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

1. File No.: **11926**	2. Status Change Date:	4. Field Office: **04 - Garden City** GMD: **03 - Southwest** Structures File No.: Filing/Priority Date: **7/25/2024** Application Complete Date:
3. Package File No(s):		

5a. ☒ Applicant ☐ Owner ☒ WUC ☐ Address Change Person ID **24623** Add Seq# **DAVID BRYANT** **PO BOX 87** **COPELAND, KS 67837-0087**	5b. ☒ Owner ☐ WUC ☐ Address Change Person ID **3363** Add Seq# **LINDA FELAN** **4400 N BARNES AVE** **OKLAHOMA CITY, OK 73112-8818**
5c. ☐ Owner ☐ WUC ☐ Address Change Person ID Add Seq#	5d. ☐ Owner ☐ WUC ☐ Address Change Person ID Add Seq#

6. Change No.: **C1** ☒ PD ☐ PU ☐ UMW Base Acres: Year: Min Reasonable Q: Previous UMW: **Not changing** MDS Gauge: Active Admin? ☐ Completion/Start Date: **12/31/2025** 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 **DUE TO THEIS EVALUATIONS - APPLICANT ADJUSTED PROPOSED POINT OF DIVERSION TO WITHIN 300' MOVE**	Processed **3/10/2025 AM** Reviewed	Entered

File No. **11926**	13. County: **SW** Basin: **CROOKED CREEK** Stream:
Structures File No:	Aquifer Code: **200** Special Use Area:

14. Points of Diversion, Rates & Quantities

	PDIV	Qualifier	S	T	R	ID	'N	'W	Comment (AKA Line)	Qty AF Auth	Qty AF Add	Rate gpm Auth	Rate gpm Add	Storage Qty Auth	Storage Qty Add	Storage Rate Auth/Add	Overlaps
DEL	**6899**																
ENT		**LOT 3 NW**	**30**	**31S**	**31W**		**2620**	**5032**		**820**	**820**	**1465**	**1465**				
CHK	**41214**																

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	**3167**																						☐	
CHK	**40307**																						☐	
																							☐	
																							☐	
																							☐	
																							☐	

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

March 10, 2025

DAVID BRYANT
PO BOX 87
COPELAND, KS 67837-0087

RE: Filed Office Application for Change
Water Right, File No. 11926

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: Linda Felan

CERTIFICATE OF SERVICE

On this 10th day of March, 2025, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 11,926 dated 10th day of March, 2025 was mailed postage prepaid, first class, US mail to the following:

DAVID BRYANT
PO BOX 87
COPELAND, KS 67837-0087

Pc:

LINDA FELAN
4400 N BARNES AVE
OKLAHOMA CITY, OK 73112-8818

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
4:14 pm
JUL 25 2024
Garden City Field Office
Divison of Water Resources

File No. 11926

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: DAVID BRYANT
PO BOX 87, COPELAND, KS 67837-0087
Phone Number: ( ) Email address:
Name and address of Water Use Correspondent: Same
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* CGT *Fee $* 200.00 *TR #* _____ *Receipt Date* 7-25-24 *Check #* 26270

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

One in the NW Quarter of the Lot 3 Quarter of the _____ Quarter
of Section 30, Township 31 South, Range 31 W,
in SW County, Kansas, 2290 feet North 5100 feet West of Southeast corner of section.
Authorized Rate No change Authorized Quantity No change Depth of well N/A (feet)
(DWR use only: Computer ID No. 1 GPS _____ feet North _____ feet West)
☐ **This point will not be changed** ☒ **This point will be changed as follows:** ☐ **No change, point better described with GPS as follows:**

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

One in the NW Quarter of the Lot 3 Quarter of the _____ Quarter
of Section 30, Township 31 South, Range 31 W,
in SW County, Kansas, ~~3850~~ 2620 feet North ~~5100~~ 5032 feet West of Southeast corner of section.
Proposed Rate No change Proposed Quantity No change Proposed well depth (feet) 580.
This point is: ☐ Additional Well ☐ Geo Center List other water rights that will use this point _____.

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

One in the NW Quarter of the NW Quarter of the SE Quarter
of Section 30, Township 31 South, Range 31 W,
in SW County, Kansas, 2350 feet North 2630 feet West of Southeast corner of section.
Authorized Rate NO change Authorized Quantity No change Depth of well N/A (feet)
(DWR use only: Computer ID No. 2 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 _____ (E/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) Changed proposed location to within 300'

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

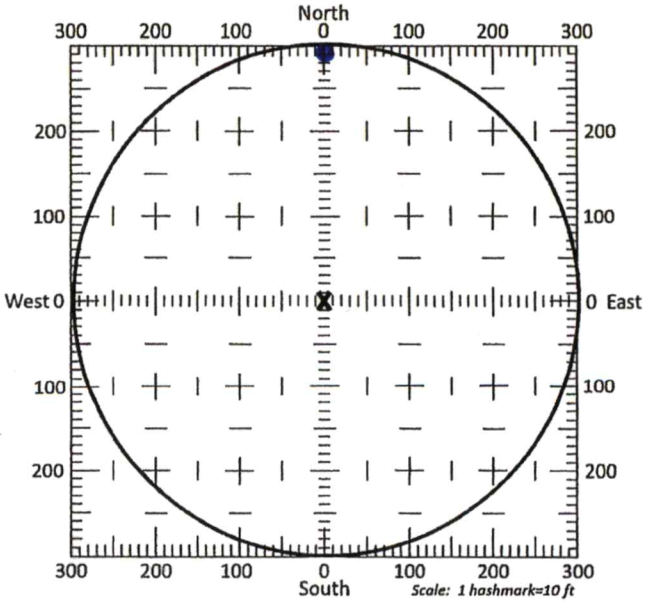
9. The change(s) (was)(will be) completed by?
ASAP

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

(b) When will this be done? _____

11. Groundwater Management District recommendation attached?
☐ Yes ☐ No

12. Assisted by mdf/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 Oklahoma City Oklahoma, ~~Kansas~~, this 8th day of August, 2024.

Linda R Felan (Owner)	(Spouse)
Linda R. Felan (Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)

State of ~~Kansas~~ Oklahoma
County of Oklahoma } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 8 day of August, 2024.

CHRIS HENDERSON NOTARY # 21013466 EXP. 10/13/25 PUBLIC STATE OF OKLAHOMA

Notary Public

My Commission Expires 10/13/2025.

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

FEE SCHEDULE

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

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

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 Copeland, Kansas, this 25 day of July, 2024.

(Owner)	(Spouse)
Michael D. Bryan (Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)

State of Kansas } SS
County of Gray }

LORI FLEMING
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 25 day of July, 2024.

Lori Fleming
Notary Public

My Commission Expires 2-9-2025.

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

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(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. 11926.

1. A change application was received on July 25, 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 50 **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 300 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: Austin McCulloch
Duly Authorized Designee of the Chief Engineer

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

Date of Issuance: March 10, 2025

State of Kansas)
) SS
County of Finney)

Acknowledged before me on March 10, 2025
by Austin McCulloch.

Signature: Julie Jones
Notary Public

My commission expires: (Notary Seal)

STATE OF KANSAS NOTARY PUBLIC
JULIE JONES
My Appointment Expires
December 15, 2026
File No. 11926

WELL LOG

DATE: 2/27/2025

Downey Drilling Inc.

RECEIVED
MAR 03 2025
Garden City Field Office
Divison of Water Resources

CUSTOMER NAME: BRYANT FARMS / LINDA FELAN TH#4-25

LEGAL: SW/NW 30-31S-31W

COUNTY: SEWARD CO, KS

GPS: 37.32219
-100.74317

DRILLER: BRENT WO: 24-957

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL	SOFT	BR	FAST	NO	SMOOTH
	2	28	SILTY CLAY / FINE-MED SAND	SOFT	BR/TAN	FAST	NO	SMOOTH
	28	40	SILTY CLAY W/ THIN CALICHE STRIPS	SOFT	BR/TAN/WHITE	FAST	NO	SMOOTH
	40	57	SANDY CLAY / FINE-MED SAND	SOFT	BR	FAST	NO	SMOOTH
	57	69	FINE-MED SAND	SOFT	BR	FAST	NO	SLIGHT VIBRATION
X	69	91	FINE-MED-COARSE SAND / FINE-GRAVEL	SOFT	BR/RED	FAST	NO	CHATTER
	91	102	CLAY	SOFT	BR/REDDISH	FAST	NO	SMOOTH
X	102	158	FINE-MED-COARSE SAND / FINE-MED GRAVEL	SOFT	BR/RED	FAST	NO	CHATTER
	158	159	CEMENTED SAND	HARD	WHITE	SLOW	YES	CHOPPY
X	159	172	FINE-MED-COARSE SAND / FINE-MED GRAVEL	SOFT	BR/RED	FAST	NO	CHATTER
	172	179	SANDY CLAY	SOFT	TAN/BR	FAST	NO	SMOOTH
	179	297	FINE-MED-COARSE SAND / FINE-MED GRAVEL / THIN CLAY STRIPS	SOFT	BR/RED	FAST	NO	CHATTER
	297	322	CLAY, SILTY SANDY CLAY	SOFT	GRAY / BLUE	FAST	NO	SMOOTH
X	322	380	FINE-MED-COARSE SAND / FINE-GRAVEL / THIN CLAY STRIPS 50	SOFT	BR/RED	FAST	NO	CHATTER
	380	400	FINE-MED-COARSE SAND / FINE-GRAVEL / THIN CLAY STRIPS 20	SOFT	BR/RED	FAST	NO	CHATTER
	400	428	FINE-MED-COARSE SAND / FINE-GRAVEL 28	SOFT	BR/RED	FAST	NO	CHATTER
	428	441	FINE-MED SAND / SANDSTONE / LIME ROCK LAYERS 13	SOFT	BR/WHITE	FAST	NO	CHOPPY @ TIMES
	441	460	SANDY CLAY / LIME STRIPS / FINE-MED SAND 119	DENSE	BR/WHITE	SLOW	NO	SMOOTH
	460	500	CLAY / FINE SAND LAYERS	DENSE	BR/TAN	SLOW	NO	SMOOTH
	500	511	CLAY / FINE SAND LAYERS	DENSE	BR/TAN	SLOW	NO	SMOOTH
	511	556	FINE-MED SAND / BROWN ROCK / SANDSTONE 45	DENSE	BR	FAST	AT TIMES	CHOPPY / CHATTER
X	556	580	RED BED	DENSE	RED	SLOW	AT TIMES	SMOOTH
			8 BAGS QUIK GEL					
			1 BRAN					
			#4 QUIK TROL LV 164					
			.25 EZ MUD					
			7000 GALLONS WATER					

Downey Drilling Inc.
LEXINGTON, NE
ALLIANCE, NE
GARDEN CITY, KS

Well Design & Construction

"PROPOSED"
WR #11926

Customer Name: LINDA FELAN / BRYANT FARMS - TENANT ***REVISED 3/3/2025***

Legal: NW 30-31S-31W **County:** SEWARD

G.P.S.: 37.325567 N **Date:**

100.743148 W **WO #:** 24-957

DRILLER: **WATER SUPPLY:** IRRIGATION WELL - CUSTOMER'S

HELPER(S): **DRILLING RIG:** M-100

BOREHOLE DIAMETER: 30" **DRILLING METHOD:** REVERSE CIRCULATION

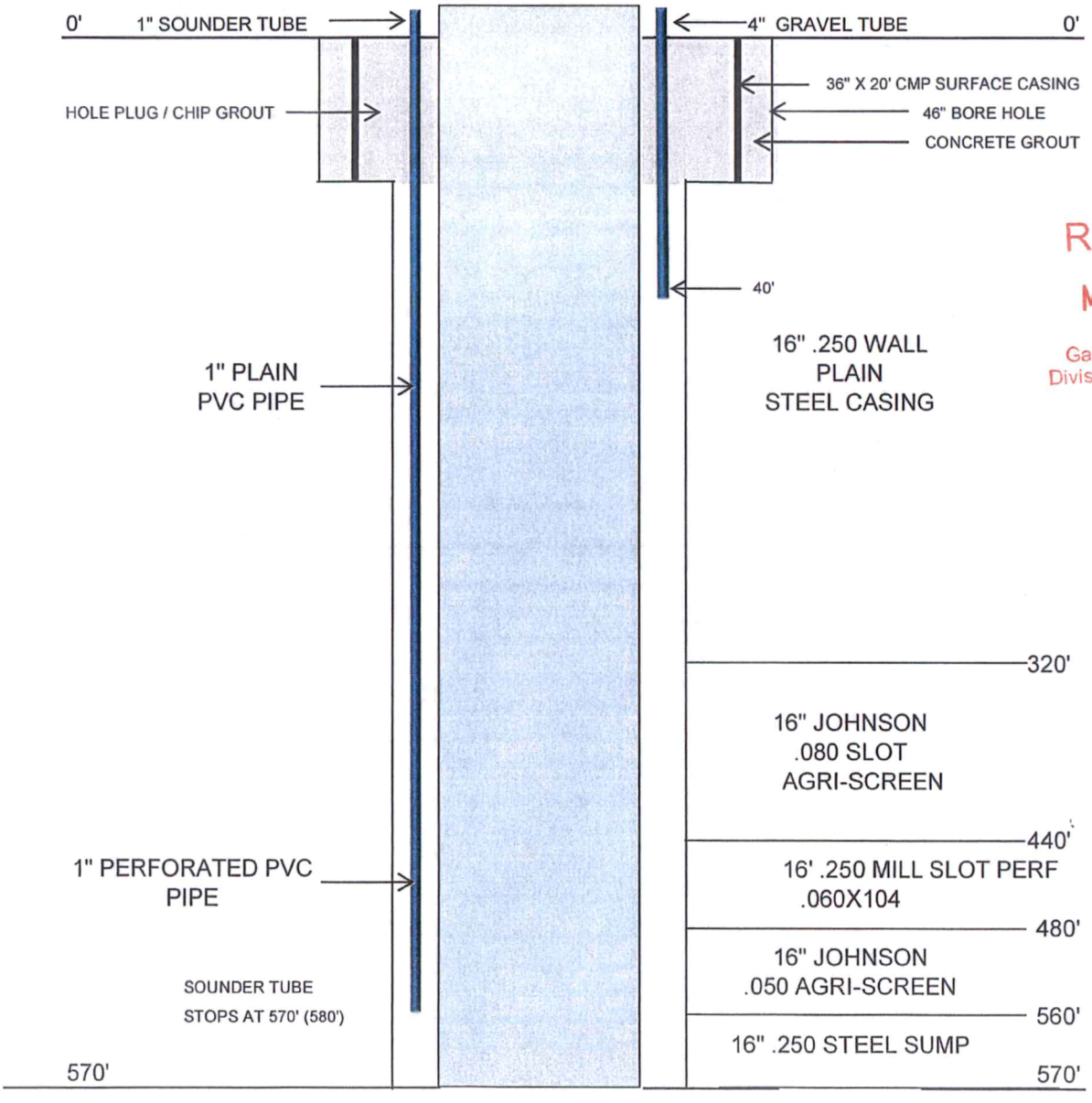
CASING DIAMETER: 16" **QUIKGEL:** TBD **HOLE PLUG:** 20'+

TOTAL WELL DEPTH: 570' **GRAVEL:** 105 TON - #1 COARSE X 3 LOADS #1C / #1F 70/30 X 1 LOAD

DRILLING FLUID: TBD **GRAVEL SUPPLIER:** HUBER

ADDITIONAL INFO: 36" X 20' SC AT #4-25 TEST HOLE LOCATION (280' NORTH OF EXISTING WELL)

GROUT AND GRAVEL **SCREEN AND CASING**



RECEIVED
MAR 03 2025
Garden City Field Office
Divison of Water Resources

Century GEOPHYSICAL CORP.

