

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

1. File Number: 20890	2. Status Change Date:	3. Change Num: C5	4. Field Office: 4	5. GMD: 3
6. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return				7. Filing Date of Change: 5/3/2023
8a. Applicant(s) New to system <input type="checkbox"/> SANDYHILL ENTERPRISES LLC Attn: JACOB NEUFELD P O BOX 1005 HOLCOMB, KS 67851		Person ID 64846 Add Seq# _____	8c. Landowner(s) New to system <input type="checkbox"/> NEUFELD AG LLC 2090 MILFORD LANE GARDEN CITY, KS 67846-8341	
8b. Landowner(s) New to system <input type="checkbox"/> 8a		Person ID _____ Add Seq# _____	8d. WUC New to system <input type="checkbox"/> JACOB NEUFELD PO BOX 1005 HOLCOMB, KS 67851-1005	
9. Documents and Enclosure(s): <input checked="" type="checkbox"/> DWR Meter(s) Date to Comply: 12/31/2023 <input checked="" type="checkbox"/> N & P Date to Comply: 3/1/2024				
<input type="checkbox"/> Anti-Reverse Meter <input type="checkbox"/> Meter Seal <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N & P Form <input checked="" type="checkbox"/> Water Tube <input checked="" type="checkbox"/> Driller Copy <input checked="" type="checkbox"/> H & E Letter <input type="checkbox"/> Conservation Plan Date Required: _____ Date Approved: _____ Date to Comply: _____				
10. Use Made of Water From: _____ To: _____				
Date Prepared: 7/6/2023 By: AM Date Entered: _____ By: _____				

File No. **20890** 11. County: **FL** Basin: **ARKANSAS RIVER** Stream: Formation Code: **211** Special Use:

12. Points of Diversion Rate and Quantity
 CHK MOD Authorized Additional
 DEL PDIV Qualifier S T R ID 'N 'W Comment (AKA Line) Rate Quantity Rate Quantity
 ENT gpm af gpm af Overlap PD Files

DEL 64847

ENT SW NW SE 25 26S 34W 1552 2098 945 272 945 272 NONE

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 518; 17483; 24175																				
CHK 24287; 29974; 30456																				
CHK 30897; 33001; 65084																				

Base Acres: Year: Minimum Reasonable Quantity:
 Comments:

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



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

Mike Beam, Secretary

Laura Kelly, Governor

July 6, 2023

JAMES C & MARY K MOYER
2158 E ROAD 5
ULYSSES, KS 67880-8030

RE: Filed Office Application for Change
Water Right, File No. 20890

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.

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,


Austin J. McColloch
Assistant Water Commissioner

AM:
enclosures

pc: Groundwater Management District 3

CERTIFICATE OF SERVICE

On this 6th day of July, 2023, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 20,890 dated 6th day of July, 2023 was mailed postage prepaid, first class, US mail to the following:

SANDYHILL ENTERPRISES LLC
Attn: JACOB NEUFELD
P O BOX 1005
HOLCOMB, KS 67851

Pc:

GMD 3



Division of Water Resources Staff

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

Call for address:

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

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



STATE OF KANSAS

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

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

File No. 20890

RECEIVED
9:20 AM
MAY 03 2023

Garden City Field Office
 Division of Water Resources

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

Place of Use Point of Diversion

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

The source of supply is: Groundwater Surface water

2. Name and address of Applicant: Jacob Neufeld, Sandyhill Enterprises, LLC
PO Box 1005, Holcomb, KS 67851

Phone Number: () _____ Email address: _____

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 5-3-23 Check # 1271

5. **Presently authorized point of diversion:**
 One in the NW Quarter of the SE Quarter of the SE Quarter of Section 25, Township 26 South, Range 34 (W), in Finney County, Kansas, 1280 feet North 1046 feet West of Southeast corner of section. Authorized Rate no change Authorized Quantity no change Depth of well _____ (feet)
(DWR use only: Computer ID No. 5 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 SW Quarter of the NW Quarter of the SE Quarter of Section 25, Township 26 South, Range 34 (W), in Finney County, Kansas, 1552 feet North 2098 feet West of Southeast corner of section. Proposed Rate no change Proposed Quantity no change Proposed well depth (feet) 524.
 This point is: Additional Well Geo Center List other water rights that will use this point N/A

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

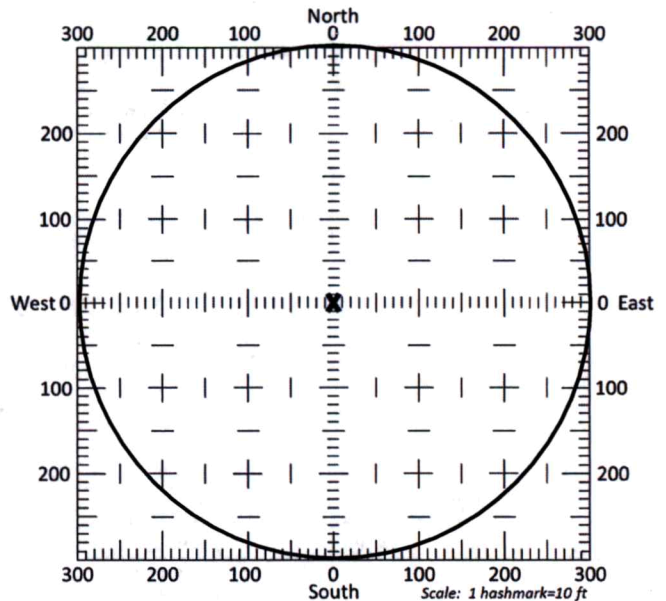
9. The change(s) (was)(will be) completed by?

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

11. Groundwater Management District recommendation attached?
 Yes No

12. Assisted by CI, 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 Garden City, Kansas, this 3rd day of May, 20 23.

(Owner)	<u>Aganetha Newfeld</u> (Spouse)
(Please Print)	<u>Aganetha Newfeld</u> (Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)

State of Kansas }
 County of Finney } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 3rd day of May, 20 23.

My Commission Expires _____



Julie Jones
 Notary Public

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

FEE SCHEDULE

Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: **Kansas Department of Agriculture**

- (1) Application to change a point of diversion 300 feet or less \$100
- (2) Application to change a point of diversion more than 300 feet \$200
- (3) Application to change the place of use \$200

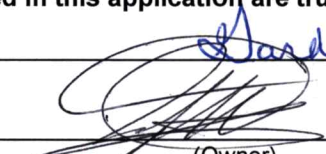
14. If the proposed groundwater point of diversion is 300 or fewer feet from the existing point of diversion, complete the following:

- (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.)

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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 Jarden City, Kansas, this 3rd day of May, 20 23.

 _____ (Owner)	_____ (Spouse)
<u>Jacob Neufeld</u> _____ (Please Print)	_____ (Please Print)
_____ (Owner)	_____ (Spouse)
_____ (Please Print)	_____ (Please Print)
_____ (Owner)	_____ (Spouse)
_____ (Please Print)	_____ (Please Print)

State of Kansas }
County of Finney } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 3rd day of May, 20 23.



Julie Jones
Notary Public

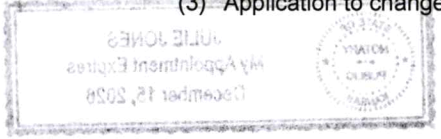
My Commission Expires _____

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(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. 20890.

- A change application was received on Mar 3, 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.
- 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
- 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
- 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
- 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
- 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
- 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
- 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
- The completed well log shall be submitted with the required notice.** Applicable Not Applicable
- 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
- Additional Conditions are attached. Yes No
- 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

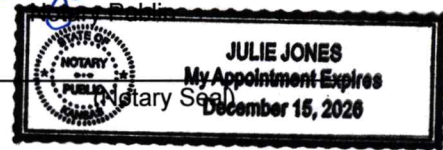
Date of Issuance: July 6, 2023

State of Kansas)
) SS
 County of Stimney)

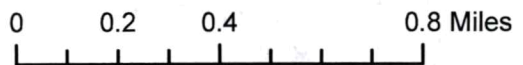
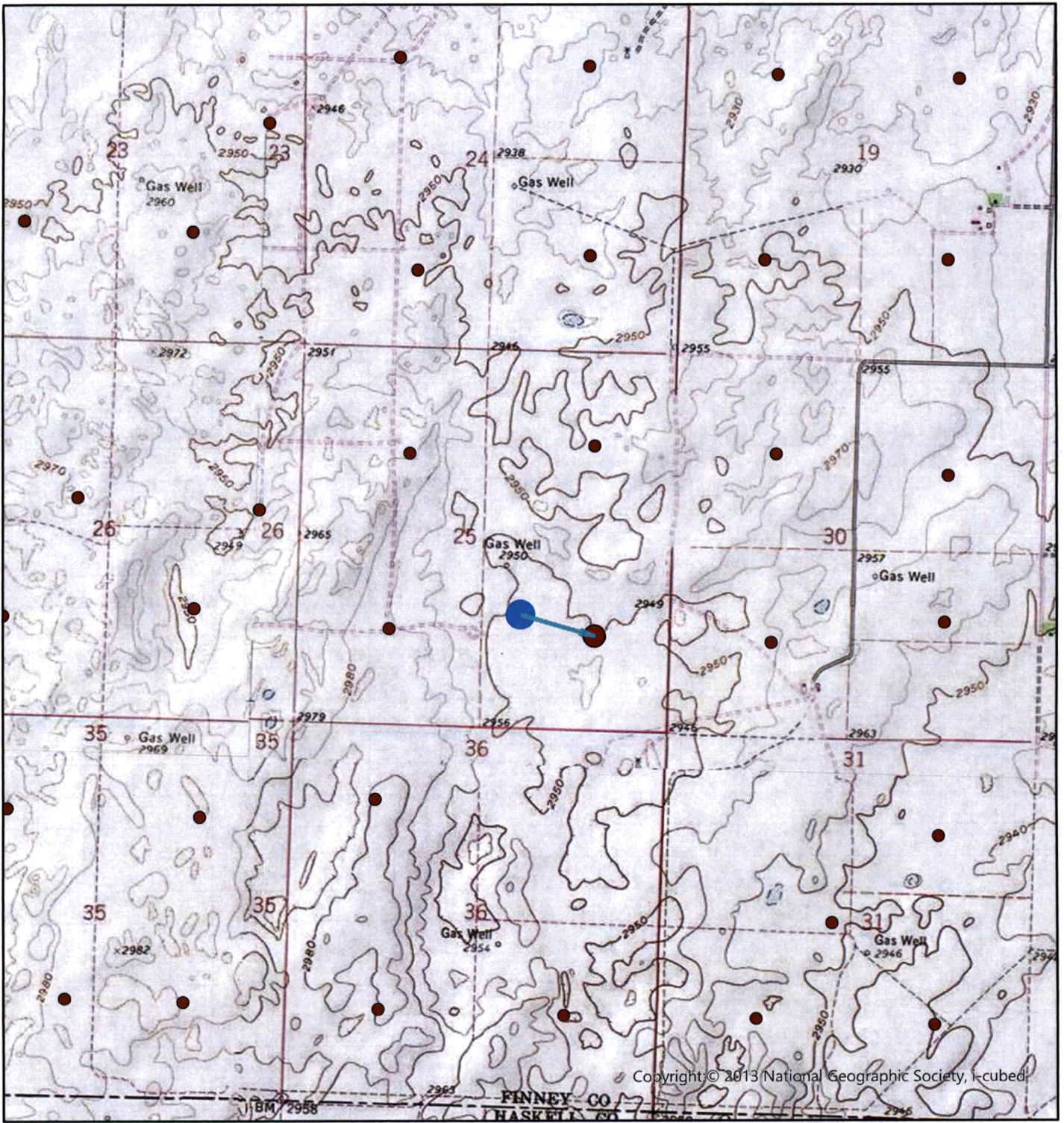
Acknowledged before me on July 6, 2023
 by Austin McColloch

Signature: Julie Jones

My commission expires: _____



WR 20890 Change in Point of Diversion



- Existing Well
- Proposed Well

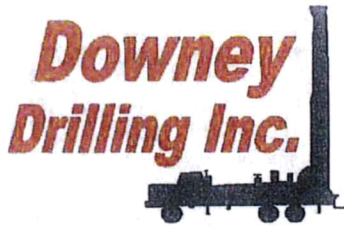
All wells within 1/2 mile are shown.

