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

1. File No.: **22249**	2. Status Change Date:	4. Field Office: **04 - Garden City** GMD: **03 - Southwest** Structures File No.: Filing/Priority Date: **09/06/2024** Application Complete Date: **02/20/2025**
3. Package File No(s):		

5a. ☐ Applicant ☒ Owner ☒ WUC Person ID **7304** ☐ Address Change Add Seq# **MARLIN & ERMA HEGER** **1080 ROAD 21** **HUGOTON, KS 67951-5303**	5b. ☒ Owner ☐ WUC Person ID **58541** ☐ Address Change Add Seq# **LAZY T LAND & CATTLE LLC** **ATTN: GRANT COUNTY BANK** **P O BOX 389** **ULYSSES, KS 67880-0389**
5c. ☐ Owner ☐ WUC Person ID ☐ Address Change Add Seq#	5d. ☐ Owner ☐ WUC Person ID ☐ Address Change Add Seq#

6. Change No.: **3** ☒ PD ☐ PU ☐ UMW Base Acres: **715** Year: Min Reasonable Q: Previous UMW: MDS Gauge: Active Admin? ☐ Completion/Start Date: **3/01/2026** Perfection/Expiration Date:	7. Use of Water ☒ Groundwater ☐ Surface Water UMW: **IRR-Irrigation** UMW: UMW:

8. Action Trail

9. Special Conditions

10. 5YR Allocation Type: Start Year: 5YR Quantity: Base Acres:
Comment:

11. Sand & Gravel Proj ID: ☐ Active ☐ Dredge ☐ IND Evap ☐ Jr Evap ☐ Other Diversion ☐ Rpt on Sr

12. Waiver Rule ID: ☐ New Date Requested:
Applies: Rule No.: Justification:
Rule Type:
Rule SubType:

Comments **REQUESTED REDUCED DIVERSION RATE FROM OWNER**	Processed **02/20/2025** **MAM** Reviewed	Entered

File No. **22249**	13. County: **SV** Basin: **CIMARRON RIVER** Stream:
Structures File No:	Aquifer Code: **211** Special Use Area:

14. Points of Diversion, Rates & Quantities

PDIV	Qualifier	S	T	R	ID	'N	'W	Comment (AKA Line)	Oty AF Auth	Oty AF Add	Rate gpm Auth	Rate gpm Add	Storage Qty Auth	Storage Qty Add	Storage Rate Auth/Add	Overlaps
DEL	**81964**															
ENT	**NENESW**	**25**	**33**	**36W**		**2481**	**2717**		**790**	**58**	**1185**	**1185**				

15. Limitations Type: Quantity: Rate: combined with file no(s):
Type: Quantity: Rate: combined with file no(s):

16. Metering ☒ Metering Required ☐ Anti-Reverse Required ☐ Seal Required Compliance Date: 12/31/2025

17. Place of Use

PUSE	S	T	R	ID	NE¼ NE	NE¼ NW	NE¼ SW	NE¼ SE	NW¼ NE	NW¼ NW	NW¼ SW	NW¼ SE	SW¼ NE	SW¼ NW	SW¼ SW	SW¼ SE	SE¼ NE	SE¼ NW	SE¼ SW	SE¼ SE	Total	Owner(s)	Chg?	Overlaps
CHK	**7126**																						☐	
CHK	**20193**																						☐	
CHK	**28247**																						☐	
CHK	**37808**																						☐	
CHK	**57738**																						☐	
																							☐	

18. Point of Diversion and Place of Use Overlaps

*	**
+	++
#	##
^	^^

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

Kansas
Department of Agriculture
Division of Water Resources

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

Mike Beam, Secretary

Laura Kelly, Governor

February 20, 2025

MARLIN & ERMA HEGER
1080 ROAD 21
HUGOTON, KS 67951-5303

RE: Filed Office Application for Change
Water Right, File No. 22249

Dear Estate of Marlin and Erma Heger:

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

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in these approvals for change. A condition of this approval is that an acceptable water flow meter must be installed on the diversion works authorized under the referenced files number and meet current specifications. An additional condition is also an attached to the document.

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,

Michael A. Meyer
Water Commissioner

MAM
Enclosures

pc: LAZY T LAND & CATTLE LLC
GMD3

CERTIFICATE OF SERVICE

On this 20th day of February 2025, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 22,249 dated 20th day of February 2025 was mailed postage prepaid, first class, US mail to the following:

MARLIN & ERMA HEGER
1080 ROAD 21
HUGOTON, KS 67951-5303

pc:

LAZY T LAND & CATTLE LLC
Attn: GRANT COUNTY BANK
P O BOX 389
ULYSSES, KS 67880-0389

GMD3

Julie Jones

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
4:10 pm
SEP 06 2024
Garden City Field Office
Divison of Water Resources

File No. 22249

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: MARLIN & ERMA HEGER
1080 ROAD 21 HUGOTON KS 67951 - 5303
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: NO CHANGE
ADDRESS:
(If there is more than one landowner, attach supplemental sheets as necessary.)

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

4. If this application is for a change in place of use, it is proposed that the place of use be changed to:
Owner of Land ---- NAME:
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* CGT *Fee $* 200.00 *TR #* _____ *Receipt Date* 9-6-24 *Check #* 2940

5. **Presently authorized point of diversion:**

One in the SE Quarter of the SE Quarter of the SW Quarter of Section 25, Township 33 South, Range 36 (W), in STEVENS County, Kansas, 247 feet North 2825 feet West of Southeast corner of section.

Authorized Rate 1770 GPM Authorized Quantity 790 AF Depth of well 506 (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 be ter described with GPS as follows:**

Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)

One in the NE Quarter of the NE Quarter of the SW Quarter of Section 25, Township 33 South, Range 36 (W), in STEVENS County, Kansas, 2481 feet North 2717 feet West of Southeast corner of section.

Proposed Rate 1185GPM Proposed Quantity 790 AF Proposed well depth (feet) 580'.

This point is: ☐ Additional Well ☐ Geo Center List other water rights that will use this point _____.

* AGREE TO REDUCE RATE TO 1,185 GPM * DKH initials * 02/20/25 date

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) LOSS OF PRRODUCTION

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

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

UPON APPROVAL

10. If the point of diversion is a well:

(a) What are you going to do with the old well?

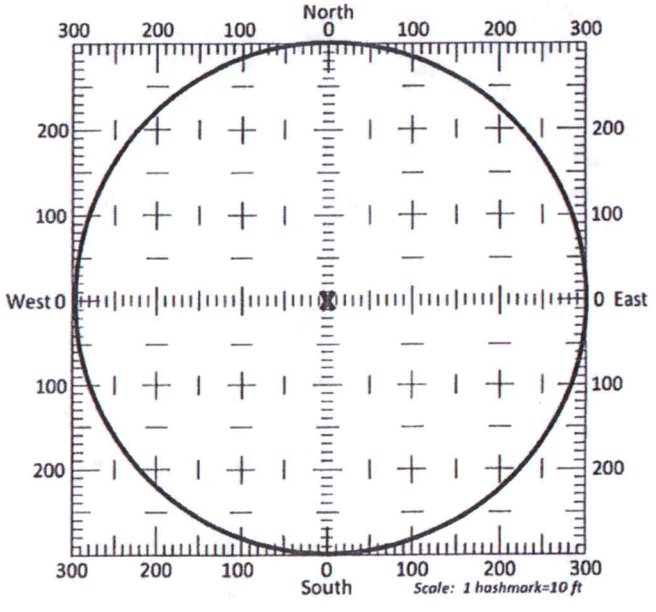
PLUG / CAP

(b) When will this be done? UPON COMPLETION

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 Hugoton, Kansas, this 6th day of September, 2024.

Marlin P. Heger	Deceased
(Owner)	(Spouse)
Marlin P. Heger	
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)

State of Kansas }
County of Stevens } SS

BRANDY LITTELL
Notary Public State of Kansas
My Appt. 12/31/24

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 6 day of September, 2024.

Brandy Littell
Notary Public

My Commission Expires 12/31/24.

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. 22249.

1. A change application was received on September 6, 2024 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, 20**25, 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, 20**25, or within any authorized extension of time. By March 1, 20**26** the applicant shall notify the Chief Engineer that construction of the works for diversion has been completed, on the form provided by the Chief Engineer, as required by K.A.R. 5-8-4e.
   ☒ Applicable ☐ Not Applicable
9. **The completed well log shall be submitted with the required notice.** ☒ Applicable ☐ Not Applicable
10. All diversion works into which any type of chemical or other foreign substance will be injected into the water shall be equipped with an in-line, automatic, quick-closing check valve capable of preventing pollution of the source of the water supply. The check valve(s) shall be installed, operated and maintained in accordance with K.A.R. 5-3-5c. ☒ Applicable ☐ Not Applicable
11. Additional Conditions are attached. ☒ Yes ☐ No
12. In accordance with K.S.A. 82a-708a, as amended, and K.A.R. 5-5-14, all of the owners of the authorized place(s) of use of water appropriated under the above-referenced file number are responsible for compliance with its terms, conditions and limitations, as amended and/or supplemented by this Summary Order, and with applicable provisions of the *Kansas Water Appropriation Law* and the *Rules and Regulations* promulgated thereunder. Failure to comply with these provisions may result in civil penalties pursuant to K.S.A. 82a-737, as amended, and/or the suspension or revocation and dismissal of the water or appropriation right or any other enforcement actions authorized by law.

Administrative Appeal and Effective Date of Order

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

For Use by Register of Deeds

FOR OFFICE USE ONLY

APPLICATION APPROVED AND SUMMARY ORDER ISSUED

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

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

Date of Issuance: February 20, 2025

State of Kansas)
) SS
County of Jimney)

Acknowledged before me on February 20, 2025

by Michael A. Meyer.

Signature: Julie Jones
Notary Public

My commission expires: (Notary Seal)

STATE OF KANSAS NOTARY PUBLIC
JULIE JONES
My Appointment Expires
December 15, 2026

ADDITIONAL CONDITIONS TO
SUMMARY ORDER APPROVING APPLICATION FOR CHANGE
AND IMPOSING CONDITIONS,
Water Right, File Nos. 22,249

The effective date of the change shall be the date this order is executed by the Chief Engineer, after which the following condition is included as a condition of the approval of this application for change in point of diversion.