SCALE

BRYANT FARMS / LINDA FELAN

60/75

COMPANY	: DOWNEY DRILLING INC			OTHER SERVICES:	
WELL	: BRYANT FARMS / LINDA FELA TH#4-25				
LOCATION/FIELD	:				
COUNTY	: SEWARD C				
LOCATION	: SWNW.S				
SECTION	: 30	TOWNSHIP	: 31S	RANGE	: 31W
DATE	: 02/27/25	PERMANENT DATUM	: GL		
DEPTH DRILLER	: 580			KB	:
LOG BOTTOM	: 558.60	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 1.00	DRL MEASURED FROM:	GL	GL	: 2820
CASING DIAMETER	: 10.	LOGGING UNIT	: 2310		
CASING TYPE	: SURFACE	FIELD OFFICE	: O'DRISCOL		
CASING THICKNESS:		RECORDED BY	: BRENT		
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	: 02/27/25
NEUTRON MATRIX	: LIMESTON	MATRIX DELTA T	: 49	LGTIME	: 14:35:
				THRESH:	99999

GPS 37.32219 -100.7431

Downey Drilling Inc.

WELL LOG

DATE: 2-27-25

CUSTOMER NAME: Bryant Farms / Linda Felan

LEGAL: SWNW 30-31S-31W

COUNTY: Seward Co KS

GPS: 37.32219
-100.74317

TH#4-25

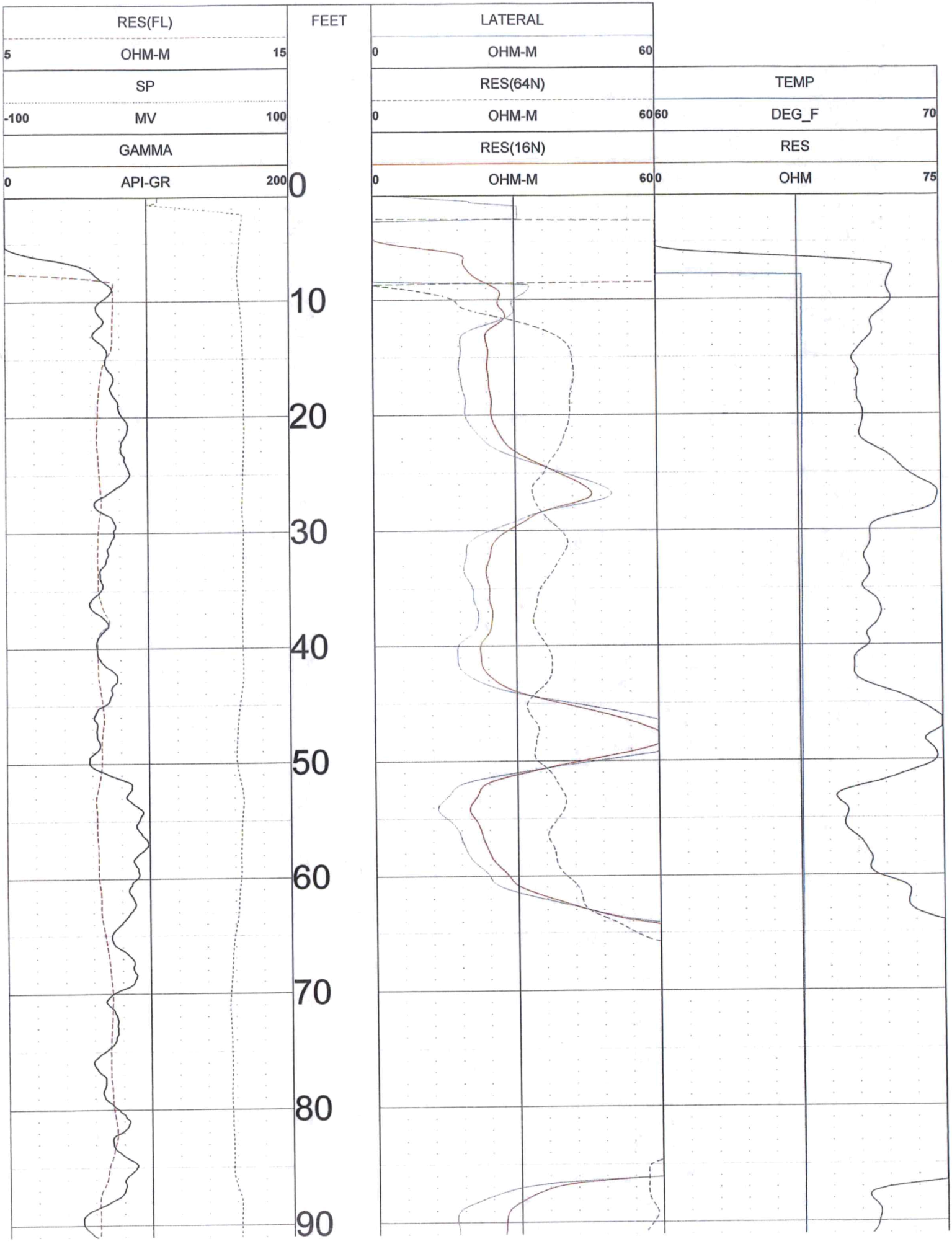
DRILLER: BRENT

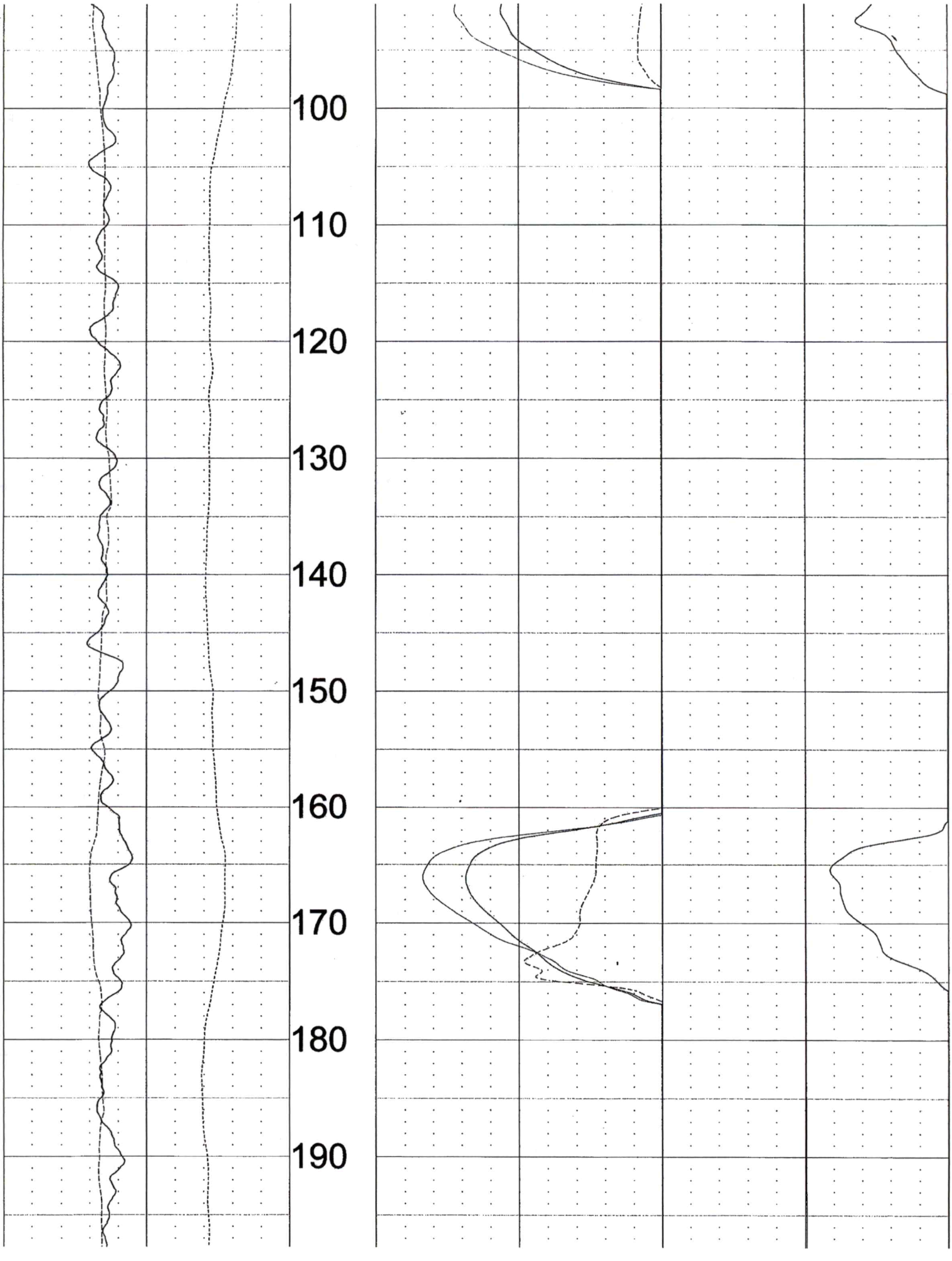
WO: 24-957

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	Topsoil	Soft	BR	Fast	NO	Smooth
	2	29	Silty Clay / F-M Sand		BR/Tan			
	29	40	Silty Clay / Thin Caliche Strips		BR/Tan/White			
	40	57	Sandy Clay / F-M Sand		BR			
	57	69	F-M Sand		BR			Slight Vibration
x	69	91	F-M-C Sand / F Gravel		BR/Red			Chatter
	91	102	Clay		BR/Reddish			Smooth
x	102	159	F-M-C Sand / F-M Gravel		BR/Red			Chatter
	159	164	Cemented Sand	Hard	White	Slow	Yes	Choppy
x	164	172	F-M-C Sand / F-M Gravel	Soft	BR/Red	Fast	NO	Chatter
	172	179	Sandy Clay		Tan/BR			Smooth
	179	300	F-M-C Sand / FM Gravel / Thin Clay Strips		BR/Red			Chatter
	300	331	Clay		Gray/Blue			Smooth
x	331	380	F-M-C Sand / F Gravel / Thin Clay Strips		BR/Red			Chatter
	380	400	F-M-C Sand / F Gravel / Thin Clay Strips					
	400	428	F-M-C Sand / F Gravel					
	428	441	F-M Sand / Sandstone / Lime Rock layers		BR/White			Choppy & Hard
	441	460	Sandy Clay / Lime Strips / F-M Sand	Dense	BR/White	Slow		Smooth
	460	500	Clay / F Sand layers		BR/Tan			
	500	511	Clay / F Sand layer					
	511	555	F-M Sand / Brown Rock / Sandstone		BR	Fast	Catches	Choppy
x	555	590	Red Bed		Red	Slow	Catches	Smooth