X _____



WELL LOG

DATE: 3/3/2023



CUSTOMER NAME: SANDY ACRES, LLC E-8

TH #4

LEGAL: SE 25-26S-34W

COUNTY: FINNEY CO, KS

GPS: 37.755869

-100.987426

DRILLER: DIEGO

WO: 22-1686

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION	
	0	4	SURFACE SAND	SOFT	LIGHT BROWN	FAST		SMOOTH	
	4	8	GRAY CLAY	SOFT	GRAY	FAST		SMOOTH	
	8	39	FINE SAND	SOFT		FAST		VIBRATION	
	39	75	FINE-MED GRAVEL	FIRM		FAST		FAST CHATTER	
	75	133	FINE-MED-COARSE GRAVEL	STIFF		FAST		CHATTER	
	133	135	GRAY CLAY	SOFT	GRAY	FAST		SMOOTH	
	135	143	CEMENTED SAND W/ SANDY CLAY	FIRM	WHITE & TAN	SEMI SLOW		CHOPPY	
	143	177	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH	
	177	185	GREEN CLAY	SOFT	GREEN	FAST		SMOOTH	
	185	227	BLUE CLAY	SOFT	BLUE	FAST		SMOOTH	
	227	275	FINE-MED-COARSE SAND W/ FINE GRAVEL & SANDY CLAY	STIFF		FAST		CHOPPY & SMOOTH	
	275	288	FINE-MED GRAVEL	FIRM		FAST		FAST CHATTER	
	288	314	FINE-MED-COARSE GRAVEL	STIFF		FAST		CHATTER	
	314	319	SANDY CLAY	SOFT	TAN	FAST		SMOOTH	
	319	339	FINE-MED-COARSE SAND	FIRM		FAST		FAST CHATTER	
	339	354	SANDY CLAY W/ FINE-MED-COARSE SAND	SOFT	TAN	FAST		VIBRATION	
	354	359	SANDY CLAY	SOFT	TAN	FAST		SMOOTH	
	359	389	WHITE SANDY CLAY	SOFT	WHITE	FAST		SMOOTH	
	389	404	SANDY CLAY W/ LIME ROCK	FIRM		FAST		SMOOTH & CHOPPY	
	404	439	BROWN STICKY CLAY	STICKY	BROWN	FAST		SMOOTH	
	439	451	FINE SAND	SOFT		FAST		VIBRATION	
	451	456	FINE-MED-COARSE SAND W/ LIME ROCK & BROWN ROCK TRACE	FIRM	WHITE & BROWN	FAST		FAST CHATTER	
	456	462	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH	
	462	470	FINE-MED-COARSE SAND W/ FINE GRAVEL	FIRM		FAST		FAST CHATTER	
	470	478	FINE-MED-COARSE SAND W/ FINE GRAVEL & BROWN ROCK	FIRM		FAST		FAST CHATTER	
	478	504	TAN CLAY W/ FINE SAND	SOFT	TAN	FAST		SMOOTH & VIBRATION	
X	504	524	VERY HARD SANDSTONE W/ BROWN ROCK	REALLY HARD		SLOW	X	CHATTER	
			BIG DRINK @ 504', RECOVERED @ 506' PUT 6 WING PDC @ 506'						
			BIG DRINK @ 518', RECOVERED @ 519' TO W/ PDC 520' NEXT DAY SWITCHED TO ROLLER BIT TO 525'						
			QG - 20	HARD - RUINED			STEEL DRAG BIT		
			WATER LOADS - 3				PDC BIT		
			SA - 2				TRI-CONE ROLLER		
			BRAN - 7						

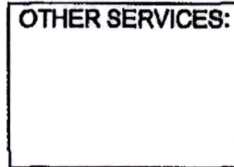


Century GEOPHYSICAL CORP.

SANDY ACRES LLC E8

COMPANY : DOWNEY DRILLING INC
WELL : SANDY ACRES LLC E
LOCATION/FIELD : TH#4
COUNTY : FINNEY
LOCATION : SE
SECTION : 25

OTHER SERVICES:



TOWNSHIP : 26S RANGE : 34W

DATE : 03/02/23
DEPTH DRILLER : 506
LOG BOTTOM : 504.80
LOG TOP : 0.90

PERMANENT DATUM : GL

KB :
DF :
GL :

LOG MEASURED FROM: GL
DRL MEASURED FROM: GL

CASING DIAMETER : 10.
CASING TYPE :
CASING THICKNESS:

LOGGING UNIT : 1903
FIELD OFFICE : DDI
RECORDED BY : DIEGO

BIT SIZE : 6.25 "
MAGNETIC DECL. : 0
MATRIX DENSITY : 2.71
NEUTRON MATRIX : LIMESTON

BOREHOLE FLUID : MUD
RM :
RM TEMPERATURE :
MATRIX DELTA T : 49

FILE : ORIGINAL
TYPE : 8144A
LGDATE: 03/02/23
LGTIME : 17:55:
THRESH: 99999

N 37.75586
W -100.98742

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100

110

120

130

140

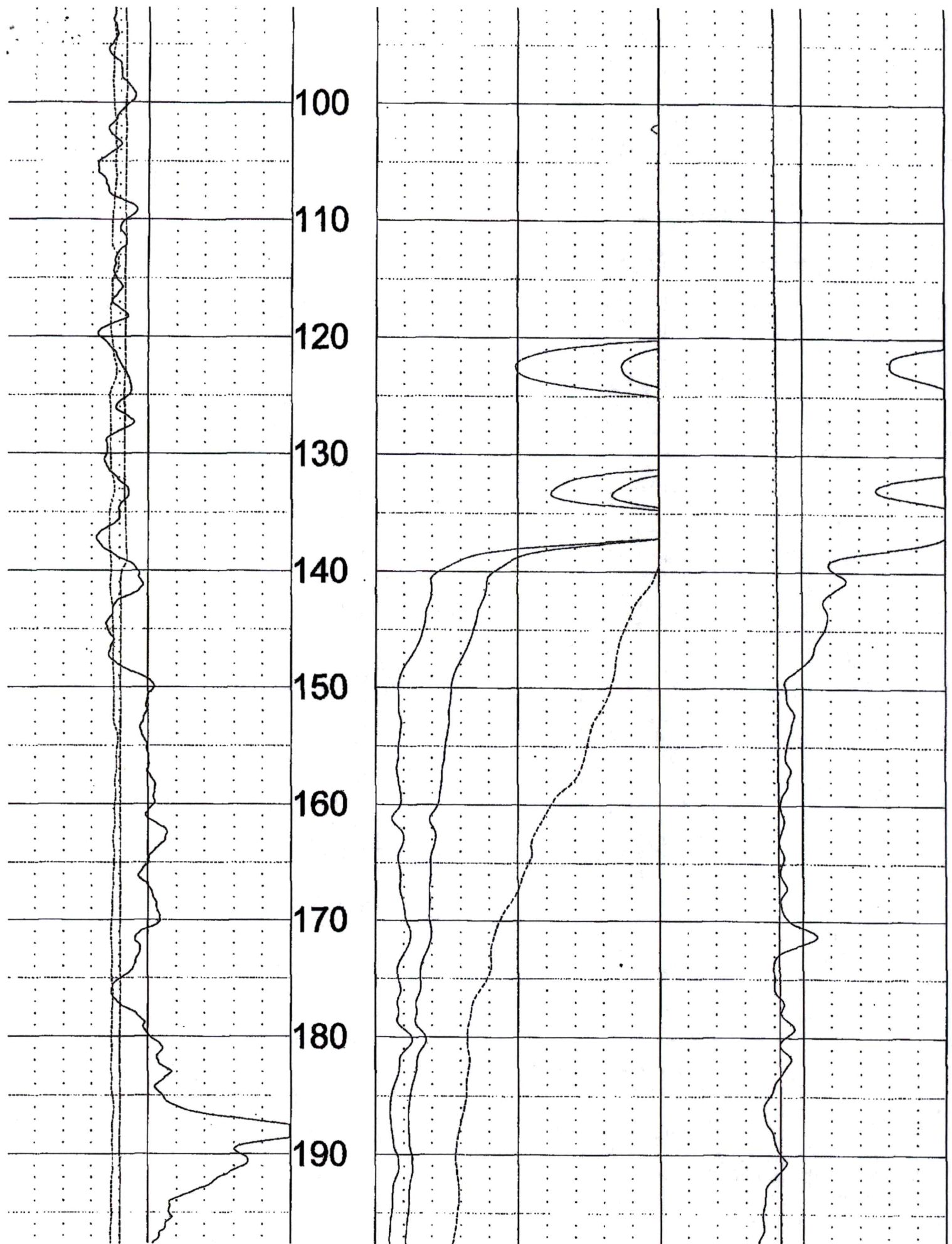
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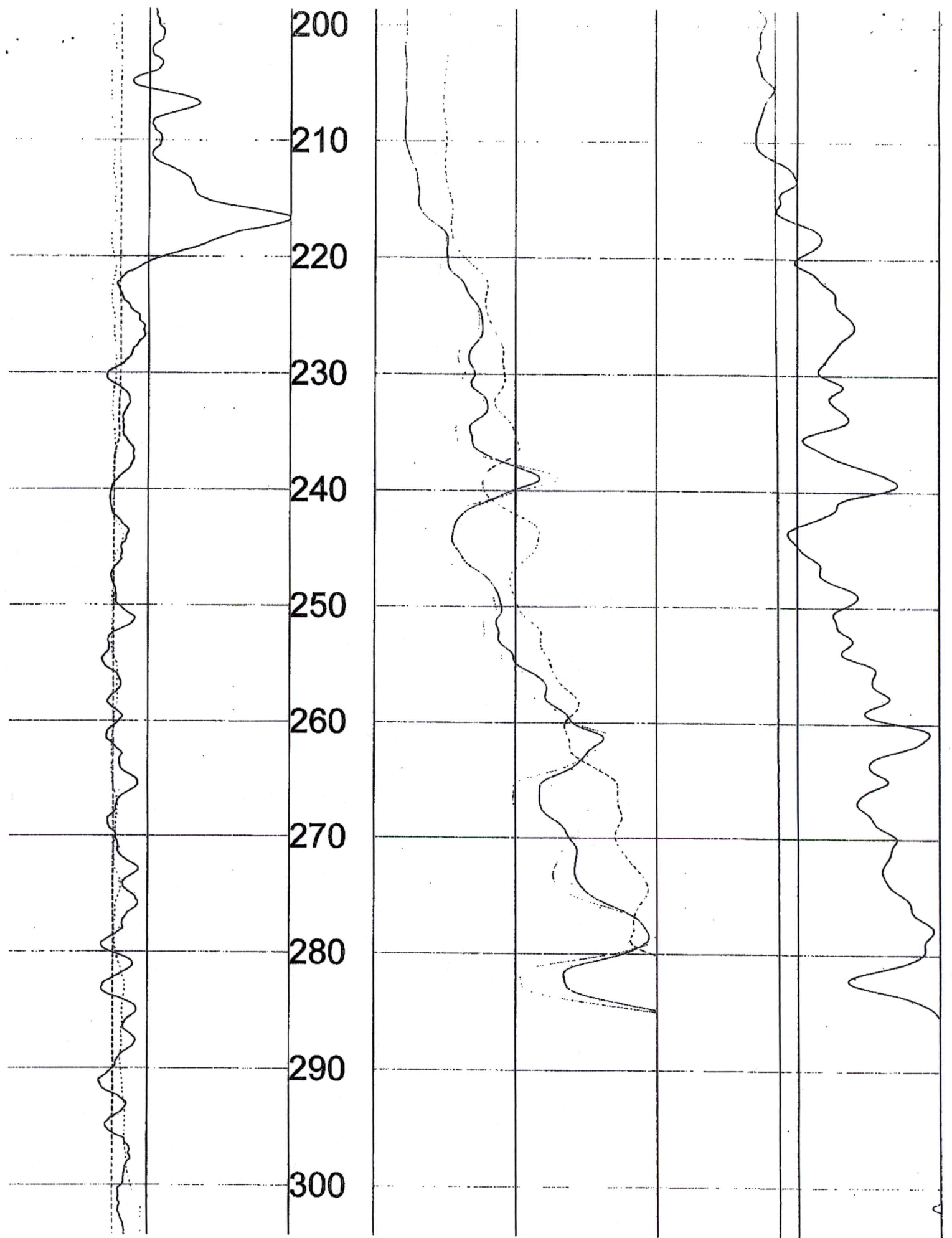
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170

