

**Kansas Department of Agriculture
Division of Water Resources
APPROVAL OF CHANGE APPLICATION WORKSHEET**

1. File No.: 26664	2. Status Change Date:	4. Field Office: 04 - Garden City GMD: 03 - Southwest Structures File No.: Filing/Priority Date: 12/1/2023 Application Complete Date:
3. Package File No(s): 7446-D2		
5a. <input checked="" type="checkbox"/> Applicant <input checked="" type="checkbox"/> Owner <input type="checkbox"/> WUC <input type="checkbox"/> Address Change EASTSIDE DAIRY II LLC ATTN: DAN SENESTRARO 9620 E RD 8 JOHNSON, KS 67855	Person ID 57329 Add Seq#	5b. <input type="checkbox"/> Owner <input type="checkbox"/> WUC <input type="checkbox"/> Address Change Person ID Add Seq#
5c. <input type="checkbox"/> Owner <input type="checkbox"/> WUC <input type="checkbox"/> Address Change	Person ID Add Seq#	5d. <input type="checkbox"/> Owner <input checked="" type="checkbox"/> WUC <input type="checkbox"/> Address Change DAN SENESTRARO 9620 E ROAD 8 JOHNSON, KS 67855-8922
6. Change No.: C2 <input checked="" type="checkbox"/> PD <input type="checkbox"/> PU <input type="checkbox"/> UMW Base Acres: Year: Min Reasonable Q: Previous UMW: MDS Gauge: Active Admin? <input type="checkbox"/> Completion/Start Date: 3/1/2025 Perfection/Expiration Date:		7. Use of Water <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water UMW: STK-Stockwatering UMW: UMW:
8. Action Trail		
9. Additional Conditions REMOVE RATE LIMITATION		
10. 5YR Allocation Type: Start Year: 5YR Quantity: Base Acres: Comment:		
11. Sand & Gravel Proj ID: <input type="checkbox"/> Active <input type="checkbox"/> Dredge <input type="checkbox"/> IND Evap <input type="checkbox"/> Jr Evap <input type="checkbox"/> Other Diversion <input type="checkbox"/> Rpt on Sr		
12. Waiver Rule ID: <input type="checkbox"/> New Date Requested: Applies: Rule No.: Justification: Rule Type: Rule SubType:		
Comments REMOVING OVERLAP IN PD WTH WR 7446-D2 WR 26664 MOVING TO NEW WELL REDUCING AUTHORIZED RATE TO REMOVE RATE LIMITATION - QUANTITY LIMITATION REMAINS		Processed 3/15/2024 AM Reviewed
		Entered

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 15, 2024

EASTSIDE DAIRY II LLC
Attn: DAN SENESTRARO
9620 E RD 8
JOHNSON, KS 67855

RE: Filed Office Application for Change
Water Right, File Nos. 7446-D2 & 26664

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 return the required notification of completion of the diversion works and installation of the required meter as soon as these actions are completed.

NOTE: These orders effectively reduce the authorized rate of both files, removing the rate limitation condition. The quantity limitation condition remains as stated in the May 18, 2023 approval Order.

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 handwritten signature in blue ink that reads "Austin J. McColloch".

Austin J. McColloch
Assistant Water Commissioner

AM:
enclosures

pc: Groundwater Management District No. 3

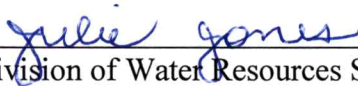
CERTIFICATE OF SERVICE

On this 15th day of March, 2024, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File Nos. 7,446-D2 and 26,664 dated 15th day of March, 2024 was mailed postage prepaid, first class, US mail to the following:

EASTSIDE DAIRY II LLC
Attn: DAN SENESTRARO
9620 E RD 8
JOHNSON, KS 67855

Pc:

GMD 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.

RECEIVED
 1:00 pm
 DEC 01 2023

File No. 26664

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: Eastside Dairy II LLC

9620 E Road 8, Johnson, KS 67855

Phone Number: (620) 495-2400

Email address: eastside-dairy@hotmail.com

Name and address of Water Use Correspondent: same as above

Phone Number: ()

Email address:

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 12-1-23 Check # 17626

5. **Presently authorized point of diversion:**
 One in the SW Quarter of the SW Quarter of the SW Quarter of Section 4, Township 28 South, Range 39 (W), in STANTON County, Kansas, 55 feet North 5125 feet West of Southeast corner of section. Authorized Rate 770 GPM Authorized Quantity 127.55 MGY Depth of well _____ (feet)
(DWR use only: Computer ID No. 02 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 SE Quarter of the SW Quarter of Section 4, Township 28 South, Range 39 (W), in STANTON County, Kansas, 174 feet North 3234 feet West of Southeast corner of section. Proposed Rate 385 GPM Proposed Quantity 127.55 MGY Proposed well depth (feet) 682'
 This point is: Additional Well Geo Center List other water rights that will use this point NONE

6. **Presently authorized point of diversion: TO BE REMOVED FROM WATER RIGHT**
 One in the SW Quarter of the SW Quarter of the SW Quarter of Section 4, Township 28 South, Range 39 (W), in STANTON County, Kansas, 3 feet North 5261 feet West of Southeast corner of section. Authorized Rate 770 GPM Authorized Quantity 127.55 MGY Depth of well _____ (feet)
(DWR use only: Computer ID No. 01 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?

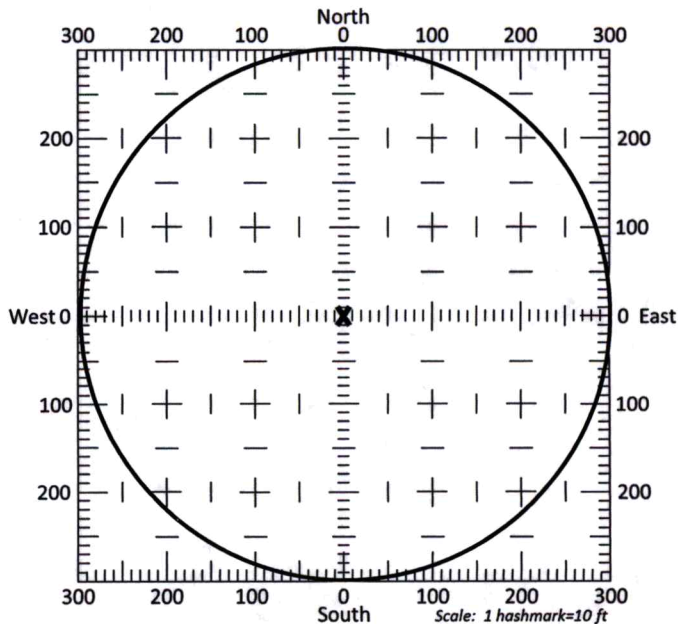
10. If the point of diversion is a well:
 (a) What are you going to do with the old well?

 (b) When will this be done? _____

11. Groundwater Management District recommendation attached?
 Yes No

12. Assisted by AM / 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 Johnson, Kansas, this 17th day of November, 2023.