8 bags Quick Gel
1 bran
#4 Quik Trol LV
.25 EZ Mud

7000 Gallons H_2O


RES(FL)
5
OHM-M
15
SP
-100
MV
100
GAMMA
0
API-GR
200
FEET
0
10
20
30
40
50
60
70
80
90
LATERAL
0
OHM-M
60
RES(64N)
0
OHM-M
60
RES(16N)
0
OHM-M
60
TEMP
60
DEG_F
70
RES
0
OHM
75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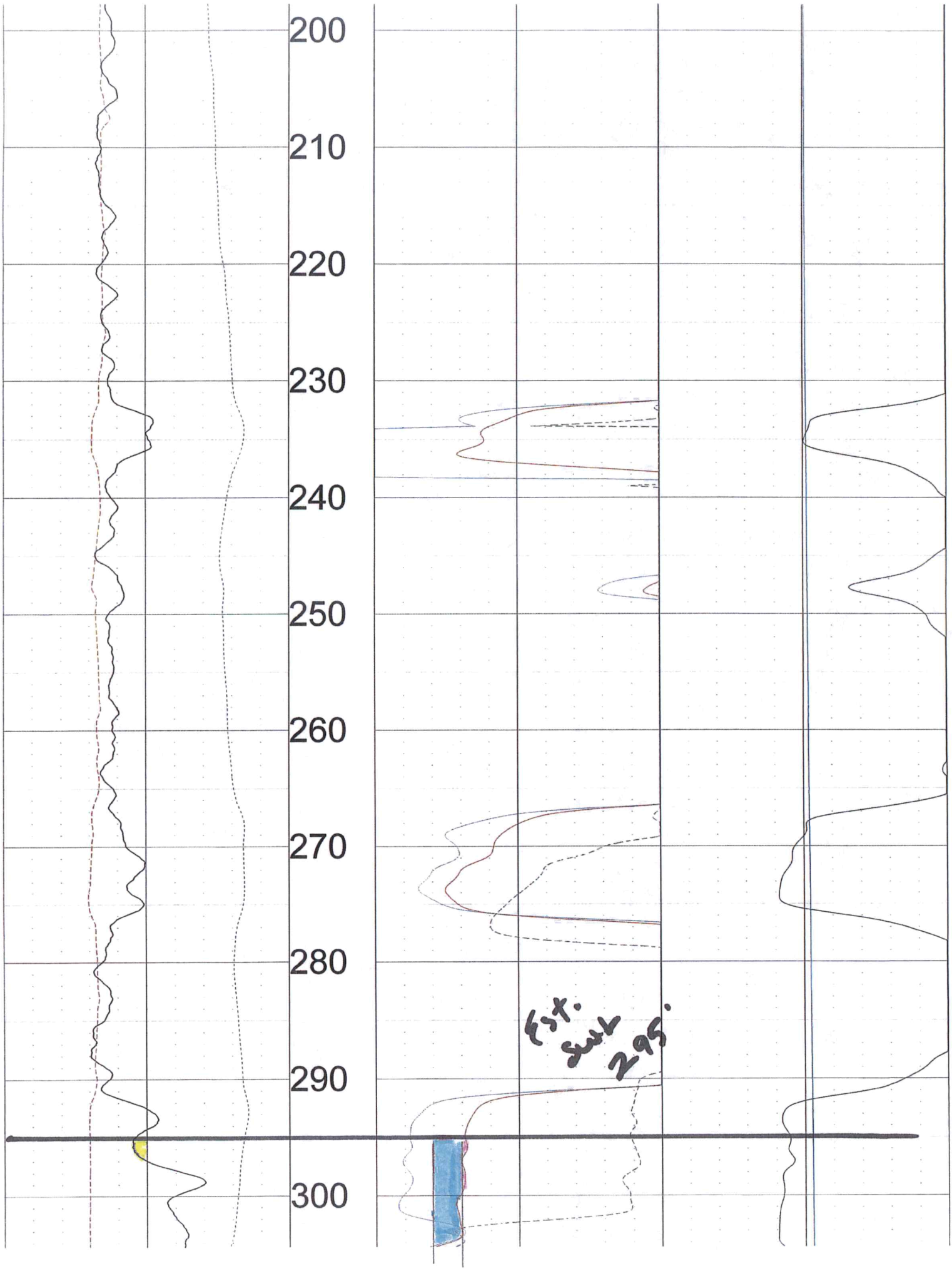
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210
220
230
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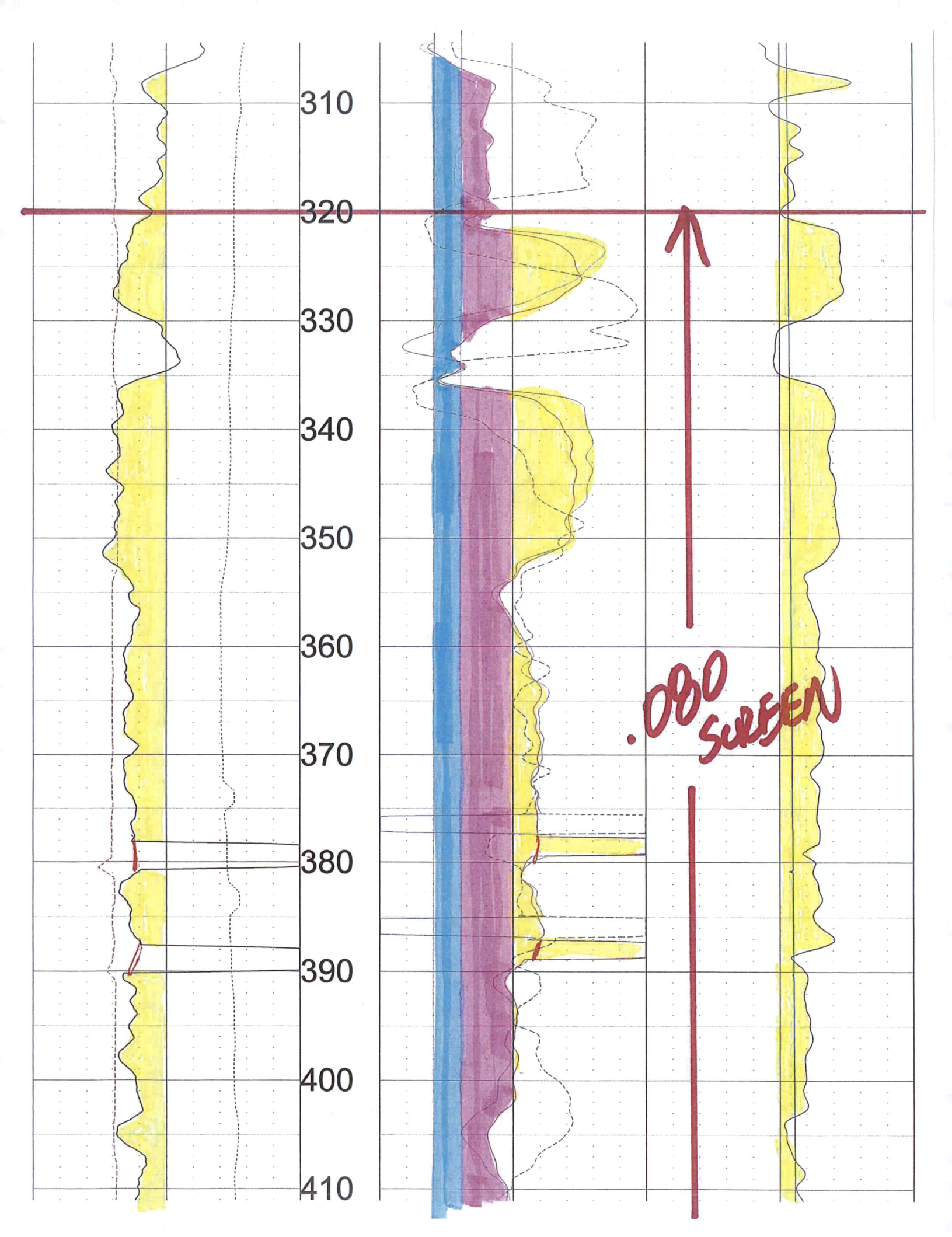
270
280
290
300
Est. Swt 29%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320
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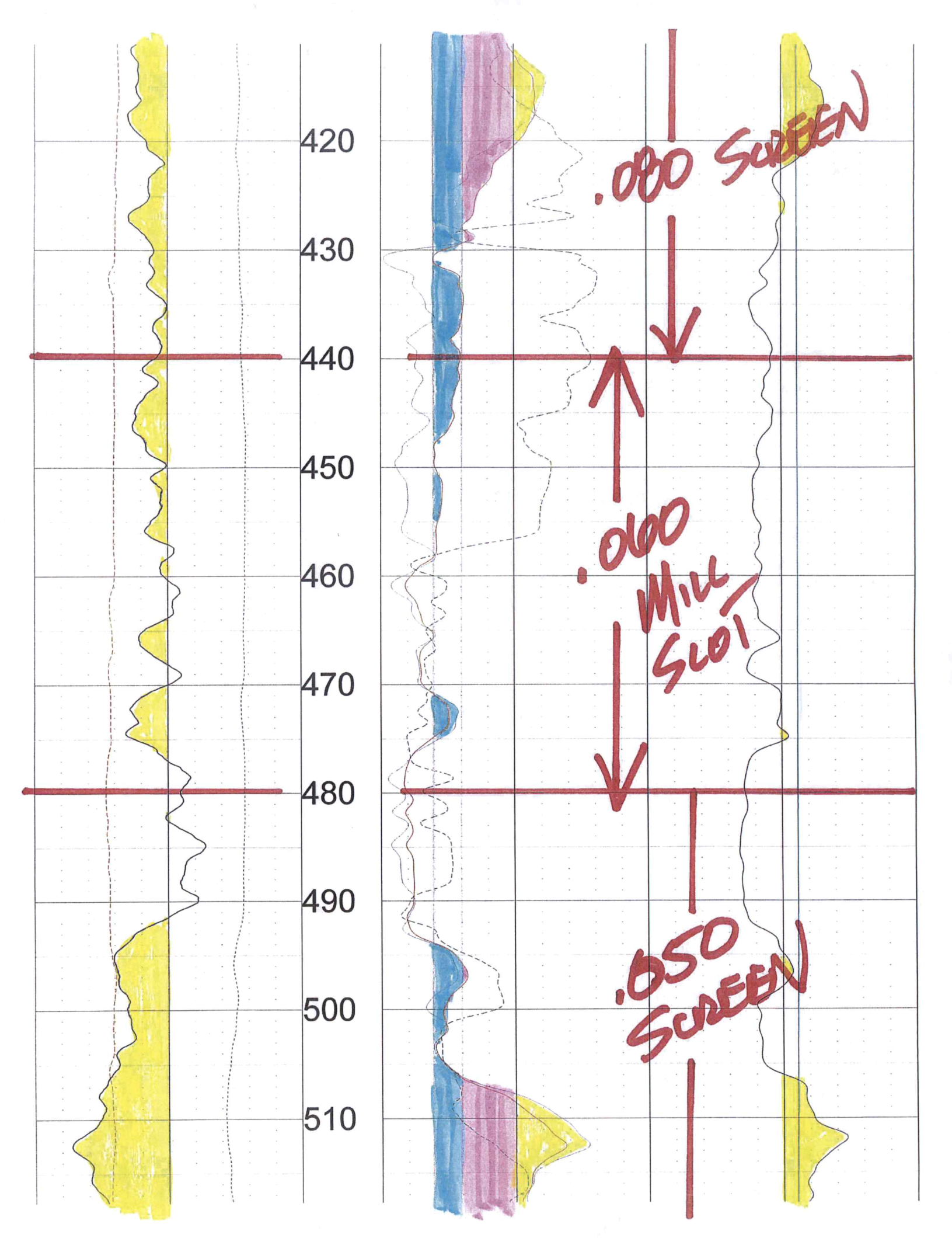
400
410
.080 SCREEN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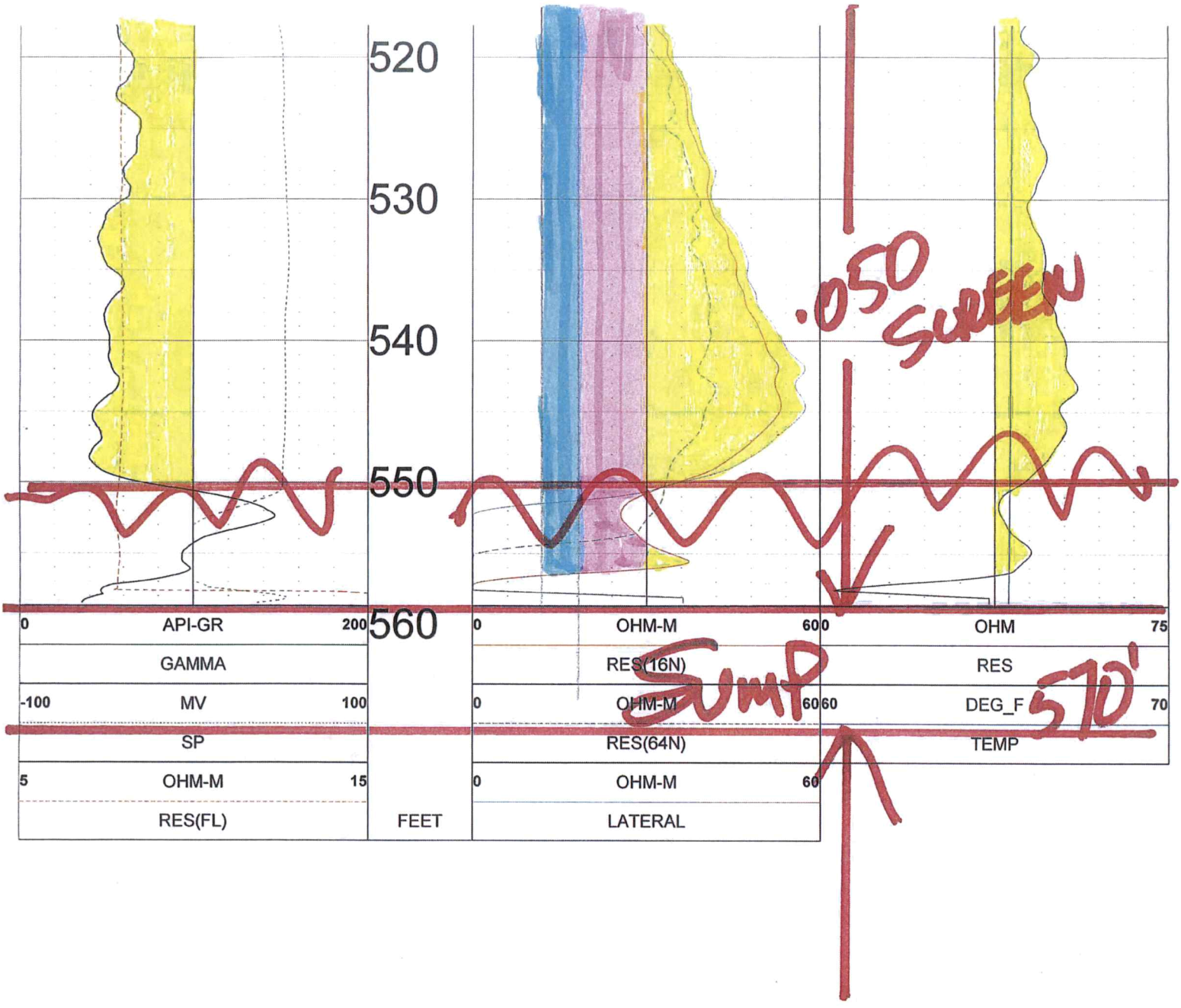
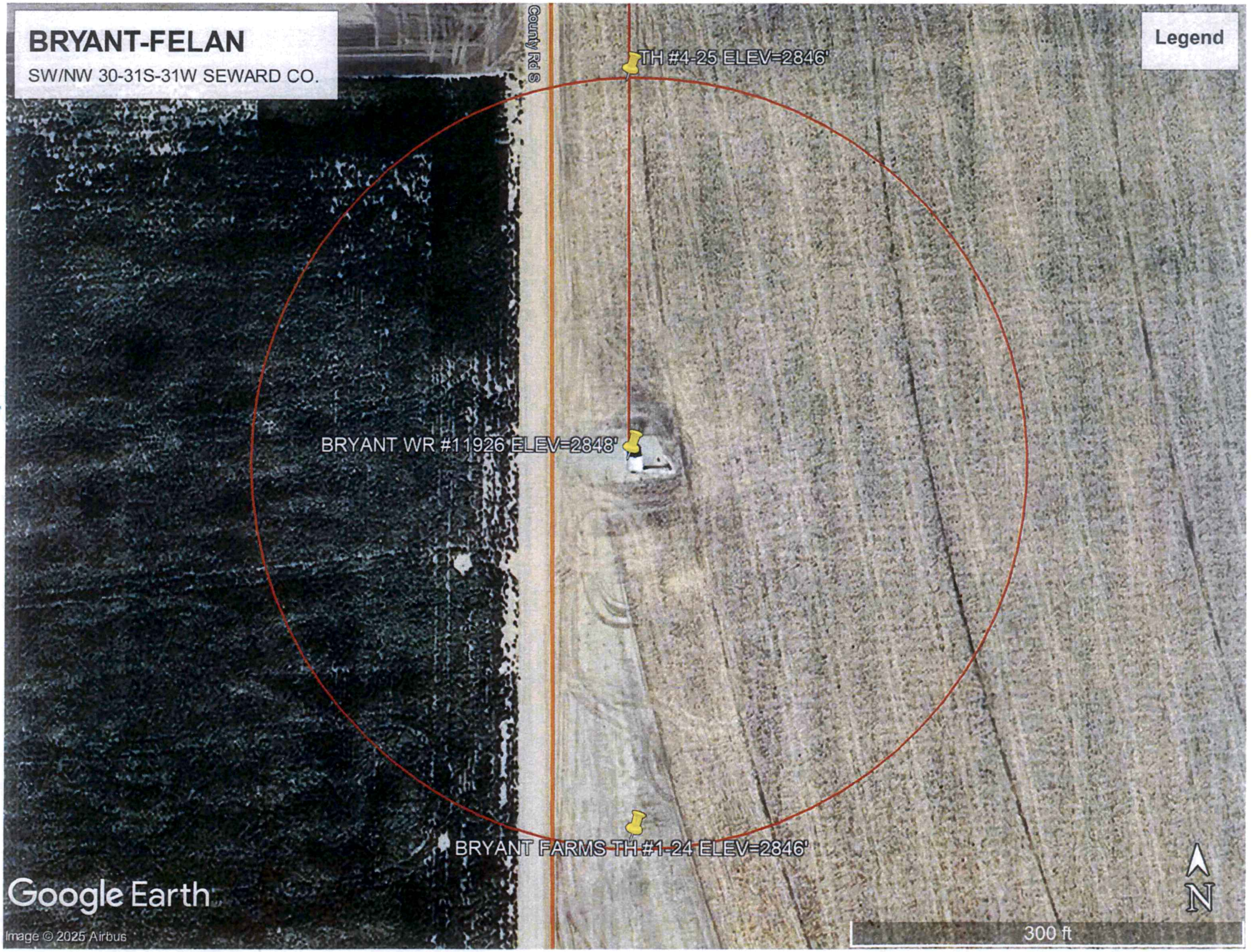
430
440
450
460
470
480
490
500
510
.080 SCREEN
.060 MILL SLOT
.050 SCREEN


520
530
540
550
560
.050 SCREEN
SUMP
570'
0 API-GR 200
GAMMA
-100 MV 100
SP
5 OHM-M 15
RES(FL)
FEET
0 OHM-M 60
RES(16N)
0 OHM-M 60
RES(64N)
0 OHM-M 60
LATERAL
0 OHM 75
RES
60 DEG_F 70
TEMP