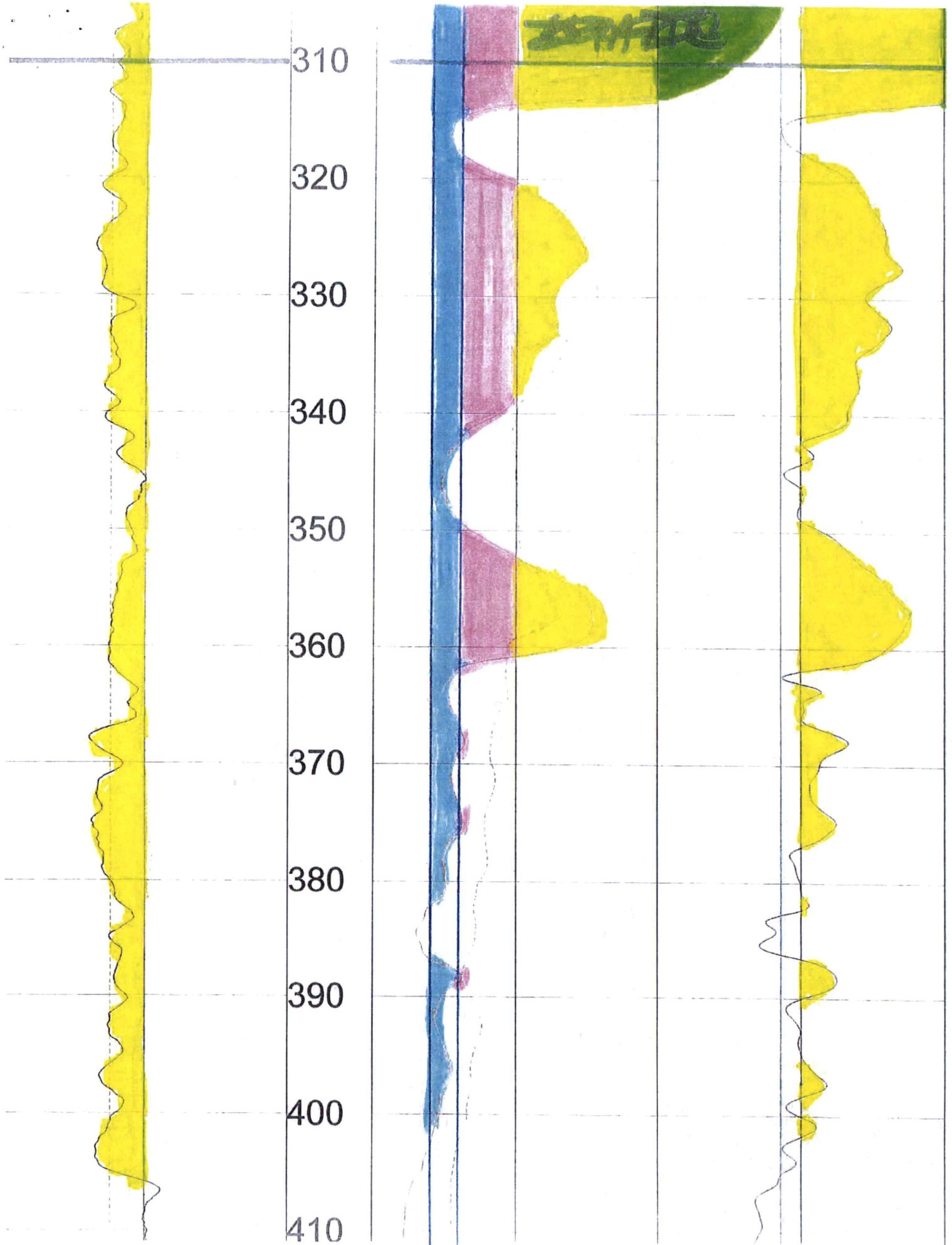
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190

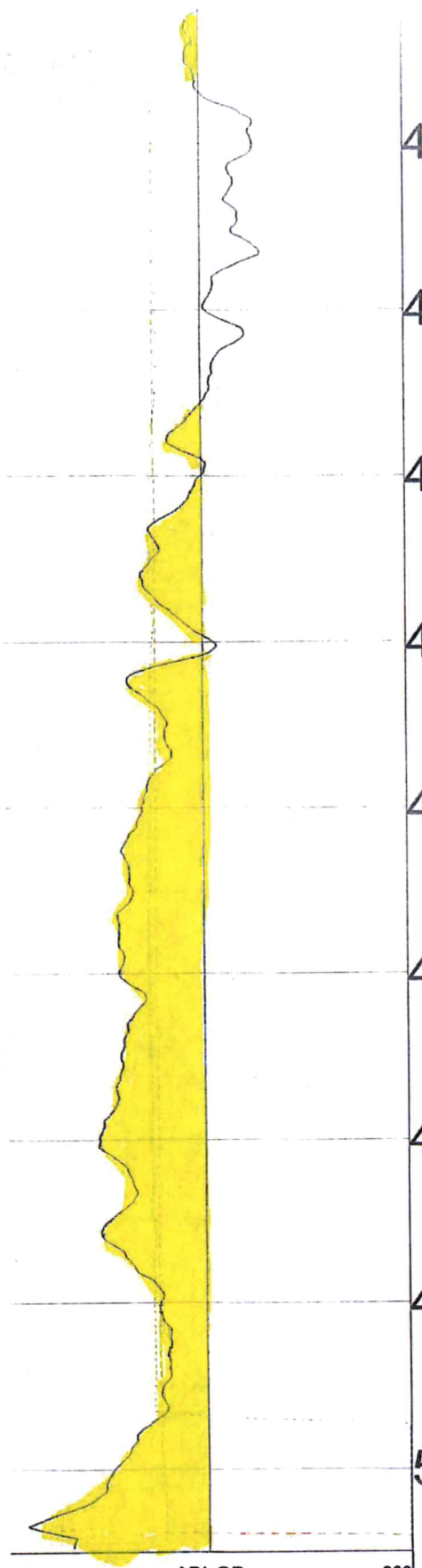




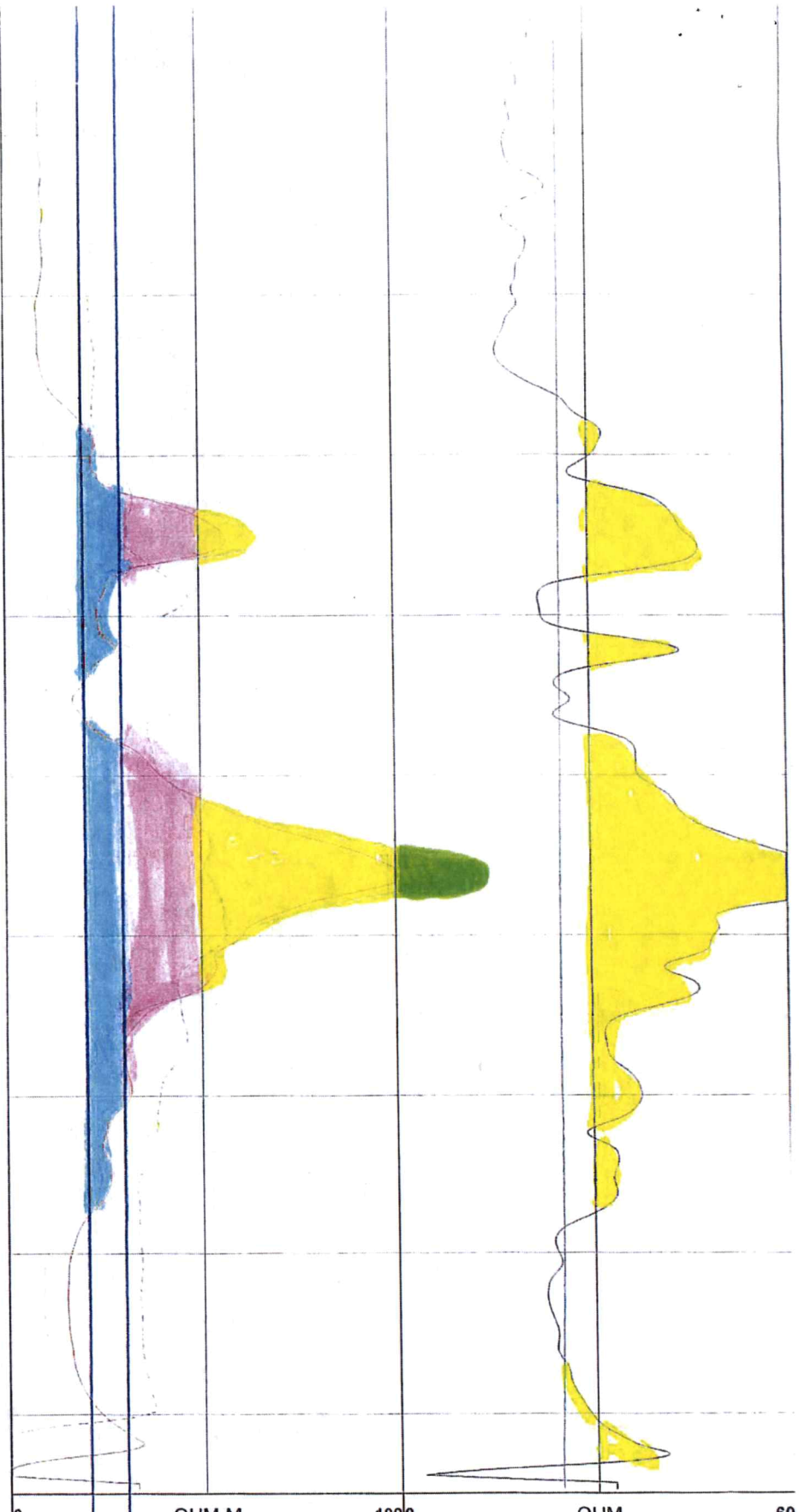
310
320
330
340
350
360
370
380
390
400
410