[Signature]

 (Owner)

 (Spouse)

Daniel E Senestraro

 (Please Print)

 (Please Print)

[Signature]

 (Owner)

[Signature]

 (Spouse)

Clayton Winger

 (Please Print)

Alma Winger

 (Please Print)

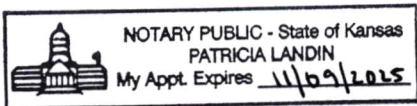
 (Owner)

 (Spouse)

 (Please Print)

 (Please Print)

State of Kansas }
 County of Stanton } SS



I hereby certify that the foregoing application was signed in my presence and sworn to before me this 17th day of November, 2023.

[Signature]

 Notary Public

My Commission Expires 11/09/2025.

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. 26664.

1. A change application was received on December 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 2640 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, 2024**, 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, 2024**, or within any authorized extension of time. By March 1, 2025 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: Austin McColloch
Duly Authorized Designee of the Chief Engineer

(Print Name): Austin McColloch
Division of Water Resources - Kansas Department of Agriculture

Date of Issuance: March 15, 2024

State of Kansas)

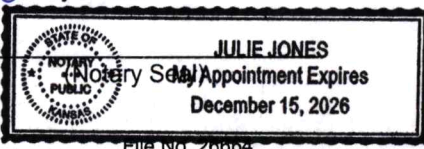
County of Stinson) SS

Acknowledged before me on March 15, 2024

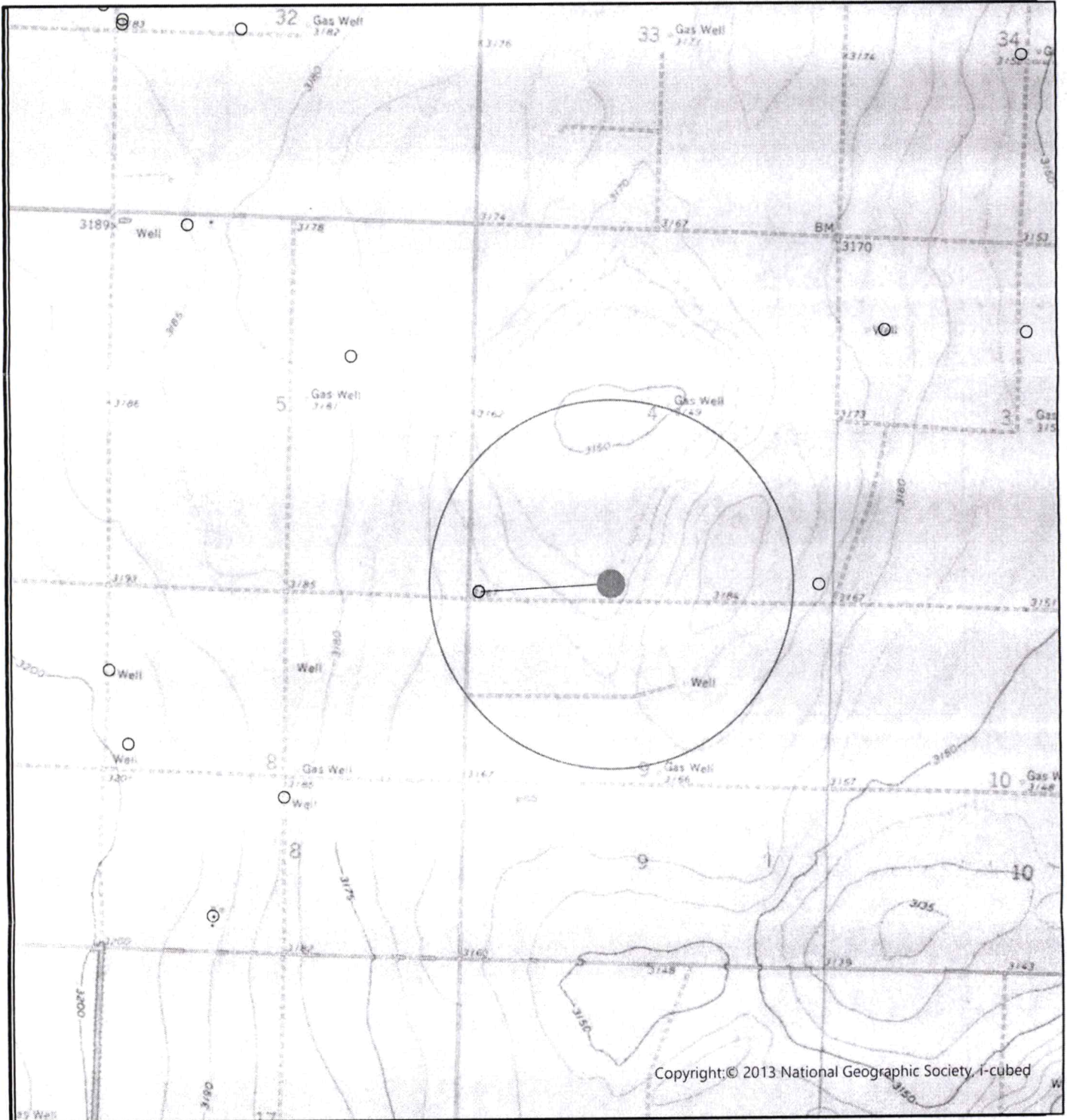
by Austin McColloch

Signature: Julie Jones
Notary Public

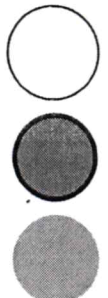
My commission expires: _____



WR 7446-D2, 26664
 Change in Point of Diversion

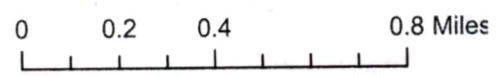


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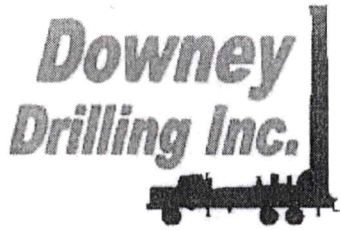


