

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

1. File Number: 42145	2. Status Change Date: 3-14-2023	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: 3/01/2023
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8a. Applicant(s), Landowner New to system <input checked="" type="checkbox"/> CARPENTER FAM TRUST % CARPENTER, MARK B 4585 MEADE ST DENVER CO 80211-1361	8c. Landowner(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____
--	---

8b. Landowner(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____	8d. WUC New to system <input type="checkbox"/> ANTHONY J STEGMAN 815 S VAN BUREN ST HUGOTON KS 67951-2301 Person ID 23257 Add Seq# _____
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9. Documents and Enclosure(s): DWR Meter(s) Date to Comply: **12/31/2023** N & P Date to Comply: **3/1/2024**

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: **3/09/2023** By: **MAM**
 Date Entered: _____ By: _____

File No. **42145** 11. County: SV Basin: **CIMARRON RIVER** Stream: Formation Code: **211** Special Use:

12. Points of Diversion
 Rate and Quantity
 Authorized Additional
 Rate Quantity Rate Quantity
 gpm af gpm af Overlap PD Files

DEL 35317
ENT SE SE NE 26 33S 37W 2194 218 650 352 327 270 17800

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 6153																										8a	Y	
CHK 8509																										8a	Y	

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

March 14, 2023

CARPENTER FAM TRUST
% CARPENTER, MARK B
4585 MEADE ST
DENVER CO 80211-1361

RE: Field Office Application for Change
Water Right, File Nos. 17800 & 42145

Dear Sir:

Enclosed are orders 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 numbers.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in these approvals 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 return the required notification of completion of the diversion works and installation of the required meter as soon as these actions are completed. Please note the additional well construction condition attached.

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, written in a cursive style.

Michael A. Meyer
Water Commissioner

MAM:
Enclosures

pc:
ANTHONY STEGMAN
GMD3

CERTIFICATE OF SERVICE

On this 14th day of March 2023, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File Nos. 17,800 and 42,145 dated 14th day of March 2023 was mailed postage prepaid, first class, US mail to the following:

CARPENTER FAM TRUST
% CARPENTER, MARK B
4585 MEADE ST
DENVER CO 80211-1361

Pc:

ANTHONY J STEGMAN
815 S VAN BUREN ST
HUGOTON, KS 67951-2301

GMD3

A handwritten signature in blue ink that reads "Julie Jones". The signature is written in a cursive style and is positioned above a horizontal line.

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.

RECEIVED
 11:04 am
 MAR 01 2023

File No. 42145

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: CARPENTER FAMILY TRUST C/O MARK CARPENTER

Phone Number: (520) 990-7644 Email address: ZONAWINGS@YAHOO.COM

Name and address of Water Use Correspondent: TRON STEGMAN

Phone Number: (620)544-5293 Email address: STEGRACE@PLD.COM

3. The presently authorized place of use is:

Owner of Land ---- NAME: _____

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: _____

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 1-3-23 Check # 122

5. **Presently authorized point of diversion:**
 One in the SE Quarter of the SE Quarter of the NE Quarter of Section 26, Township 33 South, Range 37 W, in STEVENS County, Kansas, 2750 feet North 150 feet West of Southeast corner of section. Authorized Rate 650 GPM Authorized Quantity 352 AF Depth of well _____ (feet)
(DWR use only: Computer ID No. 1 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 NE Quarter of the NE Quarter of the SE Quarter of Section 26, Township 33 South, Range 37 W, in STEVENS County, Kansas, 2194 feet North 218 feet West of Southeast corner of section. Proposed Rate _____ Proposed Quantity _____ Proposed well depth (feet) 600
 This point is: Additional Well Geo Center List other water rights that will use this point 42145

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) _____

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

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

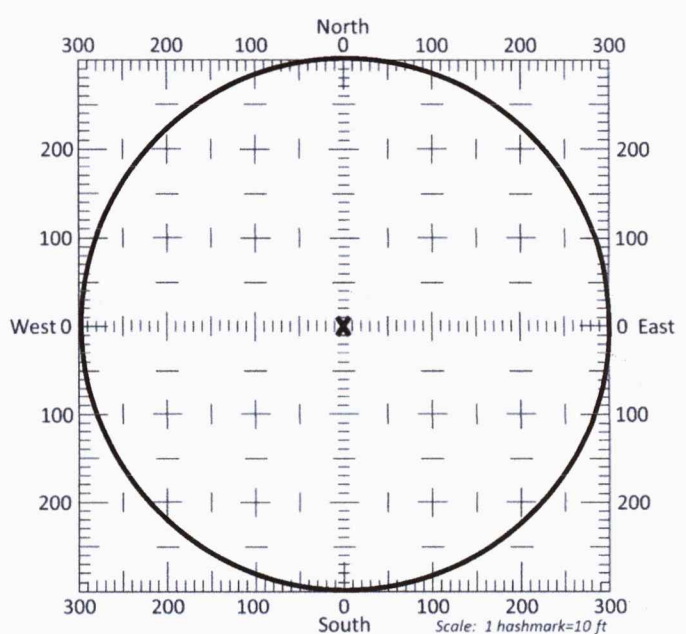
10. If the point of diversion is a well:
 (a) What are you going to do with the old well?

 (b) When will this be done? _____

11. Groundwater Management District recommendation attached?
 Yes No

12. Assisted by JG/GCFO

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 a 300 foot radius of the existing point of diversion, indicate its location on the diagram shown above in relation to the existing point of diversion. The proposed point of diversion must be located within the circle shown above. **(PLEASE NOTE: The "X" in center of diagram above represents the presently authorized point of diversion.)**

14. If the proposed groundwater point of diversion is 300 or fewer feet from 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 Denver, CO ^{Colorado}, Kansas, this 22 day of February, 2023.

<u>Mark B Carpenter TTEE</u> (Owner)	_____ (Spouse)
<u>Mark B Carpenter, TTEE</u> (Please Print)	_____ (Please Print)
<u>Mark B Carpenter TTEE</u> (Owner)	_____ (Spouse)
_____ (Please Print)	_____ (Please Print)
_____ (Owner)	_____ (Spouse)
_____ (Please Print)	_____ (Please Print)

State of ~~Kansas~~ ^{Colorado} }
 County of Denver } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 22 day of February, 2023.

JACKELINE CORTEZ-ZAMUDIO
 NOTARY PUBLIC
 STATE OF COLORADO
 NOTARY ID 20214038928
 MY COMMISSION EXPIRES 10/01/2025

Jackeline Cortez

Notary Public

My Commission Expires 10/01/2025

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

SUMMARY ORDER APPROVING APPLICATION FOR CHANGE AND IMPOSING CONDITIONS

This Summary Order is issued under authority of K.S.A. 82a-708b, as amended, and K.A.R. 5-5-1, *et seq.* and other applicable provisions of the *Kansas Water Appropriation Law, K.S.A. 82a-701 et. seq.*, and rules and regulations promulgated thereunder, With the exception of those conditions expressly contained herein, this Summary Order does not change the terms, conditions and limitations of File No. 42145

1. A change application was received on March 1, 2023 requesting that the place of use and / or point of diversion authorized under the above-referenced file number be changed as described in the application.
2. On and after the effective date of this summary order, the authorized place(s) of use shall be located substantially as shown on the topographic map accompanying the application to change the place of use. Applicable Not Applicable
3. The change in point of diversion shall not impair existing rights and shall be limited to the same source or sources of water as previously authorized. The point of diversion authorized by this summary order shall be located within a 300 foot radius of the authorized point(s) of diversion. Applicable Not Applicable
4. The point(s) of diversion described herein is administratively corrected to be more accurately described using the Global Positioning System (GPS), as described in the application. Applicable Not Applicable
5. The point(s) of diversion authorized herein shall not actually be located more than _____ feet from the previously authorized point(s) of diversion. Applicable Not Applicable
6. As required by K.A.R. 5-3-5d, if the works for diversion is a well with a diversion rate of 100 gallons per minute or more, a tube or other device suitable for making water level measurements shall be installed, operated and maintained in accordance with K.A.R. 5-6-13. Applicable Not Applicable
7. **The owner of the authorized place(s) of use shall properly install an acceptable water flow meter on or before December 31, 2023**, or before the first use of water, whichever occurs first. The water flow meter shall be installed, operated and maintained in accordance with K.A.R. 5-1-4 through 5-1-12. As required by K.S.A. 82a-732, as amended, and K.A.R. 5-3-5e, the owner shall maintain records and report the reading of the water flow meter and the total quantity of water diverted annually to the Chief Engineer by March 1 following the end of each calendar year. Applicable Not Applicable
8. **Installation of the works for diversion of water shall be completed on or before December 31, 2023**, or within any authorized extension of time. By March 1, 2024 the applicant shall notify the Chief Engineer that construction of the works for diversion has been completed, on the form provided by the Chief Engineer, as required by K.A.R. 5-8-4e. Applicable Not Applicable
9. **The completed well log shall be submitted with the required notice.** Applicable Not Applicable
10. All diversion works into which any type of chemical or other foreign substance will be injected into the water shall be equipped with an in-line, automatic, quick-closing check valve capable of preventing pollution of the source of the water supply. The check valve(s) shall be installed, operated and maintained in accordance with K.A.R. 5-3-5c. Applicable Not Applicable
11. Additional Conditions are attached. Yes No
12. In accordance with K.S.A. 82a-708a, as amended, and K.A.R. 5-5-14, all of the owners of the authorized place(s) of use of water appropriated under the above-referenced file number are responsible for compliance with its terms, conditions and limitations, as amended and/or supplemented by this Summary Order, and with applicable provisions of the *Kansas Water Appropriation Law* and the *Rules and Regulations* promulgated thereunder. Failure to comply with these provisions may result in civil penalties pursuant to K.S.A. 82a-737, as amended, and/or the suspension or revocation and dismissal of the water or appropriation right or any other enforcement actions authorized by law.