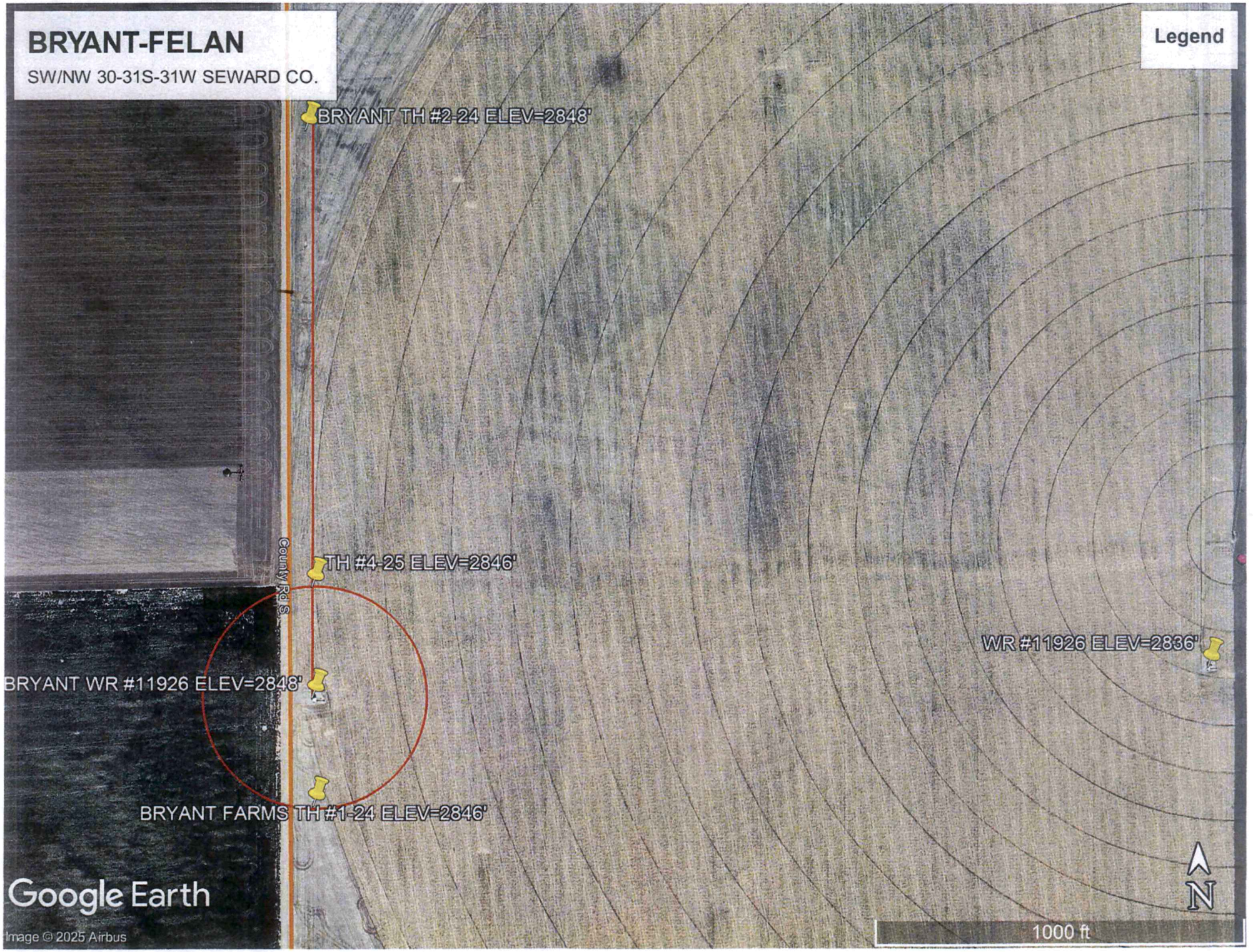
ORIGINAL System VI Box
NEW TOOL

TOOL CALIBRATION BRYANT FARMS / LINDA FELAN 02/27/25 14:35
TOOL 8144A TM VERSION 3002
SERIAL NUMBER 3261

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr25,23	08:58:23	GAMMA	1.000	[API-GR]	0.000	[CPS]
	Apr25,23	08:58:23	GAMMA	340.000	[API-GR]	354.000	[CPS]
2	Apr25,23	08:45:20	RES(FL)	1.325	[OHM-M]	6700.000	[CPS]
	Apr25,23	08:45:20	RES(FL)	46.729	[OHM-M]	67077.000	[CPS]
3	Apr14,23	07:34:43	SP	0.000	[MV]	320612.000	[CPS]
	Apr14,23	07:34:43	SP	332.000	[MV]	159218.000	[CPS]
4	Apr24,23	15:20:59	RES(16N)	0.000	[OHM-M]	3737.000	[CPS]
	Apr24,23	15:20:59	RES(16N)	1954.550	[OHM-M]	450206.000	[CPS]
5	Apr14,23	07:35:15	RES(64N)	0.000	[OHM-M]	3514.000	[CPS]
	Apr14,23	07:35:15	RES(64N)	1987.790	[OHM-M]	454365.000	[CPS]
6	Apr25,23	08:57:30	TEMP	45.200	[DEG_F]	148563.000	[CPS]
	Apr25,23	08:57:30	TEMP	102.200	[DEG_F]	366754.000	[CPS]
7	Apr14,23	07:35:38	RES	0.000	[OHM]	21437.000	[CPS]
	Apr14,23	07:35:38	RES	993.000	[OHM]	199133.000	[CPS]


BRYANT-FELAN
SW/NW 30-31S-31W SEWARD CO.
Legend
County Rd S
TH #4-25 ELEV=2846'
BRYANT WR #11926 ELEV=2848'
BRYANT FARMS TH #1-24 ELEV=2846'
Google Earth
Image © 2025 Airbus
N
300 ft


BRYANT - FELAN
NW/SW 30-31S-31W SEWARD CO.
Legend
County Rd S
TH #4-24 ELEV=2846'
BRYANT WR #11926 ELEV=2848'
BRYANT FARMS TH #1-24 ELEV=2846'
unty Rd S
Google Earth
Image © 2025 Airbus
N
800 ft


BRYANT-FELAN
SW/NW 30-31S-31W SEWARD CO.
Legend
BRYANT TH #2-24 ELEV=2848'
County Rd S
TH #4-25 ELEV=2846'
WR #11926 ELEV=2836'
BRYANT WR #11926 ELEV=2848'
BRYANT FARMS TH #1-24 ELEV=2846'
Google Earth
Image © 2025 Airbus
N
1000 ft

INPUTS	
Target Section Definition	
Section	30
Township	31
Range	31
Range Direction	w
Target Point Coordinates (*NAD27* or *NAD83*)	
Target Longitude	-100.743170
Target Latitude	37.322190

Load Data and Compute

Instructions
1. Enter values for section, township, range and range direction.
2. Enter ***NAD27*** or *NAD83* longitude and latitude of target point.
3. Click "Load Data and Compute" button.
4. Use feet distances corresponding to datum of target point.

Loaded Section Data From LEOBASE using *NAD83*

Corner	Corner Latitudes	Corner Longitudes
SW	37.31502292	-100.74361375
NW	37.32948908	-100.74337000
NE	37.32948925	-100.72573045
SE	37.31499308	-100.72586725
Degrees Longitude per Foot		3.43875257E-06
Degrees Latitude per Foot		2.74641286E-06

Target Point Distances from Corners using NAD83

Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	2610	-129
NW	-2658	-58
NE	-2658	5071
SE	2620	5032

Target point is In Section

Loaded Section Data From LEOBASE using *NAD27*

Corner	Corner Latitudes	Corner Longitudes
SW	37.31500200	-100.74317900
NW	37.32946800	-100.74293500
NE	37.32946800	-100.72529600
SE	37.31497200	-100.72543300
Degrees Longitude per Foot		3.43875161E-06
Degrees Latitude per Foot		2.74598553E-06

Target Point Distances from Corners using NAD27

Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	2618	-3
NW	-2650	68
NE	-2650	5198
SE	2629	5158

Target point is NOT In Section

Difference (NAD83 Minus NAD27)

Corner	Corner Latitudes	Corner Longitudes
SW	0.00002092	-0.00043475
NW	0.00002108	-0.00043500
NE	0.00002125	-0.00043445
SE	0.00002108	-0.00043425

Difference (NAD83 Minus NAD27)

Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	-8.02450356	-126.42665881
NW	-7.26307202	-126.49937941
NE	-7.32497095	-126.34087053
SE	-8.08446127	-126.28269878

S. Thurlow
12/6/2024

Changed proposed location to <300' move
AM/GCFO 3/10/25

Theis evaluation of proposed change in point of diversion, File No. 11,926

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. 11,926 ID1. The change proposes relocating the well approximately 1,557 feet North of the currently authorized location (Figure 1).

The GMD No. 3 groundwater model was used for a projected future (2068) saturated thickness (158.5 ft). The average of model cells located within Township 31 South, Range 31 West, Sections 19, 30, 31, and Township 31 South, Range 32 West, Sections 24, 25, 36 was used.

The transmissivity was estimated based on lithological logs from the Kansas Geological Survey's Water Well Completion Records Database (WWC5). WWC5 records within 1.5 miles of the proposed point of diversion were used. Records that were within that area, but did not include lithological data, were not drilled to bed rock, or had poor lithological descriptions were excluded. 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, four lithological logs were evaluated (Figure 4, Tables 1-4), with an average transmissivity of 3,572 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 0.0011. The average Practical saturated thickness (65.1 ft) was used when calculating the net drawdown as a percentage of saturated thickness (Table 5-9).

Drawdown was evaluated at four nearby existing wells authorized by File Nos. 12054, 14396, 21084, & 17220 (Tables 5-9). A quantity of 820 acre-feet (AF) at a rate of 1,465 gallons per minute (gpm) was compared to the average historic use (227.8 AF, 2014-2023) at the last reported pumping rate (600 gpm). The maximum net drawdown occurred at the point of diversion authorized by File No. 17220. The total net drawdown at that distance was 29.3 feet, or 45.0% of the projected future practical saturated thickness (Table 8). If the proposed quantity remains unchanged and the proposed pumping rate is reduced to 646 gpm, the net maximum net drawdown is 13.0 ft, or 20.0% of the projected future practical saturated thickness at the point of diversion authorized by File No. 17220 (Table 9).

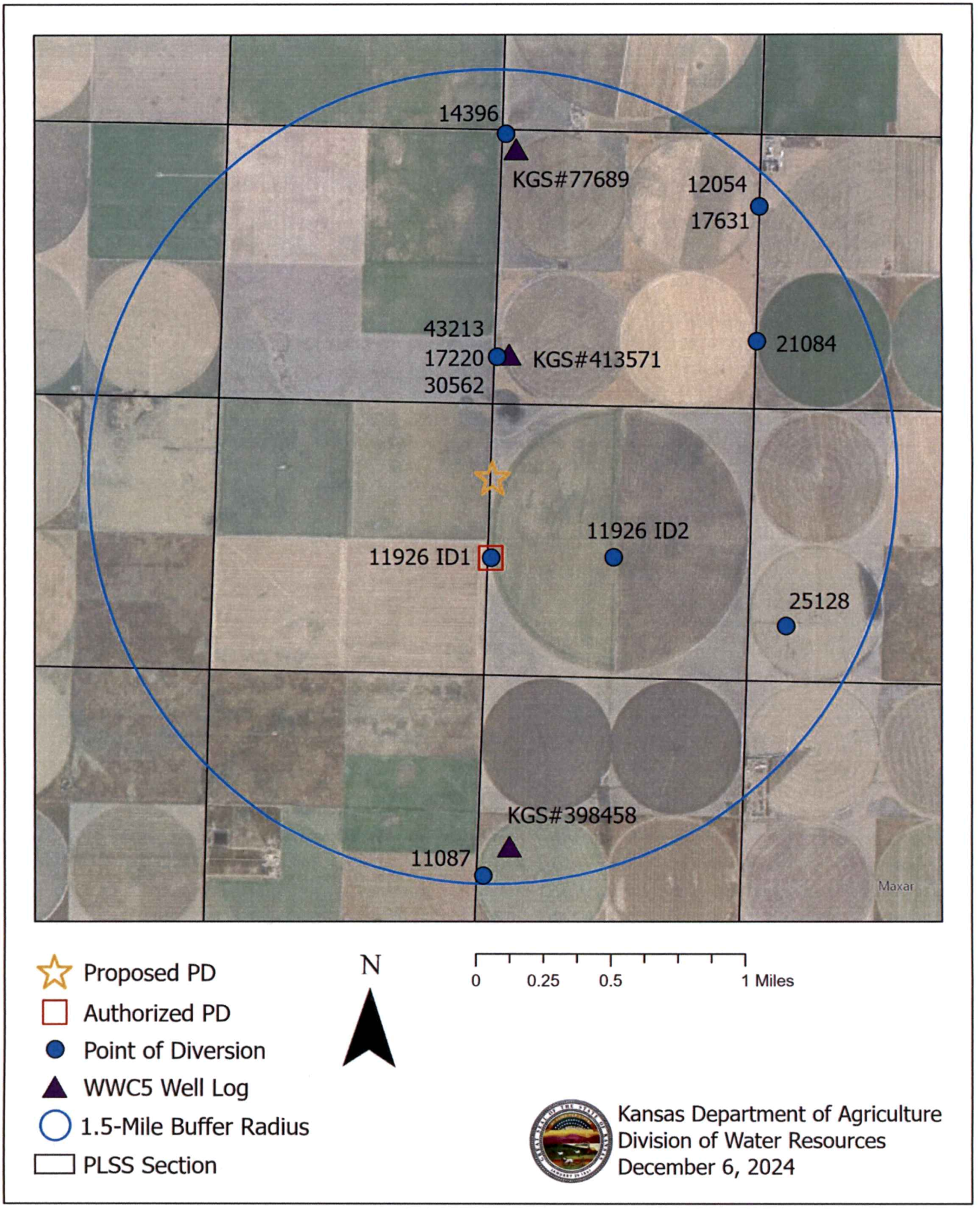


Figure 1: Location of current and proposed point of diversion, surrounding points of diversion, and WWC5 records