○ 1/2 Mile from Proposed Well
 ● Existing Well
 ● Proposed Well

All wells within 1/2 mile are shown.
 X _____



Created By: CI/GCFO



CUSTOMER NAME: EASTSIDE DAIRY

TH#3

LEGAL: SW 4-285-34W

COUNTY: STANTON CO. KS

GPS: 37.63549

101.59206

DRILLER: ROCKY

WO: 23-734

V	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL	SOFT	BROWN	FAST		SMOOTH
	2	8	BROWN SILTY CLAY	SOFT	BROWN	FAST		SMOOTH
	8	20	CALICHE	STIFF	BROWN, WHITE	FAST		SMOOTH
	20	31	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	31	38	FINE SAND	FIRM		FAST		VIBRATION
	38	50	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	50	71	FINE-MED SAND	FIRM		FAST		VIBRATION
	71	84	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	84	92	FINE-MED-COARSE SAND	FIRM		FAST		FAST CHATTER
	92	174	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	174	187	FINE-MED-COARSE SAND	FIRM		FAST		FAST CHATTER
	187	195	SANDY CLAY W/ CEMENTED SAND LEDGES	SOFT/STIFF	BROWN	FAST		CHOPPY & CHATTER
	195	217	BROWN CLAY	STICKY	BROWN	FAST		SMOOTH
	217	233	SANDY CLAY W/ FINE SAND	STIFF	BROWN	FAST		CHOPPY
	233	244	SANDY CLAY W/ CALICHE	SOFT/STIFF	TAN	FAST		CHOPPY & CHATTER
	244	249	FINE-MED SAND	FIRM		FAST		FAST CHATTER
	249	260	SANDY CLAY W/ FINE SAND	SOFT	BROWN	FAST		SMOOTH
	260	264	FINE SAND	FIRM		FAST		VIBRATION
	264	282	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	282	291	FINE SAND	FIRM		FAST		VIBRATION
	291	297	SANDY CLAY W/ FINE SAND	SOFT	BROWN	FAST		SMOOTH
	297	305	FINE-MED-COARSE SAND W/ LIME ROCK TRACE	FIRM	WHITE	FAST		CHOPPY
	305	314	LIME ROCK W/ CEMENTED SAND W/ SANDY CLAY	STIFF	BROWN, WHITE	FAST		FAST CHATTER
	314	343	WEATHERED CLAY W/ BROWN ROCK TRACE	SOFT	BROWN, GREY, BROWN	FAST		CHOPPY
	343	357	BROWN ROCK W/ SANDSTONE TRACE	FIRM	BROWN, GREY	FAST		FAST CHATTER
	357	390	SOAPSTONE W/ SANDSTONE	STIFF	BLUE, GREY	FAST		CHOPPY
	390	457	SHALE W/ SANDSTONE TRACE	STIFF	BLUE	FAST		SMOOTH & CHATTER
	457	465	SOAPSTONE W/ SANDSTONE TRACE	SOFT	BLUE	FAST		SMOOTH
	465	476	SHALE	SOFT	BLUE	FAST		SMOOTH
	476	484	SOAPSTONE W/ SANDSTONE TRACE	STIFF	BLUE, GREY	FAST		CHOPPY
	484	496	SHALE	SOFT	BLUE	FAST		SMOOTH
	496	517	SOAPSTONE W/ SANDSTONE TRACE	STIFF	BLUE, GREY	FAST		CHOPPY & CHATTER
	517	580	SANDSTONE W/ FINE SAND	FIRM	GREY	FAST		FAST CHATTER
	580	592	WHITE SANDSTONE	FIRM	WHITE	FAST		FAST CHATTER
	592	605	GREEN CLAY	FIRM	GREEN	FAST		CHOPPY

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

M E M O R A N D U M

TO: Files

DATE: March 15, 2024

FROM: Austin McColloch

RE: Application for Change in Point of Diversion,
Water Right, File Nos. 7446-D2 & 26664

Eastside Dairy II LLC has filed the above referenced change applications for approval to change the authorized points of diversion under the referenced files, submitted on December 1, 2023 and January 11, 2024.

Water Right, File No. 7446-D2 is currently authorized and overlapped with the West well of File No. 26664, and is proposed to be moved to the East well authorized currently under File No. 26664. Along with the move, the rate has been requested to be reduced down to 385 gpm.

Water Right, File No. 26664 is currently authorized under two wells, one of which is overlapped with File No. 7446-D2 (West well), and is proposed to be moved approximately 1926 feet East to a new well location. Along with the move, the rate has been requested to be reduced down to 385 gpm. This effectively removes the point of diversion overlap with File No. 7446-D2 as well as removed the current rate limitation imposed on File No. 7446-D2 (770 gpm when combined).

The quantity limitation imposed on File No. 26664 will remain as stated in the May 18, 2023 approval order.



Austin McColloch
Assistant Water Commissioner
Garden City Field Office

S. Thurlow
3/14/2024

This evaluation of proposed change in point of diversion, File No. 26664 & 7446-D2

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 one well authorized by File No. 26664. The change for File No. 26664 proposes reallocating the North well approximately 1,891 feet East and 119 feet North of the currently authorized location, and reducing off the South well to no longer be used. The authorized quantity for File No. 7446-D2 will be reallocated 136 ft East and 52 ft North of the currently authorized location to the well vacated by the change of File No. 26664, and since this change in point of diversion is less than 300 ft, no Theis analysis is required for the change in point of diversion for File No. 7446-D2 (Figure 1).

The GMD No. 3 groundwater model was used with an adjustment factor for a projected future (2068) saturated thickness (75.4 ft) and a resulting water level elevation (2899.1 ft). The average of model cells located within Township 27 South, Range 39 West, Sections 32-34, and Township 28 South, Range 39 West, Sections 3-10, and 15-17 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 2.25 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. The lithological log supplied with the change application was also considered. Hydraulic conductivity assumptions were based on the calibrated values used for the GMD No. 3 groundwater model (Figures 2 and 3). In all, eight lithological logs were evaluated (Figure 4-6, Tables 1-8), with an average transmissivity of 1,327 square feet per day. An assumed specific storage (1×10^{-5} for the Ogallala Aquifer and 1×10^{-6} for the Dakota Aquifer) and the projected saturated thickness was used to determine the assumed storativity of 0.00082. The average Practical saturated thickness (138.6 ft) was used when calculating the net drawdown as a percentage of saturated thickness (Table 9).

Drawdown was evaluated at eight nearby existing wells authorized by File Nos. 23070, 4050, 7446-D3, 7446-D1, 18023, ST8, 917, and 4032 (Table 9). A quantity of 391.44 acre-feet (AF) at a rate of 385 gallons per minute (gpm) was compared to a no-pumping scenario since the authorized point of diversion has no recorded use. The maximum net drawdown occurred at the point of diversion authorized by File No. 23070. The net drawdown at that distance was 27.0 feet, or 19.5% of the projected future Practical Saturated Thickness (Table 13).