Administrative Appeal and Effective Date of Order

If you are aggrieved by this order, pursuant to K.S.A. 82a-1901, you may request an evidentiary hearing before the Chief Engineer or request administrative review by the Secretary of Agriculture. A request for hearing by the Chief Engineer must be filed within **15 days** of service of this Order and a request for administrative review by the Secretary must be filed within **30 days** pursuant to K.S.A. 77-531. Any request for administrative review must state a basis for review pursuant to K.S.A. 77-527. File any request with **Kansas Department of Agriculture, Legal Division, 1320 Research Park Drive, Manhattan, KS 66502**. Failure to timely request a hearing or review may preclude review under the Kansas Judicial Review Act.

For Use by Register of Deeds

FOR OFFICE USE ONLY
**APPLICATION APPROVED AND
 SUMMARY ORDER ISSUED**

By: Michael A. Meyer
 Duly Authorized Designee of the Chief Engineer

(Print Name): MICHAEL A. MEYER
 Division of Water Resources - Kansas Department of Agriculture

Date of Issuance: MARCH 14, 2023

State of Kansas)

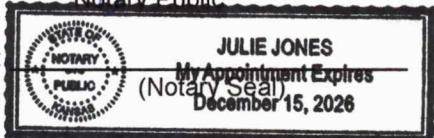
County of Finney) SS

Acknowledged before me on March 14, 2023

by Michael A. Meyer

Signature: Julie Jones
 Notary Public

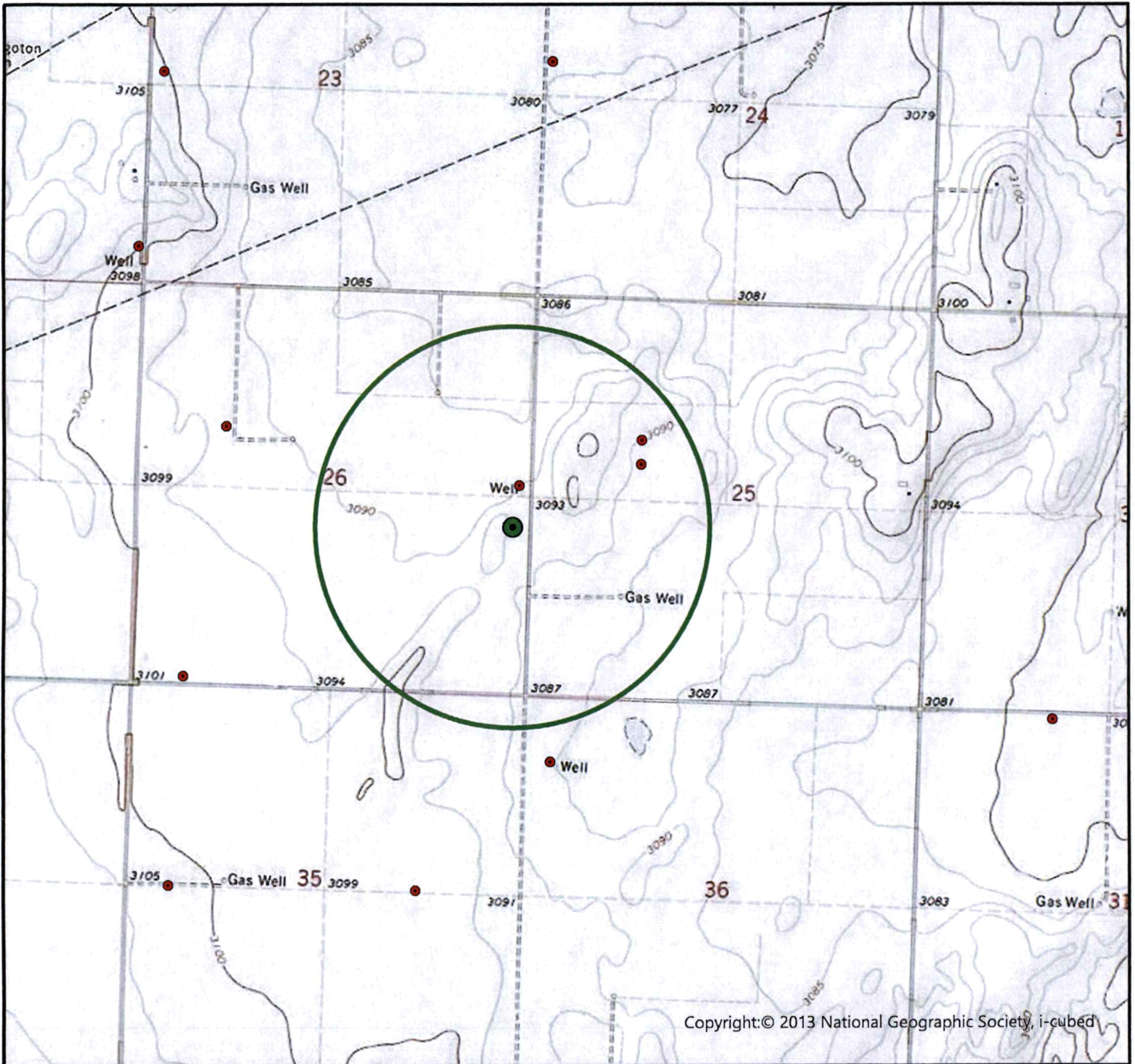
My commission expires: _____
 JULIE JONES
 My Appointment Expires
 (Notary Seal) December 15, 2026



CHANGE IN PLACE OF DIVERSION WATER RIGHT, FILE NO. [REDACTED]

SE 1/4 of Section 26 Township 33 South Range 37 West Stevens County

42,145



Copyright:© 2013 National Geographic Society, i-cubed

- Authorized Point of Diversion
- Proposed Point of Diversion
- Domestic Well within 1/2 mile
- 1/2 mile buffer

List of owner name and addresses within 1/2 mile:

Donald Dee Knier SR Living Trust
449 Road 14 Hugoton, KS, 67951



All wells of any kind within 1/2 mile of the requested place of use have been plotted.

(Signature)

Date

Date JG/GCFO
1:24,000 Scale



Hydro resources

3795 W. Jones Ave
Phone: 620-277-2389
Fax: 620-277-0224

PO Box 639
Garden City, KS 67846

CUSTOMER'S NAME TONY STEGMAN DATE 3-21-14
STREET ADDRESS _____ TEST # 1 E. LOG NO
CITY & STATE _____ DRILLER LARRY HILL
COUNTY SV QUARTER 8E SECTION 26 TOWNSHIP 33 RANGE 37
RIG# 38 WO 6889

LOCATION _____
GPS N. 37.19692° W. 101.30324° ELEVATION 3077'