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

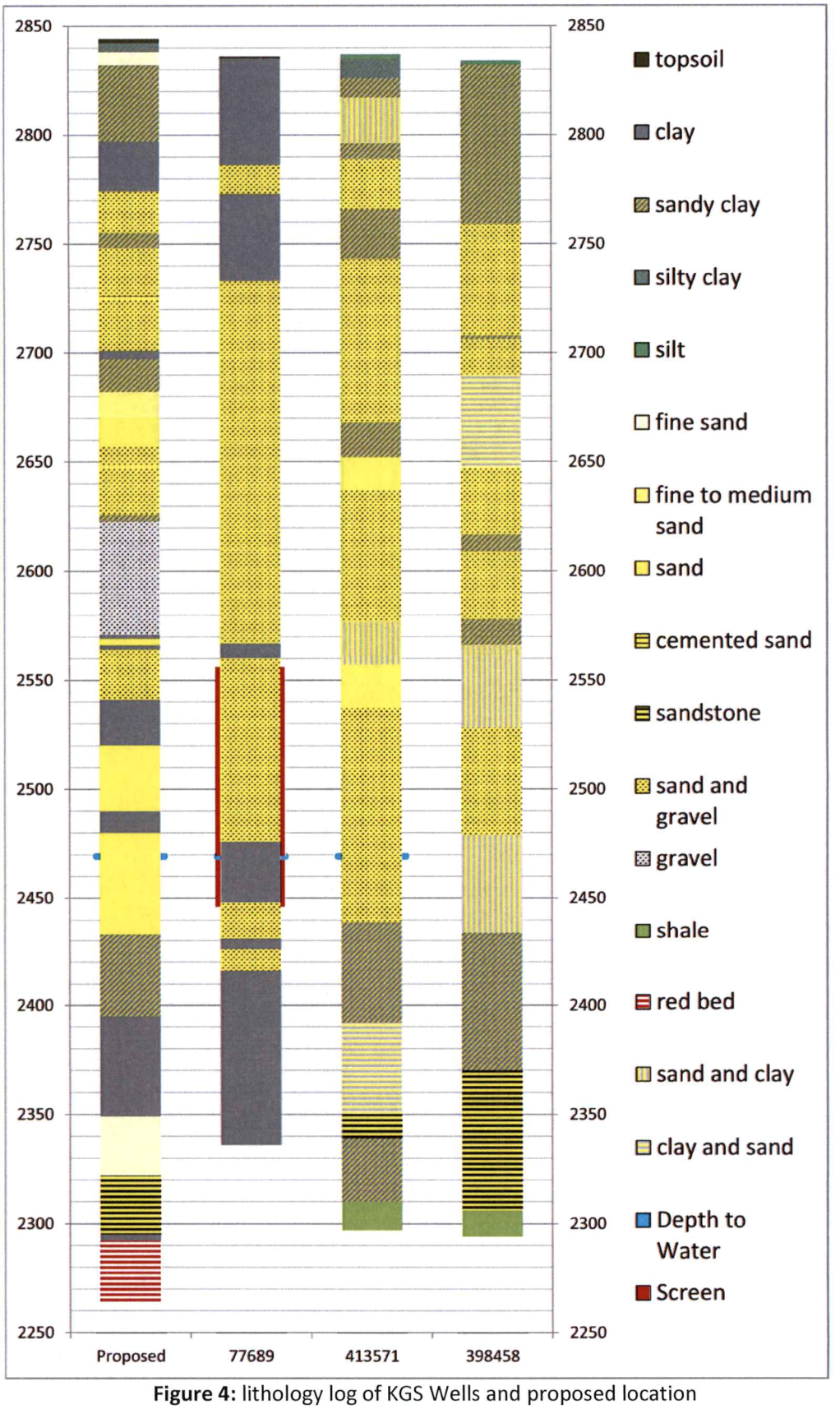


Figure 4: lithology log of KGS Wells and proposed location

Table 1: Lithology of the Proposed Well location

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet²/day)
Top soil	Above water surface			
Brown silty clay				
Fine sand				
Sandy clay w/ caliche				
Sandy clay				
Brown clay w/ sandy clay				
Fine-med-coarse sand w/ fine gravel				
Sandy clay w/ lime rock				
Fine-med-coarse sand w/ fine gravel				
Cemented sand				
Fine-med-coarse sand w/ fine gravel				
Gray clay				
Sandy clay				
Fine-med sand				
Fine-med-coarse sand				
Fine-med-coarse sand w/ fine-med gravel				
Cemented sand				
Fine-med-coarse sand w/ fine gravel				
Sandy clay ledge				
Fine gravel w/ fine-med-coarse sand				
Clay ledge				
Fine-med-coarse sand				
Clay ledge				
Fine-med-coarse sand w/ fine gravel				
Gray clay w-fine sand ledges				
Fine-med-coarse sand				
Brown clay				
Fine-med-coarse sand	snd	100	36	2268.0
Sandy clay w/ lime rock	sc, ca	70, 30	38	117.0
Brown clay w/ lime rock ledges	c, ca	70, 30	46	0.0
Fine sand	fsnd	100	9	135.0
Fine sand w/ brown rock	fsnd, r	70, 30	18	189.0
Yellow sandstone w/ brown rock	ds, r	70, 30	27	83.2
Green clay	c	100	3	0.0
Red bed	rb	100	28	0.0
			Total Transmissivity:	2792.2

Table 2: Lithology, KGS Well ID 77689

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet^2/day)
top soil				
brown clay				
fine to medium sand and gravel (loose)				
brown clay				
fine to medium sand and gravel (loose)				
brown and gray clay				
fine to medium sand and gravel 10% clay (loose)				
brown and gray clay				
blue clay	c	100	21	0.0
fine to medium sand and gravel 10% clay (loose)	fmsnd, g, c	60, 30, 10	17	1677.9
brown clay	c	100	5	0.0
fine to medium sand and gravel 10% clay (loose) (small hard streaks of white rock)	fmsnd, g, c	60, 30, 10	10	987.0
brown clay and white rock (tight) (hard streaks)	c	100	45	0.0
brown and gray clay (tight) (hard streaks)	c	100	23	0.0
brown gray and yellow clay (hard)	c	100	12	0.0
			Total Transmissivity:	2664.9

Table 3: Lithology, KGS Well ID 413571

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet²/day)
silt				
silty clay clay caliche				
sandy clay caliche				
fine sand clay caliche				
sandy clay sand				
sand fine gravel				
sand gravel				
sandy clay				
sandy clay caliche				
sand fine gravel clay				
sandy clay				
fine sand medium sand coarse sand				
sand fine gravel				
sand clay				
fine sand medium sand coarse sand				
sand fine gravel				
sand fine gravel clay	snd, fg, c	50, 30, 20	12	1454.4
sand fine gravel med gravel	snd, fg, g	50, 50	18	3258.0
sandy clay limestone sand	sc, ca, snd	50, 30, 20	47	695.6
clay sand	c, snd	60, 40	42	1058.4
sandstone	ds	100	11	48.4
sandy clay sand	sc, snd	60, 40	29	807.4
shale	sh	100	13	0.0
			Total Transmissivity:	7322.2

Table 4: Lithology, KGS Well ID 398458

Driller's Description	Synonymy Codes	Percentages	Saturated Thickness (Feet)	Transmissivity (feet²/day)
silt				
sandy clay				
sand gravel				
sandy clay				
sand fine gravel				
clay sand				
sand fine gravel				
sandy clay				
sand fine gravel				
sandy clay sand				
sand clay				
sand fine gravel				
fine sand medium sand clay	fsnd, snd, c	50, 30, 20	3	79.2
sand clay	sc	100	32	140.8
sandy clay sand	sc, snd	60, 40	37	1030.1
sand clay	sc	100	27	118.8
sandstone caliche rock	ds, ca, r	50, 30, 20	64	140.8
shale	sh	100	12	0.0
			Total Transmissivity:	1509.7

Table 5: Theis drawdown evaluated at File No. 12,054; T = 3,572 ft²/day, S = 0.0011

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	7410.8	1465.0	820.0	27.2	41.8%
Baseline	8603.9	600.0	227.8	8.3	12.7%
			Net:	19.0	29.1%

Table 6: Theis drawdown evaluated at File No. 14,396; T = 3,572 ft²/day, S = 0.0011

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	6673.7	1465.0	820.0	28.5	43.8%
Baseline	8230.2	600.0	227.8	8.5	13.1%
			Net:	20.0	30.8%

Table 7: Theis drawdown evaluated at File No. 21,084; T = 3,572 ft²/day, S = 0.0011

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	5818.9	1465.0	820.0	30.2	46.4%
Baseline	6697.9	600.0	227.8	9.5	14.6%
			Net:	20.7	31.8%

Table 8: Theis drawdown evaluated at File No. 17,220; T = 3,572 ft²/day, S = 0.0011

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	2350.6	1465.0	820.0	41.5	63.8%
Baseline	3907.3	600.0	227.8	12.2	18.8%
			Net:	29.3	45.0%

Table 9: Theis drawdown evaluated at File No. 17,220; T = 3,572 ft²/day, S = 0.0011; Rate = 646 GPM

Scenario	Distance (FT)	Pump Rate (GPM)	Volume (AF)	Drawdown (FT)	Drawdown (%ST)
Proposed	2350.6	646.0	820.0	25.2	38.8%
Baseline	3907.3	600.0	227.8	12.2	18.8%
			Net:	13.0	20.0%

WELL LOG

DATE: 6/6/2024

Downey Drilling Inc.

CUSTOMER NAME: DAVID BRYANT / BRYANT FARMS TH#2-24

LEGAL: SEC 30-31S-31W Abert

COUNTY: SEWARD CO, KS

GPS: 37.325567

-100.743148

DRILLER: DIEGO WO: 23-452

RECEIVED
JUL 22 2024
Garden City Field Office
Division of Water Resources

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL	SOFT	BROWN	FAST		SMOOTH
	2	6	BROWN SILTY CLAY	SOFT	BROWN	FAST		SMOOTH
	6	12	FINE SAND	SOFT		FAST		VIBRATION
	12	35	SANDY CLAY W/ CALICHE	SOFT	TAN & WHITE	FAST		CHOPPY
	35	47	SANDY CLAY	SOFT	ORANGE	FAST		SMOOTH
	47	70	BROWN CLAY W/ SANDY CLAY	SOFT	BROWN	FAST		SMOOTH
	70	89	FINE-MED-COARSE SAND W/ FINE GRAVEL	FIRM		FAST		FAST CHATTER
	89	96	SANDY CLAY W/ LIME ROCK	SOFT	ORANGE & WHITE	FAST		SMOOTH & CHOPPY
	96	118	FINE-MED-COARSE SAND W/ FINE GRAVEL	FIRM		FAST		FAST CHATTER
	118	120	CEMENTED SAND	HARD		SLOW		CHATTER
	120	143	FINE-MED-COARSE SAND W/ FINE GRAVEL	FIRM		FAST		FAST CHATTER
	143	147	GRAY CLAY	SOFT	GRAY	FAST		SMOOTH
	147	162	SANDY CLAY	SOFT	ORANGE	FAST		SMOOTH
	162	174	FINE-MED SAND	SOFT		FAST		CHOPPY
	174	187	FINE-MED-COARSE SAND	FIRM		FAST		FAST CHATTER
	187	196	FINE-MED-COARSE SAND W/ FINE-MED GRAVEL	STIFF		FAST		CHATTER
	196	197	CEMENTED SAND	HARD		SLOW		CHATTER
	197	218	FINE-MED-COARSE SAND W/ FINE GRAVEL	FIRM		FAST		FAST CHATTER
	218	221	SANDY CLAY LEDGE	SOFT	BROWN	FAST		SMOOTH
	221	273	FINE GRAVEL W/ FINE-MED-COARSE SAND	STIFF		FAST		CHATTER
	273	275	CLAY LEDGE	SOFT	BROWN	FAST		SMOOTH
	275	278	FINE-MED-COARSE SAND	FIRM		FAST		FAST CHATTER
	278	280	CLAY LEDGE STATIC	SOFT	GRAY	FAST		SMOOTH
	280	303	FINE-MED-COARSE SAND W/ FINE GRAVEL 3	STIFF		FAST		FAST CHATTER
	303	324	GRAY CLAY W/ FINE SAND LEDGES	SOFT	GRAY	FAST		SMOOTH & VIBRATION
	324	354	FINE-MED-COARSE SAND 30	FIRM		FAST		FAST CHATTER
	354	364	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	364	411	FINE-MED-COARSE SAND 47	FIRM		FAST		FAST CHATTER
	411	449	SANDY CLAY W/ LIME ROCK	FIRM	TAN & WHITE	FAST		SMOOTH & CHOPPY
	449	495	BROWN CLAY W/ LIME ROCK LEDGES	STICKY	BROWN& WHITE	FAST		SMOOTH
	495	504	FINE SAND 9	SOFT		FAST		VIBRATION
	504	522	FINE SAND W/ BROWN ROCK 18	FIRM	BROWN	FAST		FAST CHATTER
X	522	549	YELLOW SANDSTONE W/ BROWN ROCK 27	STIFF	YELLOW & BROWN	FAST		FAST CHATTER
	549	552	GREEN CLAY	HARD	GREEN	SLOW		CHATTER
	552	580	RED BED	HARD	RED	SLOW		CHATTER