RECEIVED

MAR 14 2024

**Garden City Field Office
Division of Water Resources**

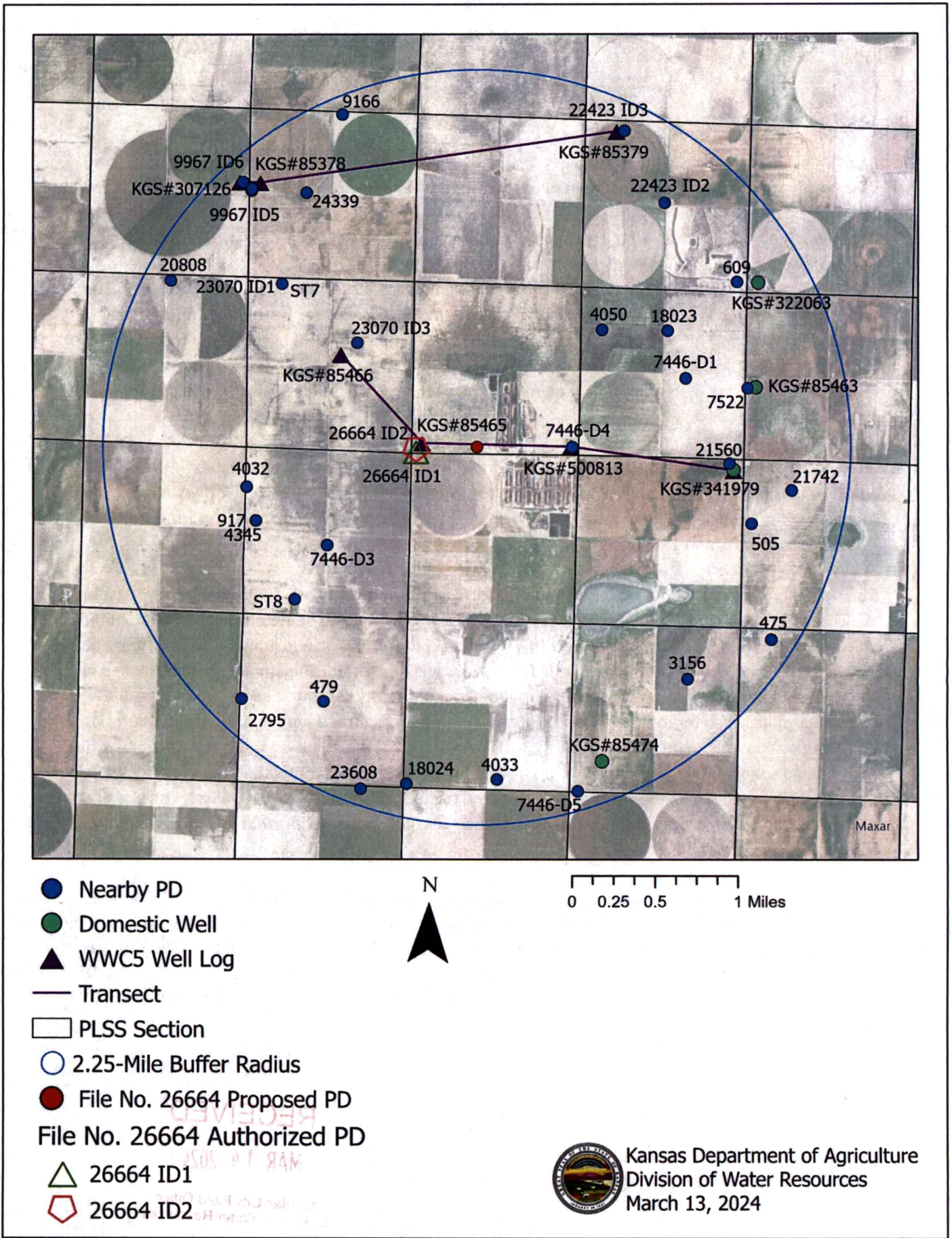


Figure 1: Location of current and proposed point of diversion for File No. 26664, surrounding points of diversion, and WWC5 records



Kansas Department of Agriculture
 Division of Water Resources
 March 13, 2024

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	fcrossnd	Fine to Coarse Sand
r	Rock	mds	Medium Sandy Silt	msnd	Medium Sand
sst	Siltstone	gc	Gravelly Clay	mcrsds	Medium to Coarse Sand
ca	Limestone/caliche	mcrsds	Medium to Coarse Sandy Silt	cg	Clayey Gravel
o	Overburden	crsds	Coarse Sandy Silt	crsds	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	fcross	Fine to Coarse Silty Sand	fcrossdg	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
fcrossc	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
				fcrossg	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	fcrossnd	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	mcrsds	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	crsds	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	fcross	14.5	0.16	fcrossdg	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
fcrossc	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
						fcrossg	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