%	FOOTAGE			DESCRIPTION OF STRATA	Static Water Level: <u>200 ESTIMATE</u> Proposed Well Depth:
	From	Pay	To		
	0		2	SURFACE	
	2		35	SAND, FINE, (SOFT)	
	35		52	BROWN CLAY, (SOFT)	
	52		68	SAND FINE, MED, (LOOSE)	
	68		92	SAND, FINE, MED, COURSE, (FEW, SM, GRAVEL) (LOOSE)	
	92		110	SAND, FINE, (STUFFING CLAYS)	
	110		117	SAND, FINE, MED, COURSE, (SM, MED, LG GRAVEL) (USE SOME WATER)	
	117		193	BROWN CLAY, FINE SAND, MIXED, LIME ROCK, (FEW SAND STREAKS)	
	193		274	BROWN CLAY, (STUFFING SANDS) (SOFT)	
5%	274	17	291	SAND, FINE, (STUFFING CLAYS)	
15%	291	38	329	SAND, FINE, MED, COURSE, (STUFFING CLAYS)	
	329		440	BROWN CLAY, LIME ROCK, LEDGES (HARD) (STUFFING SAND)	
	440		510	BLUE, BROWN, CLAY (FIRM) RED CLAY, (STUFFING SANDS)	
15%	510	90	600	SAND FINE, MED, COURSE, (STUFFING CLAYS)	
	600			LOST ZIRC DID NOT GET IT BACK	
			145	TOTAL	
					4-BRAN
					6-GEI-X
					6-BENTONITE
					1-PERMA-PLUG

S. Thurlow
3/7/2023

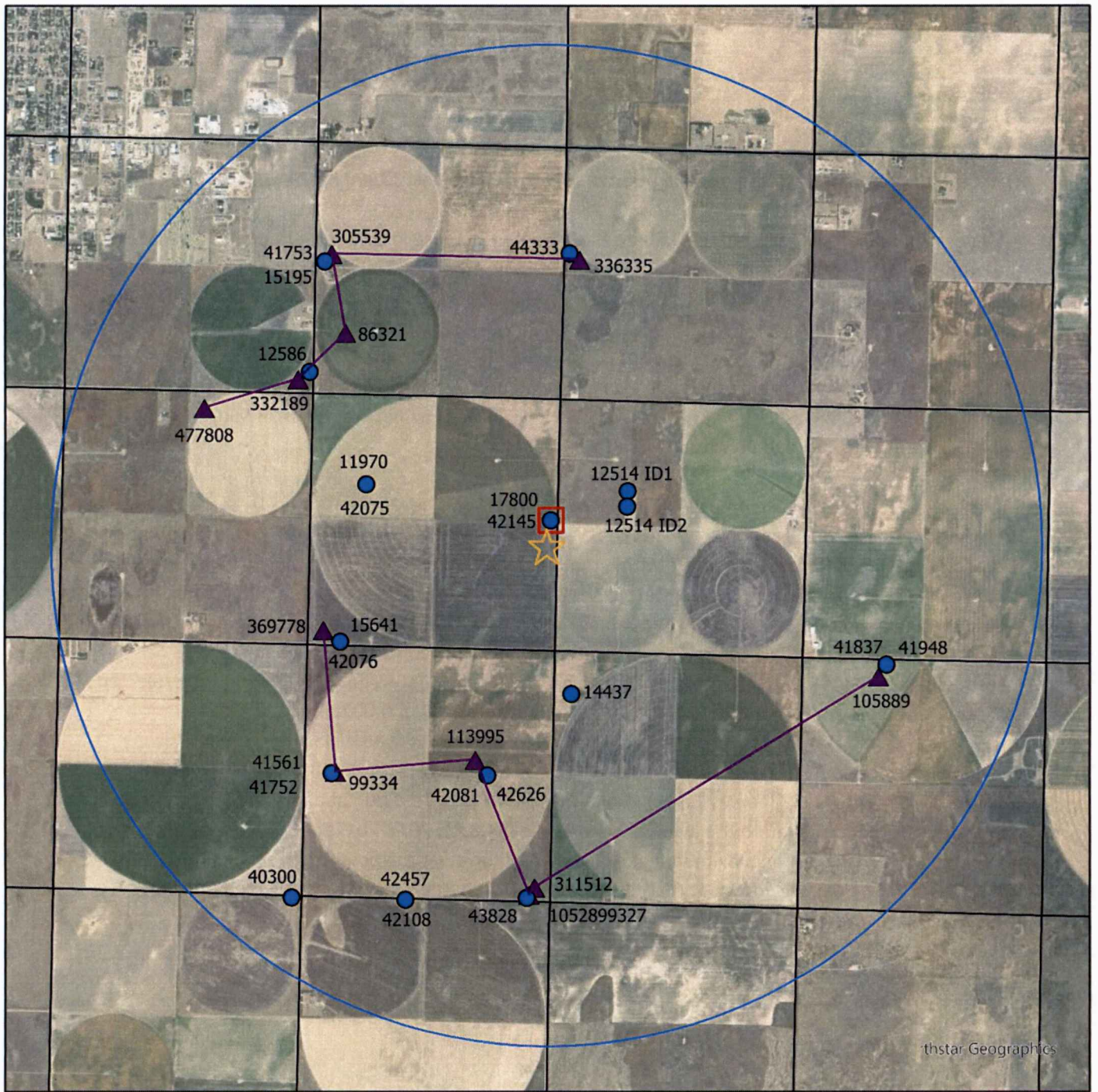
This evaluation of proposed change in point of diversion, File Nos. 17800 & 42145

A 50-year Theis analysis was used to evaluate the potential increase in dynamic drawdown as a result of the proposed change in point of diversion for the one well authorized by File Nos. 17800 and 42145. The change proposes reallocating the well approximately 556 feet South and 68 feet West of the currently authorized location (Figure 1).

The GMD No. 3 groundwater model was used with an adjustment factor for a projected future (2068) saturated thickness (298.9 ft). The average of model cells located within Township 33 South, Range 37 West, Sections 23-26, 35 and 36 was used.

The transmissivity was estimated based on lithological logs from the Kansas Geological Survey's Water Well Completion Records Database (WWC5). WWC5 records within 1.5 miles of the proposed point of diversion were used. Records that were within that area, but did not include lithological data, were not drilled to bed rock, or had poor lithological descriptions were excluded. Hydraulic conductivity assumptions were based on the calibrated values used for the GMD No. 3 groundwater model (Figures 2 and 3). In all, eleven lithological logs were evaluated (Figure 4-5, Tables 1-11), with an average transmissivity of 11,498.1 square feet per day. An assumed specific storage of 1×10^{-5} and the projected saturated thickness was used to determine the assumed storativity of 0.00299.

Drawdown was evaluated at 4 nearby existing wells authorized by File Nos. 41837 & 41948, 43828, 41561 & 41752, and 14437 (Tables 12-15). A quantity of 352 acre-feet (AF) at a rate of 650 gallons per minute (gpm) was compared to the average historic use (34.8 AF, 2012-2017) at the most recent pumping rate (224 gpm). The maximum net drawdown occurred at the point of diversion authorized by File No. 14437. The net drawdown at that distance was 4.2 feet, or 1.4% of the projected future saturated thickness (Table 15).



- ☆ Proposed PDIV
- Authorized PDIV
- Nearby PDIVs
- ▲ WWC5 Well Logs
- Transects
- 2 Mile Buffer Radius
- PLSS Sections

0 0.25 0.5 1 Miles



Kansas Department of Agriculture
 Division of Water Resources
 March 6, 2023

Figure 1: Location of current and proposed point of diversion, surrounding points of diversion, and WWC5 records

Table 1. PST+ synonymy codes and lithology descriptions.

Synonymy	Lithology	Synonymy	Lithology	Synonymy	Lithology
sh	Shale	sc	Sandy Clay or Silty Sand	fsnd	Fine Sand
c	Clay	fds	Fine Sandy Silt	fmgnd	Fine to Medium Sand
coal	Coal	fmds	Fine to Medium Sandy Silt	fmsnd	Fine to Medium Sand
br	Bedrock	fcrsds	Fine to Coarse Sandy Silt	snd	Sand
rb	Red Bed	ds	Sandy Silt	fcrrsnd	Fine to Coarse Sand
r	Rock	mds	Medium Sandy Silt	msnd	Medium Sand
sst	Siltstone	gc	Gravelly Clay	mcrssnd	Medium to Coarse Sand
ca	Limestone/caliche	mcrsds	Medium to Coarse Sandy Silt	cg	Clayey Gravel
o	Overburden	crsds	Coarse Sandy Silt	crssnd	Coarse Sand
ts	Topsoil	cesd-cg	Cemented Sand and/or Gravel	sg	Silty Gravel
fs	Fine Silt	fss	Fine Silty Sand	fsdg	Fine Sand and Gravel
fsc	Fine Sandy Clay	fmss	Fine to Medium Silty Sand	fmsdg	Fine to Medium Sand and Gravel
fmsc	Fine to Medium Sandy Clay	ss	Silty Sand	msdg	Medium Sand and Gravel
m	Marl or Ochre	mss	Medium Silty Sand	sdg	Sand and Gravel
msc	Medium Sandy Clay	fcrrss	Fine to Coarse Silty Sand	fcrrsdg	Fine to Coarse Sand and Gravel
s	Silt	mcrsss	Medium to Coarse Silty Sand	mcrssdg	Medium to Coarse Sand and Gravel
crssc	Coarse Sandy Clay	crsss	Coarse Silty Sand	crssdg	Coarse Sand and Gravel
fcrrssc	Fine to Coarse Sandy Clay	u	Unknown (most likely unintelligible)	fg	Fine Gravel
mcrssc	Medium to Coarse Sandy Clay			fmg	Fine to Medium Gravel
				fcrg	Fine to Coarse Gravel
				fcrrsg	Fine to Coarse Gravel
				g	Gravel
				mg	Medium Gravel
				mcrsg	Medium to Coarse Gravel
				crsg	Coarse Gravel

Figure 2: Synonymy codes and lithology descriptions. Source: KGS OFR 2010-18

Table 6. The calibrated values for PST+ synonymy lithologies.