134

QG - 6

WATER LOADS - 2

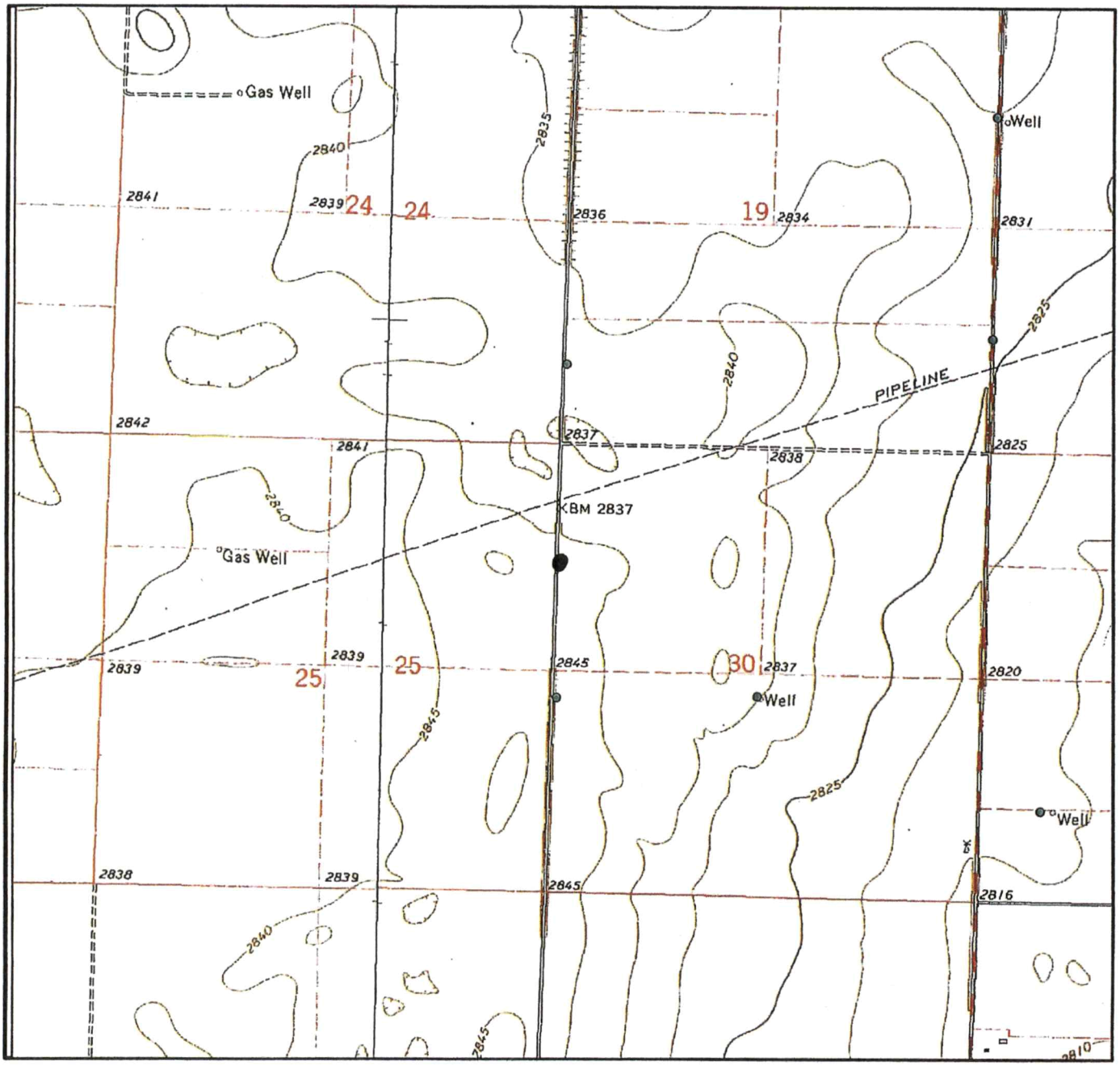
SA - 1/2

HOLE PLUG - 2

CS - 1

CHANGE IN POINT OF DIVERSION WATER RIGHT, FILE NO. 11926

NW 1/4 of Section 30, Township 30 South, Range 31 West, SW County



- Authorized Point of Diversion

- Proposed Point of Diversion

N
W E
S

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

(Signature) Date

mdf/GCFO 07/22/2024

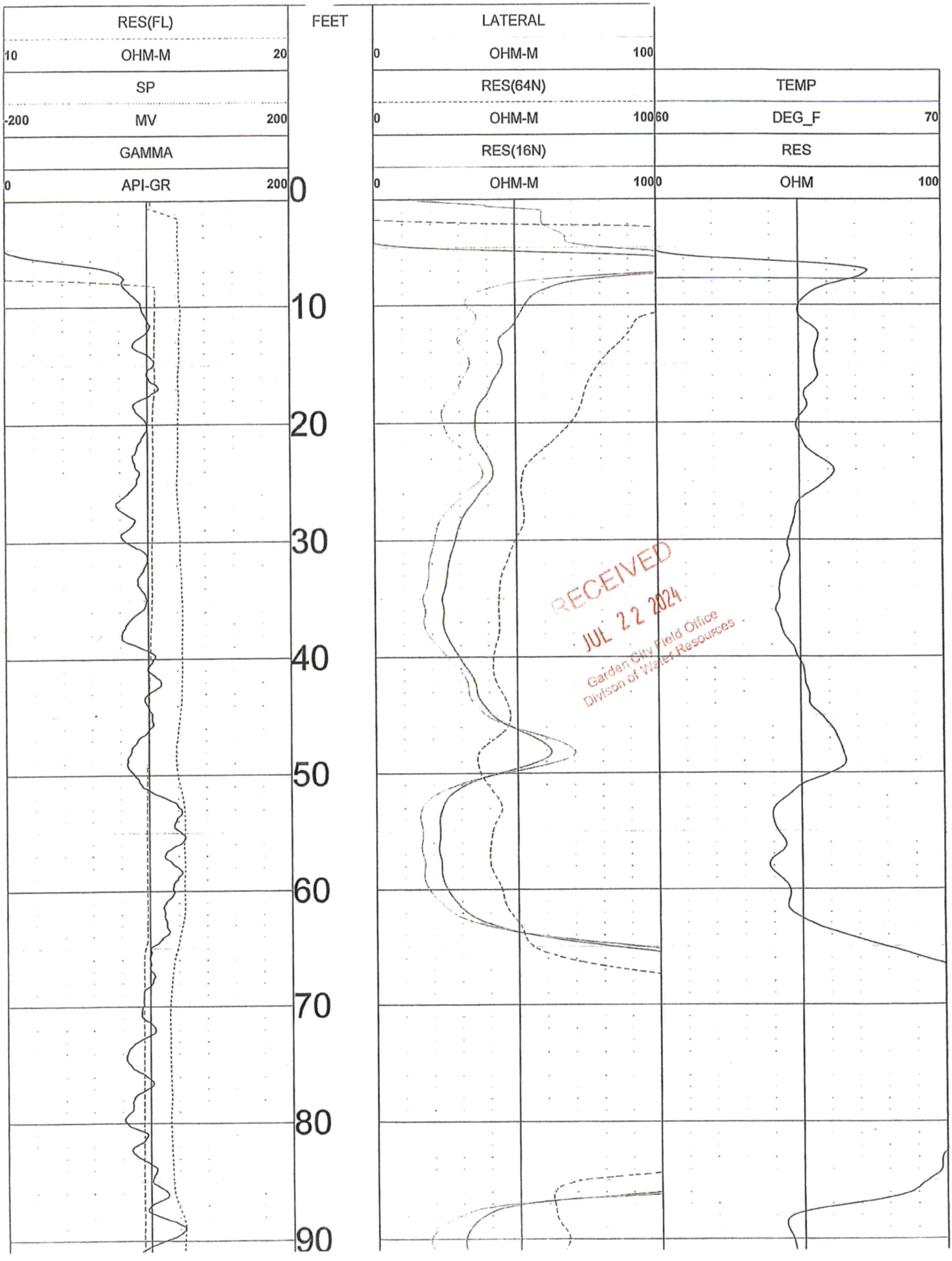
Century GEOPHYSICAL CORP.

DAVID BRYANT / BRYANT FARMS

COMPANY	: DOWNEY DRILLING INC			OTHER SERVICES:	
WELL	: DAVID BRYANT / BRYANT FARM TH#2-24				
LOCATION/FIELD	:				
COUNTY	: SEWARD				
LOCATION	: KANSAS				
SECTION	: 30	TOWNSHIP	: 31S	RANGE	: 31W
DATE	: 06/06/24	PERMANENT DATUM	: GL		
DEPTH DRILLER	: 580			KB	:
LOG BOTTOM	: 580.80	LOG MEASURED FROM:	GL	DF	:
LOG TOP	: 0.90	DRL MEASURED FROM:	GL	GL	: 2820
CASING DIAMETER	: 10.	LOGGING UNIT	: 2310		
CASING TYPE	: SURFACE	FIELD OFFICE	: O'DRISCOL		
CASING THICKNESS:		RECORDED BY	: DIEGO		
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	: 06/06/24
NEUTRON MATRIX	: LIMESTON	MATRIX DELTA T	: 49	LGTIME	: 15:16:
				THRESH	: 99999

GPS 37.325567, -100.74314

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


RES(FL)
10
OHM-M
20
SP
-200
MV
200
GAMMA
0
API-GR
200
FEET
0
10
20
30
40
50
60
70
80
90
LATERAL
0
OHM-M
100
RES(64N)
0
OHM-M
100
RES(16N)
0
OHM-M
100
TEMP
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DEG_F
70
RES
0
OHM
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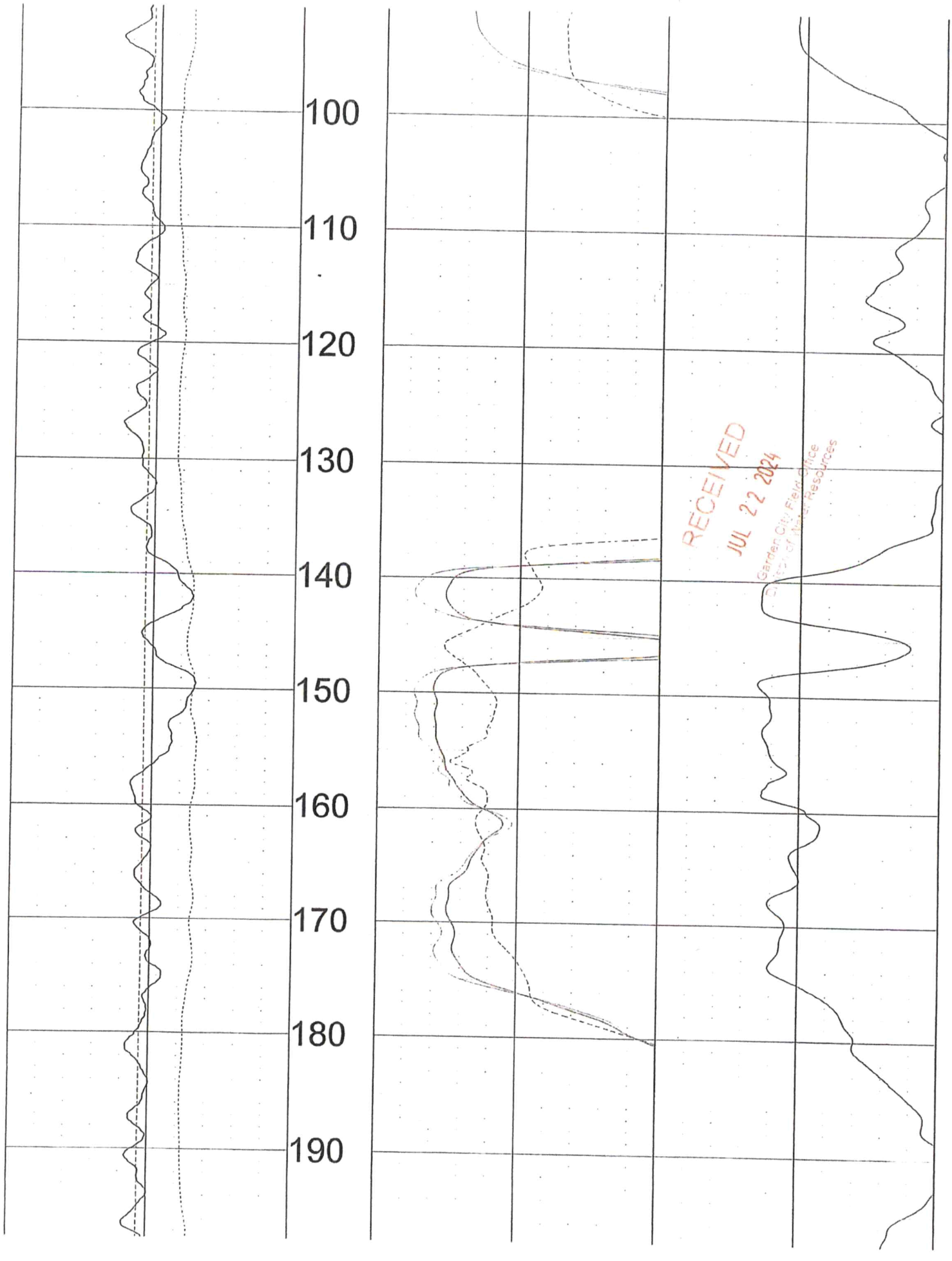
RECEIVED
JUL 22 2024
Garden City Field Office
Divison of Water Resources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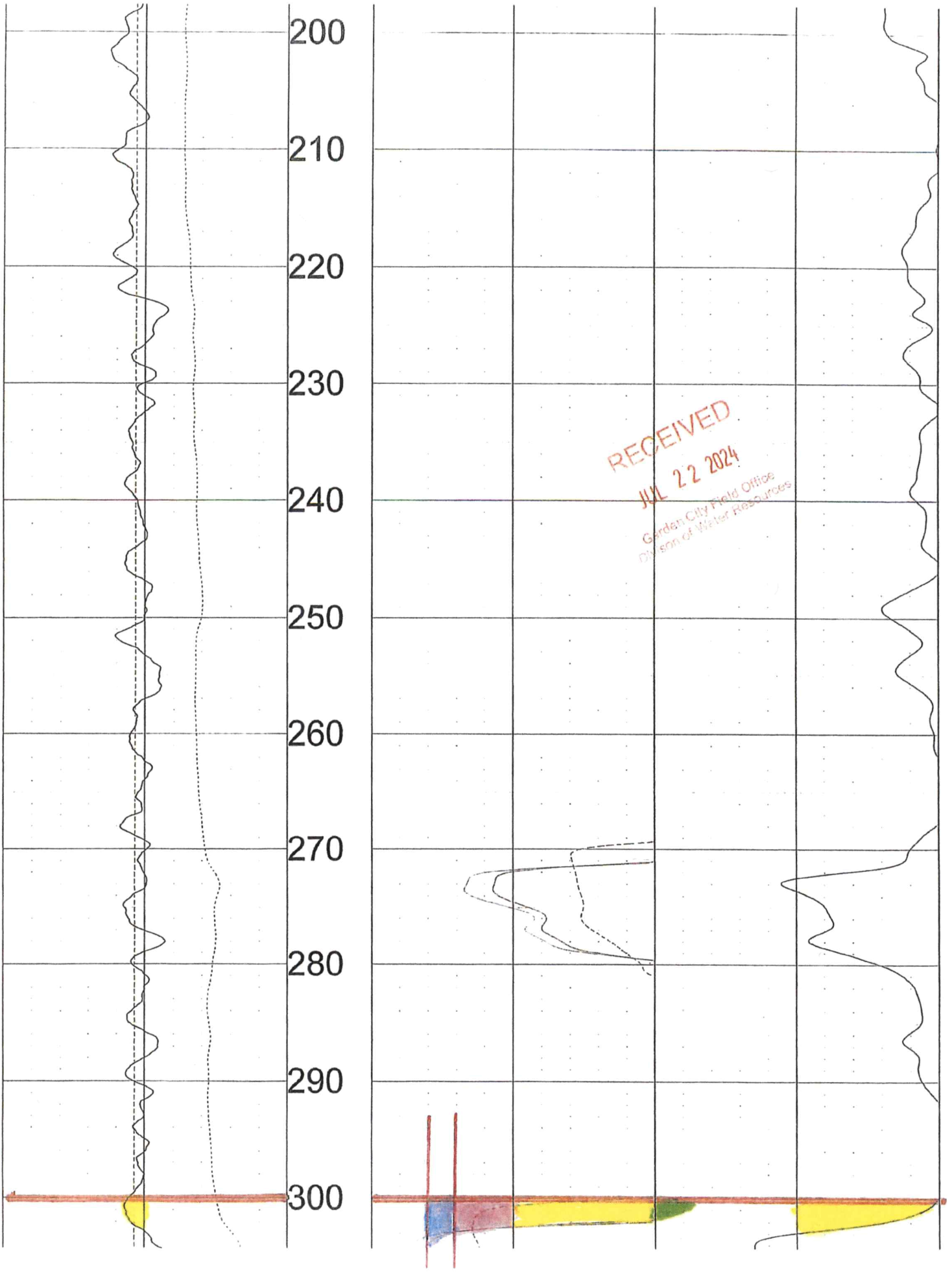
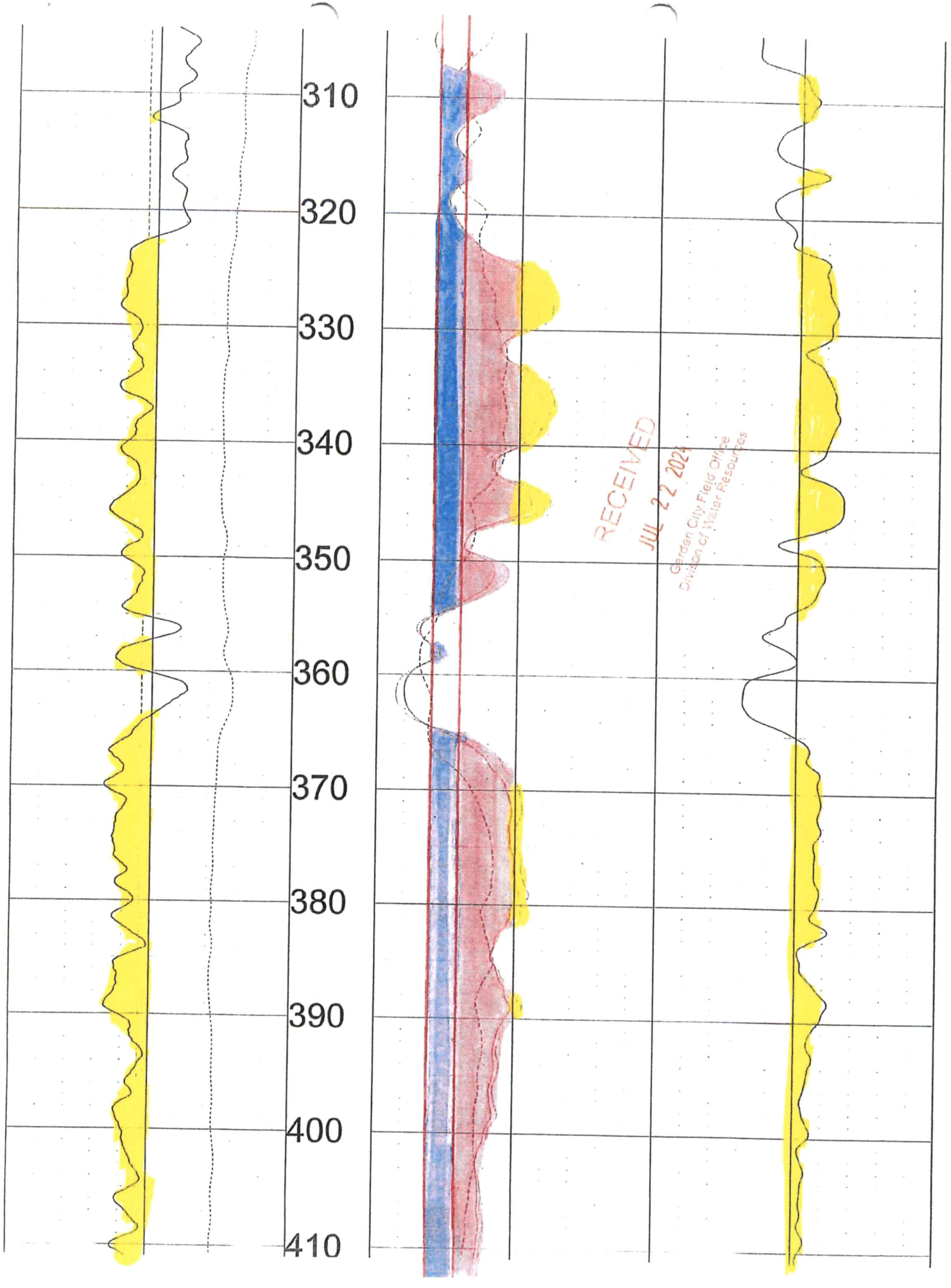
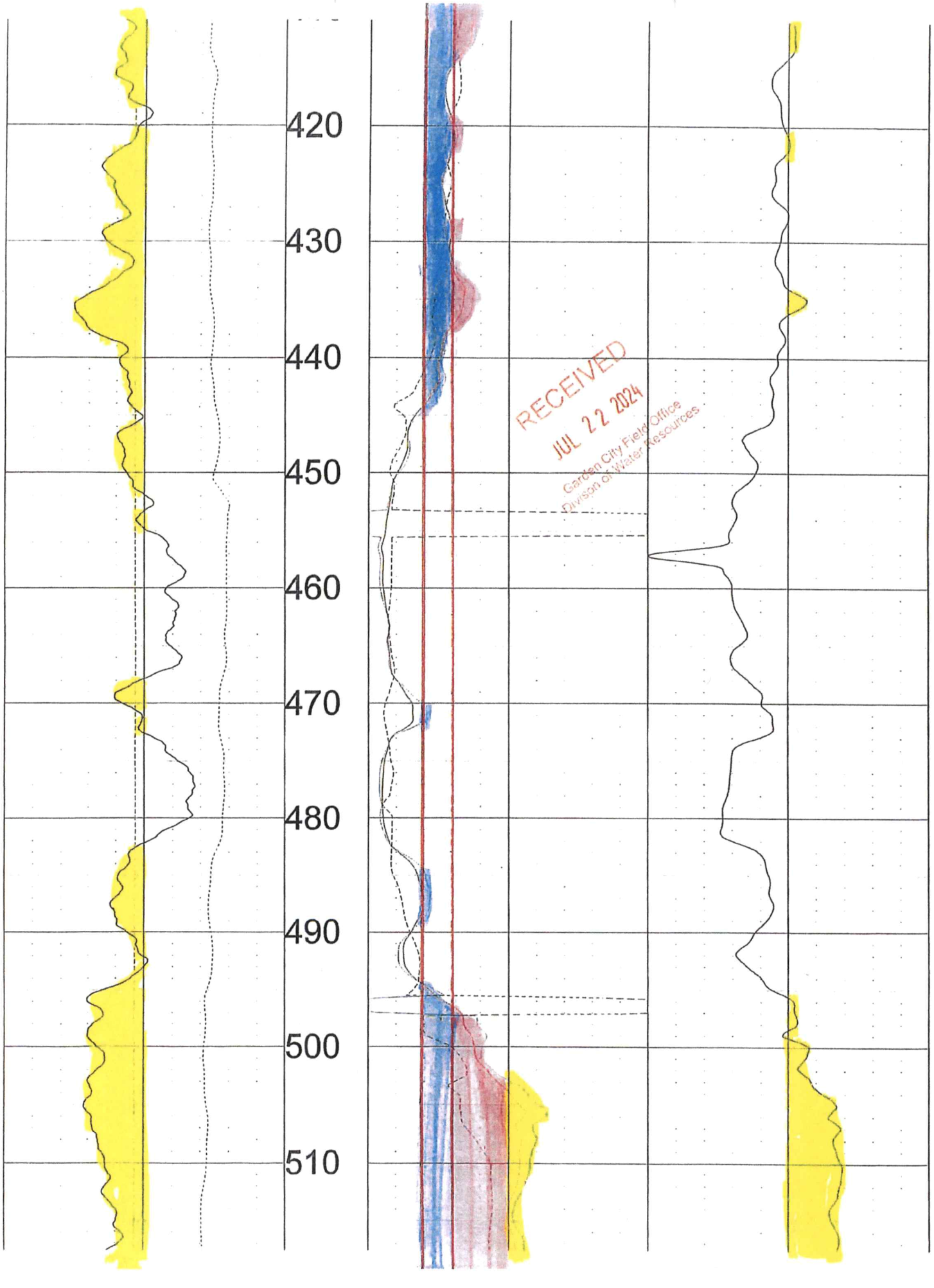
RECEIVED
JUL 22 2024
Garden City Field Office
Division of Water Resources