This order effectively reduces the authorized maximum rate of diversion to a rate not to exceed 1,185 gallons per minute (2.64 c.f.s.) from the authorized point of diversion described herein.

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

(Print Name): Michael A. Meyer
Division of Water Resources Kansas Department of Agriculture

Dated of Issuance: February 20, 2025

State of Kansas)
) SS
County of Finney)

Acknowledged before me on the 20th day of February 2025
By Michael A. Meyer

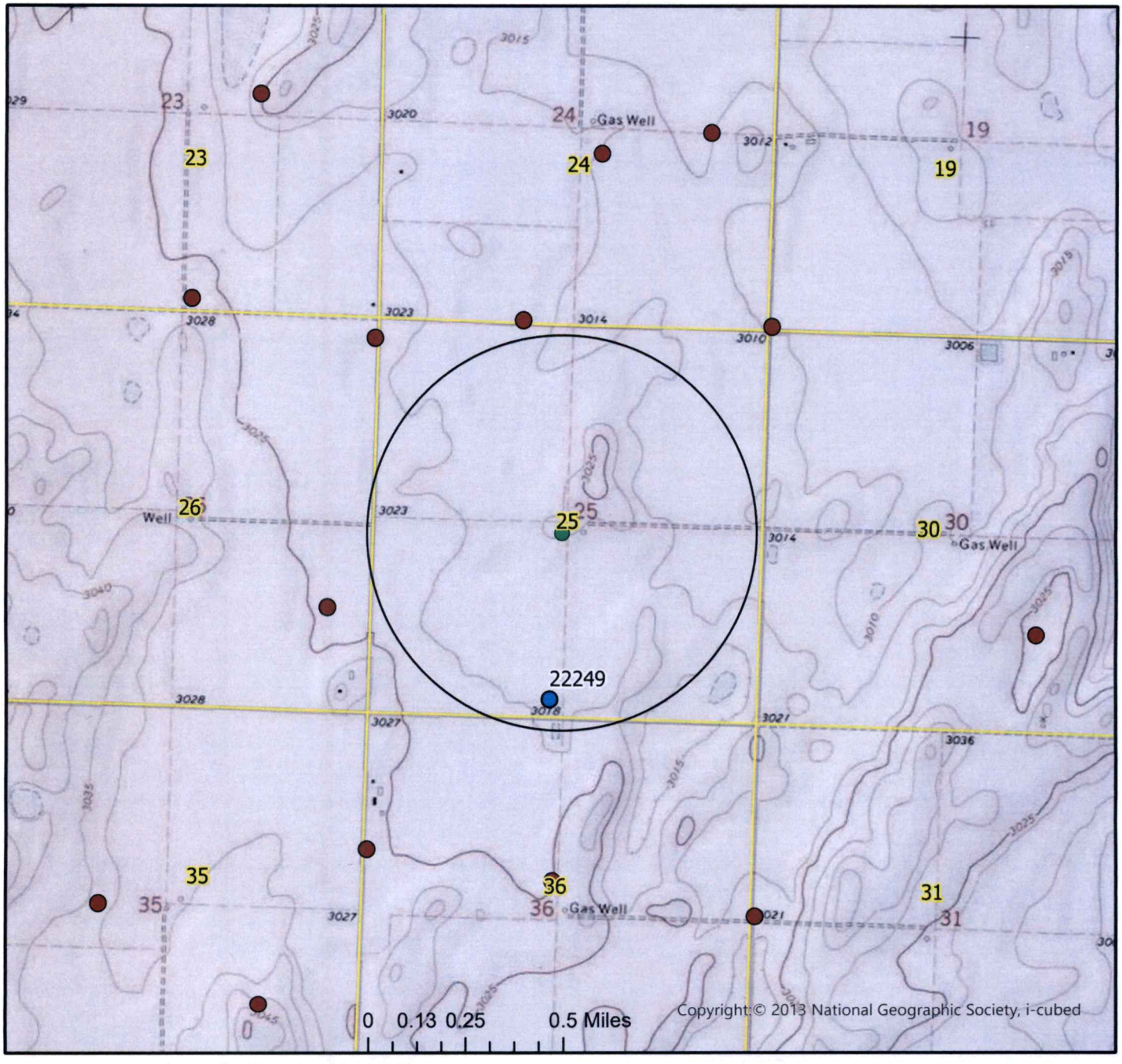
Signature Julie Jones
Notary Public

My Commission expires: (Notary Seal)

STATE OF NOTARY PUBLIC
JULIE JONES
My Appointment Expires
December 15, 2026

CHANGE IN POINT OF DIVERSION WATER RIGHT, FILE NO. 22249

SW1/4 of Section 25 Township 33 South Range 36 West Stevens County



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

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

N
W E
S

By signing below I agree that all wells, including domestic, and owners names and addresses within 1/2 mile of the proposed point of diversion have been shown on the map

(Signature) Date

AM/GCFO
1:24,000 Scale

WELL LOG

DATE: 9/4/2024

Downey Drilling Inc.

CUSTOMER NAME: TRENT SLOCUM TH#1

LEGAL: SW 25-33S-36W

COUNTY: STEVENS CO, KS

GPS: 37.147923

101.185068

DRILLER: ROCKY WO: 24-256

V	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	4	TOP SOIL	SOFT	BROWN	FAST		SMOOTH
	4	15	FINE SAND	SOFT	YELLOW	FAST		SMOOTH
	15	19	SANDY CLAY	SOFT	BROWN	FAST		SMOOTH
	19	56	FINE SAND	SOFT	BROWN	FAST		SMOOTH
	56	59	SANDY CLAY	SOFT	BROWN	FAST		SMOOTH
	59	68	FINE SAND	SOFT	BROWN	FAST		SMOOTH
	68	112	FINE-MED-COARSE SAND W/ FINE GRAVEL	STIFF		FAST		FAST CHATTER
	112	136	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	136	150	SANDY CLAY W/ LIME ROCK	SOFT	ORANGE WHITE	FAST		CHOPPY
	150	183	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	183	186	FINE SAND	SOFT	BROWN	FAST		VIBRATION
	186	203	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	203	215	FINE SAND	STIFF	BROWN	FAST		VIBRATION
	215	237	FINE-MED-COARSE SAND	STIFF		FAST		FAST CHATTER
	237	260	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	260	338	FINE-MED-COARSE SAND W/ LIME ROCK	STIFF	WHITE	FAST		FAST CHATTER
	338	344	GREEN CLAY	SOFT	GREEN	FAST		SMOOTH
	344	395	FINE-MED-COARSE SAND	STIFF		FAST		FAST CHATTER
	395	402	SANDY CLAY	SOFT	BROWN	FAST		SMOOTH
	402	419	FINE-MED-COARSE SAND W/ LIME ROCK	STIFF		FAST		CHOPPY
	419	437	RED CLAY	SOFT	RED	FAST		SMOOTH
	437	453	FINE SAND	SOFT		FAST		CHOPPY
	453	529	FINE-MED-COARSE SAND	STIFF		FAST		CHOPPY
	529	580	RED BED	FIRM	RED	SEMI SLOW		CHOPPY
			QG - 4					
			WATER LOADS - 2					
			SA - 1/4					
			HOLE PLUG - 2					
			CS - 1					

Century GEOPHYSICAL CORP.