Synonymy	K	Sy	Synonymy	K (ft/d)	Sy	Synonymy	K (ft/d)	Sy
sh	0.00004	0.05	sc	4.4	0.08	fsnd	15	0.24
c	0.00004	0.05	fds	4.4	0.08	fmgnd	15	0.24
coal	0.00004	0.05	fmds	4.4	0.08	fmsnd	15	0.24
br	0.00004	0.05	fcrsds	4.4	0.08	snd	63	0.24
rb	0.00004	0.05	ds	4.4	0.08	fcrrsnd	63	0.24
r	0.00004	0.05	mds	4.4	0.08	msnd	63	0.24
sst	0.00004	0.05	gc	4.4	0.08	mcrssnd	63	0.24
ca	0.0001	0.08	mcrsds	4.4	0.08	cg	63	0.24
o	0.0001	0.08	crsds	4.4	0.08	crssnd	63	0.29
ts	0.0001	0.08	cesd-cg	14.5	0.16	sg	63	0.29
fs	0.0001	0.08	fss	14.5	0.16	fsdg	299	0.29
fsc	0.0001	0.08	fmss	14.5	0.16	fmsdg	299	0.29
fmsc	0.0001	0.08	ss	14.5	0.16	msdg	299	0.29
m	0.0001	0.08	mss	14.5	0.16	sdg	299	0.29
msc	0.0001	0.08	fcrrss	14.5	0.16	fcrrsdg	299	0.29
s	0.0001	0.08	mcrsss	14.5	0.16	mcrssdg	299	0.29
crssc	0.0001	0.08	crsss	14.5	0.16	crssdg	299	0.29
fcrrssc	0.0001	0.08	u	14.5	0.16	fg	299	0.29
mcrssc	0.0001	0.08				fmg	299	0.29
						fcrg	299	0.29
						fcrrsg	299	0.29
						g	299	0.29
						mg	299	0.29
						mcrsg	299	0.29
						crsg	299	0.29