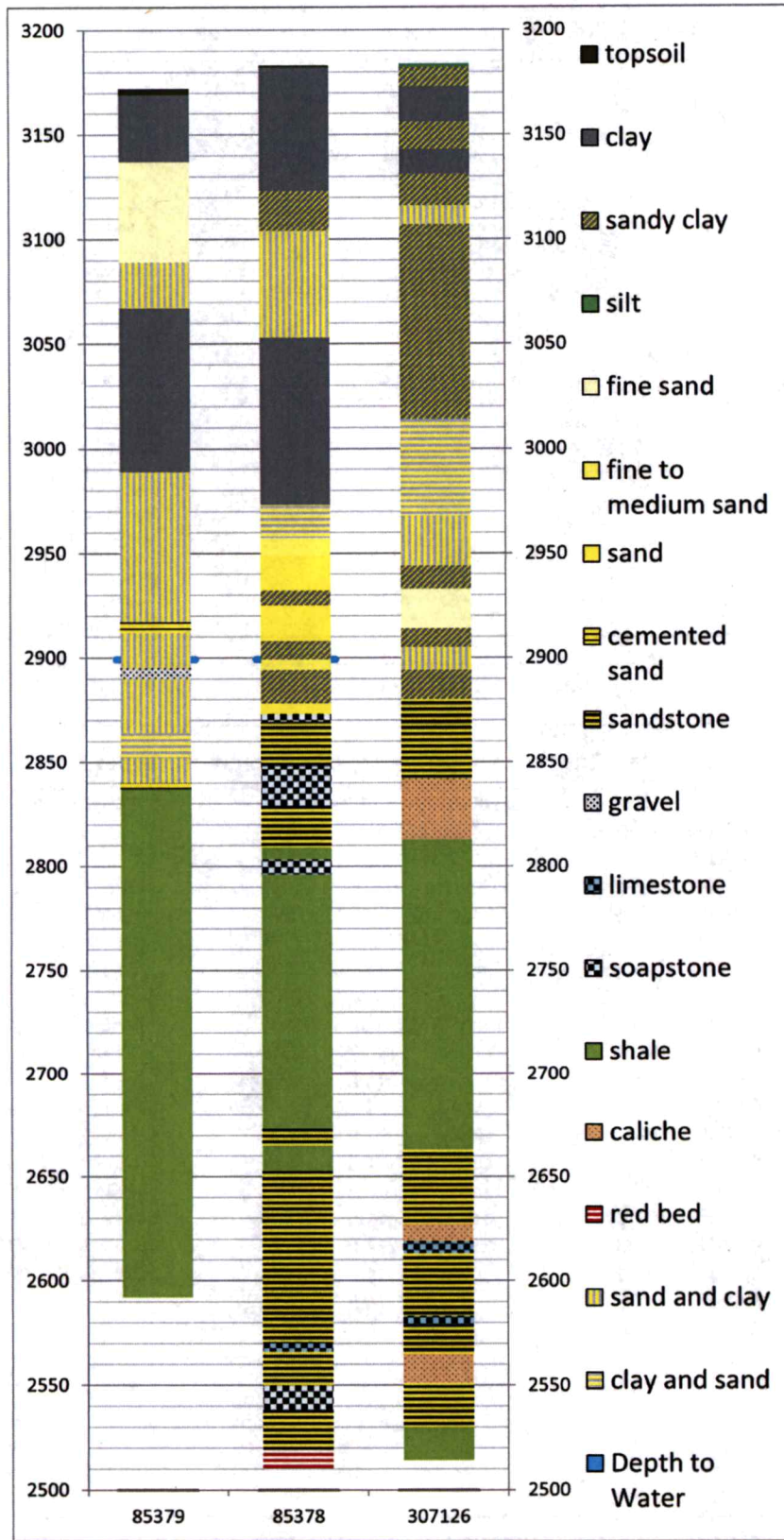


Figure 4: lithology log of KGS Wells on North transect

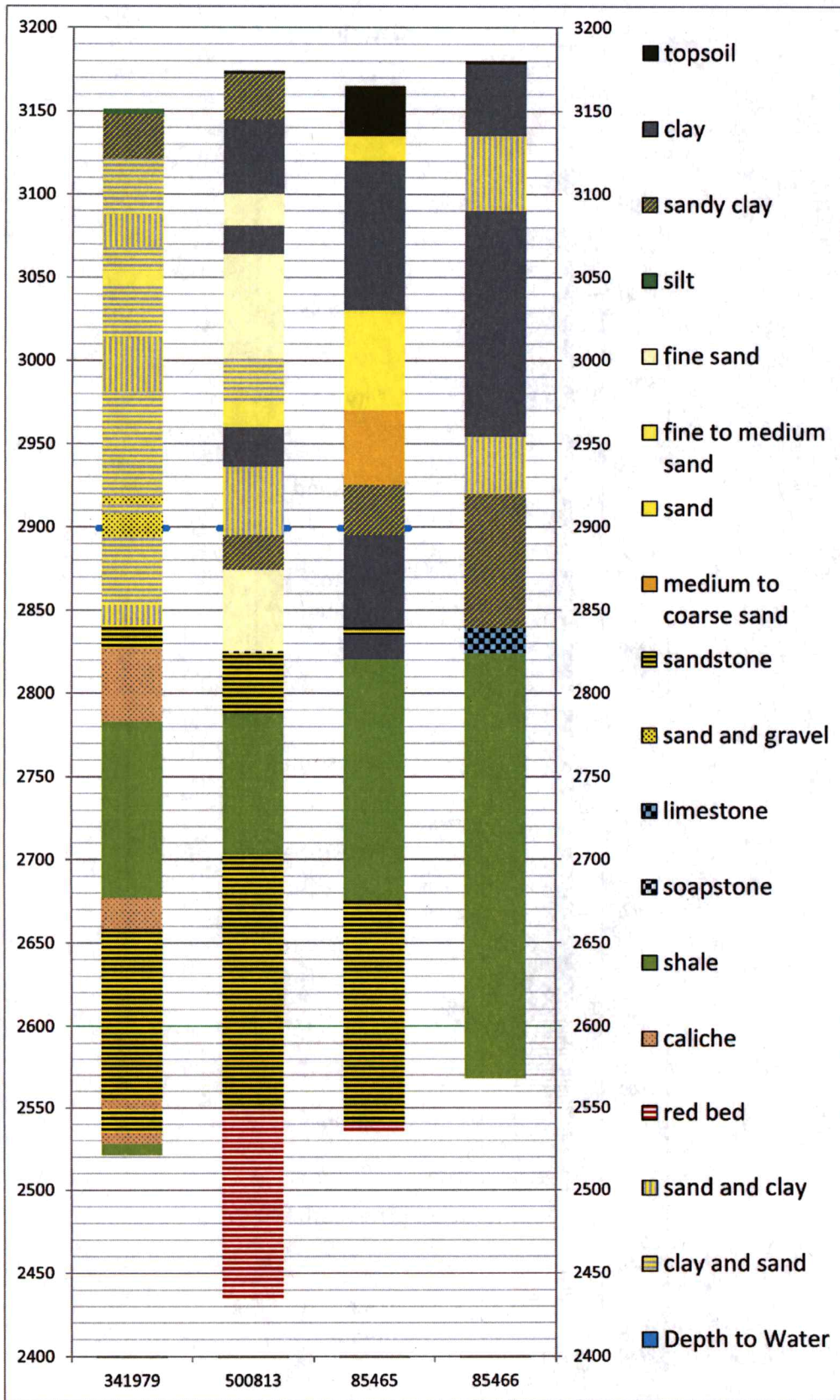


Figure 5: lithology log of KGS Wells on the South transect

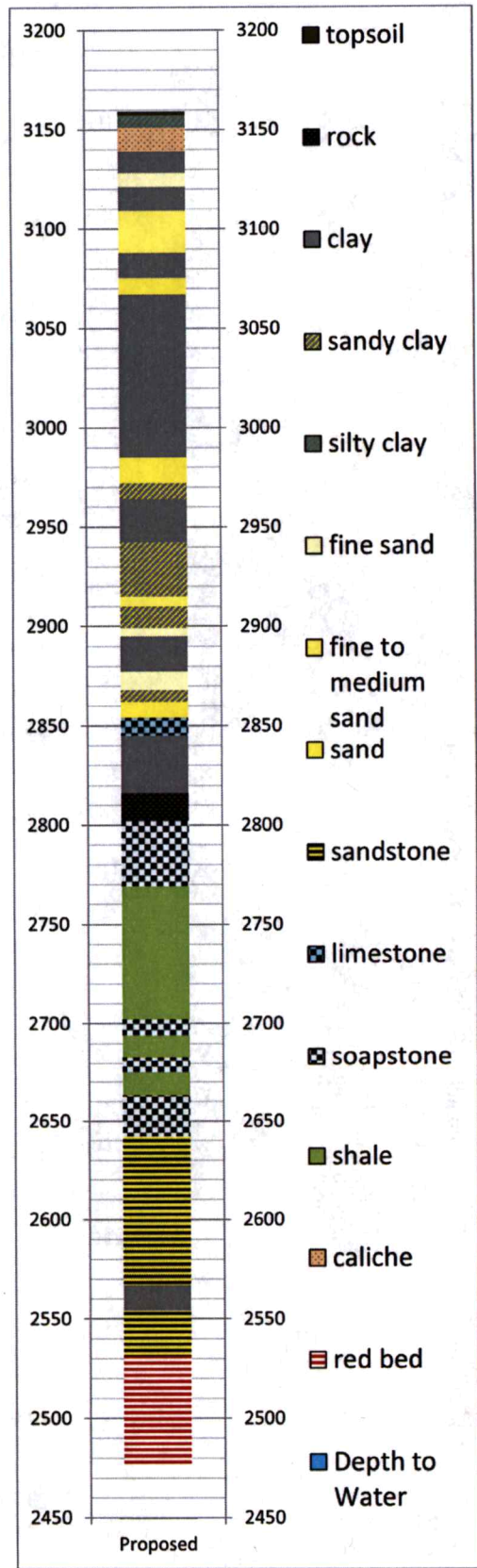


Figure 6: lithology log of the proposed location

Table 1: Lithology of the Proposed Well location

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil				
Brown silty clay				
caliche				
brown clay				
fine sand				
Brown clay				
Fine-med sand				
Brown clay				
Fine-med-coarse sand				
Brown clay				
Fine-med-coarse sand				
Sandy clay w/ cemented sand ledges				
Brown clay				
Sandy clay w/ fine sand				
Sandy clay w/ caliche				
Fine-med sand				
Sandy clay w/ fine sand				
Fine sand	Fsnd	100	4	60.0
Brown clay	C	100	18	0.0
Fine sand	Fsnd	100	9	135.0
Sandy clay w/ fine sand	Sc, fsnd	70, 30	6	45.5
Fine-med-coarse sand w/ lime rock trace	Snd, ca	90, 10	8	453.6
Lime rock w/ cemented sand w/ sandy clay	Ca, cesd-cg, sc	70, 20, 10	9	30.1
Weathered clay w/ brown rock trace	C	100	29	0.0
Brown rock w/ sandstone trace	R, ds	90, 10	14	6.2
Soapstone w/ sandstone	Ca, ds	70, 30	33	43.6
Shale w/ sandstone trace	Sh, ds	90, 10	67	29.5
Soapstone w/ sandstone trace	Ca, ds	90, 10	8	3.5
Shale	Sh	100	11	0.0
Soapstone w/ sandstone trace	Ca, ds	90, 10	8	3.5
Shale	Sh	100	12	0.0
Soapstone w/ sandstone trace	Ca, ds	90, 10	21	9.2
Sandstone w/ fine sand	Ds, fsnd	70, 30	63	477.5
White sandstone	Ds	100	12	52.8
Green clay	C	100	13	0.0
Sandstone	Ds	100	23	101.2
Red bed	rb	100	54	0.0
Total Transmissivity:				1451.2

Table 2: Lithology, KGS Well ID 85378

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
Top soil				
Brown and gray clay sticky				
Brown sandy clay, few fine sand streaks				
Sand, fine and small, few sandy clay and gray clay streaks				
Brown sandy and brown clay, few gray clay streaks				
Brown clay, very few sand streaks				
Blue clay, sticky				
Gray and brown clay, sticky				
Brown clay, few sand streaks				
Fine to medium sand				
Fine to medium coarse sand				
Brown sandy clay				
Fine to medium coarse sand, few sandy clay streaks, few rock ledges				
Brown sandy clay				
Fine to medium sand, lime rock, and sandy clay, firm	Fmsnd, ca, sc	50, 30, 20	5	41.9
Brown sandy clay and sand fine to medium few coarse	Sc, fmsnd, crssnd	50, 40, 10	16	232.0
Sand, fine to medium coarse brown rock and sandy clay streaks	Snd, r, sc	50, 40, 10	5	159.7
Soapstone sandy clay	Ca, sc	60, 40	4	7.0
Brown and orange sandstone	Ds	100	21	92.4
Soapstone, blue and white sandstone ledges, few streaks, sticky	Ca, ds	60, 40	19	33.4
Brown sandstone, uses little water	Ds	100	10	44.0
Yellow sandstone and soapstone	Ds, ca	60, 40	10	26.4
Blue shale	Sh	100	6	0.0
Yellow soapstone and sandstone	Ca, ds	60, 40	7	12.3
Weathered shale, limestone ledges, hard, very hard ledge at 419 feet	Ca	100	37	0.0
Shale, few limestone ledges	Sh, ca	80, 20	51	0.0