420
430
440
450
460
470
480
490
500



0	API-GR	200
	GAMMA	
-800	MV	-600
	SP	
5	OHM-M	15



0	OHM-M	1000	OHM	60
	RES(16N)		RES	
0	OHM-M	10055	DEG_F	65
	RES(64N)		TEMP	
0	OHM-M	100		

RES(FL)	FEET	LATERAL
---------	------	---------

TOOL CALIBRATION SANDY ACRES LLC E8 03/02/23 17:55

TOOL 8144A TM VERSION 1

SERIAL NUMBER 365

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Feb08,18	07:51:35	GAMMA	1.000 [API-GR]	4.000 [CPS]
	Feb08,18	07:51:35	GAMMA	340.000 [API-GR]	290.000 [CPS]
2	Jul12,17	13:24:17	RES(FL)	1.330 [OHM-M]	7595.000 [CPS]
	Jul12,17	13:24:17	RES(FL)	42.700 [OHM-M]	64820.000 [CPS]
3	Jan14,22	08:32:51	SP	0.000 [MV]	327768.000 [CPS]
	Jan14,22	08:32:51	SP	381.500 [MV]	164650.000 [CPS]
4	Jan14,22	08:33:01	RES(16N)	0.000 [OHM-M]	3453.000 [CPS]
	Jan14,22	08:33:01	RES(16N)	1951.500 [OHM-M]	448089.000 [CPS]
5	Jan14,22	08:33:10	RES(64N)	0.000 [OHM-M]	3163.000 [CPS]
	Jan14,22	08:33:10	RES(64N)	1994.000 [OHM-M]	449170.000 [CPS]
6	Jul12,17	13:17:49	TEMP	33.400 [DEG_F]	66910.000 [CPS]
	Jul12,17	13:17:49	TEMP	102.200 [DEG_F]	270930.000 [CPS]
7	Jan14,22	08:33:36	RES	0.000 [OHM]	21285.000 [CPS]
	Jan14,22	08:33:36	RES	944.000 [OHM]	190148.000 [CPS]

S. Thurlow
5/25/2023

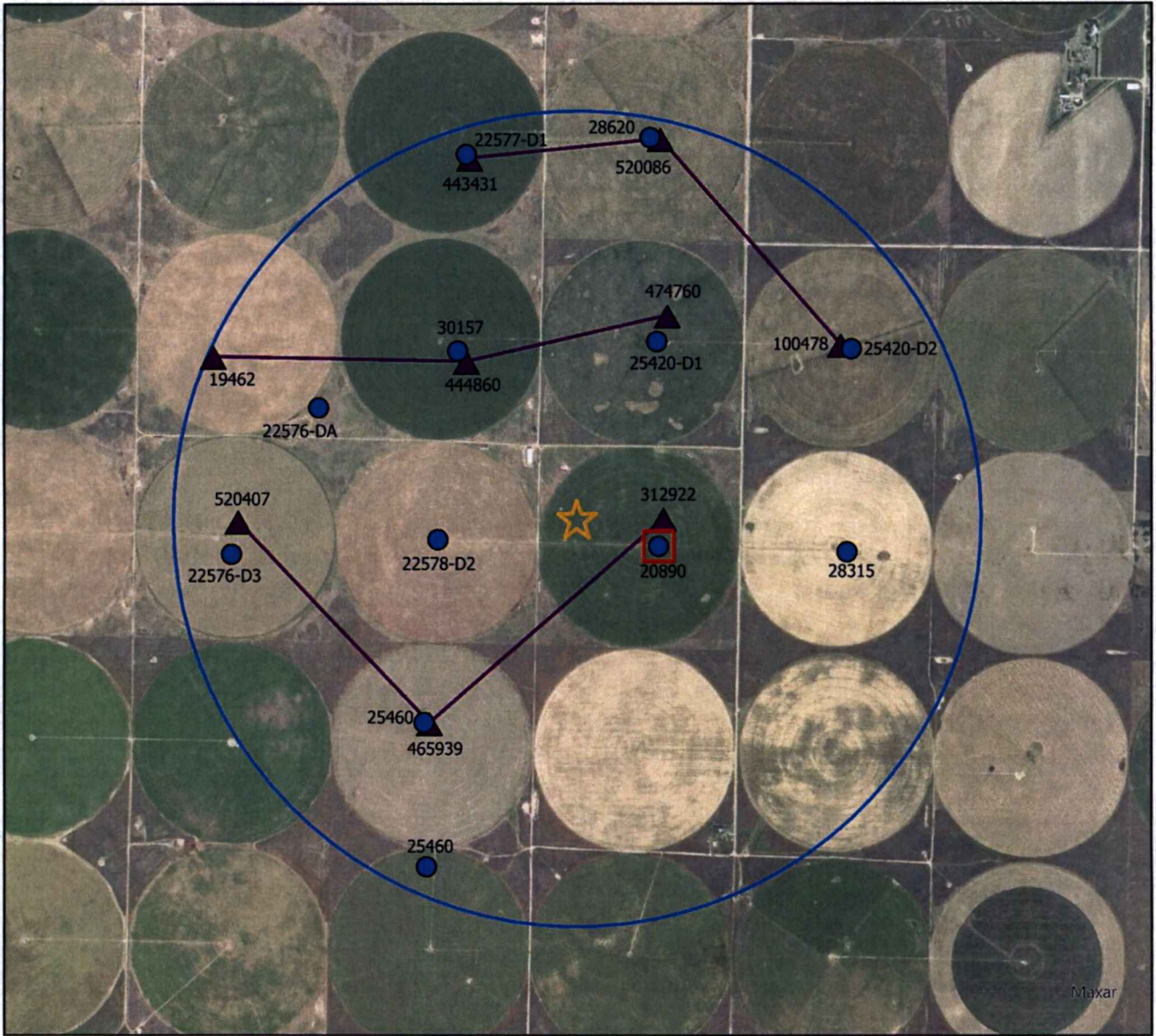
This evaluation of proposed change in point of diversion, File No. 20890







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. 20890. The change proposes reallocating the well approximately 1,052 feet West and 272 feet North of the currently authorized location (Figure 1).

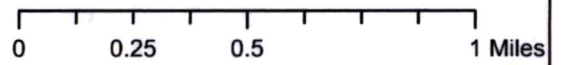
The GMD No. 3 groundwater model was used for a projected future (2068) saturated thickness (118.6 ft). The average of model cells located within Township 26 South, Range 33 West, Sections 19, 30, 31 and Township 26 South, Range 34 West, Sections 23, 24, 25, 26, 35, and 36 was used.

The transmissivity was estimated based on lithological logs from the Kansas Geological Survey's Water Well Completion Records Database (WWC5). WWC5 records within 1 mile 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, nine lithological logs were evaluated (Figure 4-6, Tables 1-9), with an average transmissivity of 4,390 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 0.00165.

Drawdown was evaluated at 4 nearby existing wells authorized by File Nos. 25460, 25420-D1, 30157, and 22578-D2 (Tables 10-13). A quantity of 272 acre-feet (AF) at a rate of 945 gallons per minute (gpm) was compared to the average historic use (203.1 AF, 2013-2022) at the most recent recorded pumping rate (300 gpm). The maximum net drawdown occurred at the point of diversion authorized by File No. 22578-D2. The net drawdown at that distance was 11.4 feet, or 6.7% of the projected future saturated thickness (Table 13).



-  Proposed PD
-  Authorized PD
-  Point of Diversion
-  WWCS Well Log
-  Transect
-  1-Mile Buffer Radius





 Kansas Department of Agriculture
 Division of Water Resources
 May 25, 2023

Figure 1: Location of current and proposed point of diversion, surrounding points of diversion, and WWCS 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	fnds	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	mcrsnd	Medium to Coarse Sand
ca	Limestone/caliche	mcrsds	Medium to Coarse Sandy Silt	cg	Clayey Gravel
o	Overburden	crsds	Coarse Sandy Silt	crsnd	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
fcrrsc	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	fnds	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	mcrsnd	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	crsnd	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
fcrrsc	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