Figure 3: Calibrated hydraulic conductivity values. Source: KGS OFR 2010-18

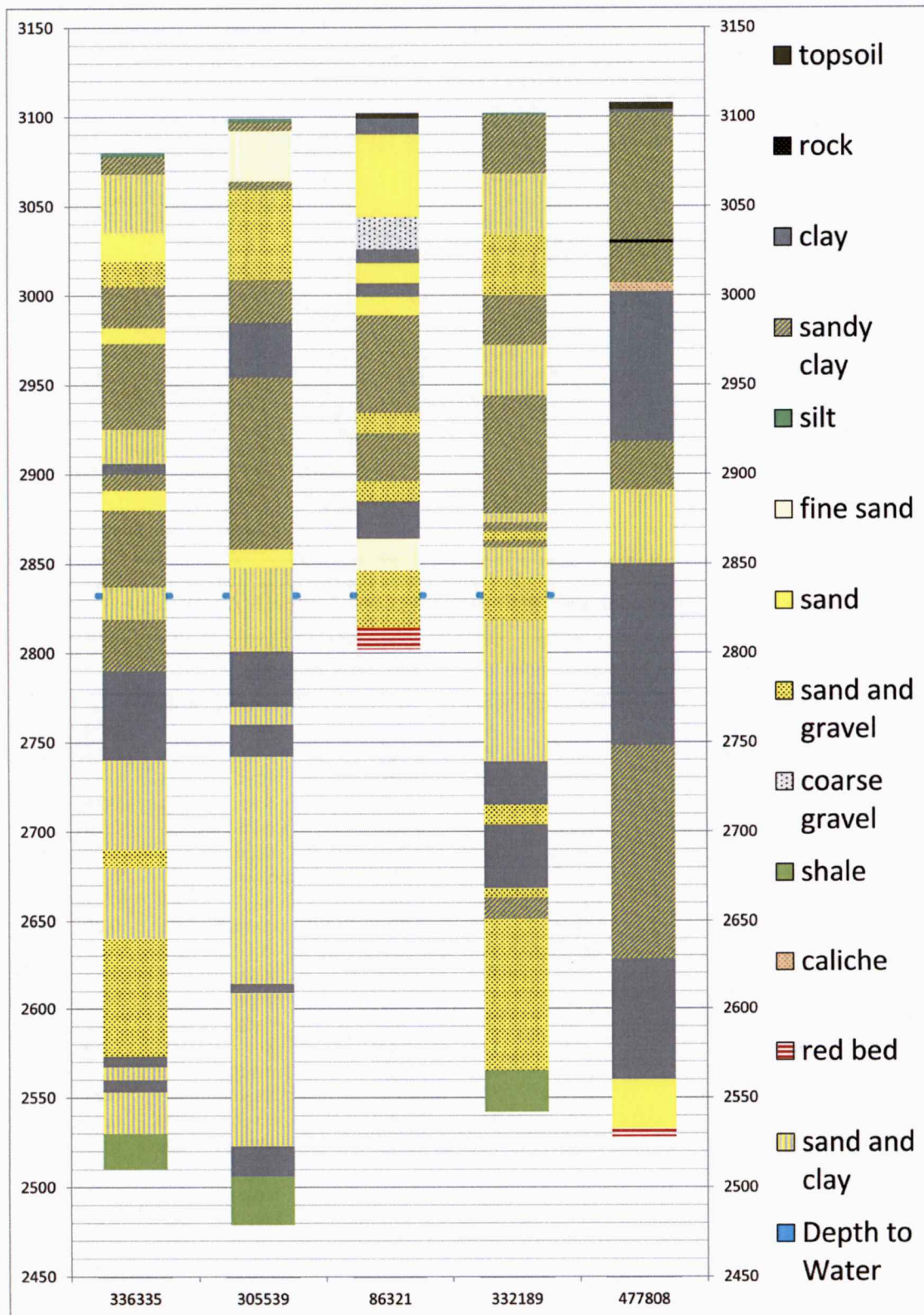


Figure 4: lithology log of KGS Wells on North transect line

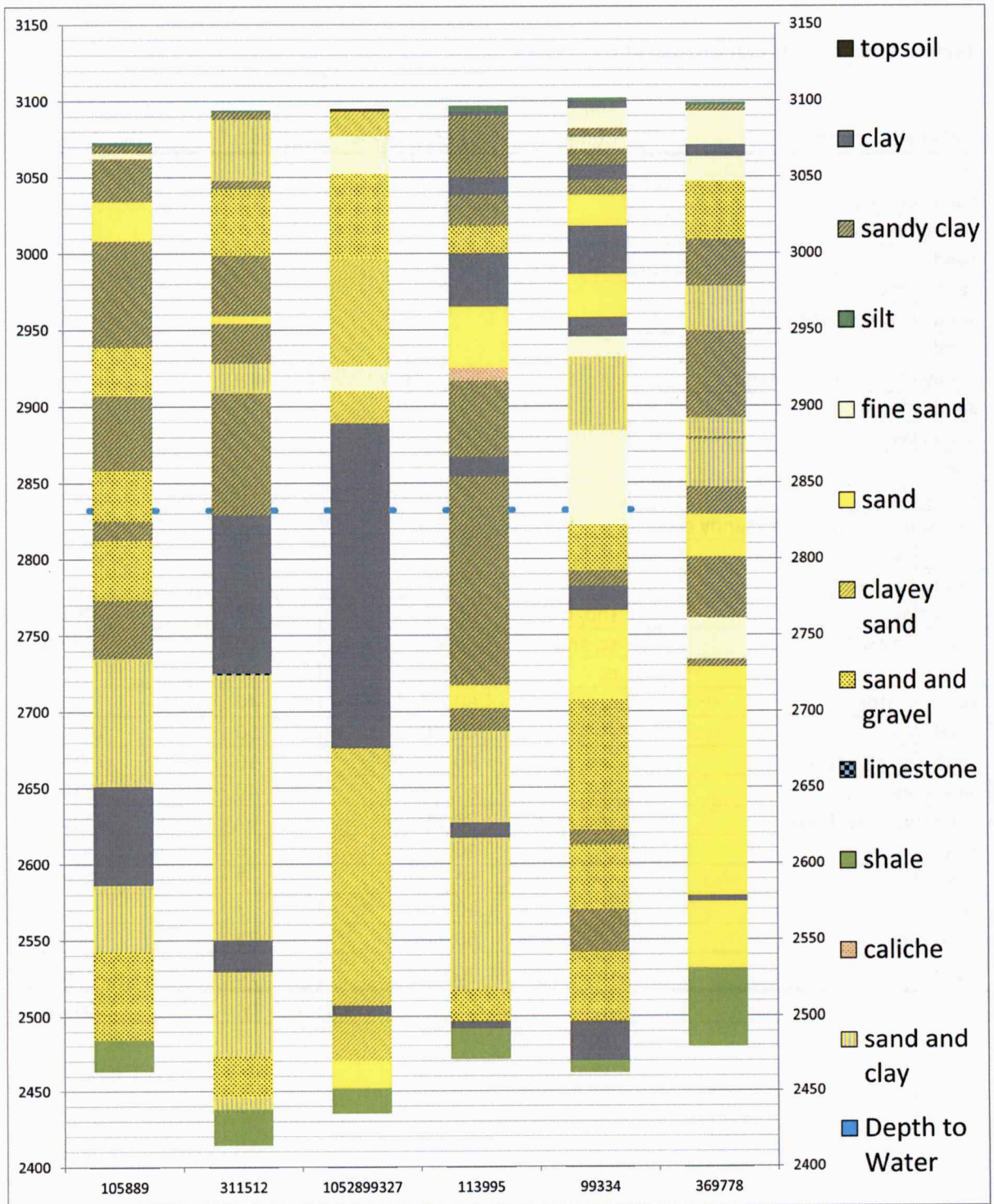


Figure 5: lithology log of KGS Wells on South transect line

Table 1: Lithology, KGS Well ID 336335

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
silt				
sandy clay caliche				
fine sand clay				
sand				
sand gravel				
sandy clay caliche sand				
sand				
sandy clay limestone sand				
sandy clay sand				
sand clay				
clay				
sandy clay				
fine sand medium sand sandy clay				
sand clay				
sandy clay sand				
sand clay	snd, c	60, 40	13	491.4
sandy clay sand	sc, snd	60, 40	29	250.6
clay	c	100	10	0.0
clay limestone	c, ca	60, 40	40	0.0
sand clay	sc	60, 40	50	1890.0
sand fine gravel clay	snd, fg, c	50, 30, 20	10	1212.0
sand clay	snd, c	60, 40	40	1512.0
sand fine gravel clay	snd, fg, c	50, 30, 20	67	8120.4
clay	c	100	6	0.0
sand clay	snd, c	60, 40	7	264.6
clay	c	100	7	0.0
sand clay	snd, c	60, 40	23	869.4
shale	sh	100	20	0.0
Total Transmissivity:				14610.4

Table 2: Lithology, KGS Well ID 305539

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
silt				
sandy clay				
fine sand				
sandy clay caliche				
sand gravel clay				
sandy clay limestone				
clay limestone				
clay limestone				
sandy clay limestone sand				
sand				
			Above water surface	
clay sand	c, snd	60, 40	16	403.2
very fine sand and clay	fsnd, c	60, 40	15	135.0
clay	c	100	31	0.0
very fine sand and clay	fsnd, c	60, 40	10	90.0
clay	c	100	18	0.0
very fine sand and clay	fsnd, c	60, 40	23	207.0
very fine sand and clay	fsnd, c	60, 40	23	207.0
clay and sand	c, snd	60, 40	16	403.2
clay and sand	c, snd	60, 40	26	655.2
fine and medium sand with clay	fmsnd, c	70, 30	14	147.0
sand and clay	snd, c	60, 40	26	982.8
clay	c	100	5	0.0
sand and clay	snd, c	60, 40	36	1360.8
sand and clay	snd, c	60, 40	50	1890.0
clay	c	100	6	0.0
clay	c	100	11	0.0
shale	sh	100	27	0.0
			Total Transmissivity:	6481.2

Table 3: Lithology, KGS Well ID 86321

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil	Above water surface			
clay				
sand				
large gravel				
clay				
sand				
clay				
sand				
sandy clay				
sand and gravel				
sandy clay				
sand and gravel				
red clay				
fine red sand				
sand and gravel				
red bed	rb	100	12	0.0
Total Transmissivity:				2833.2

Table 4: Lithology, KGS Well ID 332189

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
silt				
sandy clay caliche				
sand				
sand clay				
sand gravel clay				
sandy clay				
clay sandy clay sand				
sandy clay sand				
sandy clay sand				
sand clay				
sandy clay				
sand fine gravel clay				
sandy clay clay				
clay coarse sand fine gravel				
sand fine gravel clay	snd, fg, c	50, 30, 20	14	1696.8
clay sand	c, snd	60, 40	79	1990.8
clay	c	100	24	0.0
sand fine gravel rock	snd, fg, r	50, 30, 20	11	1333.2
clay	c	100	36	0.0
sand fine gravel clay	snd, fg, c	20, 30, 20	5	606.0
sandy clay	sc	100	12	52.8
sand fine gravel clay	snd, fg, c	50, 30, 20	86	10423.2
shale	sh	100	23	0.0
Total Transmissivity:				16102.8

Table 5: Lithology, KGS Well ID 477808

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil				
gray clay				
sandy clay and sand layers				
rock				
sandy clay and sand layers				
caliche				
clay and sandstone layers				
sandy clay and sand streaks				
tan clay and medium sand				
red clay and fine sand streaks	c, fsnd	80, 20	84	252.0
red and pink sand	snd	100	120	7560.0
clay and very fine sand streaks and rock layers	c, fsnd, r	70, 15, 15	68	153.0
medium fine sand	fmsnd	100	27	405.0
red bed	rb	100	5	0.0
Total Transmissivity:				8370.0

Table 6: Lithology, KGS Well ID 105889

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
silt				
sandy clay				
fine sand				
sandy clay fine sand caliche				
sandy clay sand				
fine sand medium sand coarse sand				
sandy clay fine sand medium sand				
sandy clay				
sandy clay caliche				
sandy clay sand caliche				
sand gravel				
sandy clay sand				
sandy clay sand				
sand gravel sandy clay	snd, g, sc	50, 30, 20	7	854.6
sandy clay	sc	100	13	57.2
sand gravel sandy clay	snd, g, sc	50, 30, 20	39	4761.1
sandy clay sand	sc, snd	60, 40	20	556.8
sandy clay sand clay	sc, snd, c	50, 30, 20	18	379.8
clay fine sand	c, fsnd	60, 40	84	504.0
clay	c	100	65	0.0
clay fine sand	c, fsnd	60, 40	44	264.0
sand gravel	snd, g	60, 40	32	5036.8
sand gravel clay	snd, g, c	50, 30, 20	26	3151.2
shale	sh	100	21	0.0
Total Transmissivity:				15565.5

Table 7: Lithology, KGS Well ID 311512

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
silt				
sandy clay caliche fine sand				
fine sand clay				
sandy clay sand				
sand fine gravel clay				
sand gravel				
sandy clay limestone				
sandy clay				
sandy clay sand limestone				
sand				
sandy clay sand				
fine sand medium sand clay				
sandy clay sand limestone				
sandy clay				
sandy clay coarse sand				
Above water surface				
sandy clay	sc	100	3	13.2
clay	c	100	18	0.0
clay limestone sand	c, ca, snd	50, 30, 20	16	201.6
clay	c	100	48	0.0
clay fine sand limestone	c, fsnd, ca	50, 30, 20	22	99.0
limestone	ca	100	1	0.0
clay fine sand	c, fsnd	60, 40	29	174.0
fine sand medium sand clay	fmsnd, c	60, 40	65	585.0
sand clay	snd, c	100	21	92.4
fine sand medium sand clay	fmsnd, c	60, 40	19	171.0
clay sand	c, snd	60, 40	13	327.6
sand clay	snd, c	60, 40	27	1020.6
clay caliche sand	c, ca, snd	50, 30, 20	21	264.6
clay fine sand	c, fsnd	60, 40	15	90.0
clay sand	c, snd	60, 40	21	529.2
sand clay	snd, c	60, 40	20	756.0
sand fine gravel	snd, fg	60, 40	27	4249.8
clay sand	c, snd	60, 40	8	201.6
shale	sh	100	24	0.0
Total Transmissivity:				8775.6