Shale, limestone ledges and few Dakota streaks	Sh, ca, ds	50, 40, 10	35	15.4
Dakota sandstone loose uses water	Ds	100	8	35.2
Shale, few sandstone streaks	Sh, ds	80, 20	12	10.6
Dakota sandstone and Cheyenne, loose, very few shale streaks	Ds, sh	90, 10	83	328.7
Greenhorn limestone and shale	Ca, sh	60, 40	4	0.0
Dakota sandstone uses water	Ds	100	16	70.4

Above water surface

Hard brown soapstone, mixed mud	Ca	100	12	00
Dakota sandstone, brown in color, uses water	Ds	100	19	83.6
Red bed hard	rb	100	9	0.0
Total Transmissivity:				1193.1

Table 3: Lithology, KGS Well ID 85466

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
Surface	Above water surface			
Clay				
Fine sand with clay breakers				
Gray clay				
Brown clay				
Blue clay				
Fine to medium sand small clay breakers				
Sandy clay	Sc	100	29	127.6
Sandy clay, lime, small sand strips	Sc, ca, snd	50, 30, 10	31	263.5
Yellow chalk and sandrock, fair	Ca, ds	60, 40	15	26.4
Yellow and blue shale with sandstone	Sh, ds	70, 30	34	44.9
Blue shale and sandrock	Sh, ds	60, 40	25	44.0
Blue shale, very small sandstone strips	Sh, ds	80, 20	80	70.4
Blue shale and sandstone	Sh, ds	60, 40	40	70.4
Blue shale and Cheyenne sandstone	Sh, ds	60, 40	15	26.4
Blue and brown shale, small sandstone strips	Sh, ds	80, 20	30	26.4
Shale and sandstone	Sh, ds	60, 40	31	54.6
Shale and rock small sandstone strips	Sh, ds	90, 10	1	0.4
Total Transmissivity:				755.0

Table 4: Lithology, KGS Well ID 85465

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
Surface and brown clay				
Sand				
Brown clay				
Sand and brown sandy clay				
Sand: medium coarse 195				
Brown sandy clay 30%	Sc	100	4	17.6
Brown clay, red clay, gyp and yellow chalk	C, ca	60, 40	55	0.0
Dakota, loose	Ds	100	5	22.0
Brown clay and some sandstone	C, ds	60, 40	15	26.4
Shale	Sh	100	145	0.0
White Dakota	Ds	100	35	154.0
Dakota, blue and brown shale, some Cheyenne	Ds, sh	70, 30	15	46.2
White sandstone (loose)	Ds	100	75	330.0
White sandstone, brown Dakota	Ds	100	10	44.0
Red bed	rb	100	5	0.0
Total Transmissivity:				640.2

Table 5: Lithology, KGS Well ID 500813

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil				
brown sandy clay with some fine sand beds				
brown clay with few sand strips				
fine sand				
brown clay				
fine sand				
brown clay with some sand strips				
Fine and few medium sand with few clay stringers				
brown clay				
Above water surface				
Fine sand with many clay ledges	Fsnd, c	70, 30	4	42.0
Brown sandy clay with few sand strips	Sc, snd	80, 20	21	338.5
Fine sand	Fsnd	100	15	225.0
Fine sand with some lime rock	Fsnd, ca	70, 30	34	357.0
Soapstone	Ca	100	1	0.0
Sandstone with few soapstone stringers	Ds, ca	80, 20	36	126.7
Shale with some sandstone strips	Sh, ds	80, 20	5	4.4
Shale	Sh	100	80	0.0
Sandstone and shale	Ds, sh	60, 40	25	66.0
Sandstone	Ds	100	129	567.6
Red bed	rb	100	115	0.0
Total Transmissivity:				1727.3