TRENT SLOCUM

COMPANY	: DOWNEY DRILLING INC			OTHER SERVICES:	
WELL	: TRENT SLOCU TH#1-24				
LOCATION/FIELD	:				
COUNTY	: STEVENS CO				
LOCATION	: SW ,				
SECTION	: 25	TOWNSHIP	: 33S	RANGE	: 36W
DATE	: 09/04/24	PERMANENT DATUM	: GL		
DEPTH DRILLER	: 580			KB	:
LOG BOTTOM	: 578.30	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 1.00	DRL MEASURED FROM:	GL	GL	: 2820
CASING DIAMETER	:	LOGGING UNIT	: 2310		
CASING TYPE	: SURFACE	FIELD OFFICE	:		
CASING THICKNESS:		RECORDED BY	: ROCKY		
BIT SIZE	: 6.25	BOREHOLE FLUID	: MUD	FILE	: ORIGINAL
MAGNETIC DECL.	: 0	RM	: .179	TYPE	: 8144A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 68.5	LGDATE	: 09/04/24
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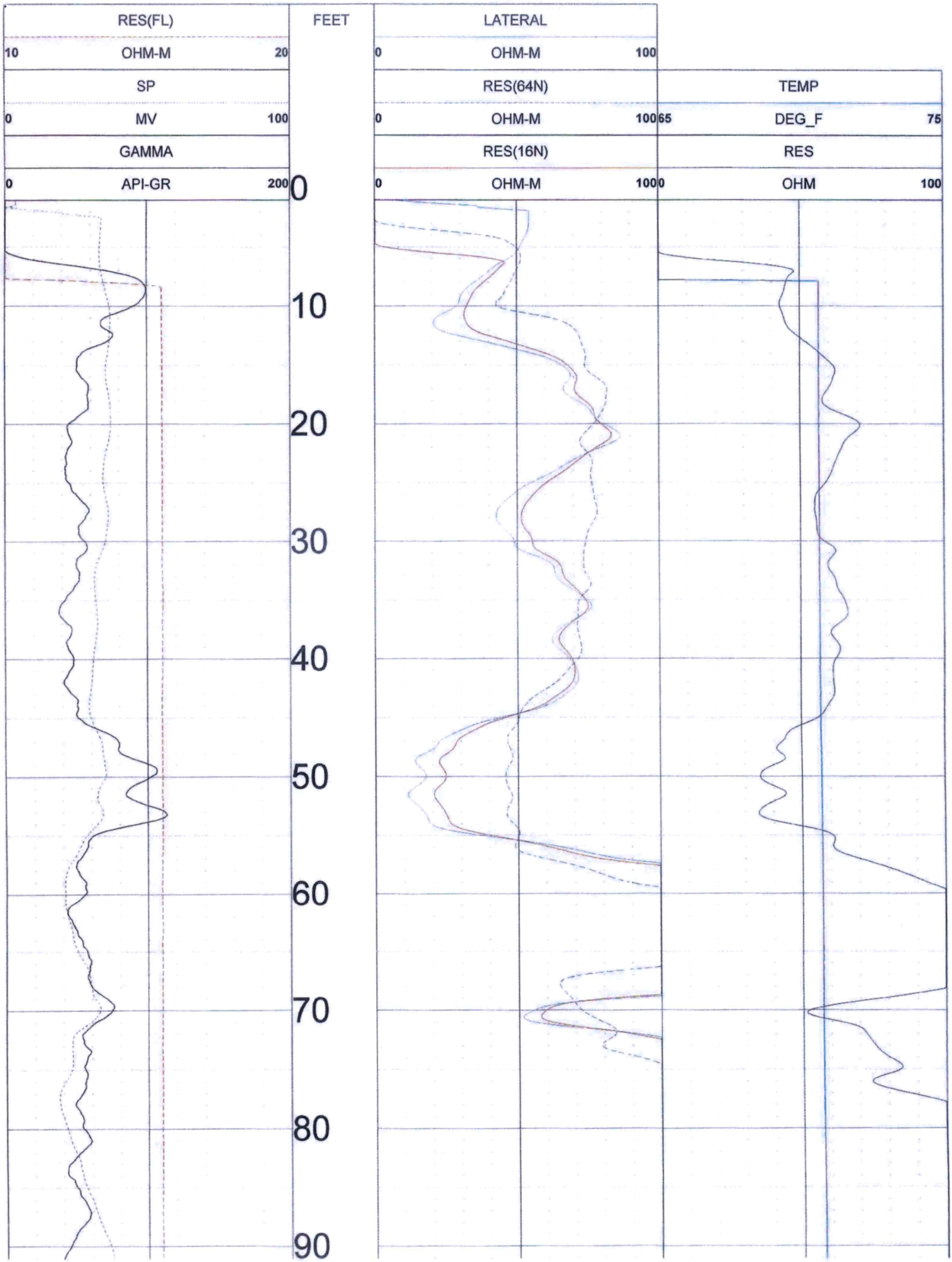