Table 8: Lithology, KGS Well ID 1052899327

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil				
clayey fine sand				
fine sand				
gravelly fine sand				
fine to coarse sand, gravelly				
clayey fine sand, brown				
clayey fine sand, red				
clayey fine sand				
clayey fine sand				
fine sand with caliche stringers				
clayey fine sand				
clay, brownish red	c	100	1	0.0
clay, bluish red	c	100	58	0.0
clay, red	c	100	97	0.0
clayey fine to medium sand	c, fmsnd	60, 40	56	336.0
clayey fine to coarse sand	c, snd	60, 40	65	1638.0
clayey fine to medium sand	c, fmsnd	60, 40	48	288.0
clay, brown	c	100	7	0.0
clayey fine to medium sand	c, fmsnd	60, 40	30	180.0
fine to coarse sand	snd	100	18	1134.0
shale, unweathered, and red bed	sh	100	17	0.0
			Total Transmissivity:	3576.0

Table 9: Lithology, KGS Well ID 113995

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
silt				
clay caliche				
sandy clay fine sand caliche				
sandy clay sand				
clay				
sandy clay sand				
sand fine gravel				
clay caliche gravel				
clay caliche				
clay caliche sand				
fine sand medium sand coarse sand				
sand rock				
sand sandy clay limestone				
caliche fine sand				
sandy clay				
sandy clay fine sand				
clay limestone				
sandy clay fine sand limestone	sc, fsnd, ca	50, 30, 20	15	100.5
sandy clay	sc	100	18	79.2
sandy clay fine sand	sc, fsnd	60, 40	82	708.5
fine sand medium sand sandy clay	fmsnd, sc	60, 40	15	161.4
sandy clay fine sand	sc, fsnd	60, 40	15	129.6
clay fine sand limestone	c, fsnd, ca	50, 30, 20	60	270.0
clay limestone	c, ca	60, 40	10	0.0
sand clay	sc	60, 40	100	3780.0
sand fine gravel	snd, fg	60, 40	20	3148.0
clay gravel	c, g	60, 40	5	598.0
shale	sh	100	21	0.0
Total Transmissivity:				8975.2

Table 10: Lithology, KGS Well ID 99334

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
silt	Above water surface			
clay				
very fine and fine sand				
sandy clay				
very fine and fine sand				
sandy clay				
clay				
sandy clay				
fine and coarse sand				
clay				
clay				
fine and coarse sand				
clay				
very fine and fine sand				
clay sand				
very fine and fine sand with silt	fsnd, s	70, 30	10	105.0
sand, medium gravel, and silt	snd, g, s	50, 30, 20	30	3636.0
sandy clay	sc	100	10	44.0
clay	c	100	16	0.0
fine, coarse, and medium sand	snd	100	24	1512.0
fine and coarse sand with silt	snd, s	70, 20	34	1499.4
sand, medium gravel, and silt	snd, g, s	50, 30, 20	86	10423.2
sandy clay	sc	100	10	44.0
sand, medium gravel, and silt	snd, g, s	50, 30, 20	42	5090.4
sandy clay	sc	100	28	123.2
sand, coarse gravel, and silt	snd, crsg, s	50, 30, 20	45	5454.0
clay and shale	c, sh	100	27	0.0
shale	sh	100	8	0.0
Total Transmissivity:				27931.2

Table 11: Lithology, KGS Well ID 369778

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
silt				
sandy clay				
fine sand				
clay				
fine sand				
sand gravel				
sandy clay				
fine sand medium sand clay				
sandy clay sand				
sand clay				
sandy clay				
fine sand medium sand clay				
sandy clay	sc	100	3	13.2
fine sand medium sand	fmsnd	100	28	420.0
sandy clay	sc	100	40	176.0
fine sand	fsnd	100	27	405.0
sandy clay	sc	100	5	22.0
sand	snd	100	26	1638.0
sand	snd	100	124	7812.0
clay	c	100	4	0.0
sand	snd	100	44	2772.0
shale	sh	100	52	0.0
Total Transmissivity:				13258.2

Table 12: Theis drawdown evaluated at File Nos. 41837 & 41948; T = 11,498.1 ft²/day, S = 0.00299

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	7655.1	650.0	352.0	3.8	1.3%
Baseline	7775.9	224.0	34.8	0.6	0.2%
			Net:	3.1	1.0%

Table 13: Theis drawdown evaluated at File No. 43828; T = 11,498.1 ft²/day, S = 0.00299

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	7409.4	650.0	352.0	3.8	1.3%
Baseline	7969.5	224.0	34.8	0.6	0.2%
			Net:	3.2	1.1%

Table 14: Theis drawdown evaluated at File Nos. 41561 & 41752; T = 11,498.1 ft²/day, S = 0.00299

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	6621.4	650.0	352.0	4.0	1.3%
Baseline	7087.3	224.0	34.8	0.7	0.2%
			Net:	3.3	1.1%

Table 15: Theis drawdown evaluated at File No. 14437; T = 11,498.1 ft²/day, S = 0.00299

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	3140.0	650.0	352.0	5.3	1.8%
Baseline	3678.7	224.0	34.8	1.1	0.4%
			Net:	4.2	1.4%



Southwest Kansas
Groundwater Management District No. 3
2009 E. Spruce Street
Garden City, Kansas 67846
(620) 275-7147 phone
www.gmd3.org

February 27, 2023

Michael A. Meyer
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 Nos. 17800 & 42145

Dear Mike:

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

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 management program. Under K.S.A. 82a-708b, an applicant requesting a change in point of diversion must demonstrate to the chief engineer that any proposed change is reasonable and will not impair. The enclosed report is an analysis performed by the GMD on behalf of our membership. Under this analysis, the proposed change is considered to be reasonable and unlikely to impair if either the net in-season well-to-well effect of the proposed change is less than a strict maximum allowable threshold (4.0 ft with saturated thickness is greater than 200ft), 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 some of the neighboring wells exceeded the net effect above the maximum allowable threshold and needed further evaluation. Critical wells were determined possible in the area if the proposed well pumped at full authority. We did not receive any comments from neighboring well owners. Therefore, GMD3 sees these moves as meeting current rules and would recommend approval with better information given to ensure that neighboring wells are not adversely affected. 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

FEB 27 2023

Garden City Field Office
Division of Water Resources

GMD3 Change Review

File No(s): 17800 & 42145.

DWR office: GC.

App filed to change: PD.

Is Landowner(s) correct in WRIS: Carpenter Family Trust % Mark Carpenter.

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) 01 being changed.

	ft. North	ft. West	
Authorized PD	2750	150	Sect 26-33-37
Proposed PD	2194	218	
Difference	556 s	-68 w	
a2 + b2 = c2	309136	4624	560.1428 foot move SW

GPS for proposed PD: Lat: 37.14692 Long: -101.30334.

Is proposed PD stacking on existing WRs? No.

Is Proposed PU overlapping existing WRs? No Change.

Neighboring certified well(s) notified: .

Name Donald Dee Knier Sr Living Trust % Donnie & Naomi Knier (12514).

Address 449 Road 14.

Zip Hugoton, KS 67951.

Email: kfarms@pld.com Phone: 620-544-6652.

Name ATS Enterprises LLC (14437, 42626).

Address 815 S Van Buren St.

Zip Hugoton, KS 67851.

Email: stegrace@pld.com Phone: 620-544-5293.

Domestic well(s) notified: .

Name .

Address .

Zip .

Base Acres: .

Perfected Acres: .

Irr. Return-Flow %

Stevens County

Authorized 352AF @ 650gpm

Well not running during 2022 inspection.

Average water use reported (2012-2017): 34.83AF/year.

2018-2021 reported physical problems with the well and no pumping.

GMD3 Change Review

Is a waiver needed: Move is less than half mile. Minimum spacing to neighboring wells appears to be met. Analysis shows that there could be possible critical wells if pumped at full authority.

Recommendation: After review of all available information, it appears current area rules are met. There is possible critical wells in area if the proposed well is pumped at full authority. No response from neighboring well owners. We would recommend approval of the application if no concerns are found.



Water Rights and Points of Diversion Within 1 mile of point defined as:

2194 Feet N and 218 Feet W of the Southeast Corner of Section 26 Twp 33S Rng 37W
 Located at: 101.303339 West Longitude and 37.146920 North Latitude
 Both SURFACE WATER and GROUNDWATER

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan		
A__ AF	11970	00	IRR	NK	G	4086	--	NE	SW	NW	3432	4115	26	33	37W	5	11.0'	288.00	288.00
A__ AF	12514	00	IRR	NK	G	1880	--	SW	SE	NW	3016	3788	25	33	37W	2		214.00	214.00
Same AF						2048	--	NW	SE	NW	3360	3804	25	33	37W	1		230.00	230.00
A__ AF	14437	00	IRR	NK	G	3141	--	SW	NW	NW	4400	4900	36	33	37W	1	230'	573.00	573.00
A__ AF	15641	00	IRR	NK	G	4885	--	SW	SW	SW	113	4639	26	33	37W	4	14.0'	288.00	288.00
A__ AF	17800	00	IRR	NK	G*	561	--	SE	SE	NE	2750	150	26	33	37W	3		352.00	352.00
A__ AF	42075	00	IRR	NK	G	4086	--	NE	SW	NW	3432	4115	26	33	37W	5		175.00	.00
A__ AF	42076	00	IRR	NK	G	4885	--	SW	SW	SW	113	4639	26	33	37W	4		88.00	.00
A__ AF	42081	00	IRR	NK	G	4982	--	SE	SW	NE	2650	1395	35	33	37W	3	14.0'	320.00	320.00
A__ AF	42145	00	IRR	NK	G	561	--	SE	SE	NE	2750	150	26	33	37W	3		88.00	.00
A__ AF	42626	00	IRR	NK	G	4982	--	SE	SW	NE	2650	1395	35	33	37W	3		11.00	.00

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) =	2265.00	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	2265.00	.00

*Minimum Spacing
Appears met.*

An * after the source of supply indicates a pending application for change under the file number.
 An * after the ID indicates a 15 AF exemption was granted under the file number.
 A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the battery.
 The number in the Batt column is the number of wells in the battery.

Water Rights and Points of Diversion Within 1 mile of point defined as:

2194 Feet North and 218 Feet West of the Southeast Corner of Section 26 Twp 33S Rng 37W
 Located at: 101.303339 West Longitude and 37.146920 North Latitude
 Both SURFACE WATER and GROUNDWATER
 WATER USE CORRESPONDENTS:

- File Number Use ST SR
- > ANTHONY J STEGMAN
- >
- > 815 S VAN BUREN ST
- > HUGOTON KS 67951
- >
- > DONALD DEE KNIER SR LIVING TRUST
- > DONNIE & NAOMI KNIER TTEE
- > 449 ROAD 14
- > HUGOTON KS 67951
- >
- > ATS ENTERPRISES LLC

11970

12514

14437

>
> 815 S VAN BUREN ST
> HUGOTON KS 67951

>-----
> ANTHONY J STEGMAN

>
> 815 S VAN BUREN ST
> HUGOTON KS 67951

15641

>-----
> ANTHONY J STEGMAN

>
> 815 S VAN BUREN ST
> HUGOTON KS 67951

17800 Application

>-----
> ANTHONY J STEGMAN

>
> 815 S VAN BUREN ST
> HUGOTON KS 67951

Same Operator

>-----
> ANTHONY J STEGMAN

>
> 815 S VAN BUREN ST
> HUGOTON KS 67951

>-----
> ATS ENTERPRISES LLC

>
> 815 S VAN BUREN ST
> HUGOTON KS 67951

>-----
> ANTHONY J STEGMAN

>
> 815 S VAN BUREN ST
> HUGOTON KS 67951

42145 Application ?

>-----
> ATS ENTERPRISES LLC

>
> 815 S VAN BUREN ST
> HUGOTON KS 67951

42626

>-----
=====

12514 ID1: Drawdown from current location = 0.83 ft
Drawdown from proposed location = 7.08 ft
Net drawdown = **6.2 ft**

12514 ID2: Drawdown from current location = 0.87 ft
Drawdown from proposed location = 7.49 ft
Net drawdown = **6.6 ft**

42081 & 42626: Drawdown from current location = 0.38 ft
Drawdown from proposed location = 4.13 ft
Net drawdown = **3.7 ft**

14437: Drawdown from current location = 0.49 ft
Drawdown from proposed location = 5.44 ft
Net drawdown = **4.9 ft**

Net drawdown exceeds the drawdown allowance of 4.0 ft for the wells authorized under water right nos. 11970 & 42075, 12514 ID1, 12514 ID2, and 14437. Critical well analysis was conducted for those wells.

Critical Well Evaluation:

11970 & 42075:

Water Column = 343 ft

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

DE = 26.6 ft (Water level decline from 2023 through 2048 based upon GMD3 model)

DD = 42.4 ft ($S = 0.124$, $T = 3116 \text{ ft}^2/\text{day}$, $Q = 389 \text{ gpm}$, $tp = 97 \text{ days}$, efficiency = 70%)

DT = 73.2 ft

Economic Drawdown Constraint (EDC) = $0.4 * 343 \text{ ft} = 137.2 \text{ ft}$

Physical Drawdown Constraint (PDC) = $343 \text{ ft} - 60 \text{ ft} = 283.0 \text{ ft}$

Total drawdown of 73.2 is less than the EDC and PDC, so this well is **not critical**.

12514 ID1:

Water Column = 339 ft

DP = 6.2 ft (Net drawdown from the proposal indicated above)

DE = 22.9 ft (Water level decline from 2023 through 2048 based upon GMD3 model)

DD = 151.0 ft ($S = 0.1758$, $T = 394.7 \text{ ft}^2/\text{day}$, $Q = 199 \text{ gpm}$, $tp = 174 \text{ days}$, efficiency = 70%)

DT = 180.1 ft

Economic Drawdown Constraint (EDC) = $0.4 * 339 \text{ ft} = 135.6 \text{ ft}$

Physical Drawdown Constraint (PDC) = $339 \text{ ft} - 60 \text{ ft} = 279.0 \text{ ft}$

Total drawdown of 180.1 ft is greater than the EDC, so this well is **critical**.

12514 ID2:

Water Column = 339 ft

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

DE = 22.9 ft (Water level decline from 2023 through 2048 based upon GMD3 model)

DD = 145.3 ft ($S = 0.1758$, $T = 394.7 \text{ ft}^2/\text{day}$, $Q = 199 \text{ gpm}$, $tp = 105 \text{ days}$, efficiency = 70%)

DT = 174.8 ft

Economic Drawdown Constraint (EDC) = $0.4 * 339 \text{ ft} = 135.6 \text{ ft}$

Physical Drawdown Constraint (PDC) = $339 \text{ ft} - 60 \text{ ft} = 279.0 \text{ ft}$

Total drawdown of 174.8 ft is greater than the EDC, so this well is **critical**.

14437:

Water Column = 330 ft

DP = 4.9 ft (Net drawdown from the proposal indicated above)

DE = 40.6 ft (Water level decline from 2022 through 2047 based upon GMD3 model)

DD = 49.6 ft ($S = 0.1391$, $T = 2367 \text{ ft}^2/\text{day}$, $Q = 349 \text{ gpm}$, $tp = 124 \text{ days}$, efficiency = 70%)

DT = 95.1 ft

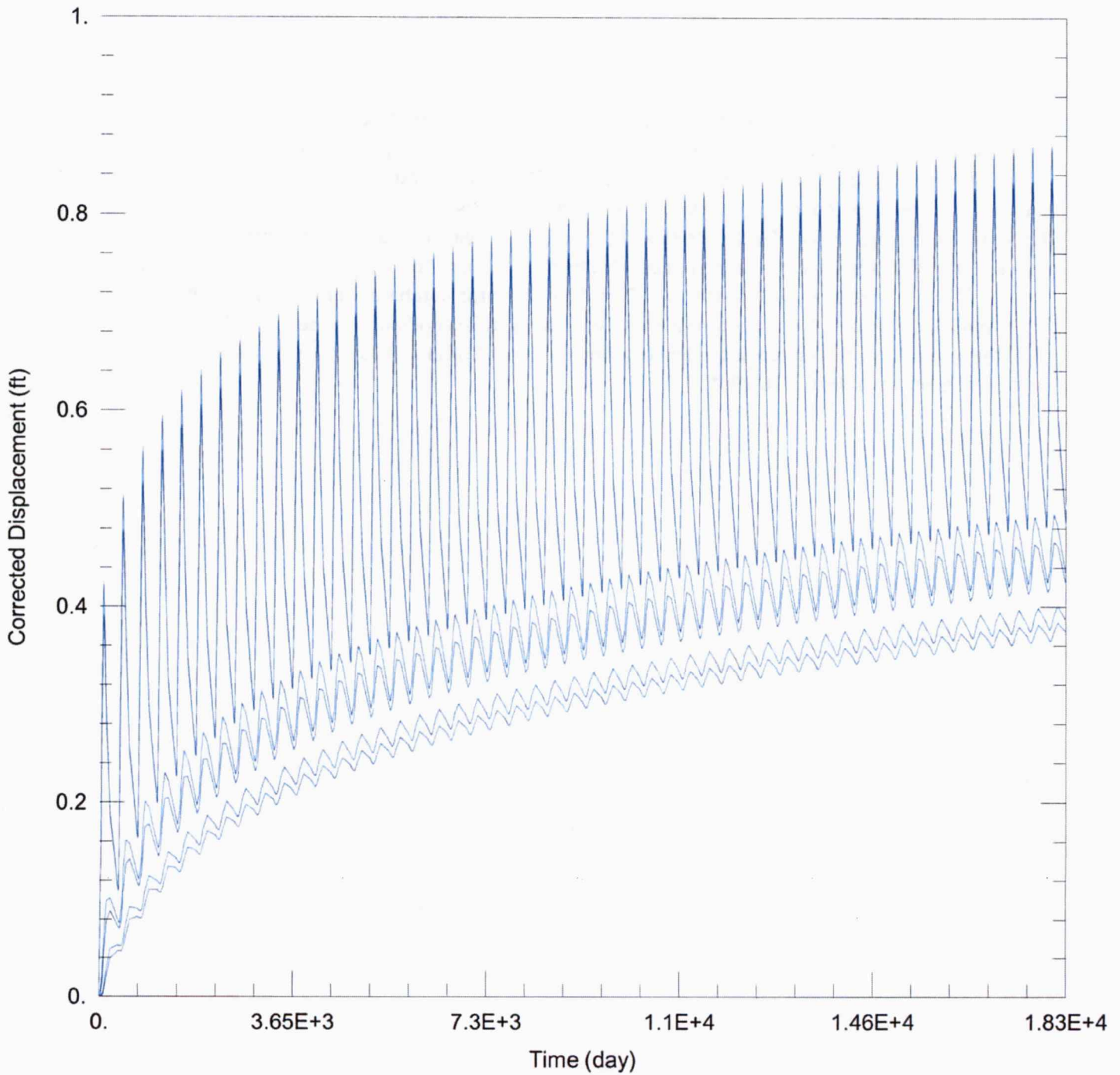
Economic Drawdown Constraint (EDC) = $0.4 * 330 \text{ ft} = 132.0 \text{ ft}$

Physical Drawdown Constraint (PDC) = $330 \text{ ft} - 60 \text{ ft} = 270.0 \text{ ft}$

Total drawdown of 95.1 ft is less than the EDC and PDC, so this well is **not critical**.

Conclusion:

The proposed move is in an area with more than 300 ft saturated thickness, but some neighboring wells are in aquifer with somewhat poor pumping conditions. Modeled aquifer properties require well drawdown of about 150 ft to achieve observed pumping rates and quantities in section 25-33-37, indicating that wells in that section are likely to experience diminished pumping capacity over the near future with the projected aquifer decline rate. If the proposed well is operated at its fully authorized rate and quantity, it is likely to create a noticeable effect on those critical wells. The GMD3 model was created using well logs in the KGS Water Well Completion Records Database, which shows only one well in section 25, drilled only 260 ft deep, so it is plausible that aquifer conditions are better in that section than the model indicates. Concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.



WELL TEST ANALYSIS

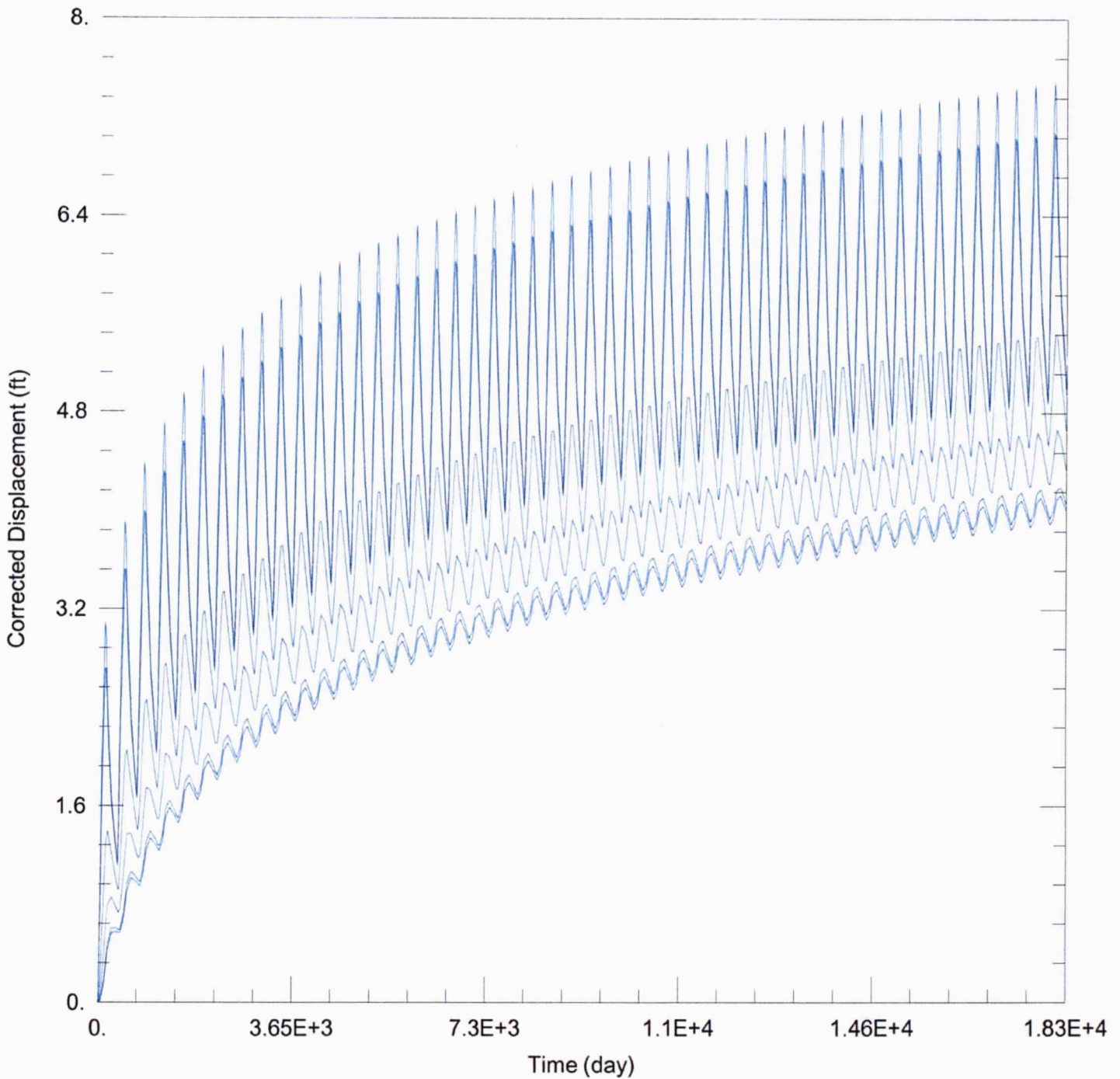
Data Set: C:\Users\trevora\Documents\2023_moves\17800_42145\17800 & 42145 Current.aqt
 Date: 02/17/23 Time: 14:29:49

PROJECT INFORMATION

Company: GMD 3
 Project: 17800 & 42145
 Location: Stevens County

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
17800 & 42145	-146800	99953	□	-146800	99953



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\17800_42145\17800 & 42145 Proposed.aqt
 Date: 02/17/23 Time: 14:29:42

PROJECT INFORMATION

Company: GMD 3
 Project: 17800 & 42145
 Location: Stevens County

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
17800 & 42145	-146872	99396	□	-146872	99396

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

February 15, 2023

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

Re: Request for Recommendation
Water Right, File No. 17800

Dear Mr. Norquest:

This is to advise you that Carpenter Family Trust filed an application 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 application to allow you time to review and provide a recommendation. Please submit a recommendation within 15 days from the date of this letter.

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

Sincerely,

Michael A. Meyer
Water Commissioner

MAM
Enclosures

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

February 15, 2023

DONALD DEE KNIER SR LIVING TRUST
Attn: DONNIE & NAOMI KNIER TTEE
449 ROAD 14
HUGOTON, KS 67951-5126

Re: Water Right, File No. 17,800

Dear Sir:

This is to advise you that Carpenter Family Trust has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, for change in point of diversion under the above referenced application.

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 of 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,

Sincerely,

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

Michael A. Meyer
Water Commissioner

MAM

SCANNED