Table 6: Lithology, KGS Well ID 341979

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
Silt				
Sandy clay caliche sand				
Clay sand				
Fine sand clay				
Clay				
Fine sand medium sand				
Clay sand				
Fine sand clay				
Clay				
Clay limestone sand				
Sand fine gravel				
Clay				
Above water surface				
Sand gravel	Snd, g	60, 40	5	787
Clay limestone	C, ca	60, 40	27	0.0
Clay sand	C, snd	60, 40	14	352.8
Fine sand clay	Fsnd, c	60, 40	12	108.0
Sandstone caliche	Ds, ca	60, 40	14	37.0
Caliche sandstone limestone	Ca, ds	70, 30	28	37.0
Caliche shale limestone	Ca, sh	70, 30	16	0.0
Shale limestone sandstone	Sh, ca, ds	50, 30, 20	16	14.1
Shale sandstone limestone	Sh, ds, ca	50, 30, 20	33	43.6
Shale caliche limestone	Sh, ca, ds	50, 50	57	0.0
Caliche sandstone	Ca, ds	60, 40	19	33.4
Sandstone caliche	Ds, ca	60, 40	28	73.9
Sandstone	Ds	100	48	211.2
Sandstone	Ds	100	27	118.8
Caliche limestone	Ca	100	6	0.0
Sandstone	Ds	100	14	61.6
Caliche limestone	Ca	100	7	0.0
shale	Sh	100	7	0.0
Total Transmissivity:				1878.3

Table 7: Lithology, KGS Well ID 307126

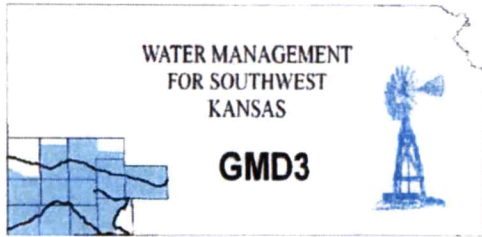
Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
Silt				
Sandy clay caliche				
Clay				
Sandy clay sand				
Sandy clay clay				
Clay				
Clay caliche				
Sandy clay sand				
Fine sand medium sand clay				
Sandy clay sand				
Clay sand				
Fine sand medium sand clay				
Sandy clay sand				
Fine sand				
Sandy clay sand				
Fine sand clay		60, 40	5	45.0
Sandy clay limestone sand		50, 30, 20	14	207.2
Sandstone		100	16	70.4
Sandstone		100	10	44.0
Sandstone caliche		60, 40	12	31.7
Caliche sandstone		60, 40	19	33.4
Caliche sandstone shale		50, 30, 20	10	13.2
Shale limestone		60, 40	76	0.0
Shale limestone sandstone		50, 30, 20	29	25.5
Shale limestone sandstone		50, 30, 20	45	39.6
Sandstone caliche		60, 40	36	95.0
Caliche sandstone		60, 40	8	14.1
Limestone shale		60, 40	6	0.0
Sandstone		100	9	39.6
Sandstone caliche		60, 40	21	55.4
Limestone		100	4	0.0
sandstone caliche		60, 40	14	37.0
Caliche limestones		100	14	0.0
Sandstone caliche		60, 40	12	31.7
Sandstone caliche		60, 40	9	23.8
shale		100	16	0.0
			Total Transmissivity:	806.6

Table 8: Lithology, KGS Well ID 85379

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
Top soil	Above water surface			
Brown clay				
Tan clay				
Fine sand				
Fine sand with clay mixed				
Brown clay				
Blue clay				
Fine sand with clay mixed				
Fine to medium sand with clay mixed				
Cemented sand, use pulldown				
Fine to coarse sand with clay streaks	Snd, c	70, 30	4	176.4
Fine to coarse gravel	G	100	5	1495.0
Fine to medium sand with clay streaks	Fmsnd, c	70, 30	26	273.0
Tan clay with little fine sand (started taking water)	C, fsnd	80, 20	12	36.0
Fine sand with clay streaks	Fsnd, c	80, 20	12	144.0
Cemented sand, use pulldown	Cesd-cg	100	3	43.5
Gray shale	Sh	100	50	0.0
Red gray shale (lost water at 400 feet)	Sh	100	23	0.0
Brown shale	Sh	100	109	0.0
Brown shale, very loose	sh	100	63	0.0
Total Transmissivity:				2167.9

Table 9: Theis Drawdown of Nearby Wells; $T = 1,327 \text{ ft}^2/\text{day}$, $S = 0.00082$

Nearby Well	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Net Drawdown (FT)	Net Drawdown (%ST)
23070	5022.8	385	391.4	27.0	19.5%
4050	5417.2	385	391.4	26.3	19.0%
7446-D3	5666.2	385	391.4	25.9	18.7%
7446-D1	6965.3	385	391.4	24.1	17.4%
18023	7074.5	385	391.4	24.0	17.3%
ST8	7509.4	385	391.4	23.5	16.9%
917	7396.9	385	391.4	23.6	17.0%
4032	7423.2	385	391.4	23.6	17.0%



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

January 29, 2024

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

RECEIVED

JAN 28 2024

**Garden City Field Office
Division of Water Resources**

RE: Application for Change in Point of Diversion
Water Right, File No. 7446 D2 & 26664

Dear Austin:

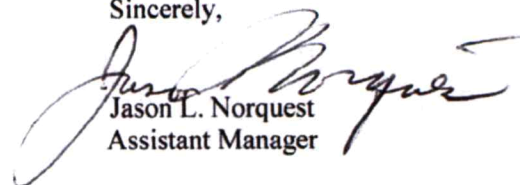
We have completed a review of the applications for the above referenced water rights. The proposed changes in point of diversion is in accordance with current area rules, K.A.R. 5-23-3, as it pertains to minimum spacing to neighboring wells and distance moved.

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 (1.5 ft with saturated thickness is between 50-75ft), 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 further evaluations were needed. Critical wells were determined in the area. This could be due to the low recent historic reported use. The proposed move under 7446 D2 is less than 300', within the rules. We did not receive any comments from neighboring well owners. Therefore, GMD3 sees this move as meeting current area rules and would recommend approval. 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

GMD3 Change Review

File No(s): 26664 & 7446 D2.

DWR office: GC.

App filed to change: PD.

Is Landowner(s) correct in WRIS: Eastside Dairy.

If NO, is documentation included?

Is Water Use Correspondent correct in WRIS? .

If NO, is documentation included?

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

Point of diversion ID No(s) being changed.

	ft. North	ft. West	
Authorized PD	55	5125	Sect 4-28-39
Proposed PD	174	3234	
Difference	-119 n	1891 e	
$a^2 + b^2 = c^2$	14161	3575881	1894.741 foot move NE

GPS for proposed PD: Lat: 37.63549 Long: -101.59206.

Is proposed PD stacking on existing WRs? No.

Is Proposed PU overlapping existing WRs? No Change.

Neighboring certified well(s) notified: .

Name Troy L & Cheryl A Adams (23070).

Address PO Box 628.

Zip Johnson, KS 67855.

Email: cadams@pld.com Phone: .

Domestic well(s) notified: .

Name .

Address .

Zip .

Base Acres: .

Perfected Acres: .