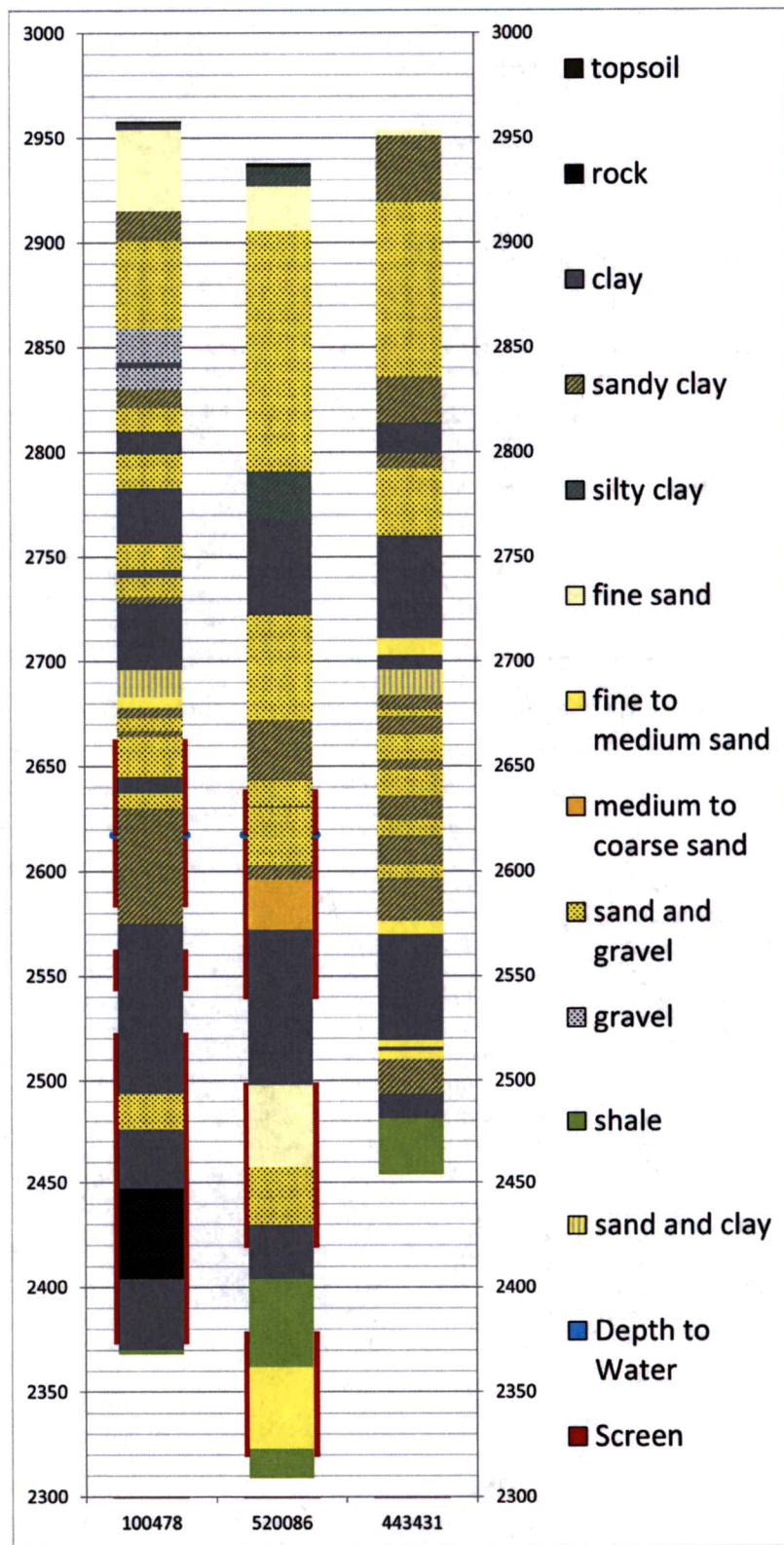


Figure 4: lithology log of KGS Wells on North transect

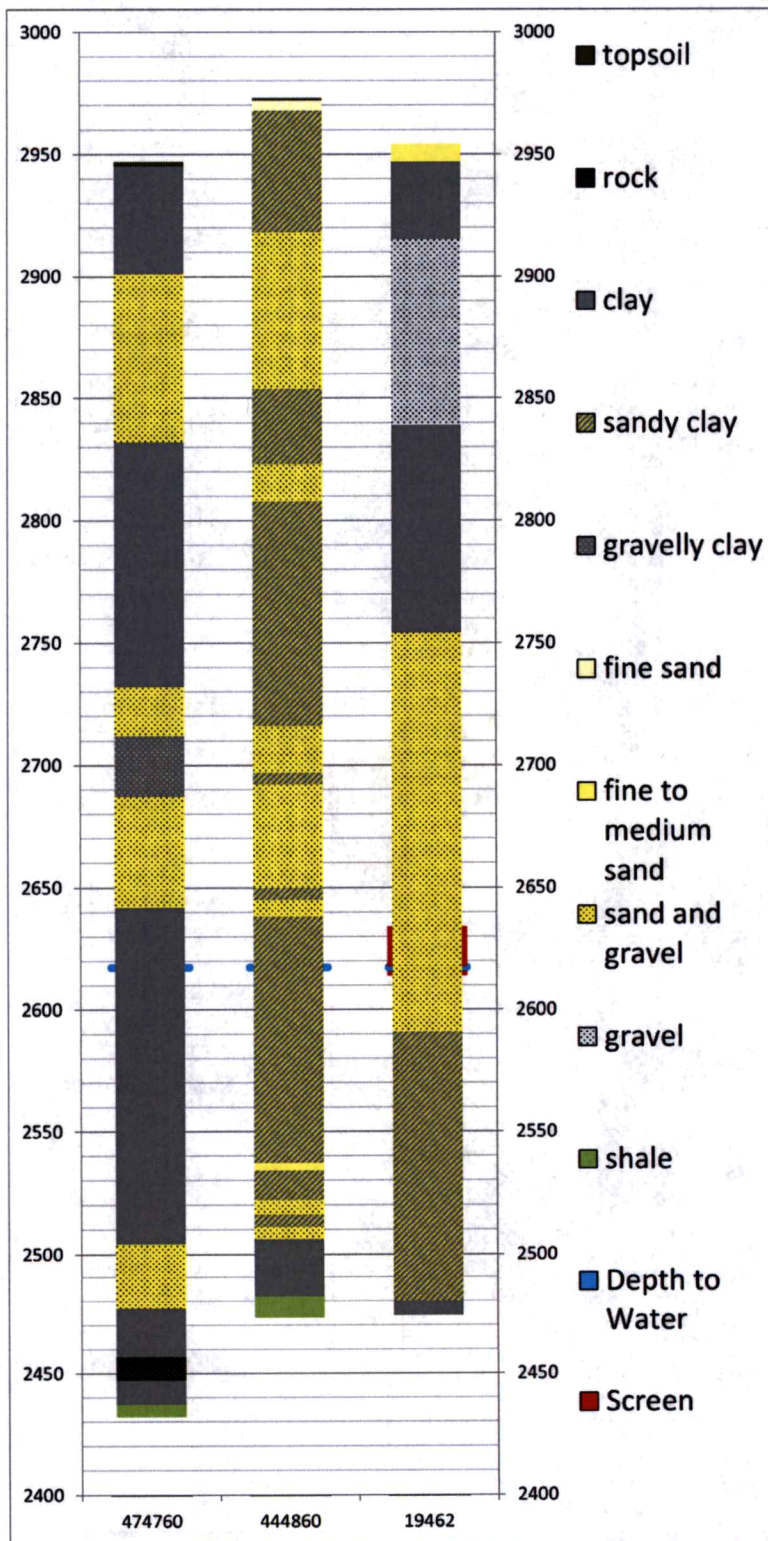


Figure 5: lithology log of KGS Wells on the middle transect

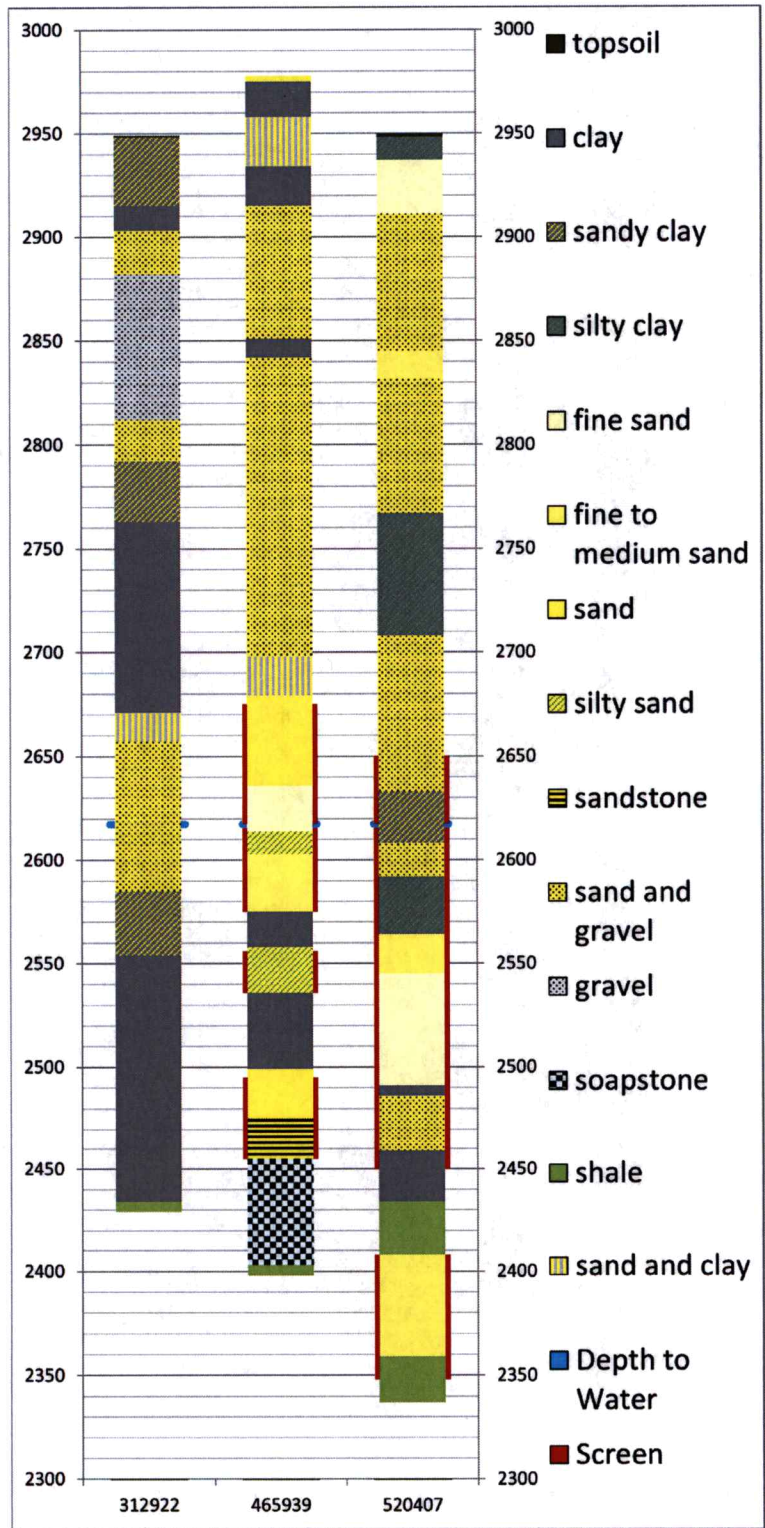


Figure 6: lithology log of KGS Wells on South transect

Table 1: Lithology, KGS Well ID 443431

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
fine sand				
brown sandy clay				
fine to medium sand and gravel - some coarse				
brown sandy clay				
brown clay				
brown sandy clay w/ layers of sand and gravel				
fine to medium sand and gravel - some coarse with layers of brown sandy clay				
blue clay				
fine to medium sand				
blue clay				
fine to medium sand w/ strips of blue clay - 20%				
brown sandy clay				
fine to medium sand and gravel				
brown sandy clay with layers of sand and gravel - 30%				
fine to medium sand and gravel with strips of brown sandy clay - 20%				
brown sandy clay with strips of sand and gravel - 10%				
fine to medium sand and gravel with strips of brown sandy clay - 10%				
brown sandy clay with strips of sand and gravel - 30%				
fine to medium sand and gravel with strips of brown sandy clay - 20%				
brown sandy clay with strips of sand and gravel - 10%	sc, snd, g	70, 20, 10	14	638.1
fine to medium sand and gravel	fmsnd, g	60, 40	6	771.6
brown sandy clay with strips of white rock	sc, r	80, 20	21	73.9
fine to medium sand	fmsnd	100	6	90.0
brown clay and brown sandy clay mixed with strips of white rock	c, sc	60, 40	51	89.8
fine to medium sand with 10% brown rock	fmsnd, r	90, 10	3	40.5
brown clay	c	100	2	0.0
fine to medium sand with 10% brown rock	fmsnd, r	90, 10	4	54.0
brown sandy clay	sc	100	16	70.4
hard brown and yellow clay with 40% brown rock	c	100	8	0.0
hard brown, yellow and red clay with 40% brown rock - 300 pull down	c	100	5	0.0
shale - 300 pull down	sh	100	27	0.0
Total Transmissivity:				1828.3

Above water surface

Table 2: Lithology, KGS Well ID 520086

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil				
silty clay				
fine sand and silty clay				
fine-medium-coarse sand and fine gravel with silty clay				
fine-medium-coarse sand and fine-medium-coarse gravel				
fine-medium-coarse sand and fine-medium gravel				
fine-medium-coarse sand and fine-medium-coarse gravel				
silty sandy clay				
clay and blue clay				
fine-medium-coarse sand and fine-medium gravel				
fine-medium-coarse sand and fine-medium gravel and sandy clay				
sandy clay, clay, and trace fine-medium sand				
fine-medium-coarse sand and fine-medium gravel				
sandy clay				
fine-medium-coarse sand and fine gravel	snd, fg	60, 40	14	2203.6
sandy clay	sc	100	7	30.8
medium-coarse sand	mcrssnd	100	24	1512.0
clay	c	100	34	0.0
clay	c	100	40	0.0
fine sand, silty, trace silty clay	fss, s	90, 10	40	522.0
fine-medium-coarse sand and fine gravel	snd, fg	60, 40	28	4407.2
clay	c	100	26	0.0
shale	sh	100	31	0.0
shale and sand layers	sh, snd	60, 40	11	277.2
fine-trace medium sand	fmsnd	100	39	585.0
shale with trace sand	sh, snd	90, 10	14	88.2
Total Transmissivity:				9626.0

Above water surface

Table 3: Lithology, KGS Well ID 520407

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil				
silty clay				
fine sand with trace silty clay				
fine sand, silty clay, trace medium-coarse sand, and fine gravel				
fine-medium-coarse sand and fine-medium gravel				
fine-medium-coarse sand and fine-medium-coarse gravel				
fine-medium sand and sandy clay				
fine-medium-trace coarse sand				
fine-medium-coarse sand and fine-medium gravel				
fine-medium-coarse sand and fine-medium-coarse gravel				
silty clay and trace fine sand				
silty clay and fine-medium gravel				
fine-medium-coarse sand and trace fine gravel				
fine-medium-coarse sand and fine-medium-coarse gravel				
sandy clay, fine-medium-coarse sand and fine gravel	sc, snd, fg	50, 30, 20	9	728.1
fine-medium-coarse sand and trace fine gravel	snd, fg	90, 10	16	1385.6
sandy silty clay and trace fine sand	msc, fsnd	90, 10	28	42.0
fine-trace medium sand	fmsnd	100	19	285.0
fine sand and sandy clay	fsnd, sc	60, 40	20	215.2
fine sand and silty sandy clay	fsnd, msc	60, 40	34	306.0
clay	c	100	5	0.0
fine-medium-coarse sand and fine-trace medium gravel and rock	snd, fmg, r	50, 30, 20	27	3272.4
clay	c	100	25	0.0
shale	sh	100	26	0.0
fine-trace medium sand and shale	fmsnd, sh	60, 40	49	441.0
shale	sh	100	15	0.0
shale with trace sand	sh, snd	90, 10	7	44.1
Total Transmissivity:				6719.4

Table 4: Lithology, KGS Well ID 474760

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil				
brown clay and brown sandy clay				
fine to medium sand and gravel, some coarse				
fine to medium sand and gravel, small clay streaks				
brown clay				
brown clay with white rock mixed				
brown and blue clay				
fine to medium sand and gravel, 10% clay				
brown clay with gravel streaks				
fine to medium sand and gravel				
fine to medium sand and gravel, small clay strips				
brown clay				
Above water surface				
brown clay with small gravel streaks	c, g	90, 10	20	598.0
brown clay	c	100	30	0.0
brown clay with white rock mixed	c	100	18	0.0
brown clay	c	100	45	0.0
fine to medium sand and gravel, 15% clay	fmsnd, g, c	50, 35, 15	27	3028.1
brown clay	c	100	20	0.0
brown rock with 30% brown yellow clay	c	100	10	0.0
brown yellow clay	c	100	10	0.0
shale	sh	100	5	0.0
Total Transmissivity:				3626.1

Table 5: Lithology, KGS Well ID 444860

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
topsoil				
fine sand				
brown sandy clay				
fine to medium sand and gravel - some coarse				
brown sandy clay with strips of white rock				
fine to medium sand and gravel with layers of brown sandy clay				
brown sandy clay				
brown sandy clay with strips of sand and gravel				
brown sandy clay				
fine to medium sand and gravel with strips of brown sandy clay - 20%				
brown sandy clay and sand and gravel mixed				
fine to medium sand and gravel				
fine to medium sand and gravel with strips of clay - 20%				
fine to medium sand and gravel				
fine to medium sand and gravel with strips of brown sandy clay and white rock - 30%				
soft brown sandy clay with strips of white rock				
fine to medium sand and gravel with strips of brown sandy clay - 20%				
brown sandy clay with strips of white rock	sc, r	80, 20	80	281.6
fine to medium sand and brown rock - 10%	fmsnd, r	90, 10	3	40.5
brown sandy clay with strips of sand and gravel - 20%	sc, snd, g	80, 10, 10	12	476.6
fine to medium sand and gravel with some brown rock - 10%	fmsnd, g, r	50, 40, 10	6	762.6
brown sandy clay	sc	100	5	22.0
fine to medium sand and gravel with some brown rock - 20%	fmsnd, g, r	50, 30, 20	5	486.0
hard brown and yellow clay with strips of brown rock - 30%	c	100	24	0.0
shale - 300 pull down	sh	100	9	0.0
Total Transmissivity:				2069.3

Table 6: Lithology, KGS Well ID 312922

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil				
brown sandy clay				
brown clay				
fine to medium sand and gravel				
medium to coarse gravel				
fine to medium sand and gravel				
brown sandy clay				
brown and blue clay				
blue clay				
brown and blue clay				
brown clay				
brown clay with small sand streaks				
fine to medium sand and gravel - 10% clay				
brown sandy clay with gravel streaks	sc, g	80, 20	31	1962.9
brown clay	c	100	78	0.0
brown clay with brown rock mixed	c	100	10	0.0
brown clay	c	100	22	0.0
brown and yellow clay	c	100	10	0.0
shale - hard	sh	100	5	0.0
Total Transmissivity:				6030.1

Table 7: Lithology, KGS Well ID 100478

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
top soil				
brown clay				
fine sand				
brown sandy clay				
fine to medium sand and gravel - 10% clay				
fine to medium sand and gravel - loose				
medium coarse gravel				
brown clay				
medium coarse gravel				
brown sandy clay				
fine to medium sand and gravel				
brown clay				
fine to medium sand and gravel				
brown gray clay				
fine to medium sand and gravel				
fine to medium sand and gravel - small clay strip				
brown clay				
fine to medium sand and gravel				
brown sandy clay				
blue clay				
blue clay - 25% fine to medium sand				
fine to medium sand - loose				
brown sandy clay - small gravel strip				
fine to medium sand and gravel				
brown sandy clay				
fine to medium sand and gravel				
brown sandy clay				
fine to medium sand and gravel - loose				
brown sandy clay		100	42	184.8
brown clay white rock mixed		100	42	0.0
brown clay		100	39	0.0
fine to medium sand and gravel - loose		60, 40	18	2314.8
brown clay		100	29	0.0
brown rock - loose		100	8	0.0
brown rock - tight		100	6	0.0
brown rock - hard		100	13	0.0
brown rock hard and loose strip - 10% clay		100	16	0.0
yellow clay - 15% sandstone mixed - hard pull down		c, ds	6	4.0
yellow clay - 15% sandstone mixed - tight		c, ds	20	13.2
yellow clay - hard		c	8	0.0
shale - hard		sh	2	0.0
			Total Transmissivity:	2516.8

Above water surface

Table 8: Lithology, KGS Well ID 465939

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
BROWN SAND				
BROWN CLAY, FEW SILTY SAND				
SAND FINE, THIN CLAY				
BROWN WHITE CLAY CALICHE				
SAND FINE TO MED COARSE, SMALL TO LARGE GRAVEL				
BROWN CLAY				
SAND FINE TO MED, SMALL TO LARGE GRAVEL				
SAND FINE TO MED RED-BROWN CLAY				
SAND FINE TO MED COARSE				
SAND FINE TO MED COARSE				
SAND FINE TO SMALL FEW LEDGES	fs	100	3	45.0
SAND, SILTY TO FINE	fss	100	11	159.5
SAND FINE TO SMALL, MED	fmsnd	100	28	420.0
WHITE-BROWN CLAY FEW SILTY	c, s	90, 10	17	0.0
SAND SILTY TO FINE THIN CLAYS	fss, c	80, 20	22	255.2
BROWN CLAY (STICKY)	c	100	37	0.0
SAND FINE TO MED, COARSE	snd	100	23	1449.0
SANDSTONE, SOAPSTONE	ds, ca	60, 40	21	55.4
SOAPSTONE, LIMESTONE	ca	100	17	0.0
GRAY AND BROWN, SOAPSTONE	ca	100	35	0.0
SHALE	sh	100	5	0.0
			Total Transmissivity:	2384.1

Table 9: Lithology, KGS Well ID 19462

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet ² /day)
fine to medium sand				
brown clay				
medium to coarse gravel (loose)				
brown clay				
blue clay				
fine to medium sand and gravel, 15% clay (loose)				
fine to medium sand and gravel (loose)				
fine to medium sand and gravel, 10% clay (loose)				
fine to medium sand and gravel (loose)				
fine to medium sand and gravel, 15% clay				
fine to medium sand and gravel, 10% clay (loose)				
fine to medium sand and gravel (loose)	fmsnd, g	60, 40	15	1929.0
brown sandy clay	sc	100	77	338.8
brown sandy clay, small streaks of fine to medium sand and gravel 35%	sc, fmsnd, g	55, 35, 10	9	977.1
brown sandy clay and white rock (tight)	sc, r	60, 40	25	66.0
brown, gray and yellow clay with brown rock (hard)	c	100	6	0.0
Total Transmissivity:				4709.0

Table 10: This drawdown evaluated at File No. 25460; T = 4,390 ft²/day, S = 0.00165

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	3310.6	945.0	272.0	14.4	8.4%
Baseline	3827.0	300.0	203.1	6.2	3.6%
			Net:	8.2	4.8%

Table 11: This drawdown evaluated at File No. 25420-D1; T = 4,390 ft²/day, S = 0.00165

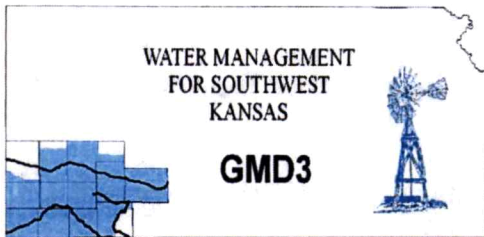
Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	2419.7	945.0	272.0	16.4	9.7%
Baseline	2644.9	300.0	203.1	6.9	4.1%
			Net:	9.5	5.6%

Table 12: This drawdown evaluated at File No. 30157; T = 4,390 ft²/day, S = 0.00165

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	2680.4	945.0	272.0	15.7	9.3%
Baseline	3646.0	300.0	203.1	6.3	3.7%
			Net:	9.5	5.6%

Table 13: This drawdown evaluated at File No. 22578-D2; T = 4,390 ft²/day, S = 0.00165

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	1844.4	945.0	272.0	18.2	10.7%
Baseline	2891.3	300.0	203.1	6.8	4.0%
			Net:	11.4	6.7%



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

May 18, 2023

RECEIVED

MAY 18 2023

Garden City Field Office
Division of Water Resources

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

RE: Application for Change in Point of Diversion
Water Right, File No. 20890

Dear Austin:

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

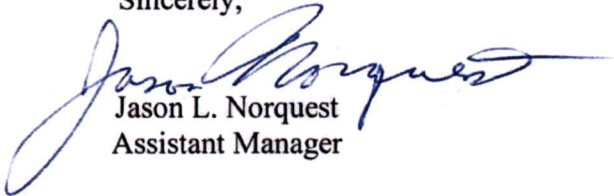
Every neighboring well within 1 mile of the proposed move was evaluated. Evaluations showed that none of the neighboring wells exceeded the net effect above the maximum allowable threshold and needed no further evaluation. No critical wells were determined in the area.

We did receive two replies from neighboring well owners. The first initially had trouble viewing the map and analysis. After getting him the information and explaining the process, no concerns of the proposal were submitted. The second response did have concerns with the proposed move and submitted a recent history of the declines on their wells in the area. The feeling is that the proposed move could have more effects on the area. Discussion of the change process and results from the analysis were presented to them and noted that their response would be part of our recommendation. GMD3 sees this move as meeting current area rules and would recommend approval as long as the State's evaluation supported our analysis to show that the proposed change was within the guidelines for the change and would not have adverse outside

your limits. 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,

A handwritten signature in blue ink, appearing to read "Jason L. Norquest", with a long, sweeping horizontal flourish extending to the right.

Jason L. Norquest
Assistant Manager

GMD3 Change Review

File No(s): 20890.

DWR office: GC.

App filed to change: PD.

Is Landowner(s) correct in WRIS: Sandyhill Enterprises LLC % Jacob Neufeld.

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) 05 being changed.

	ft. North	ft. West	
Authorized PD	1280	1046	Sect 25-26-34
Proposed PD	1552	2098	
Difference	-272 n	-1052 w	
a2 + b2 = c2	73984	1106704	1086.595 foot move NW

GPS for proposed PD: Lat: 37.755869 Long: -100.987426.

Is proposed PD stacking on existing WRs? No.

Is Proposed PU overlapping existing WRs? No Change.

Neighboring certified well(s) notified: __.

Name Tri-Stone Farms Inc. (25420D1).

Address 10925 S Sandhill RD.

Zip Garden City, KS 67846.

Email: tristone@wbsnet.org Phone: 620-287-4373.

Did receive comment, in written form. Believe the change will lead to more effects on their wells.

Name John & Katherine Dewerff Rev Trusts (25420D2).

Address 941 SE 50 RD.

Zip Ellinwood, KS 67526.

Email: ellbarfarms@gmail.com Phone: 620-786-891.

Name Triangle H Grain & Cattle Co (25460, 28315).

Address 1955 W Plymell RD.

Zip Garden City, KS 67846.

Email: trianglehfarms@triangle-h.com Phone: 620-276-4004.

Was contacted, due to not being able to find the maps and analysis. Sent the link again and after discussions, they did not have a concern.

Domestic well(s) notified: __.

Name Eric Peevy (SE of 36).

Address 14505 S Ivanhoe.

Zip Garden City, KS 67846.

Base Acres: __.

GMD3 Change Review

Perfected Acres: __.

Irr. Return-Flow ___%

Finney County

Authorized 272AF @ 945gpm

Average reported use (2013-2022): 203.1gpm/year

2019 GMD3 inspection calculated 358gpm

Proposed depth of 524'

Current well around 410'

Is a waiver needed: Move is less than half mile. Minimum spacing to neighboring wells appears to be met. Analysis shows possible effects within guidelines, no critical wells.

Recommendation: After review of all available information, it appears that the change meets current area rules. Staff would recommend approval as long as the State agrees with our analysis and that effects would be within guidelines.



File No: 20890

May 17, 2023

To whom it may concern:

I oppose the drilling on water right 20890. I believe that I can provide information that might change the results of the analysis that was done. I have the neighboring well, water right 25420D1.

The data provided is current nozzle packages on section 25 and 30.

NE 25-26-34: water right 25420D1

2020: 350 gal

2019: 500 gal

2014: 600 gal

NW 30-26-33: water right 25420D2

2021: 400 gal

2019: 500 gal

NE 30-26-33: water right 20058

2022: 300 gal

2021: 350 gal

2020: 450 gal

2019: 550 gal

SE 30-26-33: water right 28033

2022: 400 gal

2019: 500 gal

2015: 650 gal

Thanks for reviewing our information provided and considering the effects a new well would have on our existing wells.

Rhonda Stone

(620) 287-4373 tristone@wbsnet.org

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

1552 Feet N and 2098 Feet W of the Southeast Corner of Section 25 Twp 26S Rng 34W
 Located at: 100.987394 West Longitude and 37.755720 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	20890 00	IRR	NK	G*	↔	1074	--	NW	SE	SE	1280	1046	25	26	34W	5	160° 272.00	272.00
A__ AF	22576 D3	IRR	NK	G	↙	4570	--	SE	NW	SE	1488	1432	26	26	34W	7	272.00	272.00
A__ AF	22576 DA	IRR	NK	G	↖	3705	--	SE	SE	NE	2961	279	26	26	34W	9	272.00	272.00
A__ AF	22577 D1	IRR	NK	G	↖	4989	--	NW	SE	SW	1035	3660	24	26	34W	5	272.00	272.00
A__ AF	22578 D2	IRR	NK	G	↖	1841	--	--	NC	SW	1299	3932	25	26	34W	2	272.00	272.00
A__ AF	25420 D1	IRR	NK	G	↖	2657	--	SW	NE	NE	3985	1020	25	26	34W	7	260.00	260.00
A__ AF	25420 D2	IRR	NK	G	↖	4206	--	--	NC	NW	3960	3855	30	26	33W	5	260.00	260.00
A__ AF	25460 00	IRR	NK	G	↖	3305	--	SE	NW	NW	4266	4094	36	26	34W	5	190° 400.00	400.00
Same AF					↖	4872	--	NW	NE	SW	2383	3959	36	26	34W	6	1400 380.00	380.00
A__ AF	28315 00	IRR	NK	G	↖	3591	--	NW	SE	SW	1312	3695	30	26	33W	7	260.00	260.00
A__ AF	28620 00	IRR	NK	G	↖	5076	--	--	NC	SE	1304	1244	24	26	34W	6	260.00	260.00
A__ AF	30157 00	IRR	NK	G	↖	2729	--	NW	SE	NW	3749	3709	25	26	34W	6	272.00	272.00

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) =	3452.00	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	3452.00	.00

Minimum Spacing
Applic: 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:

1552 Feet North and 2098 Feet West of the Southeast Corner of Section 25 Twp 26S Rng 34W
 Located at: 100.987394 West Longitude and 37.755720 North Latitude
 Both SURFACE WATER and GROUNDWATER
 WATER USE CORRESPONDENTS:

File Number Use ST SR

> JACOB NEUFELD
 >
 > PO BOX 1005
 > HOLCOMB KS 67851

20890

Application

> JACOB NEUFELD
 >
 > PO BOX 1005
 > HOLCOMB KS 67851

22576 D3

>-----
> JACOB NEUFELD
>
> PO BOX 1005 22576DA
> HOLCOMB KS 67851
>-----

> JACOB NEUFELD
>
> PO BOX 1005 22577D1
> HOLCOMB KS 67851
>-----

> JACOB NEUFELD
>
> PO BOX 1005 22578D2
> HOLCOMB KS 67851
>-----

> TRI-STONE FARMS INC
>
> 10925 S SANDHILL RD 25420D1
> GARDEN CITY KS 67846
>-----

> JOHN & KATHERINE DEWERFF REV TRUSTS
>
> 941 SE 50 RD 25420D2
> ELLINWOOD KS 67526
>-----

> TRIANGLE H GRAIN & CATTLE CO
>
> 1955 W PLYMELL RD 25460
> GARDEN CITY KS 67846
>-----

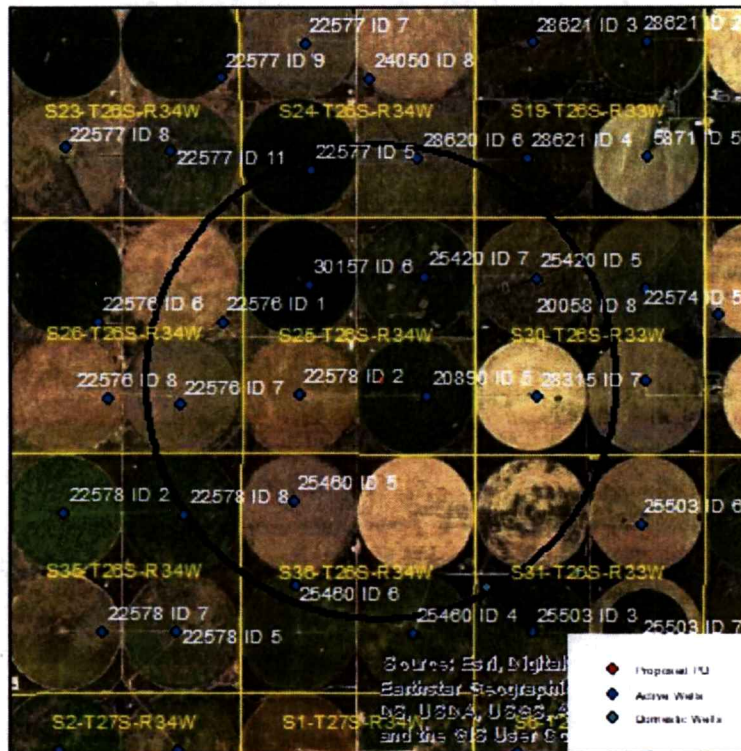
> TRIANGLE H GRAIN & CATTLE CO
>
> 1955 W PLYMELL RD 28317
> GARDEN CITY KS 67846
>-----

> JACOB NEUFELD
>
> PO BOX 1005 28620
> HOLCOMB KS 67851
>-----

> JACOB NEUFELD
>
> PO BOX 1005 30157
> HOLCOMB KS 67851
>-----
=====

Evaluation of proposed move for Water Right No. 20890

Proposed: Move water right no. 20890 to a new well location, a distance of 1,120 ft to the northwest.



Wells within 1 mile: 22577, 28620, 22576 ID1, 22576 ID7, 22578, 30157, 25420 ID7, 25420 ID5, 28315, 25460 ID5, 25460 ID6, and a domestic well in section 31-26-33.

The saturated thickness at the proposed well location is estimated to be 205 ft, based upon the GMD3 model. For saturated thickness greater than 200 ft, the drawdown allowance is 4.0 ft.

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

$S = 0.2234$, $T = 17,690 \text{ ft}^2/\text{day}$, $t_{p\text{current}} = 128 \text{ days}$ (based on average use and observed rate),
 $Q_{\text{current}} = 358 \text{ gpm}$ (based on 2019 field inspection), $t_{p\text{proposed}} = 65 \text{ days}$, $Q_{\text{proposed}} = 945 \text{ gpm}$

Theis drawdowns were calculated as follows:

22577:
Drawdown from current location = 0.54 ft
Drawdown from proposed location = 0.81 ft
Net drawdown = 0.3 ft

28620:
Drawdown from current location = 0.57 ft
Drawdown from proposed location = 0.80 ft
Net drawdown = 0.2 ft

22576 ID1: Drawdown from current location = 0.60 ft
Drawdown from proposed location = 1.00 ft
Net drawdown = **0.4 ft**

22576 ID7: Drawdown from current location = 0.55 ft
Drawdown from proposed location = 0.87 ft
Net drawdown = **0.3 ft**

22578: Drawdown from current location = 0.83 ft
Drawdown from proposed location = 1.76 ft
Net drawdown = **0.9 ft**

30157: Drawdown from current location = 0.72 ft
Drawdown from proposed location = 1.32 ft
Net drawdown = **0.6 ft**

25420 ID7: Drawdown from current location = 0.87 ft
Drawdown from proposed location = 1.39 ft
Net drawdown = **0.5 ft**

25420 ID5: Drawdown from current location = 0.73 ft
Drawdown from proposed location = 0.92 ft
Net drawdown = **0.2 ft**

28315: Drawdown from current location = 0.91 ft
Drawdown from proposed location = 1.04 ft
Net drawdown = **0.1 ft**

25460 ID5: Drawdown from current location = 0.69 ft
Drawdown from proposed location = 1.10 ft
Net drawdown = **0.4 ft**

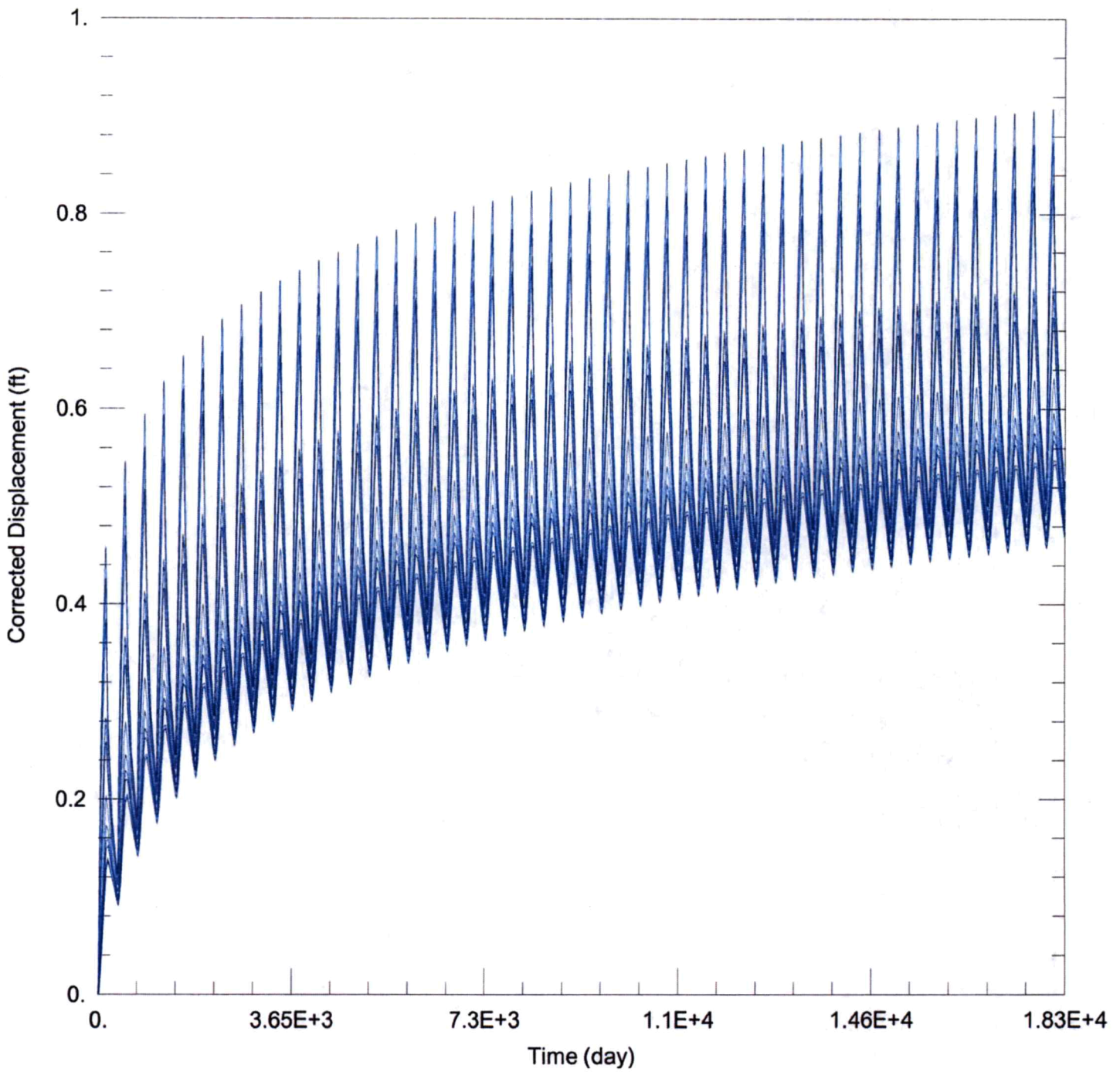
25460 ID6: Drawdown from current location = 0.58 ft
Drawdown from proposed location = 0.81 ft
Net drawdown = **0.2 ft**

Domestic 31-26-33: Drawdown from current location = 0.63 ft
Drawdown from proposed location = 0.79 ft
Net drawdown = **0.2 ft**

Net drawdown does not exceed the drawdown allowance of 4.0 ft for any well within 1 mile of the proposed location. Therefore, critical well analysis is not necessary.

Conclusion:

The proposed move is likely to create minimal effects on neighboring wells and appears unlikely to cause impairment. Any concerned neighbors should contact GMD3 at (620) 275-7147 or the Division of Water Resources at (620) 276-2901.



WELL TEST ANALYSIS

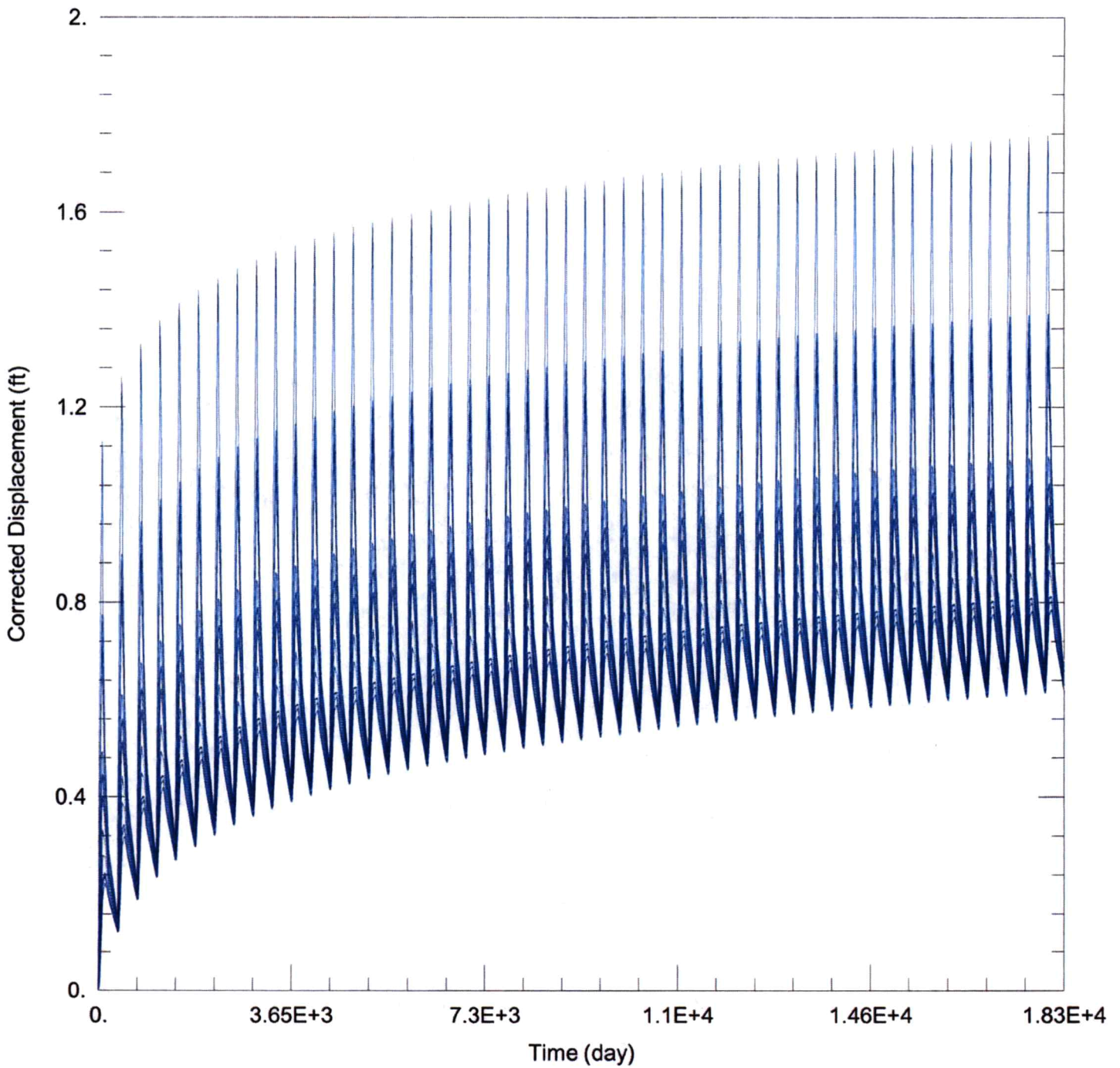
Data Set: C:\Users\trevora\Documents\2023_moves\20890\20890 Current.aqt
 Date: 05/12/23 Time: 09:23:20

PROJECT INFORMATION

Company: GMD 3
 Project: 20890
 Location: Finney County

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
20890	-53277	320463	□	-53277	320463



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2023_moves\20890\20890 Proposed.aqt
 Date: 05/12/23 Time: 09:23:14

PROJECT INFORMATION

Company: GMD 3
 Project: 20890
 Location: Finney County

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
20890	-54348	320792

Well Name	X (ft)	Y (ft)
□	-54348	320792

File No: 20890

May 17, 2023

To whom it may concern:

I oppose the drilling on water right 20890. I believe that I can provide information that might change the results of the analysis that was done. I have the neighboring well, water right 25420D1.

The data provided is current nozzle packages on section 25 and 30.

NE 25-26-34: water right 25420D1

2020: 350 gal

2019: 500 gal

2014: 600 gal

RECEIVED

MAY 17 2023

Garden City Field Office
Division of Water Resources

NW 30-26-33: water right 25420D2

2021: 400 gal

2019: 500 gal

NE 30-26-33: water right 20058

2022: 300 gal

2021: 350 gal

2020: 450 gal

2019: 550 gal

SE 30-26-33: water right 28033

2022: 400 gal

2019: 500 gal

2015: 650 gal

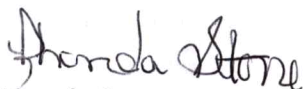
Thanks for reviewing our information provided and considering the effects a new well would have on our existing wells.

Rhonda Stone

(620) 287-4373 tristone@wbsnet.org

Mike,

I have concerns about wells being drilled near the ground I own in southwest Finney County, NE 25-26-34 water right 25420D1. It has come to my attention that test holes have been drilled and a well will be drilled on the quarter directly south of mine on the NW corner, moved out 300 feet from the previous used well. That water right is, 20890. Last year, the quarter to the NW had a new well drilled out in the SE corner closer to us, as well. I believe that water right is, 30157. I understand that he may be within compliance, but given the drop in water level and the amount of sprinklers we have had to nozzle down within the last year in the section to the east, 30-26-33, worries me. The amount of deep wells drilled and tied together is concerning.



Rhonda Stone

620-287-4373

RECEIVED

MAY 5 2023

Garden City Field Office
Division of Water Resources

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

Mike Beam, Secretary



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

Laura Kelly, Governor

May 5, 2023

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

Re: Request for Recommendation,
File Nos. 20890

Dear Sir or Madam:

We are enclosing a copy of the referenced application, which was submitted by Jacob Neufeld 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:

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



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

Mike Beam, Secretary

Laura Kelly, Governor

May 4, 2023

STEVEN & RHONDA STONE
10925 S SANDHILL RD
GARDEN CITY, KS 67846

RE: Application for Change
Water Right, File Nos. 20890

Dear Sir or Madam:


This is to advise you that Jacob Neufeld has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point of diversion under the above referenced applications. An irrigation well is proposed to be relocated to the SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 25, Township 26 South, Range 34 West, Finney County.

You can find the complete applications posted by water right file number as referenced above at: www.Agriculture.ks.gov/DWRNotices

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

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

Sincerely,


Austin J. McColloch
Assistant Water Commissioner

AM:

pc:

SCANNED