420
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460
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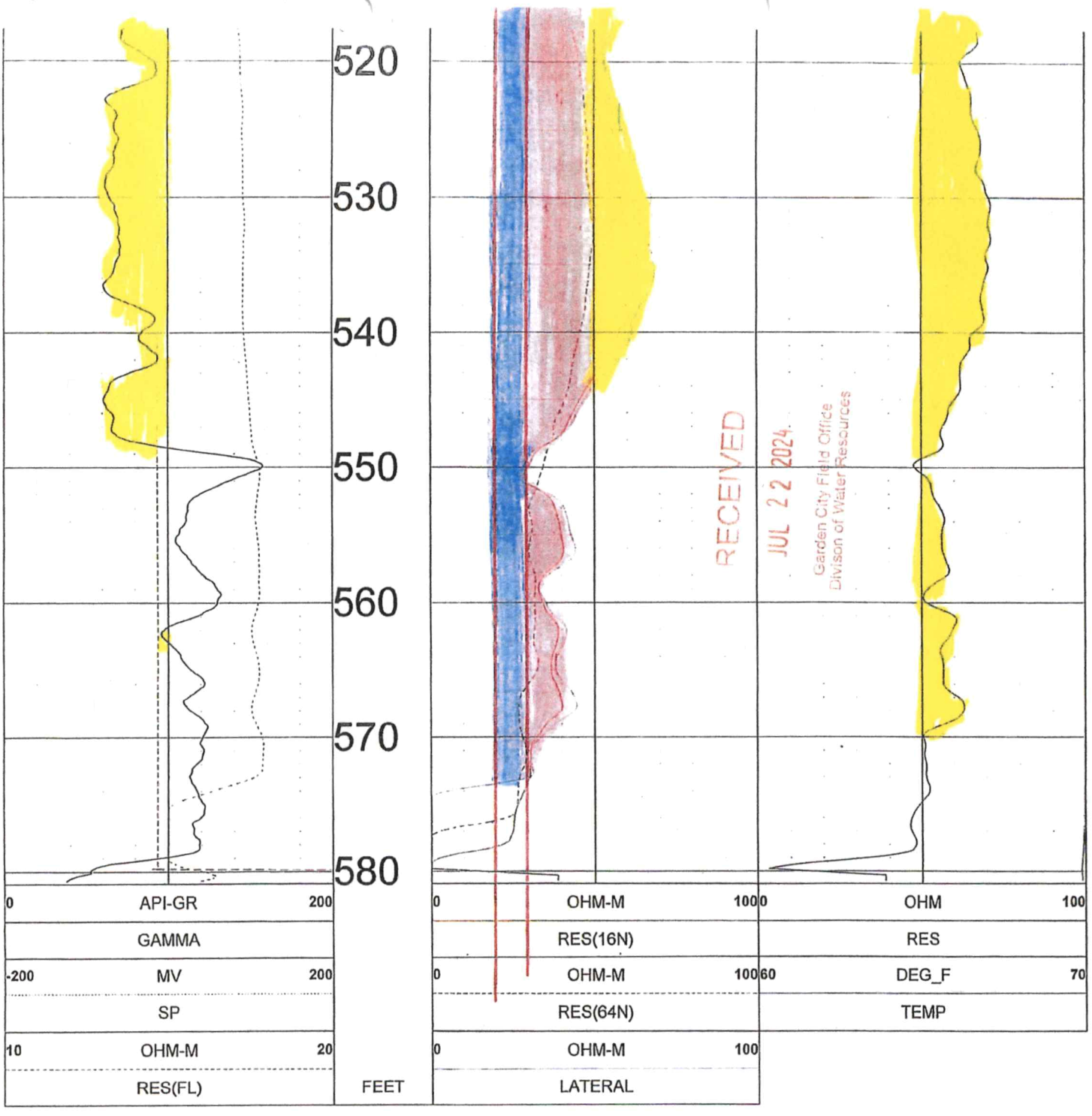
RECEIVED
JUL 22 2024
Garden City Field Office
Division of Water Resources



TOOL CALIBRATION DAVID BRYANT / BRYANT FARMS 06/06/24 15:16
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]

[illegible] Drilling Inc.
LEXINGTON, NE
ALLIANCE, NE
GARDEN CITY, KS

DATE:

CUSTOMER NAME: [illegible]

LEGAL: [illegible]

COUNTY: [illegible]

GPS: [illegible]

[illegible]

DRILLER: [illegible]

WO: [illegible]

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	Top soil	[illegible]	[illegible]	[illegible]		
	2	16	brown silt clay					
	16	[illegible]	[illegible] sand					[illegible]
	[illegible]	35	sandy clay [illegible]		[illegible]			[illegible]
	35	43	sandy clay		[illegible]			
	43	70	brown clay [illegible]		brown			
	70	80	fine sand & gravel	[illegible]				fast chatter
	80	91	sandy clay [illegible]	[illegible]	[illegible]		51 [illegible]	[illegible]
	91	118	fine sand & gravel	[illegible]				fast chatter
	118	[illegible]	[illegible]			[illegible]		chatter
	120	143	[illegible]	[illegible]		[illegible]		fast [illegible]
	143	[illegible]	[illegible]					[illegible]
	[illegible]	174	[illegible]					[illegible]
	174	[illegible]	[illegible]					[illegible]
	[illegible]	196	[illegible]					[illegible]
	196	[illegible]	[illegible]			slow		
	[illegible]	218	fine sand [illegible]	firm		fast		fast chatter
	218	[illegible]	sandy clay ledge	soft	brown			smooth
	[illegible]	[illegible]	[illegible] gravel [illegible]	[illegible]				chatter
	[illegible]	[illegible]	clay brown	soft	brown			smooth
	[illegible]	[illegible]	fine sand	firm				fast chatter
	[illegible]	[illegible]	clay brown	soft	[illegible]			smooth
	[illegible]	[illegible]	fine sand & gravel	[illegible]				fast chatter
	[illegible]	324	gray clay [illegible]	soft	grey		[illegible]	[illegible] vibration
	324	[illegible]	fine [illegible]	firm				fast chatter
	[illegible]	[illegible]	brown shale	soft	brown			smooth
	[illegible]	411	fine sand	[illegible]				fast chatter
	411	[illegible]	sandy clay [illegible]		white		[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	brown & white			[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]				vibration
	[illegible]	[illegible]	[illegible]	firm	brown			fast chatter
X	[illegible]	[illegible]	[illegible]	soft	yellow			
	[illegible]	[illegible]	[illegible] clay	[illegible]	[illegible]			chatter
	[illegible]	[illegible]	[illegible]		[illegible]			

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

November 22, 2024

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. 11926

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 not receive any comments from neighboring well owners. Therefore, GMD3 sees this move as meeting current area rules and would recommend approval. If aquifer conditions change or there is a change to the water right in the future, we would be happy to evaluate the effects at that time.