Irr. Return-Flow %

Stanton County

Authorized: 2 PDs, Blanket STK 127.55mgly (391.4AF) @ 770gpm. LIMITED to 180.6mgly @ 770gpm w/7446D2. Changed from IRR to STK in 2023

ID01, 3N 5261W Will be reduced off WR

ID02, 55N 5125W

Proposed depth 682' (Consistent with other wells on section)

At same time, 7446D2 will be moving from the west well currently overlapped with 26664 (that is being reduced off) to the east well vacated in this change app. This move is less than 300'.

GMD3 Change Review

Is a waiver needed: Move less than half mile. Minimum spacing improved to 7446D2, while all other neighboring spacing is met. Analysis showed critical wells in area, mainly can be attributed to lack of recent water use reported for the wel. .

Recommendation: After review of all available information it appears current area rules are met. Analysis does show possible critical wells, probably due mainly to very little recent historic use. Staff would recommend approval if State agrees the effects should be minimal.

A handwritten signature or set of initials, possibly 'J. A.', written in black ink on the right side of the page.

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

174 Feet N and 3234 Feet W of the Southeast Corner of Section 4 Twp 28S Rng 39W
 Located at: 101.592061 West Longitude and 37.635490 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	7446	D2	STK	NK	G*	2034	--	SW	SW	SW	3	5261	4	28	39W	1	7106	459.26	459.26	
A__ AF	7446	D4	STK	NK	G	3024	--	SE	SE	SE	258	211	4	28	39W	3	7306	651.22	651.22	
A__ AF	23070	00	IRR	NK	G	5023	--	NE	SW	NE	3432	1815	5	28	39W	3		287.00	.00	
A__ AF	26664	00	STK	NK	G*	1898	--	SW	SW	SW	55	5125	4	28	39W	2		391.44	95.26	
Same						2034	--	SW	SW	SW	3	5261	4	28	39W	1				<i>Drop</i>

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) =	1205.74	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	1205.74	.00

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

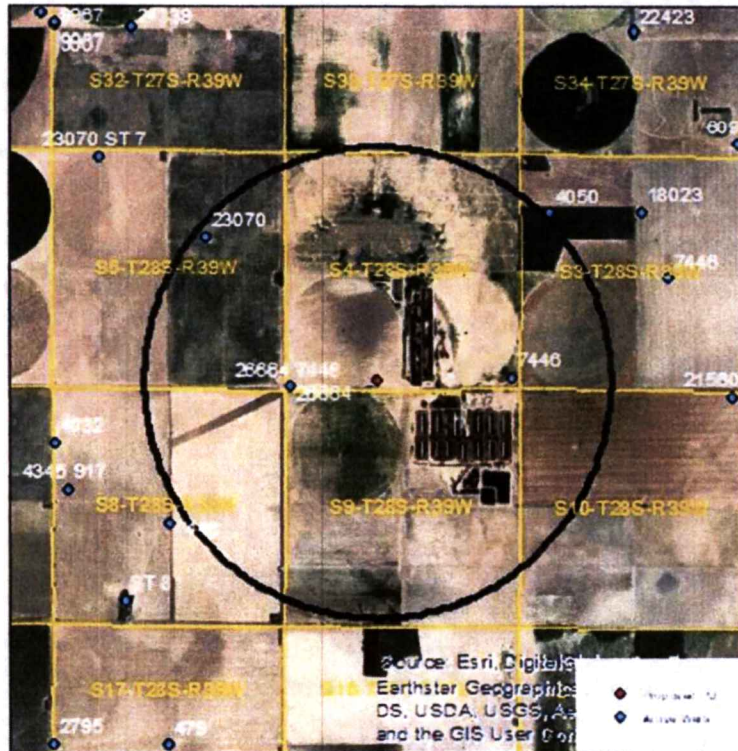
Water Rights and Points of Diversion Within 1 mile of point defined as:

174 Feet North and 3234 Feet West of the Southeast Corner of Section 4 Twp 28S Rng 39W
 Located at: 101.592061 West Longitude and 37.635490 North Latitude
 Both SURFACE WATER and GROUNDWATER
 WATER USE CORRESPONDENTS:

File Number	Use	ST	SR
> DAN SENESTRARO			
> 9620 E ROAD 8			
> JOHNSON KS 67855			
<i>Improving Spacing</i>			
> DAN SENESTRARO			
> 9620 E ROAD 8			
> JOHNSON KS 67855			
> TROY L & CHERYL A ADAMS			
> PO BOX 628			
> JOHNSON KS 67855			
<i>23070</i>			
> DAN SENESTRARO			
> 9620 E ROAD 8			
> JOHNSON KS 67855			

Evaluation of proposed move for Water Right No. 26664

Proposed: Move water right no. 26664 to a new well location, 1,939 ft to the northeast. Water right no. 7446 will be moved to the location currently authorized under 26664, about 150 ft to the east.



Wells within 1 mile: 23070 and 7446.

The saturated thickness at the proposed well location is estimated to be 70 ft, based upon the GMD3 model. For saturated thickness between than 50 ft and 75 ft, the drawdown allowance is 1.5 ft.

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

$S = 0.208$, $T = 1200 \text{ ft}^2/\text{day}$, $t_{\text{proposed}} = 115 \text{ days}$, $Q_{\text{proposed}} = 770 \text{ gpm}$

Theis drawdowns were calculated as follows:

23070: Net drawdown = **7.1 ft**

7446: Net drawdown = **10.3 ft**

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

Critical Well Evaluation:

23070:

Water Column = 85 ft

DP = 7.1 ft (Net drawdown from the proposal indicated above)

DE = 18.0 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DD = 75.4 ft ($S = 0.1594$, $T = 615.3 \text{ ft}^2/\text{day}$, $Q = 153 \text{ gpm}$, $t_p = 120 \text{ days}$, efficiency = 70%)

DT = 100.5 ft

Total drawdown of is greater than the remaining saturated thickness, so this well is **critical**.

7446:

Water Column = 70 ft

DP = 10.3 ft (Net drawdown from the proposal indicated above)

DE = 17.2 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DD = 0 ft (No recent water use history at this well location)

DT = 27.5 ft

Economic Drawdown Constraint (EDC) = $0.4 * 70 \text{ ft} = 28.0 \text{ ft}$

Physical Drawdown Constraint (PDC) = $70 \text{ ft} - 60 \text{ ft} = 10.0 \text{ ft}$

Total drawdown of 27.5 ft exceeds the PDC, so this well is **critical**.

Conclusion:

The proposed move is in a depleted aquifer area with little saturated thickness remaining. The analysis shows that net well-to-well effects are likely to be noticeable, due to the limited amount of remaining aquifer. Concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.

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

January 12, 2024

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

Re: Request for Recommendation,
File No. 7446-D2 & 26664

Dear Sir or Madam:

We are enclosing a copy of the referenced application, which was submitted by Eastside Dairy II LLC 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,

A handwritten signature in blue ink that reads "Austin McColloch".

Austin McColloch
Assistant Water Commissioner

Enclosure
pc: