc:
GROUNDWATER MANAGEMENT DISTRICT NO. 3

SCANNED