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0 MV 100
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0 API-GR 200
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LATERAL
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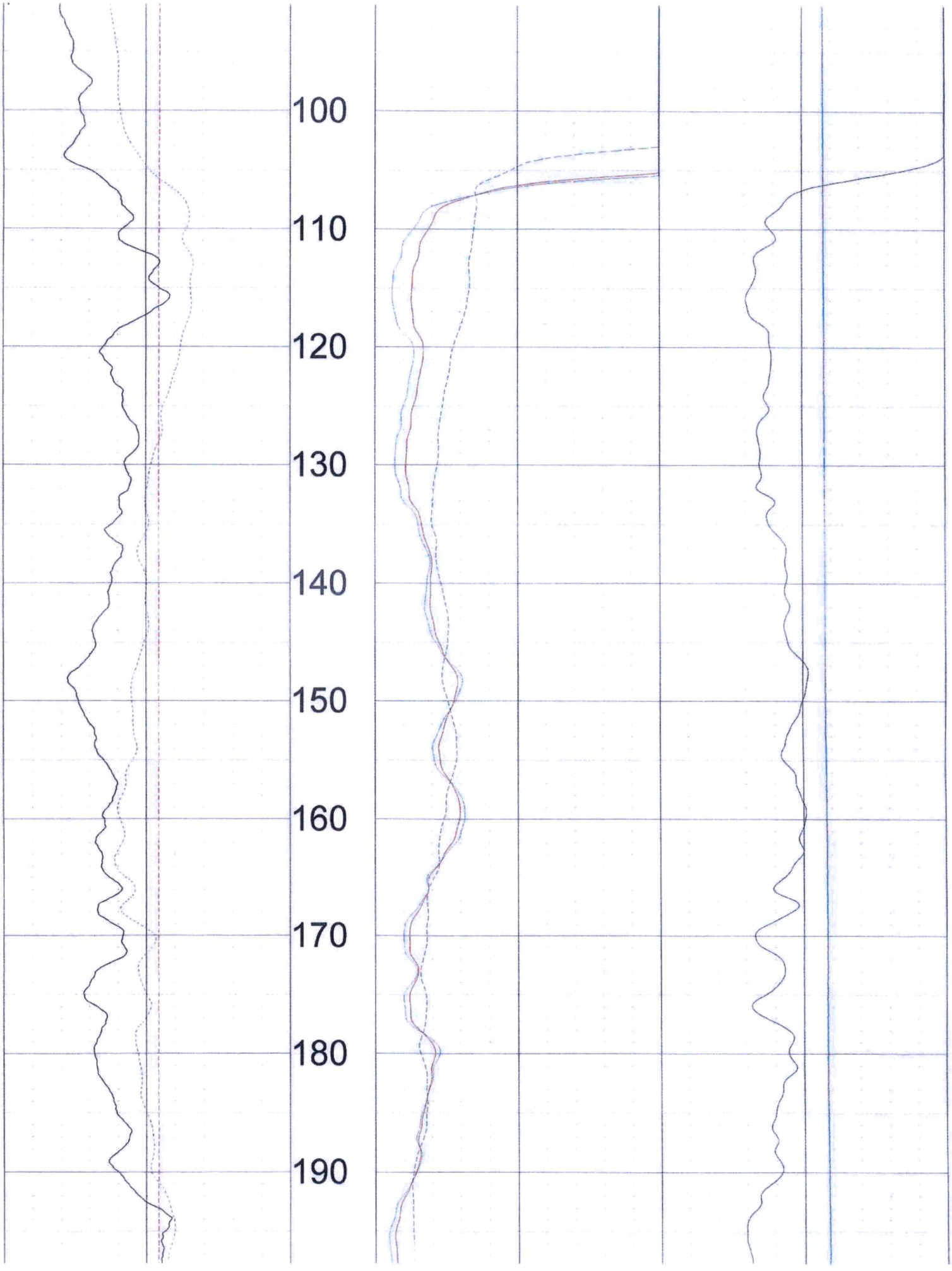
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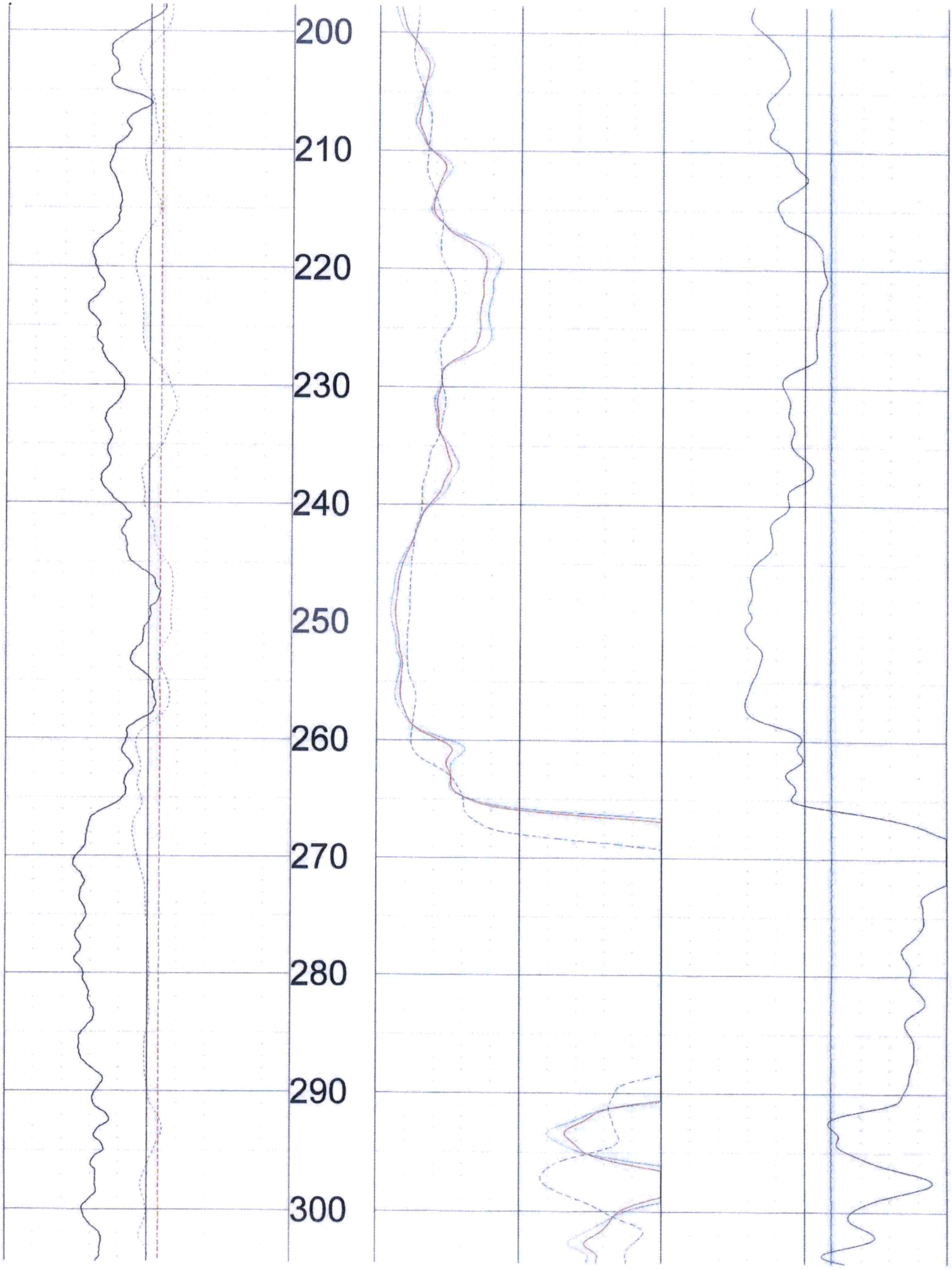
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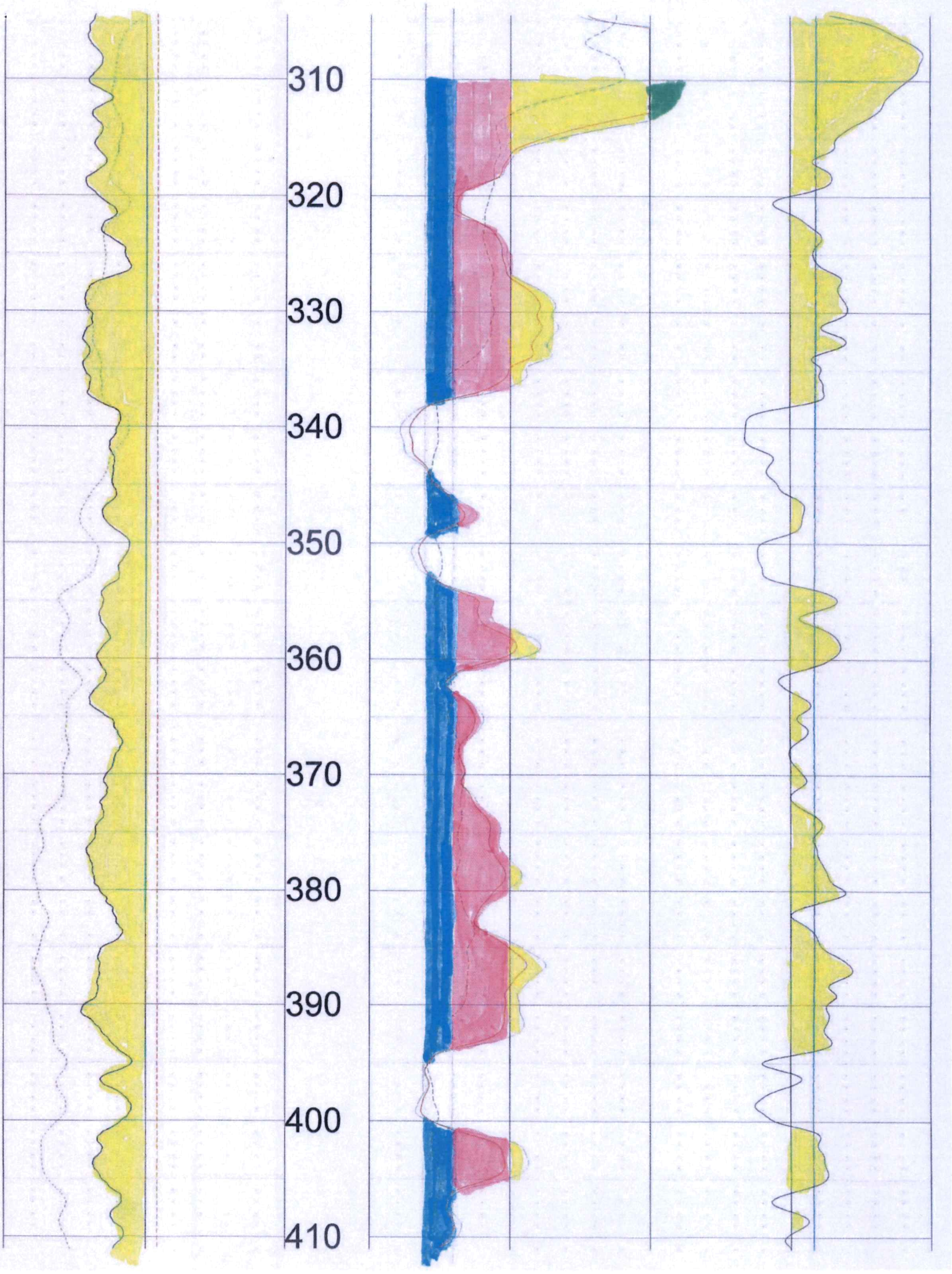
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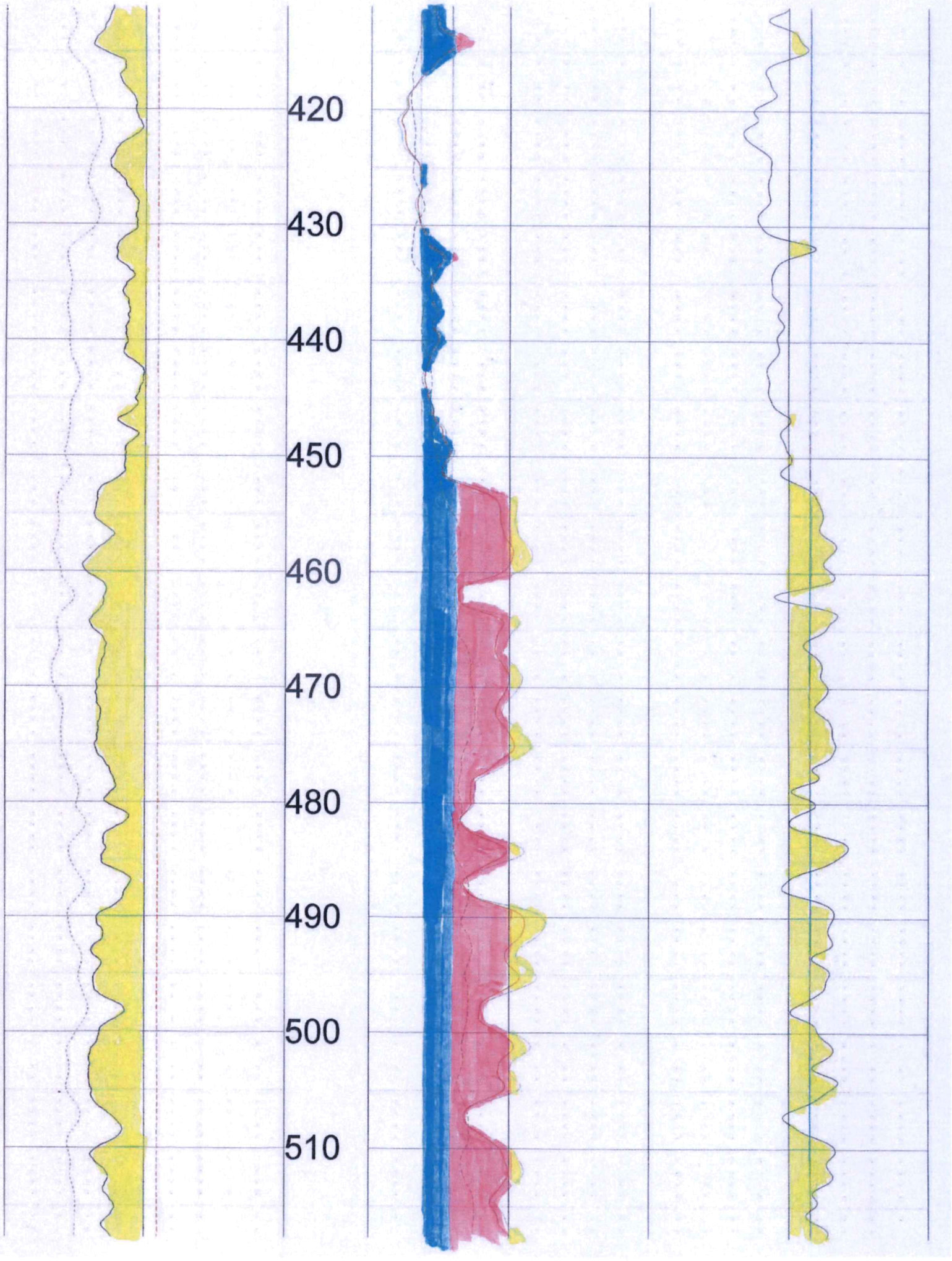
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450
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470
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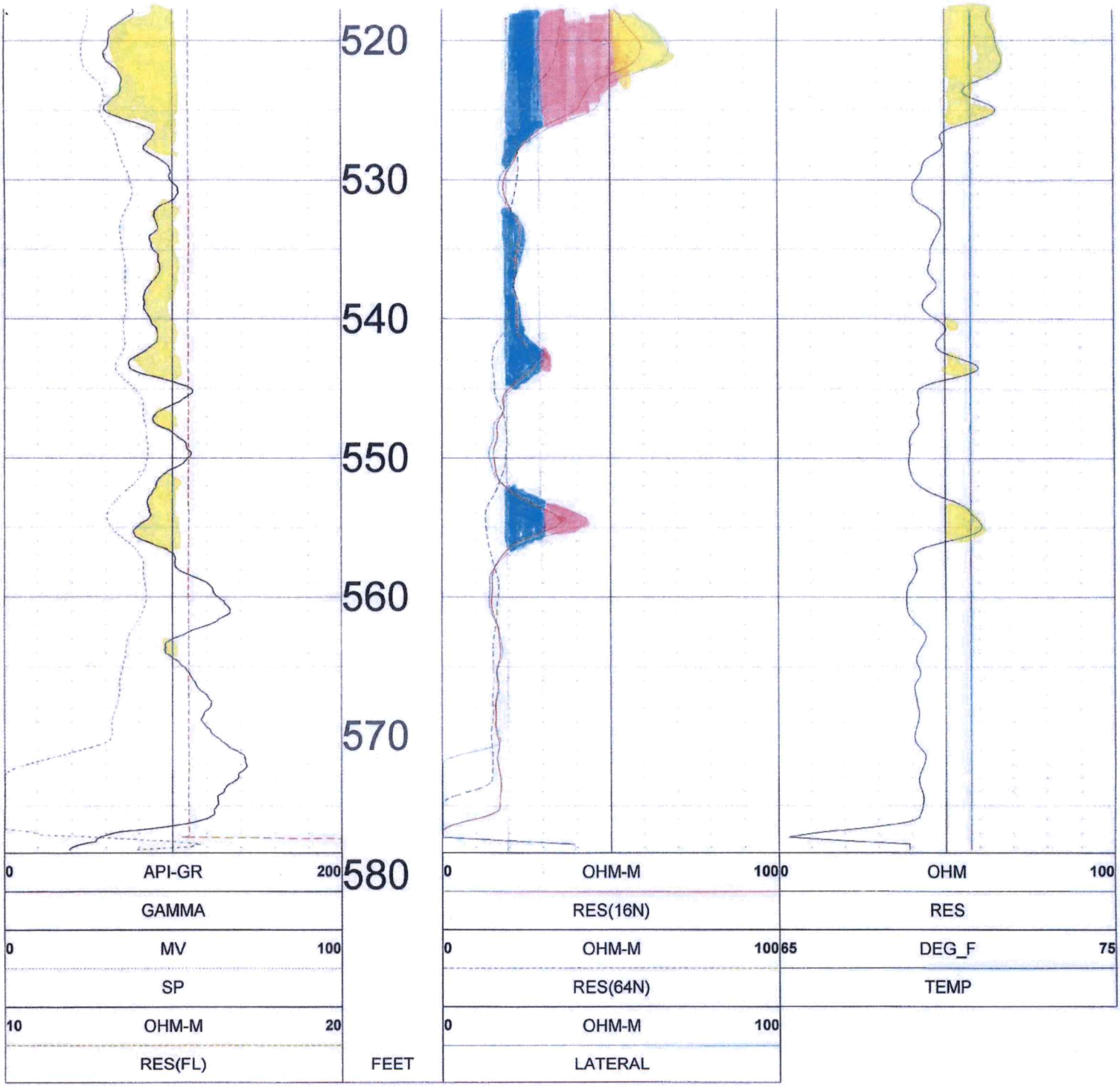
500
510


520
530
540
550
560
570
580
0 API-GR 200
GAMMA
0 MV 100
SP
10 OHM-M 20
RES(FL)
FEET
0 OHM-M 100
RES(16N)
0 OHM-M 100
RES(64N)
0 OHM-M 100
LATERAL
0 OHM 100
RES
65 DEG_F 75
TEMP

TOOL CALIBRATION TRENT SLOCUS 09/04/24 21:44
TOOL 8144A TM VERSION 3002
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]

Meyer, Mike [KDA]

Subject: FW: agreement
Attachments: Flow Rate Reduction Form.pdf

From: darin heger <darin3456@gmail.com>
Sent: Wednesday, February 19, 2025 6:56 PM
To: Meyer, Mike [KDA] <Mike.Meyer@ks.gov>
Subject: Re: agreement

Here you go.
I am agreeing to the proposed reduction in the flow rate of this point of diversion, from 1770 gpm to 1185 gpm.

LIMITED POWER OF ATTORNEY

Lazy T Land & Cattle Co. LLC.

I, By: Emmagene Thomas (Please Print), owner of Water Right/Appropriation of Water, File No. 22,249, do hereby authorize Marlin and/or Darin Heger (Please Print) to act as my representative in the matter of the proposed application for approval to change the point of diversion and/or place of use under the aforementioned water right/appropriation of water. This authorization is limited to this matter and no other.

February 17, 2006
Date

Emmagene Thomas
Signature

State of Kansas)
) SS
County of Stevens)

I hereby certify that the foregoing Limited Power of Attorney was signed in my presence and sworn to before me this 17th day of February, 2006.

GARY L. BAKER
Notary Public - State of Kansas
My Appt. Expires 10-28-06

Gary L. Baker
Notary Public

My Commission Expires 10-28-06.

MICROFILMED

RECEIVED
APR 04 2006
Garden City Field Office
Division of Water Resources

WATER RESOURCES
RECEIVED
FEB 23 2006
KS DEPT OF AGRICULTURE

ADDENDUM TO APPLICATIONS TO CHANGE THE PLACE OF USE
WATER RIGHT, FILE NOS.
10,189 15,570
22,249 32,000

The owners of the following water rights request this addendum be accepted by the Chief Engineer and be made a matter of record in the files of the Division of Water Resources for the purposes expressed herein.

That Marlin & Erma Heger are the owners of the land authorized under Water Right, File No(s). 10,189, 15,570, 22,249 & 32000.

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	ACRES
25	33	36W									40	40	40	40					160
26	33	36W	40	40	40	40													160
35	33	36W	40	31	40	40													151
36	33	36W					36	13	36	40	40	36							201

That Lazy T Land & Cattle Co. LLC are the owners of the land authorized under Water Right, File No(s). 10,189, 15,570, 22,249 & 32000.

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	ACRES
36	33	36W											13	36					49

They have made application to change the place of use to combine all of the land authorized into a single place of use under all of the above files. Their applications request the approval of the Chief Engineer as prescribed under K.S.A. 82a-708b. They request the approval include by reference this addendum in order to make it possible for either party to terminate this combined arrangement as agreed. They further agree that this addendum will be binding on any heirs, successors, or assigns to the aforementioned property unless or until the combined arrangement is terminated and the water rights again stand alone.

The undersigned agree that in the event either party desires the termination of this combined arrangement of water rights, either current landowner may act unilaterally to separate the above water right files. They agree and authorize the Chief Engineer to recognize this addendum as authority and consent by both parties on subsequent applications to change the place of use only if said applications to change the place of use are made for the purpose of returning these water rights to the original places of use authorized on the date of signing of this document.

PLEASE NOTE: Signatures of owners are on the back page of this addendum.

This agreement shall be binding upon the heirs, Devisees, legatees, executors, administrators, guardians, conservators, trustees and assigns all parties.

LAZY T LAND & Cattle Co, L.L.C.

By: Emmagene Thomas
Signature **Signature**

Marlin Heger
Signature **Signature**

Edna Heger
Signature **Signature**

State of Kansas)

County of Stevens)

I hereby certify that the foregoing document was signed in my presence and sworn before me this 17th **day of** February, **20** 06.

GARY L. BAKER
Notary Public - State of Kansas
My Appt. Expires 10-28-06

Gary L. Baker
Notary Public

My commission expires 10-28-06.

MICROFILMED

RECEIVED
APR 04 2006
Garden City Field Office
Division of Water Resources

WATER RESOURCES
RECEIVED
FEB 23 2006
KS DEPT OF AGRICULTURE

S. Thurlow
1/8/2025

Theis evaluation of proposed change in point of diversion, File No. 22,249

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. 22,249. The change proposes relocating the well approximately 2,234 feet North and 108 ft East of the currently authorized location (Figure 1).

The GMD No. 3 groundwater model was used for a projected future (2068) saturated thickness (138.2 ft). The average of model cells located within Township 33 South, Range 35 West, Sections 19, 30, 31, and Township 33 South, Range 36 West, Sections 23, 24, 25, 26, 35, 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 1.0 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. 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, five lithological logs were evaluated (Figure 4, Tables 1-5), with an average transmissivity of 3,418 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 0.00164. The average Practical saturated thickness (91.6 ft) was used when calculating the net drawdown as a percentage of saturated thickness (Table 6-9).

Drawdown was evaluated at two nearby irrigation wells authorized by File Nos. 15901 & 20164 and one domestic well located in section 33S-36W-23 (Tables 6-9). A quantity of 790 acre-feet (AF) at a rate of 1,770 gallons per minute (gpm) was compared to the average historic use (305.1 AF, 2013-2023 neglecting the non-use year 2021) at the last recorded pumping rate (902 gpm). The maximum net drawdown occurred at the point of diversion authorized by File No. 20164. The total net drawdown at that distance was 27.0 feet, or 29.4% of the projected future practical saturated thickness (Table 8). If the proposed quantity remains unchanged and the proposed pumping rate is reduced to 1,184 gpm, the maximum net drawdown is 18.3 ft, or 20.0% of the projected future practical saturated thickness at the point of diversion authorized by File No. 20164 (Table 9).

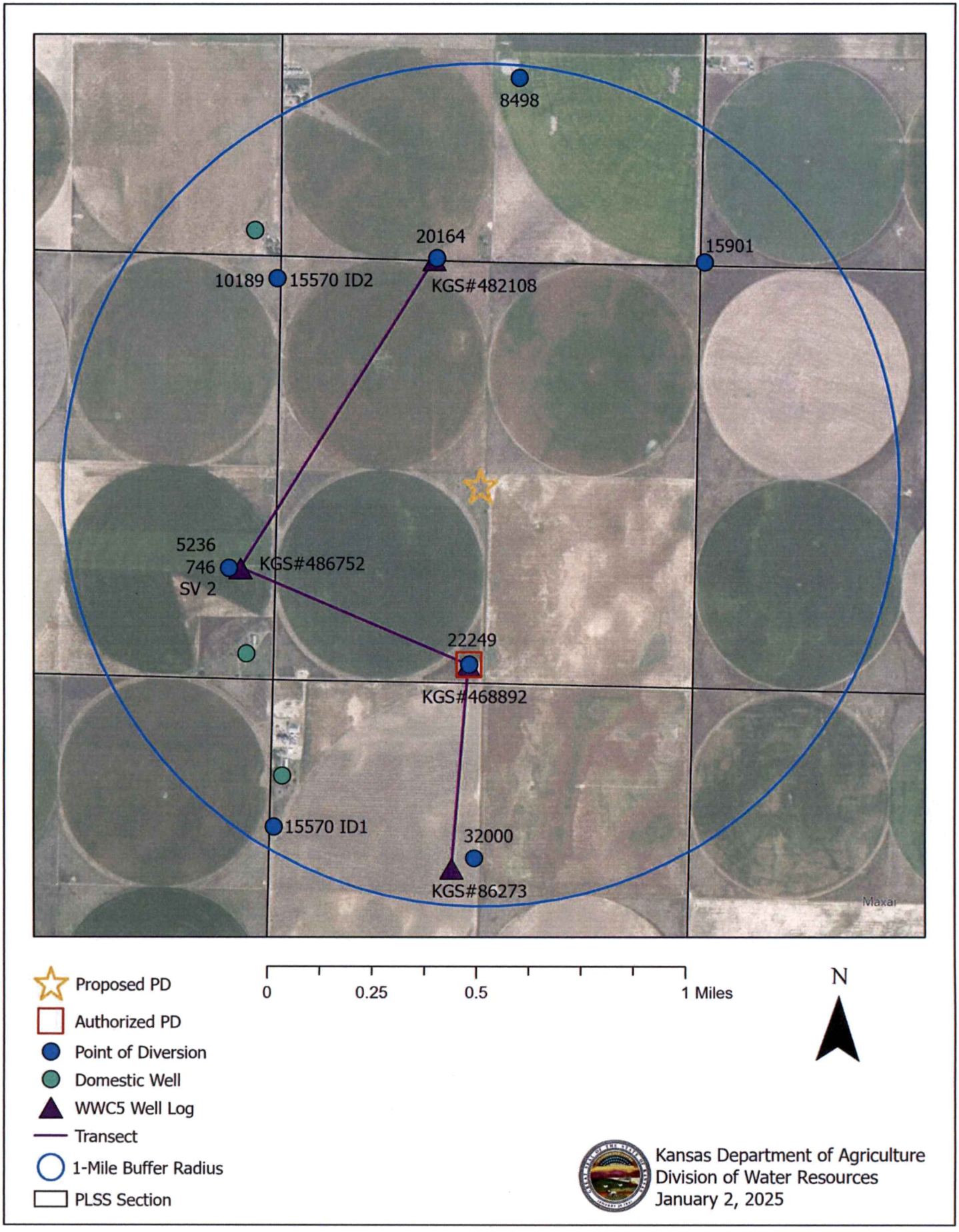


Figure 1: Location of current and proposed point of diversion, surrounding points of diversion, and WWC5 records

Table 1. PST+ synonymy codes and lithology descriptions.

Synonymy	Lithology	Synonymy	Lithology	Synonymy	Lithology
sh	Shale	sc	Sandy Clay or Silty Sand	fsnd	Fine Sand
c	Clay	fds	Fine Sandy Silt	fmgsnd	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	fcrssnd	Fine to Coarse Sand
r	Rock	mds	Medium Sandy Silt	msnd	Medium Sand
sst	Siltstone	gc	Gravelly Clay	mcrssnd	Medium to Coarse Sand
ca	Limestone/caliche	mcrsds	Medium to Coarse Sandy Silt	cg	Clayey Gravel
o	Overburden	crsds	Coarse Sandy Silt	crssnd	Coarse Sand
ts	Topsoil	cesd-cg	Cemented Sand and/or Gravel	sg	Silty Gravel
fs	Fine Silt	fss	Fine Silty Sand	fsdg	Fine Sand and Gravel
fsc	Fine Sandy Clay	fmss	Fine to Medium Silty Sand	fmsdg	Fine to Medium Sand and Gravel
fmsc	Fine to Medium Sandy Clay	ss	Silty Sand	msdg	Medium Sand and Gravel
m	Marl or Ochre	mss	Medium Silty Sand	sdg	Sand and Gravel
msc	Medium Sandy Clay	fcrsss	Fine to Coarse Silty Sand	fcrssdg	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
fcrssc	Fine to Coarse Sandy Clay	u	Unknown (most likely unintelligible)	fg	Fine Gravel
mcrssc	Medium to Coarse Sandy Clay			fmg	Fine to Medium Gravel
				fcrsg	Fine to Coarse Gravel
				fcrssg	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	fmgsnd	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	fcrssnd	63	0.24
r	0.00004	0.05	mds	4.4	0.08	msnd	63	0.24
sst	0.00004	0.05	gc	4.4	0.08	mcrssnd	63	0.24
ca	0.0001	0.08	mcrsds	4.4	0.08	cg	63	0.24
o	0.0001	0.08	crsds	4.4	0.08	crssnd	63	0.29
ts	0.0001	0.08	cesd-cg	14.5	0.16	sg	63	0.29
fs	0.0001	0.08	fss	14.5	0.16	fsdg	299	0.29
fsc	0.0001	0.08	fmss	14.5	0.16	fmsdg	299	0.29
fmsc	0.0001	0.08	ss	14.5	0.16	msdg	299	0.29
m	0.0001	0.08	mss	14.5	0.16	sdg	299	0.29
msc	0.0001	0.08	fcrsss	14.5	0.16	fcrssdg	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
fcrssc	0.0001	0.08	u	14.5	0.16	fg	299	0.29
mcrssc	0.0001	0.08				fmg	299	0.29
						fcrsg	299	0.29
						fcrssg	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

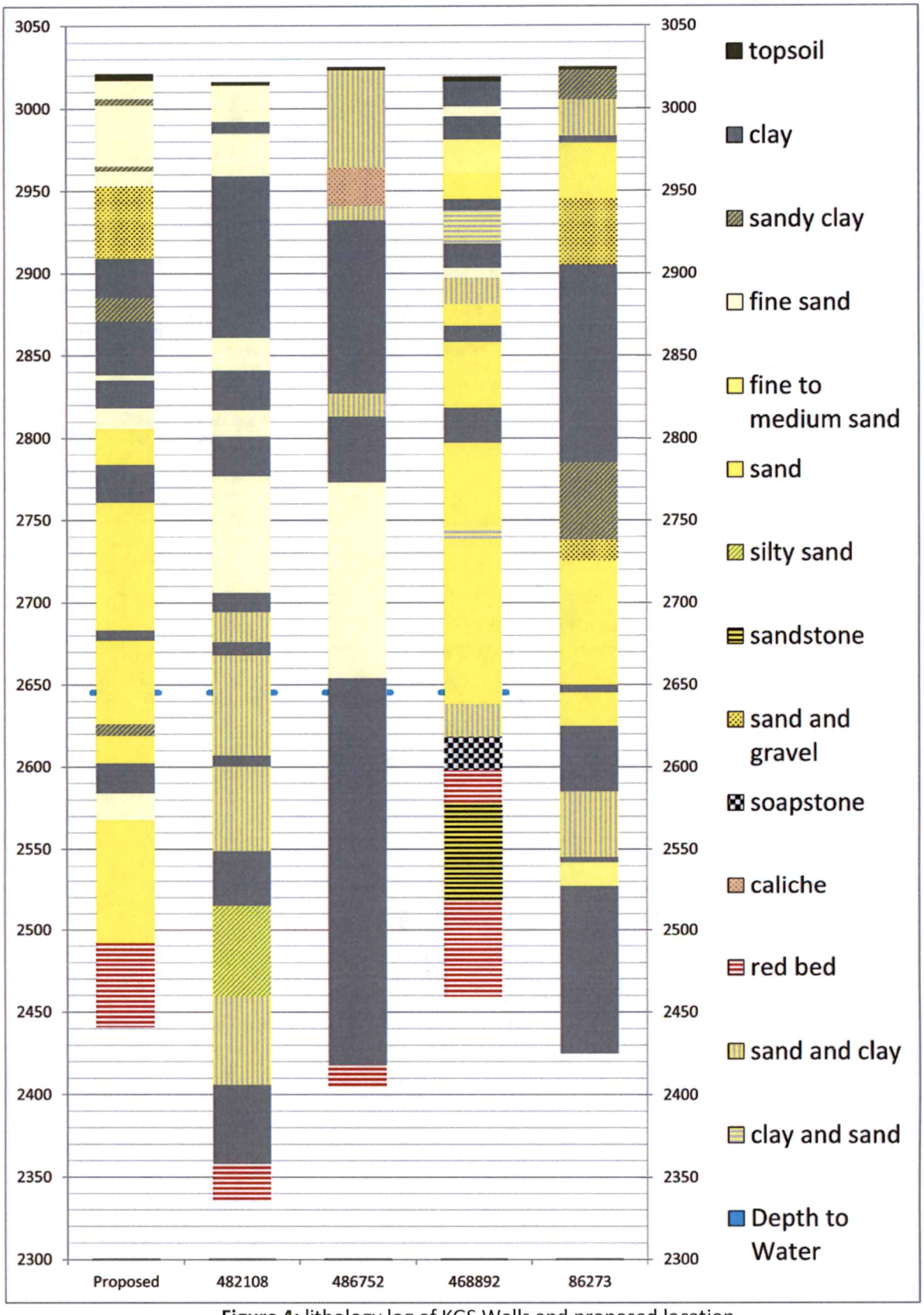


Figure 4: lithology log of KGS Wells and proposed location

Table 1: Lithology of the Proposed Well location

	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet^2/day)
Top soil	Above water surface			
Fine sand				
Sandy clay				
Fine sand				
Sandy clay				
Fine sand				
Fine-med-coarse sand w/ fine gravel				
Brown clay				
Snay clay w/ lime rock				
Brown clay				
Fine sand				
Brown clay				
Fine sand				
Fine-med-coarse sand				
Brown clay				
Fine-med-coarse sand w/ lime rock				
Green clay				
Fine-med-coarse sand	snd	100	19	1197.0
Sandy clay	Sc	100	7	30.8
Fine-med-coarse sand w/ lime rock	Snd, ca	70, 30	17	749.7
Red clay	C	100	18	0.0
Fine sand	Fsnd	100	16	240.0
Fine-med-coarse sand	Snd	100	76	4788.0
Red bed	rb	100	51	0.0
			Total Transmissivity:	7005.5

Table 2: Lithology, KGS Well ID 482108

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet²/day)
surface				
sand, fine				
brown clay				
sand, fine				
brown clay, caliche, few sand				
brown-white clay				
sand, fine to small				
brown-white clay				
sand, fine to small				
brown clay, few limerock				
sand, fine to small				
brown-white clay				
sand, fine, some clay				
brown clay				
sand, fine, few small, some clay	fsnd, c	70, 30	38	399.0
brown clay	cbown c	100	7	0.0
sand, fine to small, with thin clay	fsnd, c	70, 30	51	535.5
red-brown clay	c	100	15	0.0
red-brown clay, few limerock	c, ca	70, 30	19	0.0
sand, silty to fine	ss, fsnd	50, 50	56	826.0
sand, fine to small, with thin clay	fsnd, c	70, 30	53	556.5
red clay, limerock	c, ca	60, 40	48	0.0
red bed	rb	100	22	0.0
			Total Transmissivity:	2317.0

Table 3: Lithology, KGS Well ID 486752

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet²/day)
surface				
fine sand, thin clays				
brown, caliche, limestone				
sand fine, sluffing clays				
brown clay, limestone, thin sands				
sand fine (sluffing clays)				
brown clay				
sand fine, med				
brown clay, lime rock, (firm) (sluffing clays)	c, ca	60, 40	41	0.0
red clay, lime rock, sluffing sands	c, ca, snd	50, 30, 20	186	2343.6
red bed	rb	100	13	0.0
			Total Transmissivity:	2343.6

Table 4: Lithology, KGS Well ID 468892

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet^2/day)
surface				
brown clay				
brown clay, caliche strips				
fine sand, silt				
brown clay, sticky				
fine to medium sand, few coarse, loose				
sand, fine to medium coarse, loose				
brown clay				
brown clay, sand strips 30%				
brown clay				
fine sand				
brown sand clay				
sand, fine to medium coarse, loose				
brown clay, caliche, limestone ledges				
sand, fine to medium coarse, loose				
sand, fine to medium coarse, fairly loose				
brown clay, sticky				
sand, fine to medium coarse, loose				
brown clay, sand strips 30%				
sand, fine to medium coarse, loose	snd	100	7	441.0
sand, fine to medium coarse, loose, thin clay	snd, c	60, 40	20	756.0
soapstone, yellow soapstone, few sand strips	ca, snd	80, 20	20	252.0
red bed, hard sandstone streaks	rb, ds	80, 20	20	17.6
sandstone, strips fairly loose, red bed	ds, rb	60, 40	60	158.4
red bed, sandstone ledges	rb, ds	80, 20	30	26.4
red bed, sticky	rb	100	29	0.0
			Total Transmissivity:	1651.4

Table 5: Lithology, KGS Well ID 86273

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet^2/day)
top soil				
brown sandy clay with a few fine sand streaks				
sand fine to med with a few clay sts.				
brown clay				
sand fine to med with a few coarse				
sand fine to med coarse with small to large gravel				
brown clay - sticky				
brown clay, limerock sts with very few fine sand streaks				
brown clay with a few limerock sts.				
brown sandy clay with very few fine sand streaks				
sand fine to med coarse with small gravel. Loose - used water				
sand fine to med coarse. Loose - used water				
brown clay				
sand fine to med coarse. Loose - used water	snd	100	20	1260.0
brown clay with a few red clay sts.	c	100	40	0.0
sand fine to med coarse and very few clay sts. Loose used water	snd, c	90, 10	40	2268.0
brown clay	c	100	3	0.0
sand fine to med. Loose - used some water	fmsnd	100	15	225.0
brown and red clay	c	100	2	0.0
red clay	c	100	20	0.0
red clay with a few sandstone sts. Used very little water	c, ds	80, 20	20	17.6
red clay	c	100	60	0.0
			Total Transmissivity:	3770.6

Table 6: Theis drawdown evaluated at Dom. Well in 33S36W23; T = 3,418 ft²/day, S = 0.0016

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	4284.5	1770.0	790.0	35.3	38.5%
Baseline	6059.7	902.0	305.1	13.1	14.3%
			Net:	22.2	24.2%

Table 7: Theis drawdown evaluated at File No. 15,901; T = 3,418 ft²/day, S = 0.0016

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	3972.2	1770.0	790.0	36.4	39.8%
Baseline	5844.5	902.0	305.1	13.3	14.6%
			Net:	23.1	25.2%

Table 8: Theis drawdown evaluated at File No. 20,164; T = 3,418 ft²/day, S = 0.0016

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	2902.6	1770.0	790.0	41.4	45.1%
Baseline	5096.7	902.0	305.1	14.4	15.7%
			Net:	27.0	29.4%

Table 9: Theis drawdown evaluated at File No. 20,164; T = 3,418 ft²/day, S = 0.0016; Rate = 1,184 GPM

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	2902.6	1184.0	790.0	32.7	35.7%
Baseline	5096.7	902.0	305.1	14.4	15.7%
			Net:	18.3	20.0%

WATER MANAGEMENT
FOR SOUTHWEST
KANSAS
GMD3

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

September 24, 2024

Michael A. Meyer
Division of Water Resources
4532 W Jones Ave., Suite B
Garden City, Kansas 67846

RE: Application for Change in Point of Diversion
Water Right, File Nos. 22249

Dear Mike:

We have completed a review of the application for the above referenced water right. The proposed change in point of diversion is in accordance with current area rules, K.A.R. 5-23-3, as it pertains to 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. The conclusions of the well analysis may change if better information on well and aquifer data can be made available.

Every neighboring well within 1 mile of the proposed move was evaluated. Evaluations showed that some of the neighboring wells exceeded the net effect above the maximum allowable threshold and needed further evaluation. Critical wells were determined possible in the area if the proposed well pumped at full authority. Part of the effects can also be attributed to the transmissivity varies significantly in the area. The saturated thickness also varies in the area. We did not receive any comments from neighboring well owners. Therefore, GMD3 sees these moves as meeting current rules and would recommend approval with if the State agrees with our analysis to ensure that neighboring wells are not adversely affected. If aquifer conditions change or there is a change to the water right in the future, we would be happy to evaluate the effects at that time.

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

Sincerely,

Jason L. Norquest
Assistant Manager

GMD3 Change Review

File No(s).: 22249. DWR office: GC.
App filed to change: PD.
Is Landowner(s) correct in WRIS: Marlin Heger.
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) 02 being changed.

	ft. North	ft. West	
Authorized PD	247	2825	Sect 25-33-36
Proposed PD	2481	2717	
Difference	-2234 n	108 e	
a2 + b2 = c2	4990756	11664	2236.609 foot move NE

GPS

for proposed PD: Lat: 37.147923 Long: -101.185068.
Is proposed PD stacking on existing WRs? No.
Is Proposed PU overlapping existing WRs? No Change.
Neighboring certified well(s) notified: __.
Name Paul Nix (15901).
Address 1246 Road 22.
Zip Hugoton, KS 67951.
Email: mkmfarms95@gmail.com

Name Ryan Hamlin (20164).
Address 1566 Road 26.
Zip Hugoton, KS 67951.
Email: hfp1@pld.com

Domestic well(s) notified: __.
Name Jonathan & Ashley Pearcy.
Address 1203 Road 21.
Zip Hugoton, KS 67951.

Name .
Address .
Zip .

Base Acres: __.
Perfected Acres: __.
Irr. Return-Flow ___%
Stevens County

GMD3 Change Review

Authorized: 790AF @ 1770gpm. Limited to 1430AF w/10189 & 15570.
Minimum spacing to neighboring wells would be 2300'
Avg reported use (2014-2023): 304AF/year (excluded 2021 with no use reported)
Current well drilled to 506' in 2013
Proposed depth: 580'
Well not running during most recent GMD3 inspection

Is a waiver needed: Move is less than half mile. Minimum spacing to neighboring wells appears met. Analysis does show possible critical wells due to the areas saturating thickness, if the well could pump at full authority. All but one of the possible critical wells is owned/operated by the applicant.
Recommendation: After review of all information, it appears current area rules are met. There were critical wells determined possible due to the saturation of the area already and if well has the ability to pump full authority. Staff would recommend approval if DWR is satisfied that no unreasonable effects would happen.

JR

Report Date: Saturday, September 21 2024

Water Rights and Points of Diversion Within 1 mile of point defined as:
2481 Feet N and 2717 Feet W of the Southeast Corner of Section 25 Twp 33S Rng 36W
Located at: 101.185069 West Longitude and 37.147922 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	Unit
A 746	00	IRR	NK	G	3201	--	SE	NE	SE	1409	434	26	33	36W	3		400.00	400.00	AF
A 5236	00	IRR	NK	G	3201	--	SE	NE	SE	1409	434	26	33	36W	3		272.00	272.00	AF
A 8498	00	IRR	NK	G	5121	--	NW	NW	SE	-----	-----	24	33	36W	1		640.00	640.00	AF
A 10189	00	IRR	NK	G	3653	--	NE	NE	NE	5040	48	26	33	36W	2		640.00	640.00	AF
A 15570	00	IRR	NK	G	3653	--	NE	NE	NE	5040	48	26	33	36W	2		137.00	137.00	AF
Same					4984	--	NW	SW	NW	3440	5220	36	33	36W	1		595.00	595.00	AF
A 15901	00	IRR	NK	G	4013	--	--	--	--	55	5085	19	33	35W	1		640.00	640.00	AF
A 20164	00	IRR	NK	G	2895	--	SW	SE	SW	20	3368	24	33	36W	5		576.00	.00	AF
A 22249	00	IRR	NK	G*	2238	--	SE	SE	SW	247	2825	25	33	36W	2		790.00	58.00	AF
A 32000	00	IRR	NK	G	4760	--	SE	SE	NW	3000	2690	36	33	36W	3		435.00	10.00	AF
VSV 2	00	IRR	AA	G	3201	--	SE	NE	SE	1409	434	26	33	36W	3		100.00	100.00	AF

Total Net Quantities Authorized:	Direct	Storage
Total Requested Amount (AF) =	.00	.00
Total Permitted Amount (AF) =	.00	.00
Total Inspected Amount (AF) =	.00	.00
Total Pro_Cert Amount (AF) =	.00	.00
Total Certified Amount (AF) =	3392.00	.00
Total Vested Amount (AF) =	100.00	.00
TOTAL AMOUNT (AF) =	3492.00	.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:
2481 Feet North and 2717 Feet West of the Southeast Corner of Section 25 Twp 33S Rng 36W
Located at: 101.185069 West Longitude and 37.147922 North Latitude
Both SURFACE WATER and GROUNDWATER
WATER USE CORRESPONDENTS:

File Number	Use	ST	SR
> MARLIN & ERMA HEGER			
>			
> 1080 ROAD 21			
> HUGOTON KS 67951			
>----------			
> MARLIN & ERMA HEGER			
>			
> 1080 ROAD 21			
> HUGOTON KS 67951			
>----------			
> DOUGLAS MILLS			

>

> 979 ROAD 22
> HUGOTON KS 67951

8408

>---

> MARLIN & ERMA HEGER
>
> 1080 ROAD 21
> HUGOTON KS 67951

1189

>---

> MARLIN & ERMA HEGER
>
> 1080 ROAD 21
> HUGOTON KS 67951

15520 Applicant

>---

> PAUL NIX
>
> 1246 ROAD 22
> HUGOTON KS 67951

1590

>---

> RYAN HAMLIN
>
> 1566 ROAD 26
> HUGOTON KS 67951

20161

>---

> MARLIN & ERMA HEGER
>
> 1080 ROAD 21
> HUGOTON KS 67951

22249 Applicant

>---

> MARLIN & ERMA HEGER
>
> 1080 ROAD 21
> HUGOTON KS 67951

32000 Applicant

>---

> MARLIN & ERMA HEGER
>
> 1080 ROAD 21
> HUGOTON KS 67951

542

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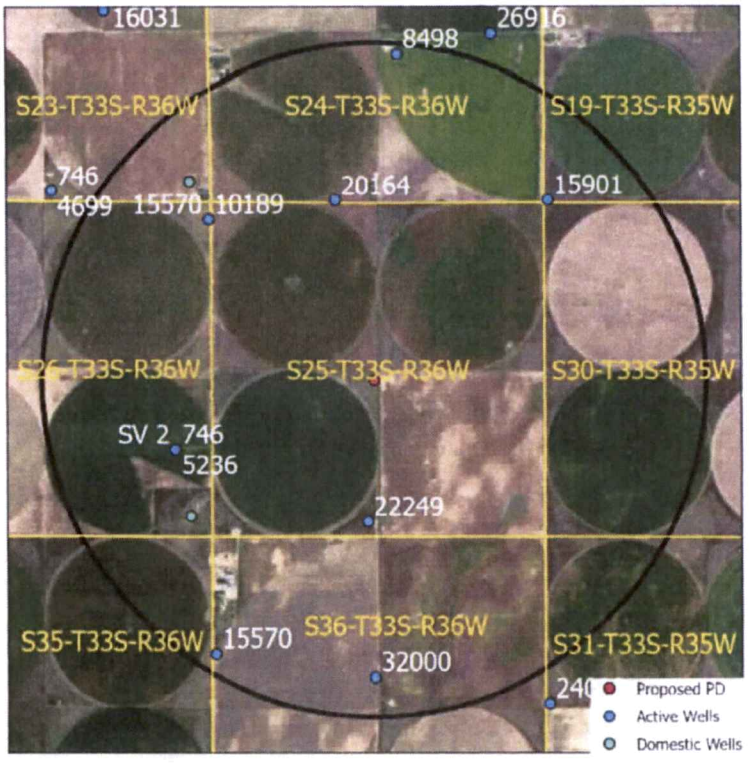
Evaluation of proposed move for Water Right No. 22249

Proposed: Move water right no. 22249 to a new well location, 2,239 ft to the north.



Wells within 1 mile: 10189 & 15570, 20164, 8498, 15901, SV 2 & 746 & 5236, 15570, 32000, a domestic well in section 23-33-36, and a domestic well in section 26-33-36.

The saturated thickness at the proposed well location is estimated to be 218 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 = 0.054, T = 8928 ft^2/day, $tp_{current}$ = 120 days, $Q_{current}$ = 573 gpm, $tp_{proposed}$ = 101 days, $Q_{proposed}$ = 1770 gpm

Theis drawdowns were calculated as follows:

10189 & 15570:	Drawdown from current location = 2.11 ft
	Drawdown from proposed location = 7.32 ft
	Net drawdown = **5.2 ft**
20164:	Drawdown from current location = 2.20 ft
	Drawdown from proposed location = 8.46 ft
	Net drawdown = **6.3 ft**

8498:	Drawdown from current location = 1.74 ft
	Drawdown from proposed location = 4.06 ft
	Net drawdown = **4.1 ft**
15901:	Drawdown from current location = 2.01 ft
	Drawdown from proposed location = 6.95 ft
	Net drawdown = **4.9 ft**
SV 2 & 746 & 5236:	Drawdown from current location = 2.89 ft
	Drawdown from proposed location = 7.72 ft
	Net drawdown = **4.8 ft**
15570:	Drawdown from current location = 2.93 ft
	Drawdown from proposed location = 5.90 ft
	Net drawdown = **3.0 ft**
32000:	Drawdown from current location = 3.42 ft
	Drawdown from proposed location = 6.21 ft
	Net drawdown = **2.8 ft**
Domestic 23-33-36:	Drawdown from current location = 1.97 ft
	Drawdown from proposed location = 6.60 ft
	Net drawdown = **4.6 ft**
Domestic 26-33-36:	Drawdown from current location = 3.15 ft
	Drawdown from proposed location = 7.36 ft
	Net drawdown = **4.2 ft**

Net drawdown exceeds the drawdown allowance for the wells authorized under water right nos. 10189 & 15570, 20164, 8498, 15901, SV 2 & 746 & 5236, the domestic well in section 23-33-36, and the domestic well in section 26-33-36. Critical well analysis was performed for those wells.

Critical Well Evaluation:

10189 & 15570:

Water Column = 136 ft

DP = 5.2 ft (Net drawdown from the proposal indicated above)

DE = 31.2 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DD = 76.1 ft (S = 0.034, T = 3881 ft^2/day, Q = 789 gpm, tp = 107 days, efficiency = 70%)

DT = 112.5 ft

Economic Drawdown Constraint (EDC) = 0.4 * 136 ft = 54.4 ft

Physical Drawdown Constraint (PDC) = 136 ft – 60 ft = 76 ft

Total drawdown of 112.5 ft is greater than the EDC and the PDC, so this well **is critical.**

20164:

Water Column = 136 ft

DP = 6.3 ft (Net drawdown from the proposal indicated above)

DE = 31.2 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DD = 95.0 ft (S = 0.034, T = 3881 ft^2/day, Q = 990 gpm, tp = 97 days, efficiency = 70%)

DT = 132.5 ft

Economic Drawdown Constraint (EDC) = 0.4 * 136 ft = 54.4 ft

Physical Drawdown Constraint (PDC) = 136 ft – 60 ft = 76 ft

Total drawdown of 132.5 ft exceeds the EDC and the PDC, so this well **is critical.**

8498:

Water Column = 224 ft

DP = 4.1 ft (Net drawdown from the proposal indicated above)

DE = 32.7 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DD = 37.3 ft (S = 0.037, T = 9372 ft^2/day, Q = 887 gpm, tp = 120 days, efficiency = 70%)

DT = 74.1 ft

Economic Drawdown Constraint (EDC) = 0.4 * 224 ft = 89.6 ft

Physical Drawdown Constraint (PDC) = 224 ft – 60 ft = 164 ft

Total drawdown of 74.1 ft is less than the EDC and the PDC, so this well **is not critical.**

15901:

Water Column = 268 ft

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

DE = 31.3 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DD = 23.7 ft (S = 0.036, T = 10,735 ft^2/day, Q = 620 gpm, tp = 204 days, efficiency = 70%)

DT = 59.9 ft

Economic Drawdown Constraint (EDC) = 0.4 * 268 ft = 107.2 ft

Physical Drawdown Constraint (PDC) = 268 ft – 60 ft = 208 ft

Total drawdown of 59.9 ft is less than the EDC and the PDC, so this well **is not critical.**

SV 2 & 746 & 5236:

Water Column = 124 ft

DP = 4.8 ft (Net drawdown from the proposal indicated above)

DE = 29.8 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DD = 34.7 ft (S = 0.041, T = 3496 ft^2/day, Q = 326 gpm, tp = 130 days, efficiency = 70%)

DT = 69.3 ft

Economic Drawdown Constraint (EDC) = 0.4 * 124 ft = 49.6 ft

Physical Drawdown Constraint (PDC) = 124 ft – 60 ft = 64 ft

Total drawdown of 69.3 ft exceeds the EDC and the PDC, so this well **is critical.**

Domestic 23-33-36:

Water Column = 126 ft

DP = 4.6 ft (Net drawdown from the proposal indicated above)

DE = 30.6 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DT = 35.2 ft

Economic Drawdown Constraint (EDC) = 0.4 * 126 ft = 50.4 ft

Physical Drawdown Constraint (PDC) = 126 ft – 20 ft = 106 ft

Total drawdown of 35.2 ft is less than the EDC and the PDC, so this well **is not critical.**

Domestic 26-33-36:

Water Column = 178 ft

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

DE = 30.4 ft (Water level decline from 2024 through 2049 based upon GMD3 model)

DT = 34.6 ft

Economic Drawdown Constraint (EDC) = 0.4 * 178 ft = 71.2 ft

Physical Drawdown Constraint (PDC) = 178 ft – 20 ft = 158 ft

Total drawdown of 34.6 ft is less than the EDC and the PDC, so this well **is not critical.**

Conclusion:

The proposed move is in an area where the aquifer's saturated thickness and transmissivity varies significantly over short distances. The analysis shows that if the proposed well is pumped to its full authorized authority, net well-to-well effects created by this proposal are likely to be small but noticeable. Nearby wells authorized under water right numbers 10189 & 15570, 20164, and SV 2 & 746 & 5236 were flagged as critical because projected declines of the usable aquifer over the next 25 years amount to more than 40% of the remaining saturated thickness, after accounting for the drawdown requirements to maintain current pumping rates. 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

Kansas
Department of Agriculture
Division of Water Resources

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

Mike Beam, Secretary

Laura Kelly, Governor

September 10, 2024

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

Re: Request for Recommendation
Water Right, File No. 22249

Dear Mr. Norquest:

This is to advise you that Marlin Heger has filed applications for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point of diversion.

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

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

Sincerely,

Michael A. Meyer
Water Commissioner

MAM
Enclosures