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

Sincerely,

Jason L. Norquest
Assistant Manager

GMD3 Change Review

File No(s).: 11926. DWR office: GC.
App filed to change: PD.
Is Landowner(s) correct in WRIS: David Bryant.
If NO, is documentation included?
Is Water Use Correspondent correct in WRIS? __.
If NO, is documentation included?
Regulation(s) Reviewed: KAR 5-23-3
Point of diversion ID No(s) 01 being changed.

	ft. North	ft. West	
Authorized PD	2290	5100	Sect 30-31-31
Proposed PD	3850	5100	
Difference	-1560 n	0	
a2 + b2 = c2	2433600	0	1560 foot move north

GPS for proposed PD: Lat: 37.325567 Long: -100.743148.
Is proposed PD stacking on existing WRs? No.
Is Proposed PU overlapping existing WRs? No Change.
Neighboring certified well(s) notified: __.
Name Grant E & Rhesa J Webber (17220, 30562, 43213).
Address 924 Road 190.
Zip Sublette, KS 67877.
Email: grfarms@gmail.com Phone: ___.
Base Acres: __.
Perfected Acres: __.
Irr. Return-Flow ___%
Seward County
Proposed to redrill ID 01, not the other well ID 02.
Authorized: 820AF @ 1465gpm
Avg use (2014-2023): 227.84AF/year
Reported 600gpm on 2017 WUR
2020 GMD3 inspection calculated 264gpm
Proposed depth 580'

Is a waiver needed: Move is less than half mile. Minimum spacing to neighboring wells appears met. Analysis shows effects within guidelines, no critical wells.
Recommendation: After review of available information, it appears current area rules are met. Staff therefore recommends approval of the application

JR

Report Date: Friday, November 1 2024

Water Rights and Points of Diversion Within 1 mile of point defined as:
3850 Feet N and 5100 Feet W of the Southeast Corner of Section 30 Twp 31S Rng 31W
Located at: 100.743405 West Longitude and 37.325567 North Latitude
Both SURFACE WATER and GROUNDWATER

2300' on All

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit
A 11926	00	IRR	NK	G*	1565	--	--	--	NW	2290	5100	30	31	31W	1		820.00	820.00	AF
Same					2892	--	NW	NW	SE	2350	2630	30	31	31W	2		842.00	842.00	AF
A 17220	00	IRR	NK	G	2353	--	--	--	--	920	5020	19	31	31W	4		500.00	500.00	AF
A 30562	00	IRR	NK	G	2353	--	--	--	--	920	5020	19	31	31W	4		213.00	213.00	AF
A 43213	00	IRR	NK	G	2353	--	--	--	--	920	5020	19	31	31W	4		713.00	.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) =	2375.00	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	2375.00	.00

Minimum Spacing Appears MET

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

Water Rights and Points of Diversion Within 1 mile of point defined as:
3850 Feet North and 5100 Feet West of the Southeast Corner of Section 30 Twp 31S Rng 31W
Located at: 100.743405 West Longitude and 37.325567 North Latitude
Both SURFACE WATER and GROUNDWATER
WATER USE CORRESPONDENTS:

File Number	Use	ST	SR
> DAVID BRYANT			
>			
> PO BOX 87			
> COPELAND KS 67837			

11926 Application

>----------
> GRANT E & RHESA J WEBBER
>
> 924 ROAD 190
> SUBLETTE KS 67877

17220

>----------
> GRANT E & RHESA J WEBBER
>
> 924 ROAD 190
> SUBLETTE KS 67877

30562

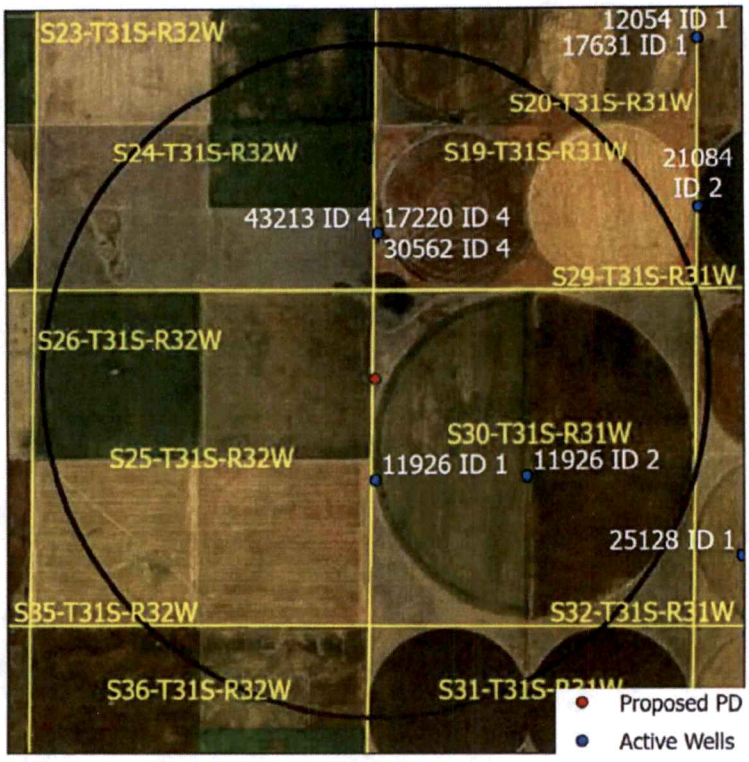
>----------
> GRANT E & RHESA J WEBBER
>
> 924 ROAD 190
> SUBLETTE KS 67877

43213

>----------

Evaluation of proposed move for Water Right No. 11926

Proposed: Move water right no. 11926 ID1 to a new well location, a distance of 1,557 ft to the north.



Wells within 1 mile: 11926 ID2 and 17220 & 30562 & 43213.

The saturated thickness at the proposed well location is estimated to be 248 ft, based upon the GMD3 model. For saturated thickness greater than 200 ft, the drawdown allowance is 4.0 ft.

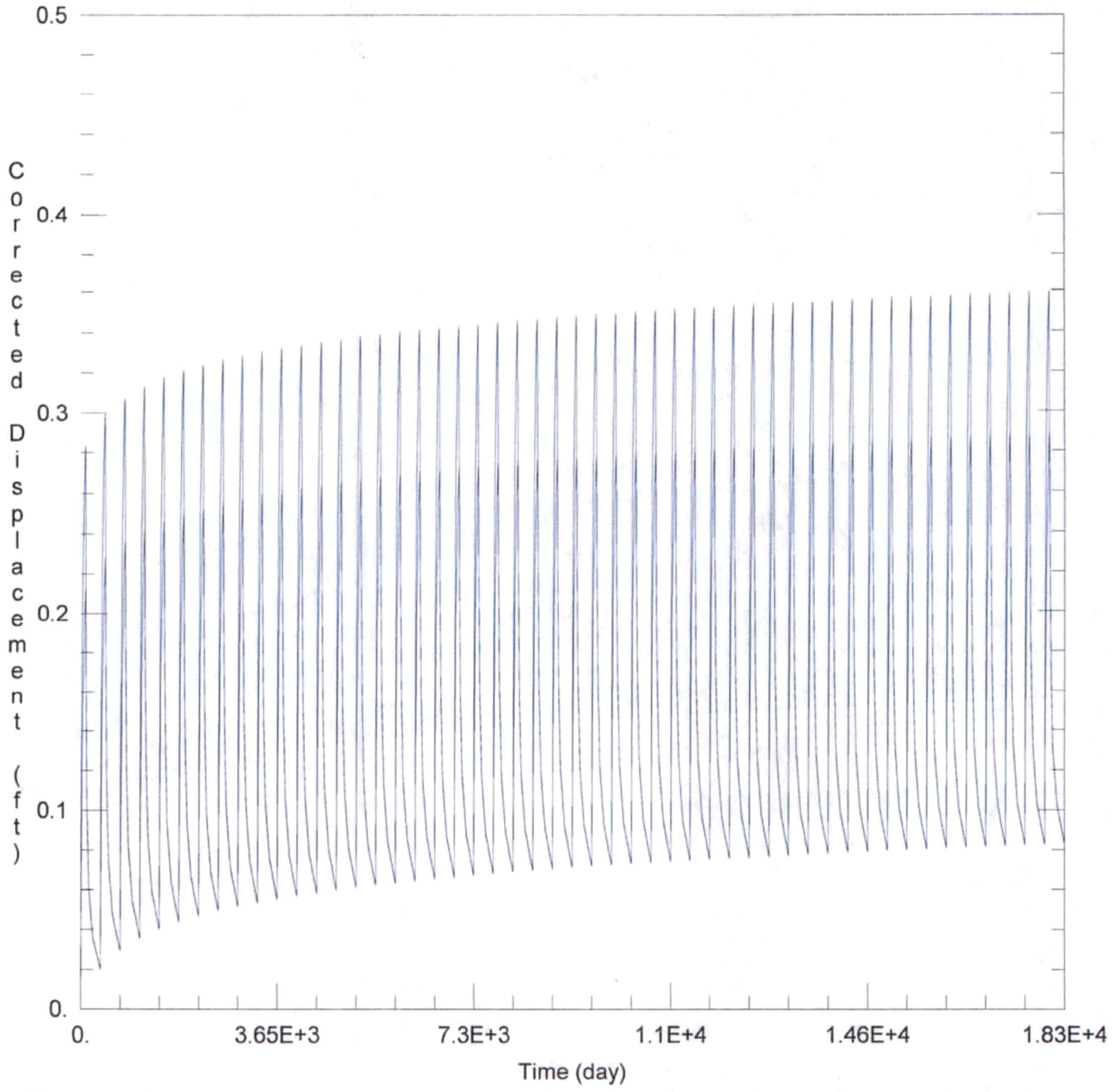
50 year Theis Analysis: The following values were used to run the analysis:

S = 0.094, T = 122.838 ft^2/day, $tp_{current}$ = 86 days (based on average use and reported rate), $Q_{current}$ = 600 gpm (based on 2017 water use report), $tp_{proposed}$ = 127 days, $Q_{proposed}$ = 1465 gpm

Theis drawdowns were calculated as follows:

11926 ID2:	Drawdown from current location = 0.36 ft
	Drawdown from proposed location = 0.97 ft
	Net drawdown = **0.6 ft**
17220 & 30562 & 43213:	Drawdown from current location = 0.29 ft
	Drawdown from proposed location = 1.04 ft
	Net drawdown = **0.8 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.



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\11926\11926 Current.aqt
Date: 11/07/24 Time: 16:22:09

PROJECT INFORMATION

Company: GMD 3
Project: 11926
Location: Seward County

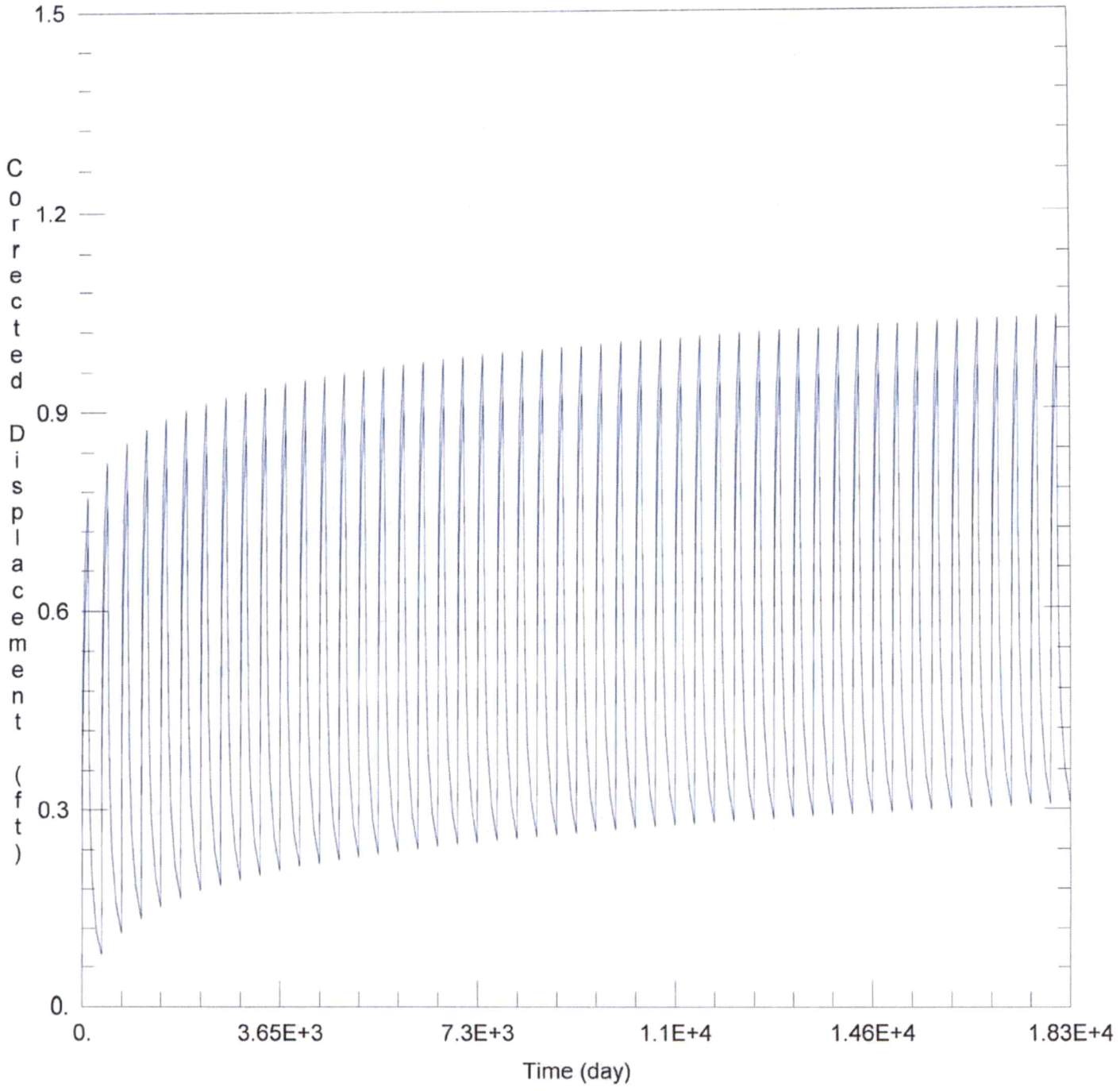
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
11926 ID1	16367	162497

Observation Wells

Well Name	X (ft)	Y (ft)
□	16367	162497
- 11926 ID2	18769	162556



WELL TEST ANALYSIS

Data Set: C:\Users\trevora\Documents\2024_moves\11926\11926 Proposed.aqt
Date: 11/07/24 Time: 16:22:03

PROJECT INFORMATION

Company: GMD 3
Project: 11926
Location: Seward County

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
11926 ID1	16370	164054

Observation Wells

Well Name	X (ft)	Y (ft)
□	16370	164054
11926 ID2	18769	162556

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

November 1, 2024

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

Re: Request for Recommendation,
File No. 11926

Dear Sir or Madam:

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

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

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

Sincerely,

Austin McColloch
Assistant Water Commissioner

Enclosure
pc:

Dear Sir or Madam:

This letter is in response to the letter from Kansas Division of Water Resources dated August 14, 2024. Lowe Colorado Farms is responding back with comments and subsequent data to **object** to the application filed by David Bryant concerning water right file # 11926 to change the point of diversion on referenced application. We intend to give you background, relevant data and concern to our objection.

Lowe Colorado Farms has an extensive financial investment in 3 quarters, (SW, SE, NE) of section 19-31-31, which adjoins WR 11926's property to the north. We have only 1 well, containing multiple water rights, 17220, 30562 and 43213, that allows for an authorized collectively quantity of 713 Acre Feet and an Authorized rate of 1370 GPM to irrigate 390 irrigated acres. In the 3 most recent years, we have efficiently pumped as follows, in 2023 - 640AF, 2022 - 708AF and 2021 - 500AF. Lowe Colorado Farms has made a substantial investment in converting the 3 pivots on said land to 30" drops, with state of the art Senninger bubbler technology, as well as Aqua Spy moisture probes to verify our use of water, and no-till and strip till farming practices to be the best stewards and most efficient user of the precious water we have left in the aquifer.

Lowe Colorado Farms primary concern is that the neighboring wells within 1 mile of our well are only capable of producing 150-400 GPM, with this said we obviously are in a small pocket or vein of water as our well still is capable of pumping 1100 GPM. The application for change in point of diversion for file #11926 is attempting to move as close as possible, to intercept and subsequently **impair** our ability to pump the current rate and Acre Feet the aquifer has available to us currently. This negative and disruptive action is an impairment to the aquifers ability to sustain itself into the future, regardless of our production practices and investment to sustain it. Lowe Colorado Farms has previous experience with a move similar to this one, which resulted in a 50% reduction in GPM within 3 months of the redrill of a neighbors well.

We hope this gives you adequate information to validate our objection to this application. If you have requests for additional information or questions concerning our objection please feel free to inquire. My phone number is (620)-353-4282 and my email is grfarmz@gmail.com.

Sincerely

Roger Kleweno Trustee for Lowe Colorado Farms

Merlin Rushton Co-Trustee for Lowe Colorado Farms

Grant Webber Tenant for Lowe Colorado Farms

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

August 14, 2024

LOWE COLORADO FARMS LLLP
PO BOX 37
BURLINGTON, CO 80807-0037

RE: Application for Change
Water Right, File Nos. 11926

Dear Sir or Madam:

This is to advise you that David Bryant 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 NW¼ Lot 2 of Section 30, Township 31 South, Range 31 West, Seward 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: