

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

1. File Number: 3816	2. Status Change Date: <u>12/10/2018</u>	3. Change Num: C2	4. Field Office: 04	5. GMD: 03
6. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return				7. Filing Date of Change: 11/24/2018
8a. Applicant(s) Person ID <u>26790</u> New to system <input type="checkbox"/> Add Seq# _____ KENNETH & SHIRLEY NICKEL 2356 110TH RD COPELAND KS 67837		8c. Landowner(s) Person ID _____ New to system <input type="checkbox"/> Add Seq# _____		
8b. Landowner(s) Person ID <u>26790</u> New to system <input type="checkbox"/> Add Seq# _____ 8a		8d. WUC Person ID <u>26790</u> New to system <input type="checkbox"/> Add Seq# _____ 8a		
9. Documents and Enclosure(s): <input checked="" type="checkbox"/> DWR Meter(s) Date to Comply: <u>12/31/2019</u> <input checked="" type="checkbox"/> N & P Date to Comply: <u>12/31/2019</u> <input type="checkbox"/> Anti-Reverse Meter <input type="checkbox"/> Meter Seal <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N & P Form <input checked="" type="checkbox"/> Water Tube <input checked="" type="checkbox"/> Driller Copy <input type="checkbox"/> H & E Letter <input type="checkbox"/> Conservation Plan Date Required: _____ Date Approved: _____ Date to Comply: _____				
10. Use Made of Water From: _____ To: _____				
Date Prepared: 12/4/2018 By: LI Date Entered: <u>12/10/2018</u> By: <u>LM</u>				

File No. **3816** 11. County: HS Basin: **CROOKED CREEK** Stream: NA Formation Code: **211 & 331** Special Use: NA

12. Points of Diversion										Rate and Quantity					
CHK MOD DEL ENT	PDIV	Qualifier	S	T	R	ID	'N	'W	Comment (AKA Line)	Authorized		Additional		Overlap PD Files	
										Rate gpm	Quantity af	Rate gpm	Quantity af		
MOD	78660	NW SW NE	31	28	31W	3	3878	2615		484	257.5	484	257.5	NONE	
ENT	<i>87207</i>	NW NW SE	31	28	31W		5253	5174	ADDL WELL	484	257.5	484	257.5	NONE	
							<i>2192 2607</i>								

**** ADDITIONAL WELL SPECIAL CONDITION ADDITIONAL WELL (REVIEW AFTER 5 -10 YRS) QUANTITY REDUCTION TO 515 AF AND RATE TO 968 GPM

13. Storage: Rate _____ NF Quantity _____ ac/ft Additional Rate _____ NF Additional Quantity _____ ac/ft

14. Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) **NONE NO CHANGE**
 Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____

15. 5YR Allocation: Allocation Type _____ Start Year _____ 5 YR Amount _____ Amount Unit _____ Base Acres _____ Comment _____

16. Place of Use CHK MOD DEL ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files
						NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼				
NO CHANGE																									

Base Acres: **320** Year: **1962** Minimum Reasonable Quantity: _____
 Comments: _____

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

M E M O R A N D U M

TO: Files

DATE: December 4, 2018

FROM: Leslie Ireland

RE: Water Right, File No. 3,816

Kenneth and Shirley Nickel filed an application for approval to change the point of diversion which was received in the office of the Chief Engineer on November 27, 2018. This application for change proposes to add an **additional well** and will be processed under K.A.R. 5-5-16. DWR staff at the Garden City Field Office, assisted with the original application that proposed just a change in point of diversion, but then decided to add an additional well and the application was modified on November 19, 2018.

The referenced water right is in compliance with K.S.A. 82a-732, and the application appears to comply with K.A.R. 5-5-2a.

The applicants propose to add a newly constructed well as an additional well for the above referenced file. The proposed well location was stated to be approximately 1,693 feet to the South of the well presently authorized by the referenced file. The new well location is proposed to be in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, located 2,192 feet North and 2,607 feet West of Section 31, Township 28, Range 31 West, Haskell County. It would appear that the move would be acceptable pursuant to GMD No. 3, K.A.R. 5-23-3(b) maximum move of 2,640 feet. The currently authorized well has been determined to be located 3,878 feet North and 2,615 feet West in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ of 31- 28-31W.

The referenced file was certified in 1962 and is currently authorized a total quantity of 548 acre-feet at a rate of 1,319 gallons per minute (gpm), there are no additional limitations on the rate or quantity. The place of use and maximum acres irrigated during the perfection period for the referenced file were found by the field office to be 320 acres which was utilized for the determination of the quantity for the consumptive use calculation as required by K.A.R. 5-5-16(a)(2)(C)(i):

$$320 \text{ acres} \times 1.37 \text{ (80\%NIR HS Co)} \div 0.85 = 515.8 \text{ acre-feet}$$

It would appear that the referenced file will require that the authorized quantity of 548 acre-feet, AF, be reduced. The owner requested the quantity be reduced to 515 AF and equally divided with 257.5 AF assigned to each well. The reduction as required by K.A.R. 5-5-16(a)(2)(C)(i) should assure that consumptive use will not increase.

The 320 authorized acres will be afforded 1.60 acre-foot per acre. This irrigation ratio appears reasonable for Haskell County where the irrigation of corn at the 80% chance of rain is 1.37 acre-feet.

The rate of diversion test as required by K.A.R. 5-5-16(a)(3)(A) was completed by KDA Staff on March 29, 2018. The standard protocol produced a maximum rate of 968 gpm (2.15 c.f.s.). The well is presently authorized a rate of 1,319 gpm and will be reduced. As required by K.A.R. 5-5-16(a)(3)(A) the owner has requested the rate be divided and 484 gpm (1.08 c.f.s.) assigned per well as specified in K.A.R. 5-5-16(d).

In summary, the owners stated on the application that they would like the approval to authorize **each well a total quantity of 257.5 acre-feet at a rate of 484 gpm (1.08 c.f.s.)**. Each well could divert its authorized quantity in approximately 121 days.

The source of supply has been determined to be the Ogallala Formation (211) and Dakota Formation (331). The 2011 change in point of diversion completed a well depth to water of 362 feet with a well depth of 720 feet to black shale. The well log for the additional well was completed by Downey Drilling Inc., from Lexington, Nebraska. The log and well were completed to 740 feet. A static water level of 382 feet was indicated on the hydroelectric log. The log for the new well indicates a ten-inch diameter casing. It appears the requirements of K.A.R. 5-5-16(b) have been met and the source of supply for the additional well will also be the Ogallala Formation (211) and Dakota Formation (331).

The applicant did not indicate any nearby wells located within one-half ($\frac{1}{2}$) mile of the proposed additional point of diversion or the currently authorized well. The KGS-KDHE Water Well records indicated that there are no domestic wells and WRIS indicates only the referenced files wells within one-half ($\frac{1}{2}$) mile. No letters were sent to request comments.

The proposed change will move 257.5 acre-feet of water to a new point of diversion and leave 257.5 acre-feet at the presently authorized well. Under K.A.R. 5-23-3 (a), **Minimum well spacing requirements: high plains aquifer** the new additional well and the existing well will each require a minimum well spacing of 1,600 feet. The wells are approximately 1,693 feet apart and a WRIS query found no other wells located or proposed to move within one-half ($\frac{1}{2}$) mile of the proposed additional well. It appears that the proposed change meets the spacing requirements of K.A.R. 5-23-3 as required by K.A.R. 5-5-13(c).

The modified application was resubmitted to the Southwest Kansas Groundwater Management District. In a letter dated December 19, (SIC) 2018, and received on December 3, 2018, Jason Norquest, Assistant Manager of the Southwest Kansas Groundwater Management District No. 3 recommended the application be approved. The previous recommendation of October 25, 2018 will be left in the file.

Michael Meyer, Water Commissioner of the Garden City Field Office recommended the application be approved via an email dated December 4, 2018.

A water flow meter will be required on each well as per K.A.R. 5-5-16(e) and a check valve is required if any chemical or foreign substance is injected through the diversion works. A water level measurement tube will be required on the well drilled under the approval. A copy of a WWC-5 will not be required. Per K.A.R. 5-5-16(a)(4), a condition will be placed on the approval that the administrative priority of the additional well will be the date the application was filed (not modified) September 24, 2018, and the approval will contain the jurisdictional wording as required by K.A.R. 5-5-16(f).

Based on the above discussion, that no change in the local source of supply will occur, that impairment to existing water rights is unlikely, the historical consumptive use should not be increased, that there are no pending applications within the vicinity of this proposed change which may be affected by this approval, it is recommended that the referenced application be approved.


Leslie Ireland
Environmental Scientist
Change Application Unit

STATE OF KANSAS

DEPARTMENT OF AGRICULTURE
1320 RESEARCH PARK DRIVE
MANHATTAN, KS 66502
PHONE: (785) 564-6700
FAX: (785) 564-6777



900 SW JACKSON, ROOM 456
TOPEKA, KS 66612
PHONE: (785) 296-3556
www.agriculture.ks.gov

GOVERNOR JEFF COLYER, M.D.
JACKIE McCLASKEY, SECRETARY OF AGRICULTURE

KENNETH & SHIRLEY NICKEL
2356 110TH RD
COPELAND KS 67837

December 13, 2018

FILE COPY

RE: Water Right, File No. 3.816

Dear Mr. & Mrs. Nickel:

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

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in the approval for change. A condition of the approval is that an acceptable water flowmeter must be installed on the diversion works authorized. Please return the required Notification of the Completion of the Diversion Works, prior to December 31, 2019.

Since this order modifies the original document referred to above, it should be recorded with the Register of Deeds as other instruments affecting real estate.

The application is adding an additional point of diversion therefor are approved subject to the condition that for the sole purpose of administering wells concerning direct impairment, the quantity and rate approved as the portion of the additional well shall be considered to have the priority of the date the applications were filed (September 24, 2018).

If you have any questions, please contact Leslie Ireland, Environmental Scientist, at (785) 564-6633. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

Brent A. Turney, P.G.
Change Application Unit Supervisor

BAT:LI:li
Enclosures

pc: Garden City Field Office
Groundwater Management District No. 3

**KANSAS DEPARTMENT OF AGRICULTURE**

Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES

David W. Barfield, Chief Engineer

**APPROVAL OF APPLICATION
FOR
CHANGE IN POINT OF DIVERSION
WATER RIGHT
FILE NO. 3.816**

The Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, after due consideration of the written application of Kenneth & Shirley Nickel, 2356 110th Road Copeland, Kansas 67837, received in this office on September 24, 2018, for approval of a change in the location of the point of diversion under the certificate of appropriation issued pursuant to the application for permit to appropriate water for beneficial use, as modified and amended by the orders of the Chief Engineer dated August 5, 1977 and May 16, 2011, approving the applications to change the authorized point of diversion, finds that the change is reasonable and will not impair existing rights, that the change relates to the same local source of supply and that the application should be and is hereby approved.

This order effectively reduces the authorized maximum rate of diversion to 968 gallons per minute (2.16 c.f.s.) and a quantity of water to 515 acre-feet per calendar year.

The application, therefore, is approved subject to the condition that for the sole purpose of administering wells concerning direct impairment, the additional well shall be considered to have the priority of the date the application was filed (September 24, 2018) to add the additional well.

The effective date of the change shall be the date this order is executed by the Chief Engineer, after which the authorized location of the points of diversion shall be:

one (1) well located in the Northwest Quarter of the Southwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 31, more particularly described as being near a point 3,878 feet North and 2,615 feet West of the Southeast corner of said section, at a diversion rate not in excess of 484 gallons per minute (1.08 c.f.s.) and in a quantity not to exceed 257.5 acre-feet per calendar year, and

one (1) well located in the Northwest Quarter of the Northwest Quarter of the Southeast Quarter (NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$) of Section 31, more particularly described as being near a point 2,192 feet North and 2,607 feet West of the Southeast corner of said section, at a diversion rate not in excess of 484 gallons per minute (1.08 c.f.s.) and in a quantity not to exceed 257.5 acre-feet per calendar year,

both in Township 28 South, Range 31 West, Haskell County, Kansas,

located substantially as shown on the topographic map accompanying the application to change the point of diversion.

Installation of the works for diversion of water shall be completed on or before December 31, 2019, or within any authorized extension of time. The applicant shall notify the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture, when construction of the works for diversion has been completed.

All wells with a diversion rate of 100 gallons per minute or more drilled under the authority of this order shall have a tube or other device installed in a manner acceptable to, and in accordance with specifications adopted by, the Chief Engineer. This tube or device shall be suitable for making water level measurements and shall be maintained in a condition satisfactory to the Chief Engineer.

The water right owner shall properly install an acceptable water meter on the diversion works authorized under this water right, prior to the use of water, in strict accordance with the Kansas Administrative Regulations 5-1-4 through 5-1-12 adopted by the Chief Engineer. The water right owner shall notify the Chief Engineer when installation of the water meter has been completed. The water right owner shall maintain the water meter in an operating condition satisfactory to the Chief Engineer, at all times during diversion of water and shall maintain records from which the total quantity of water diverted may be determined. The water right owner shall also report the reading of said water meter and the total quantity of water diverted annually to the Chief Engineer. Such records shall be furnished to the Chief Engineer by March 1 following the end of each calendar year.

In all other respects, the Certificate of Appropriation issued pursuant to Approval of Application, File No. 3.816, for permit to appropriate water for beneficial use, is as stated and set forth in the Certificate of Appropriation dated November 8, 1962, as modified and amended by the aforementioned orders.

Ordered this 10th day of December, 2018, at Manhattan, Riley County, Kansas.

Lane P. Letourneau
Lane P. Letourneau, P.G.
Program Manager
Division of Water Resources
Kansas Department of Agriculture

State of Kansas)
)
County of Riley) SS

The foregoing instrument was acknowledged before me this 10th day of December, 2018, by Lane P. Letourneau, P.G., Program Manager, Division of Water Resources, Kansas Department of Agriculture.



Danielle Wilson
Notary Public

RIGHT TO A HEARING AND TO ADMINISTRATIVE REVIEW

If you are aggrieved by this Order, then pursuant to K.S.A. 82a-1901, you may:

- 1) request an evidentiary hearing before the Chief Engineer, or
- 2) request administrative review by the Secretary of Agriculture.

Failure to request an evidentiary hearing before the Chief Engineer does not preclude your right to administrative review by the Secretary.

To obtain an evidentiary hearing before the Chief Engineer, a written request for hearing must be filed within 15 days after service of this Order as provided in K.S.A. 77-531 (i.e., **within a total of 18 days after this Order was mailed to you**), with: Kansas Department of Agriculture, Attn: Legal Section, 1320 Research Park Drive, Manhattan, KS 66502, FAX (785) 564-6777.

If you do not file a request for an evidentiary hearing before the Chief Engineer, you may petition for administrative review of the Order by the Secretary of Agriculture. A petition for review shall be in writing and state the basis for requesting administrative review. The request for hearing may be denied if the request fails to clearly establish factual or legal issues for review. See K.S.A. 77-527. The petition must be filed within 30 days after service of this Order as provided in K.S.A. 77-531 (i.e., **within a total of 33 days after this Order was mailed to you**), and be filed with: Secretary of Agriculture, Attn: Legal Division, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, KS 66502, FAX (785) 564-6777.

If neither a request for an evidentiary hearing nor a petition for administrative review is filed as set forth above, then this Order shall be effective and become a final agency action as defined in K.S.A. 77-607(b). Failure to timely request either an evidentiary hearing or administrative review may preclude further judicial review under the Kansas Judicial Review Act.

CERTIFICATE OF SERVICE

On this ^{5th} day of ~~December~~ *December* 2018, I hereby certify that the attached Approval of Application for Change in Point of Diversion, Water Right, File No. 3.816, dated *December 10th, 2018* was mailed postage prepaid, first class, US mail to the following:

KENNETH & SHIRLEY NICKEL
2356 110TH RD
COPELAND KS 67837

With a Photocopy to:

Garden City Field Office
Groundwater Management District No. 3


Division of Water Resources

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

Call for address:

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

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



STATE OF KANSAS

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

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

File No. 3816

RECEIVED
 3:34 pm
 SEP 24 2018

1. Application is hereby made for approval of the Chief Engineer to change the (check one or both):
 Place of Use Point of Diversion
 under the water right which is the subject of this application in accordance with the conditions described below.
 The source of supply is: Groundwater Surface water

Garden City Field Office
 Division of Water Resources

2. Name and address of Applicant: KENNETH & SHIRLEY NICKEL
2356 110TH RD COPELAND KS 67837
 Phone Number: (620)260-7812 Email address: _____
 Name and address of Water Use Correspondent: KENNETH & SHIRLEY NICKEL
2356 110TH RD COPELAND KS 67837
 Phone Number: () Email address: _____

Water Resources
 Received
 NOV 27 2018
 KS Dept Of Agriculture

3. The presently authorized place of use is:
 Owner of Land ---- NAME: KENNETH & SHIRLEY NICKEL
 ADDRESS: 2356 110TH RD COPELAND KS 67837
 (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: no change to acres irrigated
 ADDRESS: _____
 (If there is more than one landowner, attach supplemental sheets as necessary.)

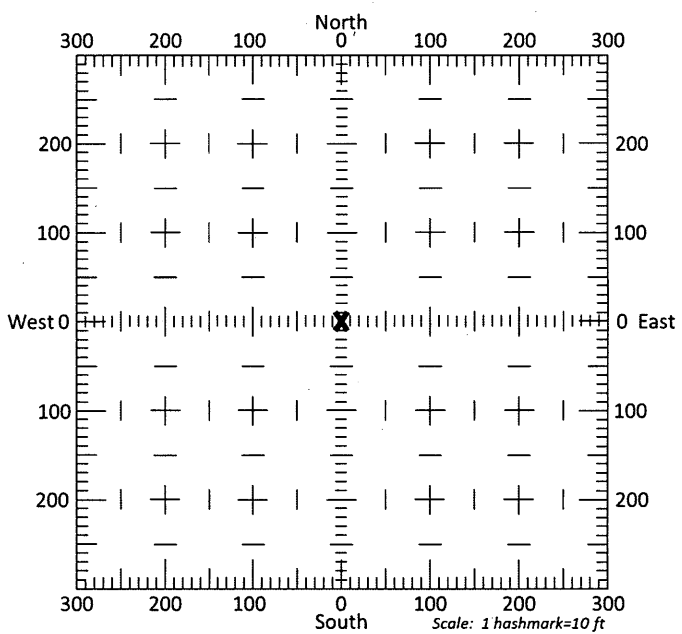
Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

For Office Use Only: Code _____ Fee \$ 200 TR # _____ Receipt Date 9/28/18 Check # 7239

5. **Presently authorized point of diversion:**
 One in the nw Quarter of the sw Quarter of the ne Quarter
 of Section 31 , Township 28 South, Range 31 W,
 in Haskell County, Kansas, 3885 feet North 2611 feet West of Southeast corner of section.
 Authorized Rate 1319 GPM Authorized Quantity 548 AF Depth of well 720 (feet)
 (DWR use only: Computer ID No. 3 GPS feet North feet West)
 This point will not be changed This point will be changed as follows: No change, point better described with GPS as follows:
Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)
 One in the ne Quarter of the ne Quarter of the se Quarter
 of Section 31 , Township 28 South, Range 31 W,
 in Haskell County, Kansas, 2192 feet North 2607 feet West of Southeast corner of section.
 Proposed Rate 1319 GPM Proposed Quantity 548 AF Proposed well depth (feet) 720
 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 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.
 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 (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)
would like to redrill for higher flow rate
may apply to add first well back on as additional.
8. If a well, is the test hole log attached? Yes No
9. The change(s) (was)(will be) completed by?
Fall 2018
10. If the point of diversion is a well:
 (a) What are you going to do with the old well?
Plug
 (b) When will this be done? 2018
11. Groundwater Management District recommendation attached?
 Yes No
12. Assisted by tpm



- 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 300 feet of the existing point of diversion, indicate its location on the diagram shown above in relation to the existing point of diversion. (PLEASE NOTE: The "X" in center of diagram above represents the presently authorized point of diversion.)

Submit To: CHIEF ENGINEER
Division of Water Resources
Kansas Department of Agriculture
1320 Research Park Drive
Manhattan, Kansas 66502
http://agriculture.ks.gov/dwr

**APPLICATION FOR APPROVAL TO
CHANGE THE PLACE OF USE, THE
POINT OF DIVERSION OR THE USE
MADE OF THE WATER UNDER AN
EXISTING WATER RIGHT**



State of Kansas

*Filing Fee Must Accompany the Application
(Please refer to Fee Schedule on signature page of application form.)*

Paragraph Nos. 1, 2, 3, 4 & 8 must be completed. Complete all other applicable portions. A topographic map or detailed plat showing the authorized and proposed points(s) of diversion and /or place of use must accompany this application.

1. Application is hereby made for approval of the Chief Engineer to change the

- Place of Use
 Point of Diversion
 Use Made of Water

(Check one or more)

Water Resources
Received

NOV 27 2018

KS Dept Of Agriculture

File No. 3816

2. Name of applicant: KENNETH & SHIRLEY NICKEL

Address: 2356 110TH RD,

City, State and Zip: COPELAND KS 67837

Phone Number: (620)260-7812 E-mail address: _____

What is your relationship to the water right; owner tenant agent other? If other, please explain. _____

Name of water use correspondent: no change

Address: _____

City, State and Zip: _____

Phone Number: () _____ E-mail address: _____

3. The change(s) proposed herein are desired for the following reasons (please be specific): _____

TO ADD A WELL FOR AN ADDITIONAL WELL

The change(s) (was) (will be) completed by 2019

(Date)

For Office Use Only:

F.O. _____ GMD _____ Meets K.A.R. 5-5-1 (YES / NO) Use _____ Source G / S County _____ By _____ Date _____
Code _____ Fee \$ _____ TR # _____ Receipt Date _____ Check # _____

4. The presently authorized place of use is:

Owner of Land — NAME: NO CHANGE

ADDRESS: _____

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			

List any other water rights that cover this place of use. _____

Owner of Land — NAME: _____

ADDRESS: _____

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				

List any other water rights that cover this place of use. _____

(If there are more than two landowners, attach additional sheets as necessary.)

5. It is proposed that the place of use be changed to:

Owner of Land — NAME: NO CHANGE

ADDRESS: _____

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					

List any other water rights that cover this place of use. _____

Owner of Land — NAME: _____

ADDRESS: _____

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						

List any other water rights that cover this place of use. _____

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

11-19-18

- 6. The presently authorized point(s) of diversion (is) (are) ONE WELL
(Provide description and number of points)
- 7. The proposed point(s) of diversion (is) (are) TWO WELLS
(Provide description and number of points)

List all presently authorized point(s) of diversion:

8. **Presently authorized point of diversion:**
 One in the NW Quarter of the SW Quarter of the NE Quarter of Section 31, Township 28 South, Range 31 W, in HS County, Kansas, 3885 feet North 2611 feet West of Southeast corner of section.
 Authorized Rate 1319 GPM Authorized Quantity 548 AF
 (DWR use only: Computer ID No. 03 GPS 37.57266 feet North -100.75220 feet West)
 This point will not be changed This point will be changed as follows:
Proposed point of diversion: (Complete only if change is requested)
 One in the NW Quarter of the SW Quarter of the NE Quarter of Section 31, Township 28 South, Range 31 W, in HS County, Kansas, 3878 feet North 2615 feet West of Southeast corner of section.
 Proposed Rate 484 GPM Proposed Quantity 257.5 AF
 This point is: Additional Well Geo Center List other water rights that will use this point _____

9. **Presently authorized point of diversion:**
 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.
 Authorized Rate _____ Authorized Quantity _____
 (DWR use only: Computer ID No. _____ GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows:
Proposed point of diversion: (Complete only if change is requested)
 One in the NE NW Quarter of the NE NW Quarter of the SE Quarter of Section 31, Township 28 South, Range 31 W, in HS County, Kansas, 2192 feet North 2607 feet West of Southeast corner of section.
 Proposed Rate 484 GPM Proposed Quantity 257.5 AF
 This point is: Additional Well Geo Center List other water rights that will use this point _____

10. **Presently authorized point of diversion:**
 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.
 Authorized Rate _____ Authorized Quantity _____
 (DWR use only: Computer ID No. _____ GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows:
Proposed point of diversion: (Complete only if change is requested)
 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 _____
 This point is: Additional Well Geo Center List other water rights that will use this point _____

- 11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used. _____

Water Resources

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

* LI/DWR 12/3/18

NOV 27 2018

SCANNED

KS Dept Of Agriculture

12. The presently authorized use of water is for IRR purposes.

It is proposed that the use be changed to NO CHANGE purposes.

13. If changing the place of use and/or use made of water, describe how the consumptive use will not be increased.

KAR 5-5-16, 320 ACRES = PERFECTED ACRES. CONSUMPTIVE USE = 515 AF

(Please show any calculations here.)

14. It is requested that the maximum annual quantity of water be reduced to 515 (acre-feet).

15. It is requested that the maximum rate of diversion of water be reduced to 968 gallons per minute (2.15 c.f.s.).

16. The application must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 1:24,000, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, Kansas 66047-3726 (www.usgs.gov). The map should show the location of the presently authorized point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. The presently authorized place of use should also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate section, township, and range numbers on the map. In addition the following information must also be shown on the map.

a. If a change in the location of the point(s) of diversion is proposed, show:

- 1) The location of the proposed point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. Please be certain that the information shown on the map agrees with the information shown in Paragraph Nos. 9, 10 and 11 of the application.
- 2) If the source of supply is groundwater, please show the location of existing water wells of any kind, including domestic wells, within 1/2 mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please indicate so on the map.
- 3) If the source of supply is surface water, the names and mailing addresses of all landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.

b. If a change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be certain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.

17. Attach documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same local source of supply as to which the water right relates. This information may include statements, plats, geology reports, well logs, test hole logs, and other information as necessary information to show the above. Additional comments may be made below.

SAME LOCAL SOURCE OF SUPPLY

NO CHANGE IN SOURCE OF SUPPLY

18. If the proposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, please identify the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why the request should be granted. Attach documentation showing that granting the request will not impair existing water rights and will not prejudicially and unreasonably affect the public interest.

NONE

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

JRS CS 10/11

and file in 10 days

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 _____, Kansas, this _____ day of _____, 20_____.

X Kenneth Nickel
 (Owner)

X Shirley Nickel
 (Spouse)

KENNETH NICKEL
 (Please Print)

SHIRLEY NICKEL
 (Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

State of Kansas }
 County of Neosho } SS



I hereby certify that the foregoing application was signed in my presence and sworn to before me this 21st day of September, 2018.

Shelly M. Downing
 Notary Public

My Commission Expires Feb. 9, 2022.

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

Water Resources
 Received

NOV 27 2018

SCANNED
 File No. _____

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. 3816.

1. A change application was received on _____ requesting that the place of use and / or point of diversion authorized under the above-referenced file number be changed as described in the application.
2. On and after the effective date of this summary order, the authorized place(s) of use shall be located substantially as shown on the topographic map accompanying the application to change the place of use. Applicable Not Applicable
3. The change in point of diversion shall not impair existing rights and shall be limited to the same source or sources of water as previously authorized. The point of diversion authorized by this summary order shall be located within a 300 foot radius of the authorized point(s) of diversion. Applicable Not Applicable
4. The point(s) of diversion described herein is administratively corrected to be more accurately described using the Global Positioning System (GPS), as described in the application. Applicable Not Applicable
5. The point(s) of diversion authorized herein shall not actually be located more than _____ feet from the previously authorized point(s) of diversion. Applicable Not Applicable
6. As required by K.A.R. 5-3-5d, if the works for diversion is a well with a diversion rate of 100 gallons per minute or more, a tube or other device suitable for making water level measurements shall be installed, operated and maintained in accordance with K.A.R. 5-6-13. Applicable Not Applicable
7. **The owner of the authorized place(s) of use shall properly install an acceptable water flow meter on or before December 31, 2018**, 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, 2018**, or within any authorized extension of time. By March 1, 2019 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: _____
 Duly Authorized Designee of the Chief Engineer

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

Date of Issuance: _____

State of Kansas)
) SS

County of _____)

Acknowledged before me on _____
 by _____

Signature: _____
 Notary Public

My commission expires: _____
 (Notary Seal)

Any use of water that is not as authorized by the water right or permit to authorize water **before** the chief engineer approves this application is a violation of the Kansas Water Appropriation Act for which criminal or civil penalties may be assessed. Such violation is a class C misdemeanor, punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. K.S.A. 82a-728(b). Civil penalties shall be not less than \$100 nor more than \$1,000 per violation. In the case of a continuing violation, each day such violation continues may be deemed a separate violation. In addition to these penalties the water right may be modified or suspended. K.S.A. 82a-737, as amended.

The application must be signed by all owners of the place of use authorized under the water right and his or her spouse, if married. Please indicate if there is no spouse. If land is being purchased under contract, the seller must sign as landowner until such time as the contract is completed.

In the event that all applicants cannot appear before one notary public, they may as necessary sign separate copies of the application before any notary public conveniently available to them. All copies signed in this manner shall be considered to be valid parts of the application.

If the request is signed on behalf of any Owner by someone with legal authority to do so (for example, an agent, one who has power of attorney, or an executor, executrix, conservator), it will be necessary to attach proper documents showing such authority.

I declare that I am an owner of the currently authorized place of use as identified herein, or that I represent all such owners and am authorized to make this application on their behalf, and declare further that the statements contained herein are true, correct, and complete. By filing this application I authorize the chief engineer to permanently reduce the quantity of water and/or rate of diversion as specified in sections 14 and 15 of this application.

Dated at _____, Kansas, this _____ day of _____, 20_____.

Kenneth Nickel
(Owner)

Kenneth Nickel
(Please Print)

(Owner)

(Please Print)

(Owner)

(Please Print)

Shirley Nickel
(Spouse)

Shirley Nickel
(Please Print)

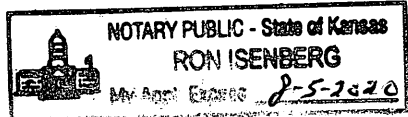
(Spouse)

(Please Print)

(Spouse)

(Please Print)

State of Kansas }
County of Haskell } SS



I hereby certify that the foregoing application was signed in my presence and sworn to before me this 20 day of November, 2018.

My Commission Expires 8-5-2020

Ron Isenberg
Notary Public

FEE SCHEDULE

Each application to change the place of use, the point of diversion or the use made of the water under this section shall be accompanied by the application fee set forth in the schedule below:

- | | | |
|---|-----------------|-------|
| (1) Application to change a point of diversion 300 feet or less | Water Resources | \$100 |
| (2) Application to change a point of diversion more than 300 feet | Received | \$200 |
| (3) Application to change the place of use | | \$200 |
| (4) Application to change the use made of the water | | \$300 |

Make check payable to **Kansas Department of Agriculture.**

NOV 27 2018

RECEIVED
KS Dept Of Agriculture

NOV 20 2018

SCANNED

Garden City Field Office
Division of Water Resources

Water Rights and Points of Diversion Within 1.00 miles of point defined as:

3878 ft N and 2615 ft W of the SE Corner of Section 31, T 28S, R 31W

Located at: 100.752201 West Longitude and 37.572662 North Latitude

GROUNDWATER ONLY

COMMONLY AUTHORIZED VS ACTUAL

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit	
A__ 3816 00	IRR	NK	G*	3878	8	--	NW	SW	NE	3885	2611	31	28	31W	3		548.00	548.00	AF
A__ 9593 00	IRR	NK	G	3920	--	NW	NW	SE	2520	2615	30	28	31W	2		1280.00	1280.00	AF	
Same				4853	--	SE	SE	NE	2783	172	30	28	31W	6					
A__ 19135 00	IRR	NK	G	4193	--	--	--	NE	5190	4050	6	29	31W	1		367.00	367.00	AF	
A__ 20019 00	IRR	NK	G	3920	--	NW	NW	SE	2520	2615	30	28	31W	2		190.00	.00	AF	
Same				4420	--	NW	NW	SW	2535	4645	30	28	31W	5		392.00	.00	AF	
Same				4853	--	SE	SE	NE	2783	172	30	28	31W	6		698.00	.00	AF	
A__ 26454 00	IRR	NK	G	4420	--	NW	NW	SW	2535	4645	30	28	31W	5		432.00	.00	AF	
A__ 27323 D2	IRR	NK	G	3012	--	SW	SW	NW	2695	5160	32	28	31W	2		309.00	309.00	AF	
A__ 28674 00	IRR	NK	G	2754	--	--	--	--	4971	5143	31	28	31W	2		290.00	290.00	AF	

→ AUTHORIZED

> 2640'

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) =	2794.00	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	2794.00	.00

An * after the source of supply indicates a pending application for change for the file number.

An * after the ID indicates a 15 AF exemption was granted for 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 1.00 miles of point defined as:

100.752201 West Longitude and 37.572662 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

- File Number Use ST SR
- A__ 3816 00 IRR NK G
- > KENNETH & SHIRLEY NICKEL
- >
- > 2356 110TH RD
- > COPELAND KS 67837
- >-----
- A__ 9593 00 IRR NK G
- > JEAN M KOELLING
- >
- > PO BOX 1120
- > DODGE CITY KS 67801
- >-----
- A__ 19135 00 IRR NK G
- > LBJ FARM LLC
- >
- > 445 AVENAL LANE

> GRAND JUNCTION CO 81507

A__ 20019 00 IRR NK G

> JEAN M KOELLING

>

> PO BOX 1120

> DODGE CITY KS 67801

A__ 26454 00 IRR NK G

> JEAN M KOELLING

>

> PO BOX 1120

> DODGE CITY KS 67801

A__ 27323 D2 IRR NK G

> HENRY H & AGATHA T WIEBE

>

> 1095 TT RD

> COPELAND KS 67837

A__ 28674 00 IRR NK G

> DERECK W & AMY L NICKEL

>

> 1197 TT RD

> COPELAND KS 67837

=====

Water Rights and Points of Diversion Within 1.00 miles of point defined as:

2192 ft N and 2607 ft W of the SE Corner of Section 31, T 28S, R 31W

Located at: 100.752173 West Longitude and 37.568032 North Latitude

GROUNDWATER ONLY

PROPOSED ADL WELL FROM AUTHORIZED

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit	
A__ 3816	00	IRR	NK	G*	1693	--	NW	SW	NE	3885	2611	31	28	31W	3		548.00	548.00	AF ←
A__ 19135	00	IRR	NK	G	2672	--	--	--	NE	5190	4050	6	29	31W	1		367.00	367.00	AF → 2040
A__ 27323	D2	IRR	NK	G	2821	--	SW	SW	NW	2695	5160	32	28	31W	2		309.00	309.00	AF
A__ 28674	00	IRR	NK	G	3762	--	--	--	--	4971	5143	31	28	31W	2		290.00	290.00	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)	=	1514.00	.00
Total Vested Amount (AF)	=	.00	.00
TOTAL AMOUNT (AF)	=	1514.00	.00

An * after the source of supply indicates a pending application for change for the file number.
 An * after the ID indicates a 15 AF exemption was granted for 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 1.00 miles of point defined as:

100.752173 West Longitude and 37.568032 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number	Use	ST	SR
A__ 3816	00	IRR	NK G
> KENNETH & SHIRLEY NICKEL			
>			
> 2356 110TH RD			
> COPELAND KS 67837			

A__ 19135	00	IRR	NK G
> LBJ FARM LLC			
>			
> 445 AVENAL LANE			
> GRAND JUNCTION CO 81507			

A__ 27323	D2	IRR	NK G
> HENRY H & AGATHA T WIEBE			
>			
> 1095 TT RD			
> COPELAND KS 67837			

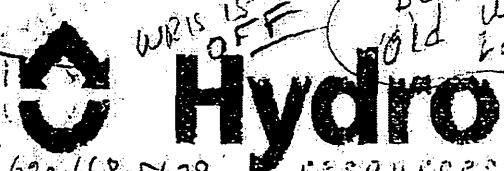
A__ 28674	00	IRR	NK G
> DERECK W & AMY L NICKEL			
>			
> 1197 TT RD			

> COPELAND KS 67837

>-----

=====

PLP No. 3816, CURRENTLY AUTHORIZED 3885' N 26W' W 31-28-31W & L10W



WRIS IS OFF
 Actual Well Location: 3659' N 26' W
 GPS NAD 27

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

Ken Nickel 620-668-5679
 Cell 620-960-7812
 Fax 620-668-5748

PO Box 639
 Garden City, KS 67846

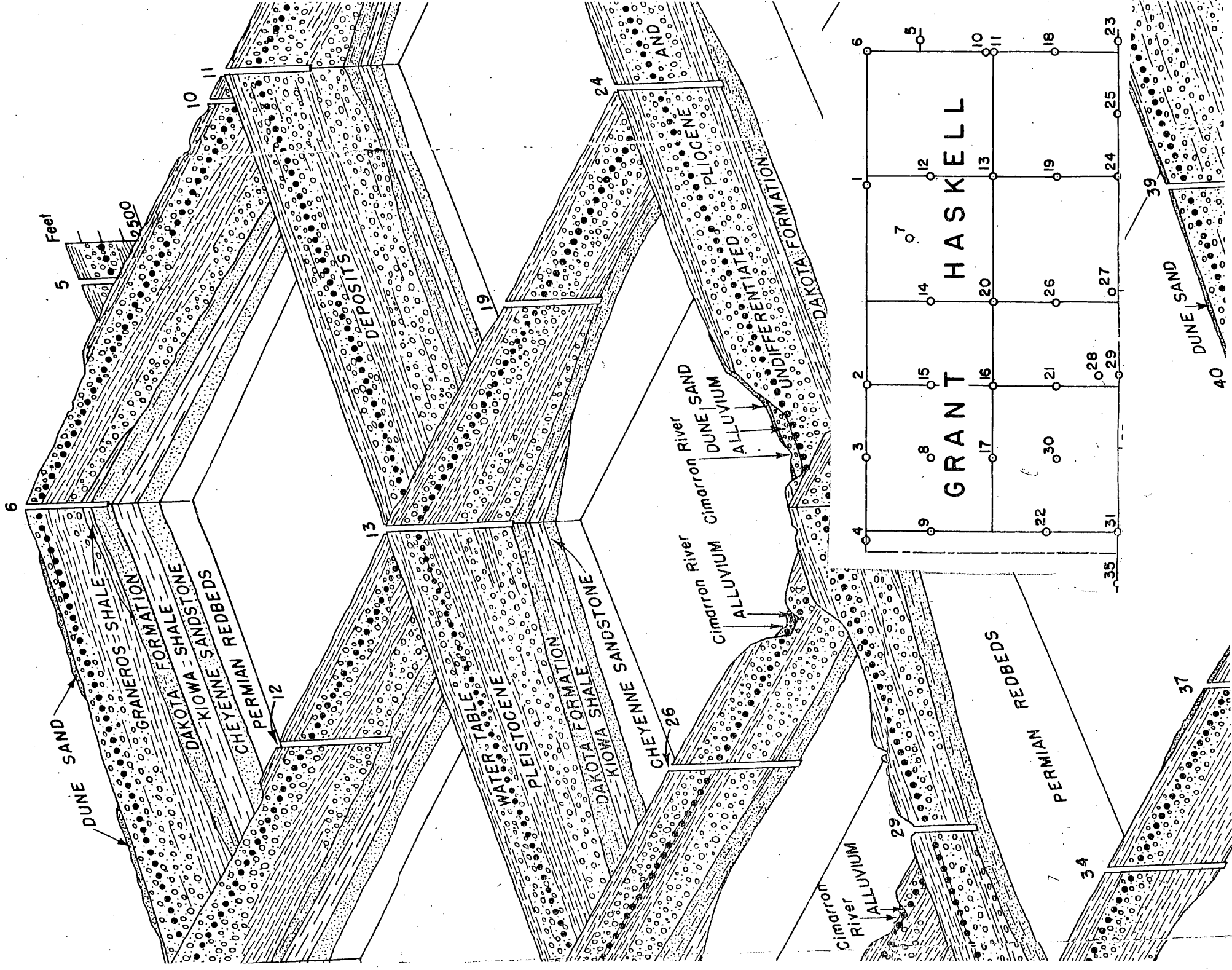
CUSTOMER'S NAME Ken Nickel DATE 4-16-11
 STREET ADDRESS 2356 110 Road TEST # 1 E. LOG
 CITY & STATE Copeland, KS 678 DRILLER Cerrado Services
 COUNTY HS QUARTER NE SECTION 31 TOWNSHIP 28 RANGE 31

RIG # 79 WO 2280
 LOCATION 226' NORTH & 70' EAST of EXISTING WELL
 GPS N 37-57272° W 100-75243° ELEVATION 2970 FT

FOOTAGE		WELL LOCATION		Static Water Level:	
%	From	Pay	To	DESCRIPTION OF STRATA	Proposed Well Depth:
	0		2	top soil	362
	2		18	Sandy clay	780
	18		62	Brown clay	RECEIVED
	62		72	Sandy clay some fine sand beds.	APR 20 2011
	72		107	Fine to med sand	Garden City Field Office
	107		118	Sandy clay	Division of Water Resources
	118		152	Fine & some med sand	
	152		261	Fine to med coarse some large gravel mix	
	261		277	Fine sand & brown clay mix	
	277		292	Brown sandy clay	
	292		305	Blue & Gray clay some fine blue sand beds.	
	305		333	Fine blue sand	
	333		345	Blue clay some yellow mix	
	345		362	Blue & Gray clay drill loose	
	362		398	Black & Yellow shale and sandstone fine sandstone	
15%	398	30	428	Fine sand fine yellow & black shale mix used some water.	
20%	428	67	495	Fine to small med sand.	
15%	495	32	527	Very fine sand mix some clay & shale	
20%	527	28	555	Fine to small med sand fine clay mix	
25%	555	42	597	Fine to med sand	
25%	597	11	608	small med sand mix with shale	
50%	608	23	631	Black shale sandstone drill tight	
30%	631	21	652	small med coarse mix shale	
5%	652	63	715	Sandstone & black shale mix used some water	
	715		730	Black shale soap stone drill hard	
			317		

1 - permit plat
 2 - Gel
 WATER RESOURCES RECEIVED
 MAY 23 2011
 5 - hole plat
 1 - set of drill plate
 KS DEPT OF AGRICULTURE

SKELL, AND STEVENS COUNTIES, KANSAS



	Thickness, feet	Depth, feet
Sandstone, fine- to coarse-grained, fairly well cemented, yellow brown to dark rusty brown; contains siltstone and clay	10	350
Clay, soft, compact, varicolored; contains fine sandstone, silt, and ironstone	35	385
Clay, fine sandy, gray	15	400
Kiowa shale		
Shale, clayey, soft, fissile, gray to gray black, containing fragments of pyrite and charcoal	50	450
Shale, fine sandy, gray	30	480
Shale, soft, compact, fissile, gray black to black, containing fragments of white sandstone	22.5	502.5
Shale, clayey to fine sandy; soft, light gray and gray....	7.5	510
Shale, clayey, gray black and black	10	520
Cheyenne sandstone		
Sandstone, fine- to coarse-grained, poorly cemented, well sorted, white	10	530
Sandstone, fine-grained, poorly cemented, white.....	33	563
Shale, clayey, soft, light gray and light green.....	7	570
Sandstone, fine-grained, poorly cemented, white	20	590
Sandstone, very fine-grained, well cemented, white	1.5	591.5
Shale, silty to clayey, soft, light gray and green; contains fragments of hard sandstone (Morrison (?) formation)	6.5	598
Permian redbeds		
Siltstone, soft, red	2	600
10. Log of test hole 10 at the SE corner sec. 25, T. 28 S., R. 31 W., drilled by State and Federal Geological Surveys, 1942. Surface altitude, 2,832 feet. (Authority, samples studied by Oscar S. Fent and Thad G. McLaughlin.)		
	Thickness, feet	Depth, feet
Soil, silty, gray.....	2	2
Undifferentiated Pliocene and Pleistocene deposits		
Silt, soft, greenish gray, containing nodules of caliche....	4	6
Silt, soft, brown.....	3	9
Silt, clayey, compact, buff, containing sand and nodules of caliche	11	20
Silt, clayey, soft, buff, containing fine to coarse sand, fine gravel, and caliche.....	20	40
Sand, fine to coarse, containing silt, fine gravel, and caliche	5	45
Silt, compact, pinkish tan, containing sand, fine gravel, and caliche	13	58
Sand, fine to coarse, and gravel, medium to coarse; containing tan and buff silt.....	4	62
Silt, compact, gray brown and white, containing caliche, sand, and gravel.....	19	81

	Thickness, feet	Depth, feet
Sand and gravel; fine to coarse; containing silt and fragments of caliche.....	69	150
Silt, compact, gray and buff, containing sand, gravel, and caliche	13	163
Sand and gravel; fine to coarse; containing fragments of silt	63	226
Silt, clayey, micaceous, soft, compact, blue gray to yellow brown; contains fine to coarse sand.....	4	230
Silt, clayey, blue gray to yellow brown; contains fine to medium sand.....	10	240
Silt and clay; in part micaceous; blue gray; contains fine to coarse sand and a little gravel.....	110	350
Gravel, medium to fine, and sand, coarse to fine; partly consolidated	12	362
Silt, compact, buff; contains fine gravel, fine to coarse sand, and caliche.....	68	430
Gravel, fine, and sand, coarse to fine; containing fragments of silt and caliche.....	46	476
Dakota formation		
Clay, in part laminated, soft, varicolored, containing ironstone and yellow-brown to red-brown sandstone...	4	480
Silt, clayey, soft, yellow and gray, containing ironstone and fine-grained, hard, yellow and brown sandstone...	10	490
11. Log of test hole 11 at the SE corner sec. 36, T. 28 S., R. 31 W., drilled by State and Federal Geological Surveys, 1942. Surface altitude, 2,838 feet. (Authority, samples studied by Oscar S. Fent and Thad G. McLaughlin.)		
	Thickness, feet	Depth, feet
Soil, silty, gray brown.....	1	1
Undifferentiated Pliocene and Pleistocene deposits		
Silt, soft, gray brown, containing nodules of caliche....	6	7
Silt, soft, buff to tan and white, containing very fine sand and nodules of caliche	23	30
Silt, soft, buff, containing fine to medium sand	7	37
Silt, soft, red brown, containing caliche and fine to coarse sand and gravel	23	60
Gravel, fine to coarse, and sand, coarse; containing buff silt	11	71
Silt, compact, tan, containing caliche and fine to coarse sand and gravel	9	80
Sand, coarse to medium, and silt, compact, buff; containing fine to coarse gravel	10	90
Gravel and sand; fine to coarse; in part cemented; containing buff and white silt, and fragments of caliche..	47	137
Silt, compact, buff to tan, containing fine to coarse sand and gravel	13	150
Sand and gravel; fine to coarse; containing a few fragments of silt and caliche	240	390

Ireland, Leslie [KDA]

From: Meyer, Mike [KDA]
Sent: Tuesday, December 4, 2018 10:54 AM
To: Ireland, Leslie [KDA]
Subject: RE: Recommendation for Change in Point of Diversion, File No. 3816 Nichols

Yes approve

Mike

From: Ireland, Leslie [KDA]
Sent: Tuesday, December 4, 2018 10:13 AM
To: Meyer, Mike [KDA] <Mike.Meyer@ks.gov>
Subject: Recommendation for Change in Point of Diversion, File No. 3816 Nichols

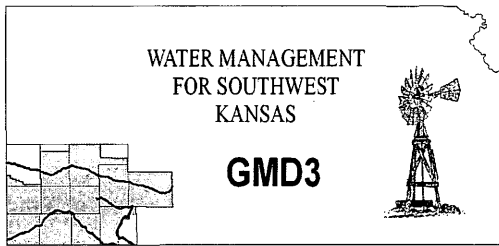
Mike,

Please let me know if you could recommend this change in point of diversion to add an additional well.

I've looked at the source of supply with Brent and it appears to be the same in this area. The GMD review and recommendation is attached.

As always comments and concerns are welcome.

Leslie Ireland, Environmental Scientist
Kansas Department of Agriculture
Division of Water Resources - Change Unit
(785) 564-6633
Leslie.Ireland@ks.gov
www.agriculture.ks.gov



Southwest Kansas
Groundwater Management District No. 3
2009 E. Spruce Street
Garden City, Kansas 67846
(620) 275-7147 phone (620) 275-1431 fax
www.gmd3.org

Water Resources
Received

December 19, 2018

DEC 06 2018

Leslie Ireland
Kansas Department of Ag
Division of Water Resources
1320 Research Park Drive
Manhattan, Kansas 66502

KS Dept Of Agriculture

RE: Application for Change in Point of Diversion
Water Right, File No. 3816

Dear ~~Mike~~: *Leslie*

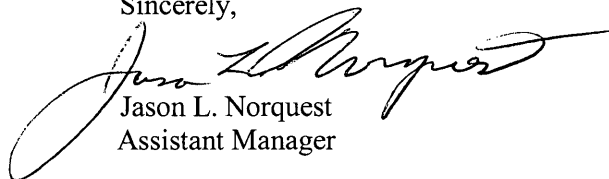
We have completed a review of the application for the above referenced water right. The proposed change in point of diversion is in accordance with current area rules, K.A.R. 5-23-3, as it pertains to distance moved and spacing to neighboring wells. The request for an additional well is in accordance with K.A.R. 5-5-16.

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 K.S.A. 82a-710 (b) and (c), and the draft revised management program. It is considered unreasonable to dis-allow any new effects from a proposal, so a standard maximum drawdown allowance applied over 50 years is used under an assumption the proposed well is pumped at maximum authorized rate and quantity. A drawdown allowance of four feet is used based on saturated thickness of more than 200 feet. The maximum reasonable or de minimis effect is used to screen for water right wells that need more investigation for a critical well result from the proposal. A critical well is a strong candidate for water right impairment.

Review from the original application showed that the effects could be greater than de minimis, and were further evaluated under economic, physical and the 40/25 depletion constraints to find that it is not a critical well of the proposal. At that time, we also ran the model for an additional well since it appeared from the application that the intent was to have an additional well in the future. From the GMD3 bedrock map, these wells were found to be reasonably completed to access the available local source of supply.

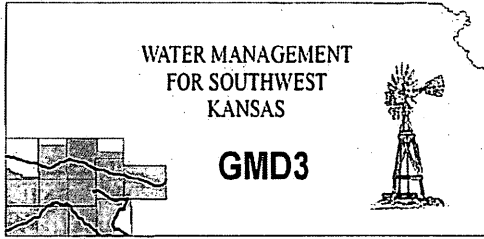
After review of the analysis, it is recommended that the application be approved at this time. Thank you for the opportunity to review the applications and to provide a recommendation. If you have any questions, please don't hesitate to contact us.

Sincerely,



Jason L. Norquest
Assistant Manager

SCANNED



Southwest Kansas
Groundwater Management District No. 3
2009 E. Spruce Street
Garden City, Kansas 67846
(620) 275-7147 phone (620) 275-1431 fax
www.gmd3.org

December 19, 2018

Leslie Ireland
Kansas Department of Ag
Division of Water Resources
1320 Research Park Drive
Manhattan, Kansas 66502

RE: Application for Change in Point of Diversion
Water Right, File No. 3816

Dear Mike:

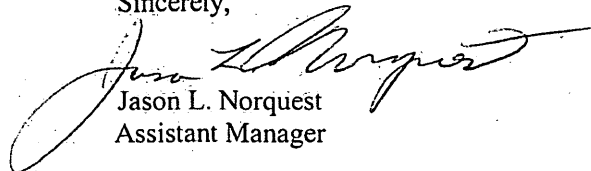
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Review from the original application showed that the effects could be greater than de minimis, and were further evaluated under economic, physical and the 40/25 depletion constraints to find that it is not a critical well of the proposal. At that time, we also ran the model for an additional well since it appeared from the application that the intent was to have an additional well in the future. From the GMD3 bedrock map, these wells were found to be reasonably completed to access the available local source of supply.

After review of the analysis, it is recommended that the application be approved at this 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

WATER RESOURCES
RECEIVED

DEC 03 2018

KS DEPT OF AGRICULTURE

GMD3 Change Review

File No(s): 3816.

DWR office: HQ?GC.

App filed to change: PD.

Is Landowner(s) correct in WRIS: Kenneth Nickel.

If NO, is documentation included?

Is Water Use Correspondent correct in WRIS? Yes.

If NO, is documentation included?

Regulation(s) Reviewed: KAR 5-23-3 & KAR 5-5-16

Point of diversion ID No(s) 03 being changed.

	ft. North	ft. West				
Authorized PD	3885	2611	Sect 31-28-31			
Proposed PD	2192	2607				
Difference	1693 s	4 E				
a2 + b2 = c2	2866249	16	1693.005	foot	move	Se

GPS for proposed PD: Lat: 37.56805 Long: -100.752611.

Is proposed PD stacking on existing WRs? No, application now for additional well.

Is Proposed PU overlapping existing WRs? ___.

Land Owner(s) notified: ___.

Name ___. Name ___.

Address ___. Address ___.

Zip ___. Zip ___.

Neighboring certified well(s) notified: ___.

Name ___. Name ___.

Address ___. Address ___.

Zip ___. Zip ___.

Domestic well(s) notified: ___.

Name ___. Name ___.

Address ___. Address ___.

Zip ___. Zip ___.

Base Acres: ___.

Perfected Acres: 320.

Irr. Return-Flow ___%

WRIS lists both Ogallala & Dakota formations on WR.

Current well drilled to 720' according to log. Proposed well depth is 720'.

Consumptive use formula: (Perf. Acres X NIR80%) / 0.85 = AF allowed

(320 X 1.37) / 0.85 = 515AF, which would be a 33AF reduction from current authority.

257.5AF @ 484gpm per well proposed.

Spacing is met between wells and neighbors

Is a waiver needed: No.

WATER RESOURCES
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DEC 03 2018

KS DEPT OF AGRICULTURE

GMD3 Change Review

Final Recommendation: Analysis shows that the proposed new well could have an effect on neighboring wells. Using the best information and models available, it was determined that none would be considered critical. The original application was discussed at the November Board meeting. At that time they believed that if the applicant truly meant to apply for an additional well, it should be done all in one step and base on current aquifer conditions. Proposed move meets distance moved and minimum spacing. Staff therefore recommends approval of the application.

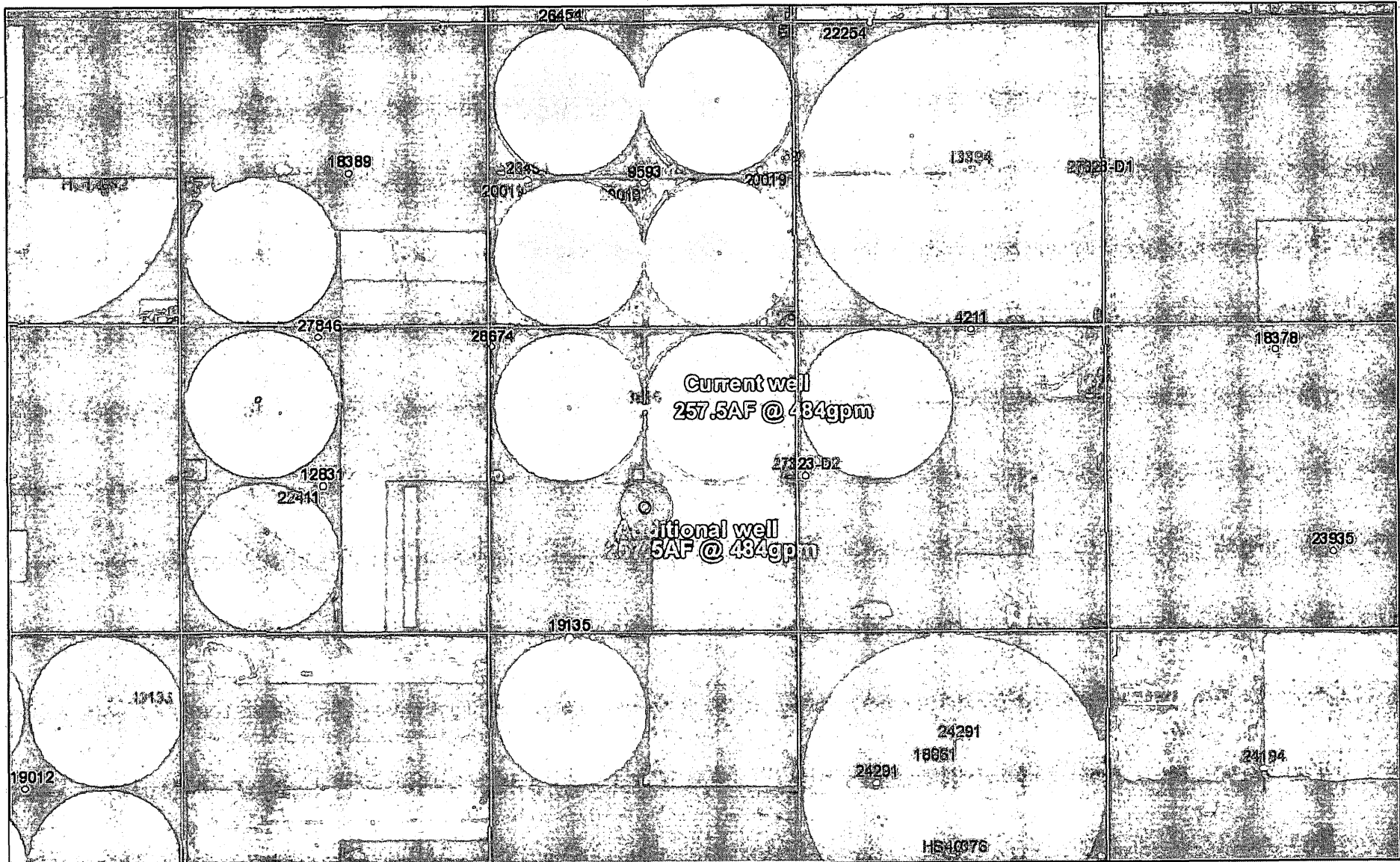


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KS DEPT OF AGRICULTURE

3816: Additional well



December 3, 2018
10:47 AM

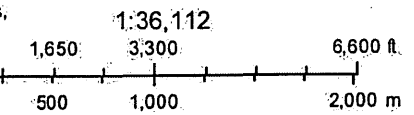
DISCLAIMER: This map is not intended for conveyances, nor is it a legal survey. The information is presented on a best-efforts basis, and should not be relied upon for making financial, survey, legal or other commitments.



GPS Position

Wells	+	CON	⊖	FPR	△	MUN	⌘	THX	
?	Other	⊗	DEW	⊕	HYD	⊖	REC	?	Empty
○	IRR	▲	DOM	☆	IND	⊙	STK	□	Sections

WATER RESOURCES
RECEIVED



DEC 03 2018

STATE OF KANSAS

DEPARTMENT OF AGRICULTURE
1320 RESEARCH PARK DRIVE
MANHATTAN, KS 66502
PHONE: (785) 564-6700
FAX: (785) 564-6777



900 SW JACKSON, ROOM 456
TOPEKA, KS 66612
PHONE: (785) 296-3556
www.agriculture.ks.gov

GOVERNOR JEFF COLYER, M.D.
JACKIE McCLASKEY, SECRETARY OF AGRICULTURE

November 30, 2018

SOUTHWEST KANSAS GROUNDWATER
MANAGEMENT DISTRICT NO 3
ATTN MARK RUDE
2009 E SPRUCE
GARDEN CITY KS 67846

Re: Application for Change, Water Right, File No. 3,816

Dear Mr. Rude:

We are enclosing a copy of the application referred to above that was modified at the request of the owners after your review and recommendation of October 25, 2018. The updated application appears to be in proper form. The proposed change is now requesting to add an additional well per K.A.R. 5-5-16, *Additional well*.

We are delaying any further action for a period of fifteen days from the date of this letter to allow you time to submit your recommendations concerning this application.

Please submit your recommendation within the allotted time, or any authorized extension of time thereof. If you wish to refer to a specific file, please reference it when you contact us.

Sincerely,

A handwritten signature in cursive script that reads "Leslie Ireland".

Leslie Ireland
Environmental Scientist
Water Appropriation Program

LI:li
Enclosure

pc: Garden City Field Office
Kenneth & Shirley Nickel

FILE COPY

STATE OF KANSAS

DEPARTMENT OF AGRICULTURE
1320 RESEARCH PARK DRIVE
MANHATTAN, KS 66502
PHONE: (785) 564-6700
FAX: (785) 564-6777

900 SW JACKSON, ROOM 456
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GOVERNOR JEFF COLYER, M.D.
JACKIE MCCLASKEY, SECRETARY OF AGRICULTURE

November 30, 2018

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

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Please submit your recommendation within the allotted time, or any authorized extension of time thereof. If you wish to refer to a specific file, please reference it when you contact us.

Sincerely,

Leslie Ireland
Environmental Scientist
Water Appropriation Program

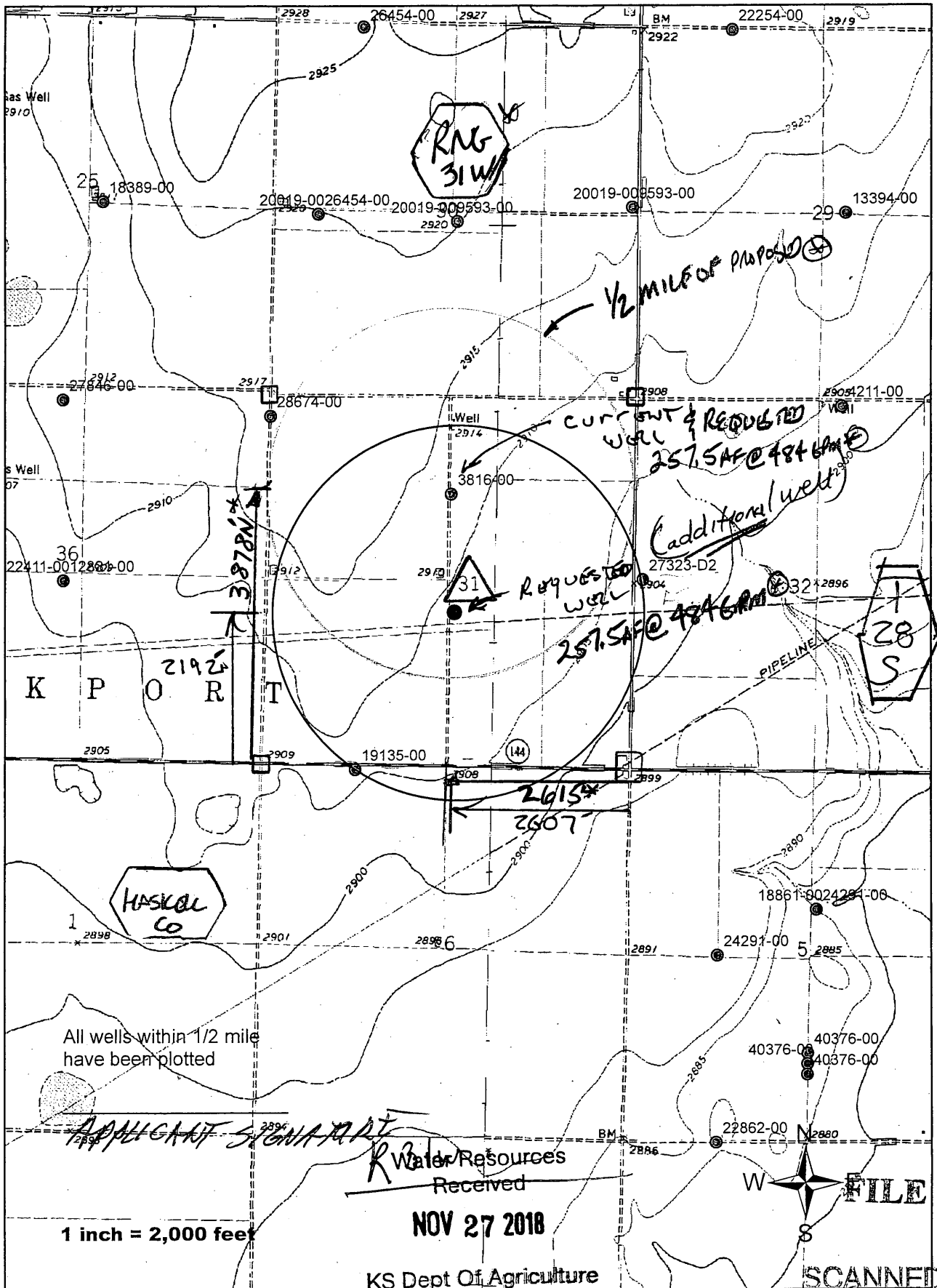
FILE COPY

LI:li
Enclosure

pc: Garden City Field Office
Kenneth & Shirley Nickel

✓ THE MAP ENCLOSED IS FOR YOUR RECORDS
SHOULD YOU HAVE QUESTIONS PLEASE
CONTACT ME AT (785) 564-6633
LESLIE

Application to Change Point of Diversion File No. 3816



All wells within 1/2 mile have been plotted

APPLICANT SIGNATURE

Water Resources Received

NOV 27 2018

KS Dept Of Agriculture

FILE COPY

SCANNED

* LI/aw 11/30/18

* Requested by land owner 11-19-18

Turney, Brent [KDA]

From: Meyer, Mike [KDA]
Sent: Thursday, November 29, 2018 1:11 PM
To: Turney, Brent [KDA]
Subject: 3816

As a follow up, they would like to drill this additional well before the years end...
Recall GMD3 already reviewed it preliminary, so should be quick turnaround

Mike

Brent A. Turney, P.G.
Kansas Department of Agriculture
Division of Water Resources
1320 Research Park Drive
Manhattan Kansas 66502
(785) 564-6645
Brent.Turney@ks.gov
www.agriculture.ks.gov

From: Meyer, Mike [KDA]
Sent: Wednesday, November 28, 2018 4:01 PM
To: Turney, Brent [KDA] <Brent.Turney@ks.gov>
Subject: 3816
Importance: High

Any processing on this file.

Mike

Turney, Brent [KDA]

From: Meyer, Mike [KDA]
Sent: Thursday, November 29, 2018 8:33 AM
To: Turney, Brent [KDA]
Subject: RE: 3816

No they ammended the app to do an additional well (FO app to HQ)

Mike

From: Turney, Brent [KDA]
Sent: Thursday, November 29, 2018 8:30 AM
To: Meyer, Mike [KDA] <Mike.Meyer@ks.gov>
Subject: RE: 3816

This is the file that we were going to limit the depth. Right?

Brent A. Turney, P.G.
Kansas Department of Agriculture
Division of Water Resources
1320 Research Park Drive
Manhattan Kansas 66502
(785) 564-6645
Brent.Turney@ks.gov
www.agriculture.ks.gov

From: Meyer, Mike [KDA]
Sent: Thursday, November 29, 2018 7:54 AM
To: Turney, Brent [KDA] <Brent.Turney@ks.gov>
Subject: Re: 3816

Yes should be in docuware

Sent from my Verizon, Samsung Galaxy smartphone

----- Original message -----

From: "Turney, Brent [KDA]" <Brent.Turney@ks.gov>
Date: 11/29/18 7:44 AM (GMT-06:00)
To: "Meyer, Mike [KDA]" <Mike.Meyer@ks.gov>
Subject: RE: 3816

Just had Laura do the data entry on this. Did you guys get a test on the well?

> COPELAND KS 67837

>-----

=====

Water Resources
Received

NOV 27 2018

KS Dept Of Agriculture

SCANNED

Current 3816

3816

WATER WELL RECORD

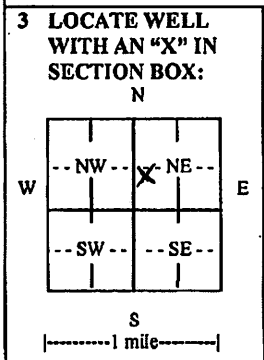
Form WWC-5

Division of Water Resources App. No.

1 LOCATION OF WATER WELL: County: Haskell Fraction 1/4 NW 1/4 SW 1/4 NE 1/4 Section Number 31 Township No. T 28 S Range Number R 31 [] E [X] W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here [] approx 7 miles northeast of Sublette, KS Global Positioning System (GPS) information: Latitude: .37,57272 (in decimal degrees) Longitude: 100,75243 (in decimal degrees) Elevation: .2970 Datum: [] WGS 84, [] NAD 83, [X] NAD 27 Collection Method: [X] GPS unit (Make/Model:) [] Digital Map/Photo, [] Topographic Map, [] Land Survey Est. Accuracy: [] <3 m, [] 3-5 m, [] 5-15 m, [] >15 m

2 WATER WELL OWNER: Ken Nickel RR#, Street Address, Box #: 2356 110 Road City, State, ZIP Code : Copeland, KS 67837



3 LOCATE WELL WITH AN "X" IN SECTION BOX: 4 DEPTH OF COMPLETED WELL 720 ft. Depth(s) Groundwater Encountered (1) ft. (2) ft. (3) ft. WELL'S STATIC WATER LEVEL 370 ft. below land surface measured on mo/day/yr. 6/2/11 Pump test data: Well water was ft. after hours pumping gpm EST. YIELD gpm. Well water was ft. after hours pumping gpm Bore Hole Diameter 24 in. to 720 ft., and in. to ft. WELL WATER TO BE USED AS: [] Public water supply [] Geothermal [] Injection well [] Domestic [] Feedlot [] Oil field water supply [] Dewatering [] Other (Specify below) [X] Irrigation [] Industrial [] Domestic-lawn & garden [] Monitoring well Was a chemical/bacteriological sample submitted to Department? [] Yes [X] No If yes, mo/day/yr sample was submitted Water well disinfected? [X] Yes [] No

5 TYPE OF CASING USED: [X] Steel [] PVC [] Other CASING JOINTS: [] Glued [] Clamped [X] Welded [] Threaded Casing diameter .16 in. to .720 ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface .12 in., Weight 42.09 lbs./ft., Wall thickness or gauge No. .0250 TYPE OF SCREEN OR PERFORATION MATERIAL: [X] Steel [] Stainless Steel [] PVC [] Brass [] Galvanized Steel [] None used (open hole) [] Other (Specify) SCREEN OR PERFORATION OPENINGS ARE: [X] Continuous slot [] Mill slot [] Gauze wrapped [] Torch cut [] Drilled holes [] None (open hole) [] Louvered shutter [] Key punched [X] Wire wrapped [] Saw cut [] Other (specify) SCREEN-PERFORATED INTERVALS: From .395 ft. to .715 ft., From ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From .20 ft. to .720 ft., From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: [] Neat cement [] Cement grout [X] Bentonite [] Other Grout Intervals: From .0 ft. to .20 ft., From ft. to ft., From ft. to ft. What is the nearest source of possible contamination: [] Septic tank [] Lateral lines [] Pit privy [] Livestock pens [] Insecticide storage [X] Other (specify below) [] Sewer lines [] Cesspool [] Sewage lagoon [] Fuel storage [] Abandoned water well [] Watertight sewer lines [] Seepage pit [] Feedyard [] Fertilizer storage [] Oil well/gas well [] None Detected Direction from well Distance from well

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows include soil types like top soil, sandy clay, brown clay, and various sand and shale layers.

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was [X] constructed, [] reconstructed, or [] plugged under my jurisdiction and was completed on (mo/day/year) 6/2/11 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 145 This Water Well Record was completed on (mo/day/year) 6/25/11 under the business name of Hydro Resources by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of \$5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

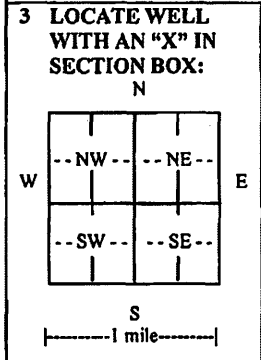
3816

1 LOCATION OF WATER WELL: County: Haskell	Fraction ¼ NW ¼ SW ¼ NE ¼	Section Number 31	Township No. T 28 S	Range Number R 31 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
---	------------------------------	----------------------	------------------------	---

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here .

Global Positioning System (GPS) information:
 Latitude: (in decimal degrees)
 Longitude: (in decimal degrees)
 Elevation:
 Datum: WGS 84, NAD 83, NAD 27
 Collection Method:
 GPS unit (Make/Model:)
 Digital Map/Photo, Topographic Map, Land Survey
 Est. Accuracy: <3 m, 3-5 m, 5-15 m, >15 m

2 WATER WELL OWNER: Ken Nickel
 RR#, Street Address, Box #: 2356 110 Road
 City, State, ZIP Code : Copeland, KS 67837



4 DEPTH OF COMPLETED WELL ft.

Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.

WELL'S STATIC WATER LEVEL.....ft. below land surface measured on mo/day/yr.....

Pump test data: Well water was.....ft. after..... hours pumping..... gpm

EST. YIELD.....gpm. Well water was.....ft. after..... hours pumping..... gpm

Bore Hole Diameterin. toft., andin. toft.

WELL WATER TO BE USED AS: Public water supply Geothermal Injection well
 Domestic Feedlot Oil field water supply Dewatering Other (Specify below)
 Irrigation Industrial Domestic-lawn & garden Monitoring well

Was a chemical/bacteriological sample submitted to Department? Yes No
 If yes, mo/day/yr sample was submitted.....

Water well disinfected? Yes No

5 TYPE OF CASING USED: Steel PVC Other

CASING JOINTS: Glued Clamped Welded Threaded

Casing diameter in. to ft., Diameter in. to ft., Diameter in. to ft.

Casing height above land surface..... in., Weightlbs./ft., Wall thickness or gauge No.

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel PVC Other (Specify)
 Brass Galvanized Steel None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous slot Mill slot Gauze wrapped Torch cut Drilled holes None (open hole)
 Louvered shutter Key punched Wire wrapped Saw cut Other (specify)

SCREEN-PERFORATED INTERVALS: From..... ft. to ft., From ft. to ft.
 From..... ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From..... ft. to ft., From ft. to ft.
 From..... ft. to ft., From ft. to ft.

6 GROUT MATERIAL: Neat cement Cement grout Bentonite Other

Grout intervals: From ft. to ft., From ft. to ft., From ft. to ft.

What is the nearest source of possible contamination:
 Septic tank Lateral lines Pit privy Livestock pens Insecticide storage Other (specify below)
 Sewer lines Cesspool Sewage lagoon Fuel storage Abandoned water well
 Watertight sewer lines Seepage pit Feedyard Fertilizer storage Oil well/gas well

Direction from well Distance from well

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
608	631	black shale, sandstone			
631	652	small med coarse sand mix, shale			
652	715	sandstone & black shale mix			
715	720	black shale			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo/day/year) and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. This Water Well Record was completed on (mo/day/year) under the business name of by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1060 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of \$5.00 for each constructed well. Visit us at <http://www.kdheks.gov/waterwell/index.html>.

KSA 82a-1212

Check in White Copy, Blue Copy, Pink Copy

NOV 27 2010

SCANNED

KS Dept Of Agriculture

Wells Within 1 Mile and Proposed Drawdown Effects

- **19135**
 - Distance from proposed location = 2554 ft
 - 50 yr drawdown effect = 11.0 ft
- **28674**
 - Distance from proposed location = 3719 ft
 - 50 yr drawdown effect = 6.3 ft
- **27323**
 - Distance from proposed location = 2945 ft
 - 50 yr drawdown effect = 9.7 ft
- **Domestic well in section 30-28-31**
 - Distance from proposed location = 4183 ft
 - 50 yr drawdown effect = 5.5 ft

Minimum Drawdown Allowance

- Current saturated thickness is greater than 200 ft.
- Drawdown allowance over 50 years is 4.0 ft.
 - 50 year drawdown allowance exceeds 4.0 ft for all wells within 1 mile of the proposed move, so all wells need to be evaluated.

Evaluation of Water Right No. 19135

- Drawdown due to additional proposed pumping = **10.9 ft**
 - Based upon 25 years Theis analysis using $S = 0.00234$, $T = 40,822$ gpd/ft,
 $r_{\text{proposed}} = 2554$ ft, $r_{\text{original}} = 4160$ ft, $Q_{\text{proposed}} = 1319$ gpm, $Q_{\text{original}} = 929$ gpm,
 $t_{\text{proposed}} = 94$ days, $t_{\text{original}} = 55$ days
- Drawdown due to existing pumping = **43.1 ft**
 - Based upon water level declines predicted by the GMD3 model.
- Dynamic Drawdown = **9.2 ft**
 - Based upon a Theis analysis with $r = 1$ ft, $S = 0.00235$, $T = 68,368$ gpd/ft,
 $t = 100$ days, $Q = 187$ gpm, well efficiency = 70%. Note that no driller log is
available, so well is assumed to be drilled to the bottom of the aquifer.
- Total Drawdown = **63.2 ft**

Drawdown Constraints for WR No. 19135

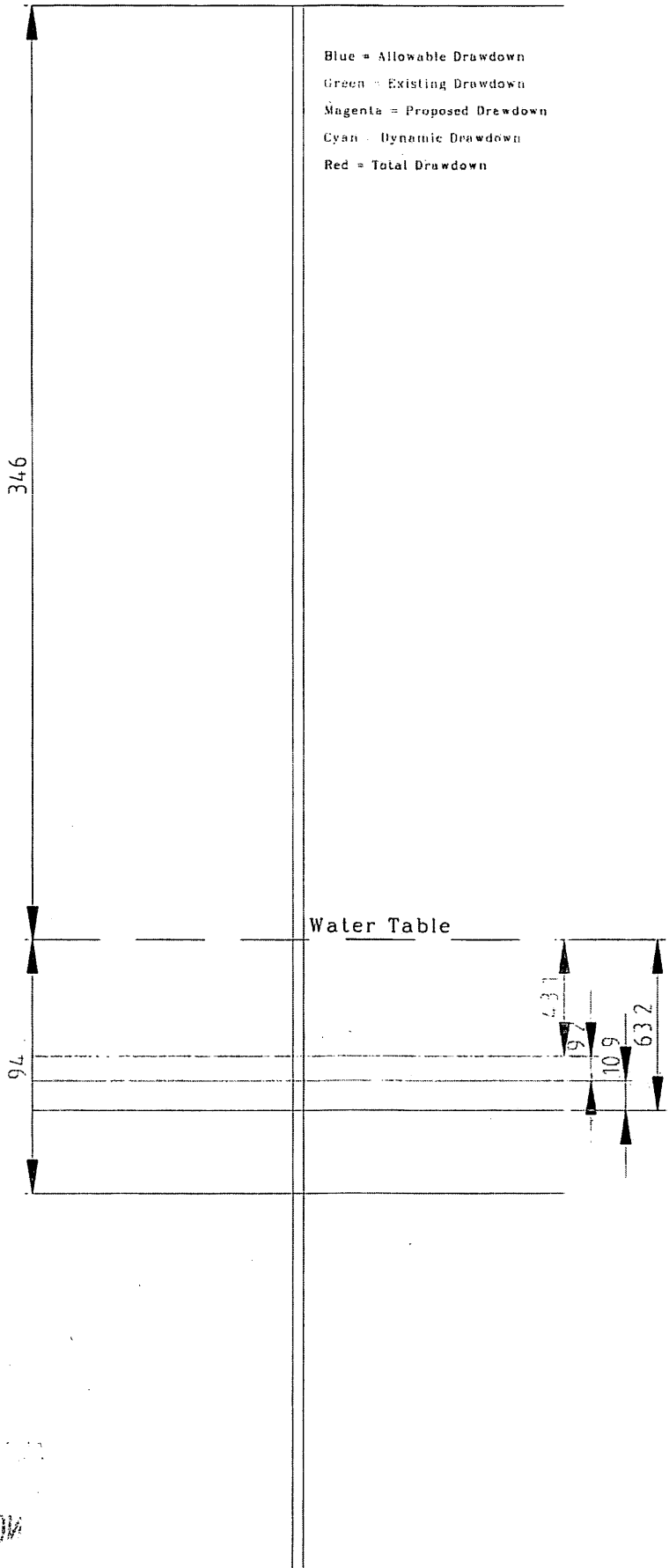
- Economical Drawdown Constraint (40% in 25 years)
 - EDC = $235 \text{ ft} * 0.4 = 94 \text{ ft}$
- Physical Drawdown Constraint
 - Well depth is assumed to be to the bottom of the aquifer, with a water
column of 235 ft. PDC is assumed to be 60 ft above the bottom of the well.
 - PDC = $235 \text{ ft} - 60 \text{ ft} = 175 \text{ ft}$
- The EDC is more restrictive than the PDC, so the maximum allowable
drawdown is **94.0 ft**.
 - The total drawdown is less than the allowable drawdown, so this is not a
critical well.

Water Resources
Received

NOV 27 2018

KS Dept Of Agriculture
SCANNED

Water Right No. 19135



APPROVED BY: [Signature]
DATE: [Date]
BY: [Signature]

Evaluation of Water Right No. 28674

- Drawdown due to additional proposed pumping = **5.9 ft**
 - Based upon 25 years Theis analysis using $S = 0.00234$, $T = 40,822$ gpd/ft,
 $r_{\text{proposed}} = 3719$ ft, $r_{\text{original}} = 2832$ ft, $Q_{\text{proposed}} = 1319$ gpm, $Q_{\text{original}} = 929$ gpm,
 $t_{\text{proposed}} = 94$ days, $t_{\text{original}} = 55$ days
- Drawdown due to existing pumping = **64 ft**
 - Based upon water level declines predicted by the GMD3 model.
- Dynamic Drawdown = **38.4 ft**
 - Based upon a Theis analysis with $r = 1$ ft, $S = 0.00234$, $T = 40,822$ gpd/ft,
 $t = 100$ days, $Q = 477$ gpm, well efficiency = 70%
- Total drawdown = **108.3 ft**

Drawdown Constraints for WR No. 28674

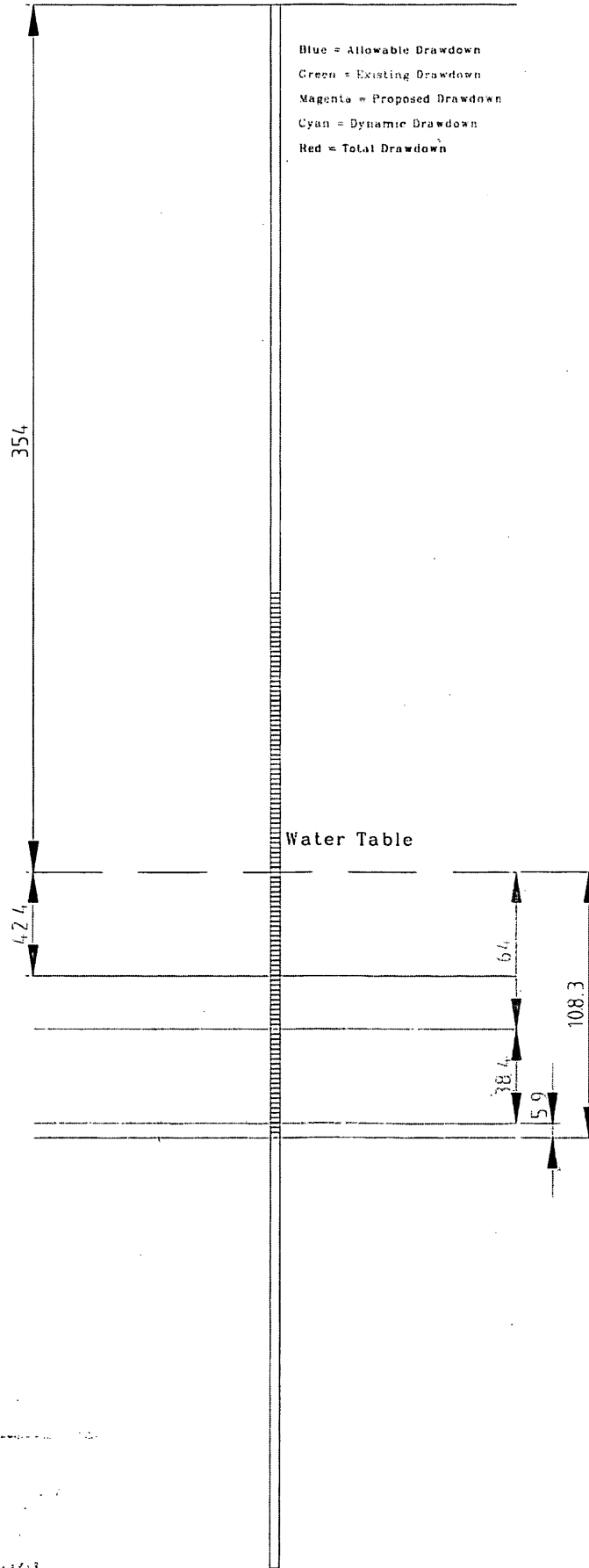
- Economical Drawdown Constraint (40% in 25 years)
 - $EDC = 106 \text{ ft} * 0.4 = 42.4 \text{ ft}$
- Physical Drawdown Constraint
 - Well depth is 640 ft, screened to a depth of 460 ft. Water column is 106 ft, calculated from the water table to the bottom of the screen interval. PDC is assumed to be 40 ft above the bottom screen interval.
 - $PDC = 106 \text{ ft} - 40 \text{ ft} = 66.0 \text{ ft}$
- The EDC is more restrictive than the PDC, so the maximum allowable drawdown in **42.4 ft**.
 - The total drawdown is greater than the allowable drawdown, so this is a critical well.
 - Reducing the allowable pumping rate to 845 gpm reduces the additional drawdown due to proposed pumping to less than the 4.0 ft minimum drawdown allowance.

Water Resources
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NOV 27 2018
SCANNED

KS Dept Of Agriculture

Water Right No. 28674



8/10/2010 10:00 AM

8/10/2010 10:00 AM

28674

USE TYPEWRITER OR BALL POINT PEN-PRESS FIRMLY, PRINT CLEARLY.

WATER WELL RECORD
KSA 82a-1201-1215

Kansas Department of Health and Environment-Division of Environment (Water well Contractors) Topeka, Kansas 66620

1. Location of well:		County Haskell	Fraction NW 1/4 NW 1/4 NW 1/4	Section number 31	Township number T 28 S R 31 E/W	Range number 31 E/W
2. Distance and direction from nearest town or city: Street address of well location if in city:			3. Owner of well: Lee Turner R.R. or street: 3900 Broadway City, state, zip code: Great Bend, Ka.			
4. Locate with "X" in section below: N W E S 1 Mile			Sketch map: 		6. Bore hole dia. 28 in. Completion date _____ Well depth 640 ft. 5/7/77	
5. Type and color of material			From	To	7. Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Reverse rotary	
Top soil and clay			0	90	8. Use: <input type="checkbox"/> Domestic <input type="checkbox"/> Public supply <input type="checkbox"/> Industry <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Air conditioning <input type="checkbox"/> Stock <input type="checkbox"/> Lawn <input type="checkbox"/> Oil field water <input type="checkbox"/> Other	
Clay and fine sand			90	120	9. Casing: Material STL Height: Above or below Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Surface 12 in. RMP <input type="checkbox"/> PVC <input type="checkbox"/> Weight _____ lbs./ft. Dia. 16 in. to 160 ft. depth; Wall Thickness: inches or Dia. _____ in. to _____ ft. depth; gage No. 219	
Med. sand			120	150	10. Screen: Manufacturer's name Johnson Lakewood Pipe of Texas Type Screen & Mill Dia. 16" Slot/gauge 250, 219 Length Screen 8 2 1/2 Set between 250, 460 ft. and 430, 640 ft. Sc. 240, 430 ft. and 250, 460 ft. Gravel pack? YES Size range of material 70% #1 Coarse	
Coarse sand and gravel			150	180	11. Static water level: 222 ft. below land surface Date 5/7/77 30% 1/2 Down	
Coarse sand			180	210	12. Pumping level below land surfaces: 397 ft. after 3 hrs. pumping 1600 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m. Estimated maximum yield 1600 g.p.m.	
Coarse sand, fine gravel, & clay streaks			210	270	13. Water sample submitted: _____ mo./day/yr. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date _____	
Blue shale			270	300	14. Well head completion: <input type="checkbox"/> Pitless adapter <input checked="" type="checkbox"/> _____ Inches above grade	
Blue shale and fine sand streaks			300	330	15. Well grouted? yes With: <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Concrete Depth: From 0 ft. to 10 ft.	
Blue shale			330	360	16. Nearest source of possible contamination: ft. _____ Direction _____ Type _____ Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Blue shale			360	390	17. Pump: _____ Not installed Manufacturer's name Goulds Model number 14 JHC HP 200 Volts _____ Length of drop pipe 460 ft. capacity 1600 g.p.m. Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal <input type="checkbox"/> Other	
Blue shale 390-400, Coarse sand & gravel			390	420	20. Water well contractor's certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Clemens Irr. Drlg. 330 Business name License No. Address P.O. Box 499 Liberal, Signed [Signature] Date 5-10-77 Authorized representative	
Sand gravel and clay streaks			420	450	18. Elevation: Topography: <input type="checkbox"/> Hill <input type="checkbox"/> Slope <input checked="" type="checkbox"/> Upland <input type="checkbox"/> Valley	
" 450-470 " Clay			450	480	19. Remarks: Coarse sand, gravel, clay streaks, Red Bed 640-660	
Clay			480	540	Forward the white, blue and pink copies to the Department of Health and Environment	
Clay, med. sand streaks			540	570	Water Resources Received NOV 27 2018 Form WWC-3	
Coarse sand, gravel, clay streaks, Red Bed			570	660	KS Dept Of Agriculture SCANNED	

28674
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E/W
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E/W

Forward the white, blue and pink copies to the Department of Health and Environment

Water Resources Received
NOV 27 2018
Form WWC-3

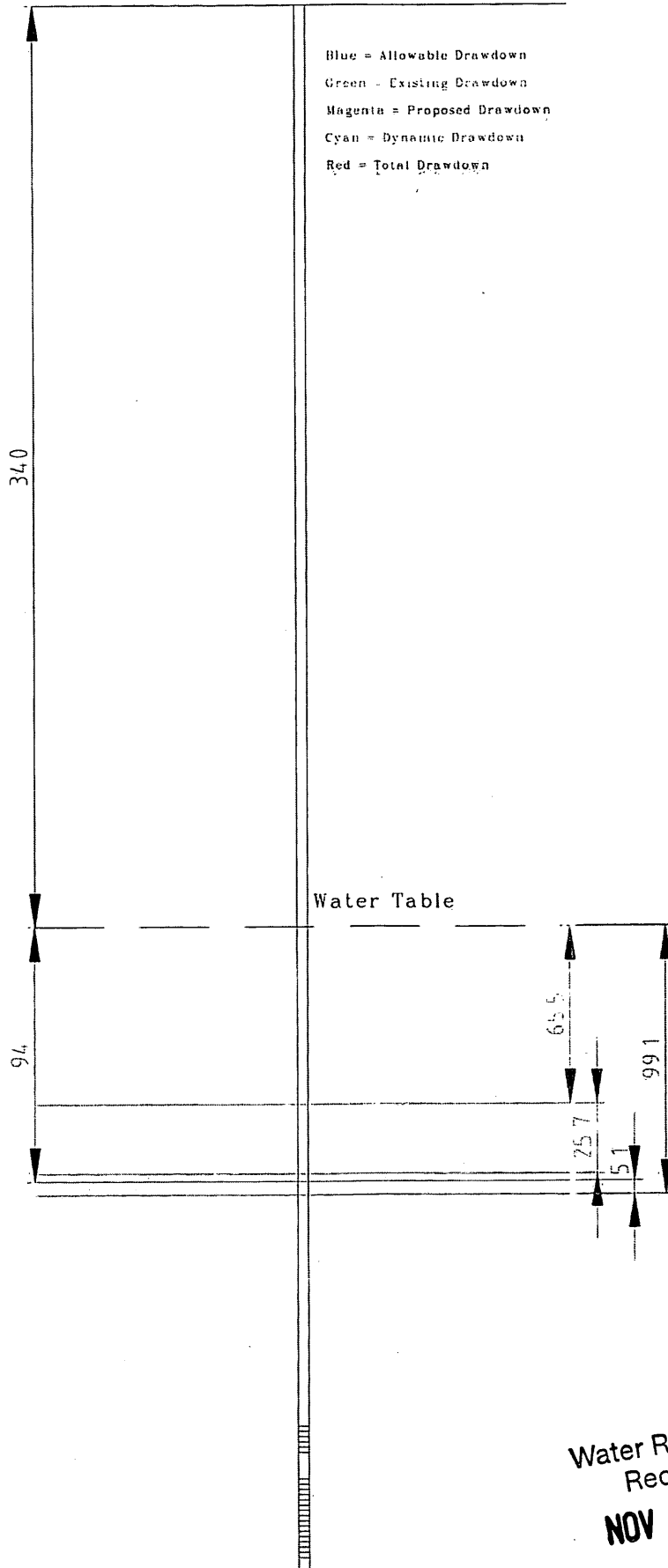
Evaluation of Water Right No. 27323

- Drawdown due to additional proposed pumping = **7.9 ft**
 - Based upon 25 years Theis analysis using $S = 0.00234$, $T = 40,822$ gpd/ft,
 $r_{\text{proposed}} = 2945$ ft, $r_{\text{original}} = 3011$ ft, $Q_{\text{proposed}} = 1319$ gpm, $Q_{\text{original}} = 929$ gpm,
 $t_{\text{proposed}} = 94$ days, $t_{\text{original}} = 55$ days
- Drawdown due to existing pumping = **65.5 ft**
 - Based upon water level declines predicted by the GMD3 model.
- Dynamic Drawdown = **25.7 ft**
 - Based upon a Theis analysis with $r = 1$ ft, $S = 0.00235$, $T = 61,541$ gpd/ft,
 $t = 100$ days, $Q = 471$ gpm, well efficiency = 70%
- Total Drawdown = **99.1 ft**

Drawdown Constraints for WR No. 27323

- Economical Drawdown Constraint (40% in 25 years)
 - $EDC = 235 \text{ ft} * 0.4 = 94.0 \text{ ft}$
- Physical Drawdown Constraint
 - Well depth is 593 ft, screened to a depth of 575 ft. Water column is 235 ft, measured from the water table to the bottom of the well screen. PDC is assumed to be 40 ft above the bottom of the screen interval.
 - $PDC = 235 \text{ ft} - 40 \text{ ft} = 195 \text{ ft}$
- The EDC is more restrictive than the PDC, so the maximum allowable drawdown is **94.0 ft**.
 - The total drawdown is greater than the allowable drawdown, so this is a critical well.
 - Reducing the allowable pumping rate to 845 gpm reduces the additional drawdown due to proposed pumping to less than the 4.0 ft minimum drawdown allowance.

Water Right No. 27323



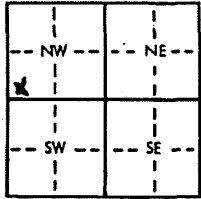
Water Resources
Received
NOV 27 2018
KS Dept Of Agriculture
SCANNED

USE TYPEWRITER OR BALL POINT PEN—PRESS FIRMLY, PRINT CLEARLY.

27323

WATER WELL RECORD
KSA 82a-1201-1215

Kansas Department of Health and Environment—Division of Environment
(Water well Contractors)
Topeka, Kansas 66620

1. Location of well:		County Haskell	Fraction SW 1/4 SW 1/4 NW 1/4	Section number 32	Township number T 28 S R 31	Range number 31	(EW)
2. Distance and direction from nearest town or city: Approximately 6 1/2 miles North East of Sublette, Ks. Street address of well location if in city:			3. Owner of well: Joe M. Starke R.R. or street: City, state, zip code: Sublette, Kansas 67877				
4. Locate with "X" in section below: Sketch map: 			6. Bore hole dia. <u>26</u> in. Completion date <u>6/19/78</u> Well depth <u>580</u> ft.				
5. Type and color of material			From	To	7. <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input checked="" type="checkbox"/> Reverse rotary		
See Attachment					8. Use: <input type="checkbox"/> Domestic <input type="checkbox"/> Public supply <input type="checkbox"/> Industry <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Air conditioning <input type="checkbox"/> Stock <input type="checkbox"/> Lawn <input type="checkbox"/> Oil field water <input type="checkbox"/> Other		
					9. Casing: Material <u>Steel</u> Height: Above or below Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Surface <u>12</u> in. RMP <input type="checkbox"/> PVC <input type="checkbox"/> Weight <u>36.9</u> lb./ft. Dia. <u>16</u> in. to <u>580</u> depth Wall Thickness: inches or Dia. <input type="checkbox"/> in. to <input type="checkbox"/> ft. depth Gauge No. <u>219</u>		
					10. Screens: Manufacturer's name <u>W. A. Brown</u> Type <u>Louvered</u> Dia. <u>16"</u> Slot/gauze <u>125</u> Length <u>100'</u> Set between <u>385</u> ft. and <u>445</u> ft. <u>525'-535'</u> ft. and <u>545'-575'</u> ft. Gravel pack? <input checked="" type="checkbox"/> Yes Size range of material <u>#1 Coarse</u>		
					11. Static water level: <u>233</u> ft. below land surface Date <u>6/22/78</u> mo./day/yr.		
					12. Pumping level below land surfaces: <u>288</u> ft. after <input type="checkbox"/> hrs. pumping <u>1435</u> g.p.m. <input type="checkbox"/> ft. after <input type="checkbox"/> hrs. pumping <input type="checkbox"/> g.p.m. Estimated maximum yield <u>1,500</u> g.p.m.		
					13. Water sample submitted: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date <input type="checkbox"/>		
					14. Well head completion: <input type="checkbox"/> Pitless adapter <u>12</u> inches above grade		
					15. Well grouted? <u>Yes</u> With: <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Concrete Depth: From <u>0</u> ft. to <u>10</u> ft.		
					16. Nearest source of possible contamination: <u>None</u> ft. <input type="checkbox"/> Direction <input type="checkbox"/> Type <u>Observed</u> Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
					17. Pump: <input checked="" type="checkbox"/> Not installed Manufacturer's name <input type="checkbox"/> Model number <input type="checkbox"/> HP <input type="checkbox"/> Volts <input type="checkbox"/> Length of drop pipe <input type="checkbox"/> ft. capacity <input type="checkbox"/> g.p.m. Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Turbine <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal <input type="checkbox"/> Other		
			(Use a second sheet if needed)				
18. Elevation: <u>x Flat</u> Topography: <input type="checkbox"/> Hill <input type="checkbox"/> Slope <input type="checkbox"/> Upland <input type="checkbox"/> Valley		19. Remarks:		20. Water well contractor's certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Henkle Drilling & Sply 145 Business name License No. <input type="checkbox"/> Address <u>Box 639, Garden City, Ks.</u> Signed <u>Bruce J. Richman</u> Date <u>6/26/78</u> Authorized representative			

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Forward the white, blue and pink copies to the Department of Health and Environment

Form WWC-5

DRILLERS TEST LOG

CUSTOMERS NAME Joe M Starke DATE 6/14/77
 STREET ADDRESS _____ TEST # 1 B. LOG Yes
 CITY & STATE Sublette, Kansas DRILLER Mattings
 COUNTY Haskell QUARTER SE SECTION 29 TOWNSHIP 28 RANGE 31
 LOCATION : NE corner of the SE 1/4.

%	FOOTAGE			DESCRIPTION OF STRATA	WELL LOCATION	
	From	Pay	To		Static Water Level _____	Proposed Well Depth _____
	0		2	Top Soil		
	2		86	Brown clay.		
	86		96	Sand fine to med coarse. a few small gravel.		
	96		105	Brown clay with a few lime rock sts.		
	105		140	Sand fine to med coarse, small gravel.		
60	140	11	261	Sand fine to med coarse. Small to med, a few large gravel. Loose - used water.		
65	261	19	280	Sand fine to med coarse. Small to med gravel. Loose - used water.		
70	280	22	302	Sand fine to med coarse. Small to med with a few large gravel. Loose - used alot of water.		
	302		317	Brown and blue clay.		
50	317	04	321	Sand fine to med coarse. Loose - used water.		
	321		340	Blue sand fine to med coarse. Loose - used some water.		
50	340	05	345	Sand fine to med coarse - loose. Used some water.		
	345		355	Mixed clay.		
50	355	05	360	Sand fine to med coarse - Loose. Used water.		
60	360	21	381	Sand fine to med coarse, small gravel. Loose - used water.		
	381		400	Blue and brown clay mixed.		
70	400	21	421	Sand fine to med coarse with small to med gravel. Loose - used water. A few cemented sand sts.		
	421		539	Brown clay. Very few fine sand sts. A few linerock sts.		
75	539	52	591	Sand fine to med coarse, small to med brown gravel. Loose - used water. Brown rock sts.		
	591		605	Soapstone.		
	605		620	Weather Shale		
		160			TOTAL DEPTH OF WELL 593'	
					Set up facing South	
					Dig pit on the West	

GARDEN CITY, KS HENKLE DRILLING & SUPPLY CO., INC. Water Resources
 Phone 276-3278 IRRIGATION HEADQUARTERS Sublette, KS
 TEST HOLES * * * * * IRRIGATION & INDUSTRIAL WELLS Phone 675-4311
 NOV 27 2010 STOCK WELLS

SCANNED
 KS Dept Of Agriculture

Evaluation of the Domestic Well in Section 30-28-31

- Depth of the well = 328 ft
- Depth to the water table = 347 ft
- Based upon local water table data, this well is not operable and cannot be evaluated.

2018 OCT 24 PM 4:04
2018 OCT 24 PM 4:04
2018 OCT 24 PM 4:04

Domestic Well

1 LOCATION OF WATER WELL:
 County: **HASKELL** Fraction: **SE 1/4 SE 1/4 SE 1/4** Section Number: **30** Township Number: **T 28 S** Range Number: **R 31 EW**
 Distance and direction from nearest town or city street address of well if located within city?
6 North and 5 East of Sublette, Kansas

2 WATER WELL OWNER: **Mr. Gilbert Nickel**
 RR#, St. Address, Box #: _____ Board of Agriculture, Division of Water Resources
 City, State, ZIP Code: **Copeland, Kansas 67837** Application Number: _____

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:

N	
---	---
NW	NE
---	---
SW	SE
---	---
S	

4 DEPTH OF COMPLETED WELL: **328** ft. ELEVATION: **Slope**
 Depth(s) Groundwater Encountered: 1. **Not available** ft. 2. _____ ft. 3. _____ ft.
 WELL'S STATIC WATER LEVEL: **237** ft. below land surface measured on mo/day/yr **June 29, 1985**
 Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm
 Est. Yield: **25** gpm; Well water was _____ ft. after _____ hours pumping _____ gpm
 Bore Hole Diameter: **9 7/8** in. to **328** ft., and _____ in. to _____ ft.
 WELL WATER TO BE USED AS:
 Domestic Feedlot Oil field water supply Dewatering Other (Specify below)
 Irrigation Industrial Lawn and garden only Observation well
 Was a chemical/bacteriological sample submitted to Department? Yes _____ No ; If yes, mo/day/yr sample was submitted _____
 Water Well Disinfected? Yes No _____

5 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued Clamped _____
 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded _____
 7 Fiberglass Threaded _____
 Blank casing diameter: **5** in. to **268** ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
 Casing height above land surface: **18** in., weight **2.8** lbs./ft. Wall thickness or gauge No. **265**

TYPE OF SCREEN OR PERFORATION MATERIAL:
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 10 Asbestos-cement
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes
 7 Torch cut 10 Other (specify) _____

SCREEN-PERFORATED INTERVALS: From **268** ft. to **328** ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.
GRAVEL PACK INTERVALS: From **14** ft. to **328** ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.

6 GROUT MATERIAL: Neat cement 2 Cement grout 3 Bentonite 4 Other _____
 Grout Intervals: From **4** ft. to **14** ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.
 What is the nearest source of possible contamination:
 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below)
 13 Insecticide storage _____
 Direction from well? **South** How many feet? **100**

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	3	Topsoil			
3	82	Clay			
82	237	Med. to Lar. Sand (Dry)			
237	300	Med. to Lar. Sand & Gravel			
300	312	Fine Gray Sand			
312	328	Blue Clay & Fine Sand			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) **June 29, 1985** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **252** This Water Well Record was completed on (mo/day/year) **July 3, 1985** under the business name of **FRIESEN WINDMILL & SUPPLY INC.** by (signature) _____

INSTRUCTIONS: Use typewriter or ball point pen, PLEASE PRESS FIRMLY and PRINT clearly. Please fill in back, unperforated or circle the perforations and top three copies to Kansas Department of Health and Environment, Division of Environment, Environmental Geology Section, Topeka, KS 66620. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY

T

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7800000008-22
NOV 27 2018
SCANNED

VOID PRE 11/19/18 MODIFICATION

Report Date Monday, October 15 2018

Water Rights and Points of Diversion Within 1.00 miles of point defined as:

2192 ft N and 2607 ft W of the SE Corner of Section 31, T 28S, R 31W

Located at: 100.752173 West Longitude and 37.568032 North Latitude

GROUNDWATER ONLY

2300' on a //

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit
A__ 3816 00	IRR NK G			1693	--	NW	SW	NE	3885	2611	31	28	31W	3		548.00	548.00	AF
A__ 19135 00	IRR NK G			2672	--	--	--	NE	5190	4050	6	29	31W	1		367.00	367.00	AF
A__ 27323 D2	IRR NK G			2821	--	SW	SW	NW	2695	5160	32	28	31W	2		309.00	309.00	AF
A__ 28674 00	IRR NK G			3762	--	--	--	--	4971	5143	31	28	31W	2		290.00	290.00	AF

Nslog

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) =	1514.00	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	1514.00	.00

Spacing MET

An * after the source of supply indicates a pending application for change for the file number.

An * after the ID indicates a 15 AF exemption was granted for 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 1.00 miles of point defined as:

100.752173 West Longitude and 37.568032 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

- File Number Use ST SR
- A__ 3816 00 IRR NK G
- > KENNETH & SHIRLEY NICKEL
- >
- > 2356 110TH RD
- > COPELAND KS 67837
- >-----
- A__ 19135 00 IRR NK G
- > LBJ FARM LLC
- >
- > 445 AVENAL LANE
- > GRAND JUNCTION CO 81507
- >-----
- A__ 27323 D2 IRR NK G
- > HENRY H & AGATHA T WIEBE
- >
- > 1095 TT RD
- > COPELAND KS 67837
- >-----
- A__ 28674 00 IRR NK G
- > DERECK W & AMY L NICKEL
- >
- > 1197 TT RD

DUPLICATE COPY

INPUTS	
Target Section Definition	
Section	31
Township	28
Range	31
Range Direction	W
Target Point Coordinates (NAD27 or NAD83)	
Target Longitude	-100.752611
Target Latitude	37.568050

*Proposed
3510*

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	37.56202051	-100.76183567
NW	37.57660854	-100.76165261
NE	37.57653243	-100.74355507
SE	37.56203643	-100.74361609
Degrees Longitude per Foot		3.45007780E-06
Degrees Latitude per Foot		2.74629662E-06
Target Point Distances from Corners using NAD83		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	2195	-2674
NW	-3116	-2621
NE	-3089	2625
SE	2190	2607

Target point is In Section.

Loaded Section Data From LEOBASE using NAD27		
Corner	Corner Latitudes	Corner Longitudes
SW	37.56199600	-100.76139800
NW	37.57658400	-100.76121500
NE	37.57650800	-100.74311800
SE	37.56201200	-100.74317900
Degrees Longitude per Foot		3.45007667E-06
Degrees Latitude per Foot		2.74598553E-06
Target Point Distances from Corners using NAD27		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	2205	-2547
NW	-3108	-2494
NE	-3080	2752
SE	2199	2734

Target point is In Section

Difference (NAD83 Minus NAD27)		
Corner	Corner Latitudes	Corner Longitudes
SW	0.00002451	-0.00043767
NW	0.00002454	-0.00043761
NE	0.00002443	-0.00043707
SE	0.00002443	-0.00043709

Difference (NAD83 Minus NAD27)		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	-9.17448390	-126.85717527
NW	-8.58362786	-126.83980172

Water Resources
 Received
 NOV 27 2018
 KS Dept Of Agriculture
 SCANNED

STATE OF KANSAS

DEPARTMENT OF AGRICULTURE
DIVISION OF WATER RESOURCES
GARDEN CITY FIELD OFFICE
2508 JOHNS STREET
GARDEN CITY, KS 67846-2804



PHONE: (620) 276-2901
FAX: (620) 276-9315
www.agriculture.ks.gov

GOVERNOR JEFF COLYER, M.D.
JACKIE McCLASKEY, SECRETARY OF AGRICULTURE

October 15, 2018

SOUTHWEST KANSAS GROUNDWATER
MANAGEMENT DISTRICT NO. 3
409 CAMPUS DRIVE, SUITE 106
GARDEN CITY KS 67846

Re: Water Right File No. 3816

Dear Mr. Norquest;

This is to advise you that Kenneth Nichol has filed an application for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point of diversion for the above referenced file.

We are delaying action on the change application to allow you time to review and provide a recommendation.

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

Sincerely,

Michael A. Meyer
Water Commissioner

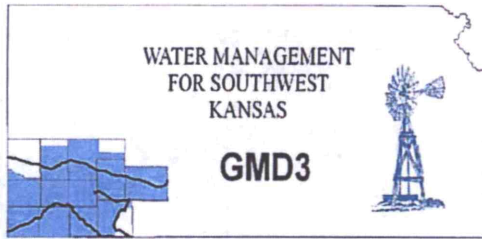
MAM
Enclosure

Water Resources
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NOV 27 2018

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Southwest Kansas
Groundwater Management District No. 3
2009 E. Spruce Street
Garden City, Kansas 67846
(620) 275-7147 phone (620) 275-1431 fax
www.gmd3.org

October 25, 2018

Michael A. Meyer
Division of Water Resources
2508 N Johns Street
Garden City, Kansas 67846

RE: Application for Change in Point of Diversion
Water Right, File No. 3816

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 distance moved and spacing to neighboring wells.

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 K.S.A. 82a-710 (b) and (c), and the draft revised management program. It is considered unreasonable to dis-allow any new effects from a proposal, so a standard maximum drawdown allowance applied over 50 years is used under an assumption the proposed well is pumped at maximum authorized rate and quantity. A drawdown allowance of four feet is used based on saturated thickness of more than 200 feet. The maximum reasonable or de minimis effect is used to screen for water right wells that need more investigation for a critical well result from the proposal. A critical well is a strong candidate for water right impairment.

The attached review information is based on the Theis and GMD3 model tools and considered the best information available. Conclusions of the well analysis may change if better information on well and aquifer data can be made available.

Two irrigation wells, one in section 32 (27323) and one in section 31 (28674) showed effects greater than de minimis, and were further evaluated under economic, physical and the 40/25 depletion constraints to find that they were both critical wells of the proposal. From the GMD3 bedrock map, these wells were found to be reasonably completed to access the available local source of supply. Further calculations determined that a limit in proposed pumping rate to 845gpm or less for the proposed well would limit the drawdown effect to less than the four foot threshold for accepted de minimis effect, based on current conditions.

After review of the analysis, it is recommended that the application be approved subject to a limitation that the proposed well's rate not exceed 845gpm at the proposed location. Please realize that any reduction of rate and/or quantity can mitigate the critical well concerns for the two neighbor wells.

If you wish to make an official request for a full Board review, please contact our office. 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

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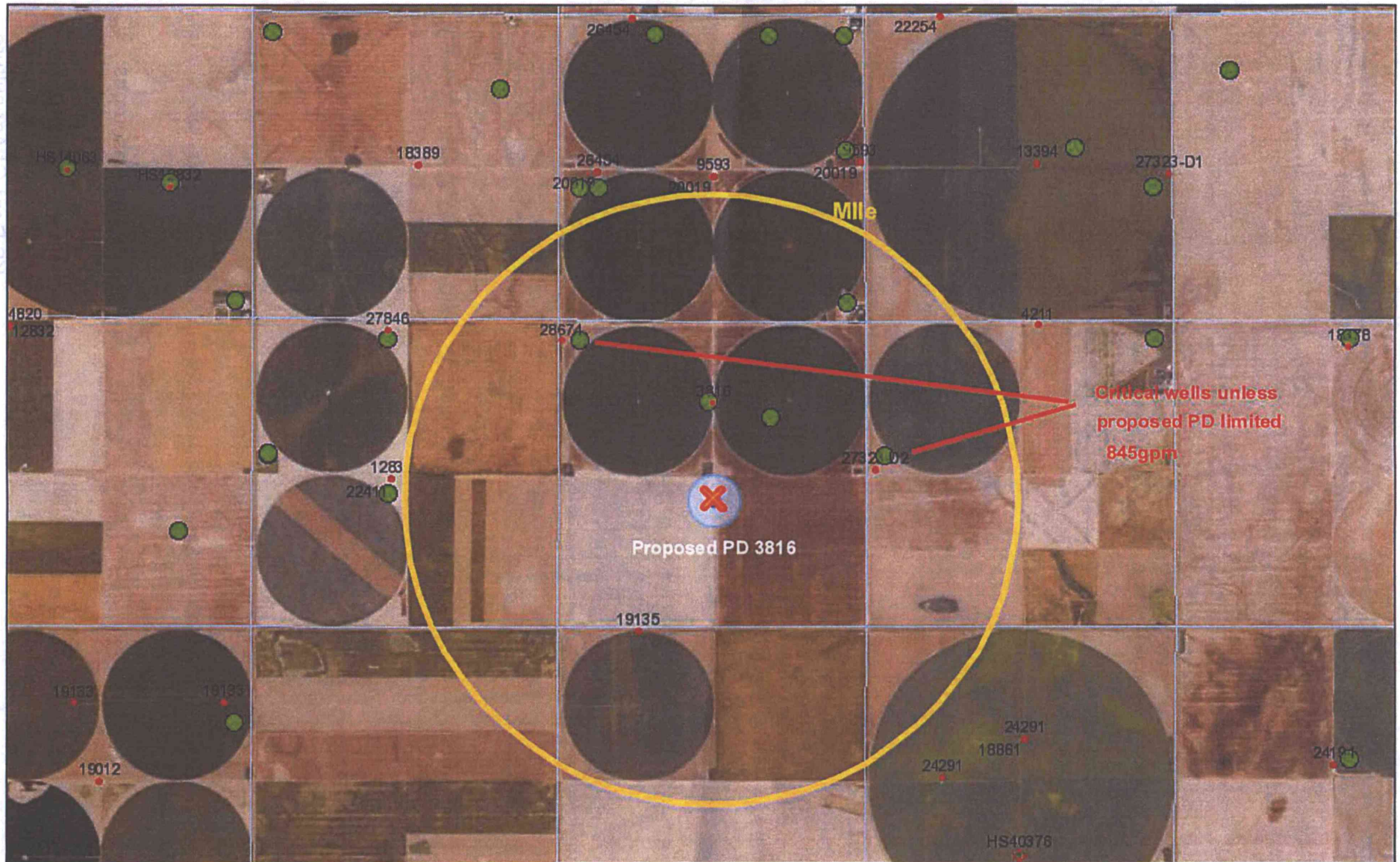
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Working Water Conservation Every Day Since 1976

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3816 Change Review, PD



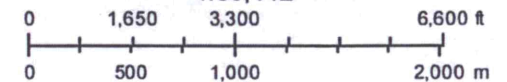
October 24, 2018
15:34 PM

DISCLAIMER: This map is not intended for conveyances, nor is it a legal survey. The information is presented on a best-efforts basis, and should not be relied upon for making financial, survey, legal or other commitments.

1:36,112

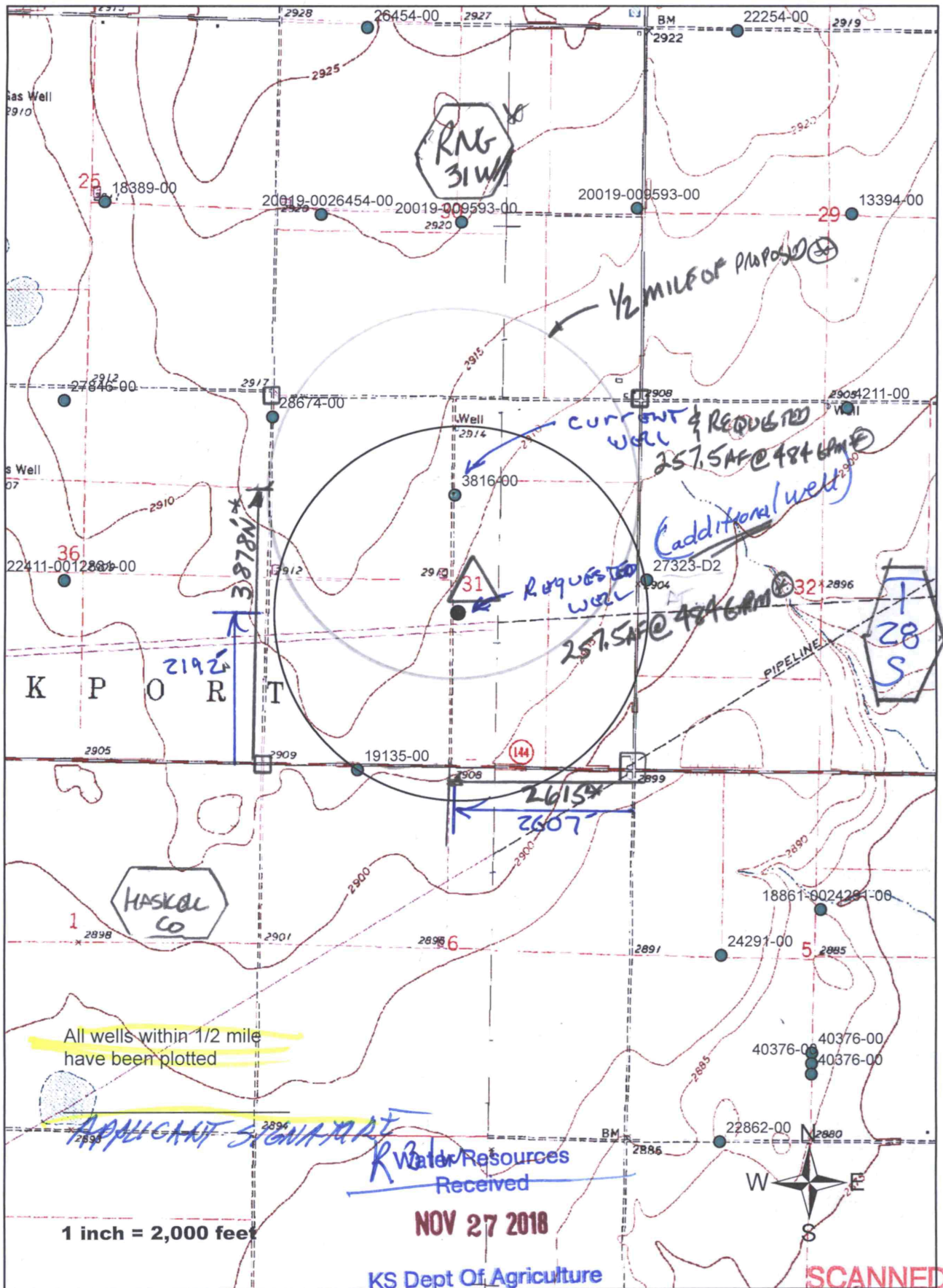
GPS Position

Wells	+	CON	■	FPR	▲	MUN	⚡	THX	
?	Other	⊠	DEW	⊕	HYD	⊖	REC	?	Empty
•	IRR	▲	DOM	★	IND	⊗	STK	●	WWC5 WELLS GMD3



Application to Change Point of Diversion

File No. 3816



All wells within 1/2 mile have been plotted

APPLICANT SIGNATURE

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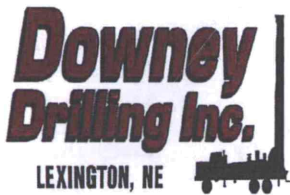
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* LI/ann 11/30/18

* Requested by land owner 11-19-18

WELL LOG

DATE: 12/20/2017



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Garden City Field Office
Division of Water Resources

CUSTOMER NAME: KEN NICKEL

LEGAL: NW/SE 31-28S-31W

COUNTY: HASKELL

GPS: 37 34' 05.0" N

37.56805

-100 45' 09.4" W

-100.7526111

DRILLER: CHRIS P

WO#:

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL	SOFT	DARK	FAST		SMOOTH
	2	60	SILTY CLAY	SOFT	TAN	FAST		SMOOTH
	60	103	SILTY CLAY, FINE SAND, AND TRACES OF MEDIUM SAND	SOFT	TAN	FAST		SMOOTH
	103	124	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST		CHATTER
	124	137	FINE-MEDIUM SAND AND SANDY CLAY	SOFT	TAN	FAST		SMOOTH
X	137	200	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST		CHATTER
X	200	240	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST		CHATTER
	240	266	FINE-MEDIUM-COARSE SAND, FINE-MEDIUM GRAVEL, AND SOME COARSE GRAVEL	SOFT	RED	FAST		CHATTER
	266	284	SANDY CLAY WITH SOME MEDIUM GRAVEL	SOFT	TAN	FAST		SMOOTH
	284	304	BLUE CLAY AND SOME SANDY CLAY	FIRM	BLUE	FAST		SMOOTH
	304	305	CEMENTED SAND	HARD	WHITE	SLOW	X	CHATTER
	305	308	SAND	SOFT	RED	SLOW		CHATTER
	308	309	CEMENTED SAND	HARD	WHITE	SLOW	X	CHATTER
X	309	324	MEDIUM-COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST		CHATTER
	324	342	FINE-MEDIUM SAND	SOFT	RED	FAST		SMOOTH
	342	343	CEMENTED SAND	FIRM	WHITE	SLOW		CHOPPY
	343	354	SANDY CLAY AND SAND	SOFT	TAN	FAST		SMOOTH
X	354	362	COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST		CHATTER
	362	366	SAND AND SANDY CLAY LAYERS	SOFT	TAN	FAST		CHOPPY
	366	376	FINE-MEDIUM GRAVEL	SOFT	RED	FAST		CHATTER
	376	382	SAND W/SILT LENSES	SOFT	GRAY	FAST		SMOOTH
	382	420	FINE-MEDIUM SAND, FINE- TR. MEDIUM GRAVEL, W/FEW SILT LENSES	SOFT	RED	FAST		CHATTER
X	420	445	MEDIUM - COARSE SAND; FINE-TR. MEDIUM GRAVEL	SOFT	RED	FAST		CHATTER
	445	458	SILT AND SILTY SAND	SOFT	RED	FAST		CHATTER
X	458	464	MED - COARSE TR. VERY COARSE SAND	SOFT	TAN	FAST		CHATTER
	464	500	SANDY SILTY CLAY	SOFT	RED	FAST		SMOOTH
	500	535	F. SAND & SANDY SILTY CLAY	FIRM	TAN	SLOW		SMOOTH
X	535	558	FINE-MEDIUM-COARSE SAND, FINE GRAVEL, AND TRACES OF BROWN ROCK	SOFT	RED	FAST		CHATTER
	558	600	SHALE AND OCHRE (WEATHERED SHALE)	FIRM	GRAY/YELLOW	SLOW		SMOOTH
	600	621	SHALE	FIRM	GRAY	SLOW		SMOOTH
	621	633	SHALE W/F. SAND LENSES	FIRM	GRAY	FAST		SMOOTH
	633	651	SHALE	FIRM	GRAY	SLOW		SMOOTH
	651	674	SHALE WITH F. SAND LENSES	SOFT	GRAY	FAST		CHOPPY
X	674	714	F. SAND W/TR. SANDSTONE	SOFT	GRAY	FAST		CHATTER
	714	740	SHALE W/F. SAND LENSES	SOFT	GRAY	SLOW		SMOOTHER, SLIGHT CHATTER @ TIMES

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Century GEOPHYSICAL CORP.

KEN NICKEL

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Garden City Field Office
Division of Water Resources

COMPANY : DOWNEY DRILLING INC.
WELL : KEN NICKEL
LOCATION/FIELD :
COUNTY : HASKELL
LOCATION : E 1/2
SECTION : 31

OTHER SERVICES:

TOWNSHIP : 28S RANGE : 31W

DATE : 12/20/17
DEPTH DRILLER : 740
LOG BOTTOM : 739.90
LOG TOP : 0.80

PERMANENT DATUM : GL
LOG MEASURED FROM: GL
DRL MEASURED FROM: GL

KB :
DF :
GL :

CASING DIAMETER : 10.
CASING TYPE :
CASING THICKNESS:

LOGGING UNIT : 1319
FIELD OFFICE : DDI
RECORDED BY : DAVE

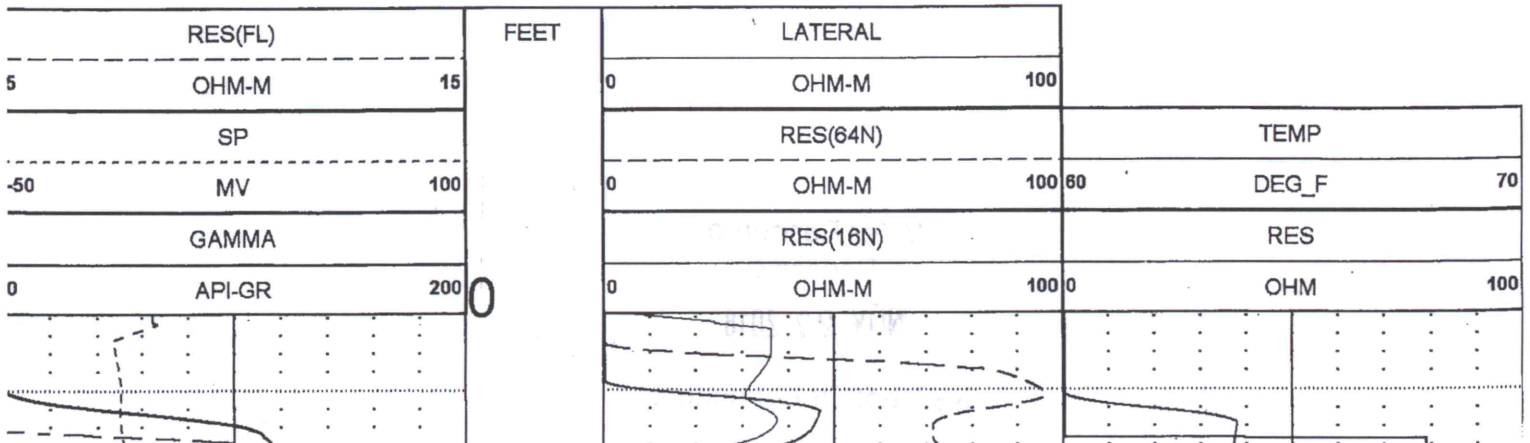
BIT SIZE : 6.25
MAGNETIC DECL. : 0
MATRIX DENSITY : 2.71
NEUTRON MATRIX : LIMESTONE

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

FILE : ORIGINAL
TYPE : 8144A
LGDATE: 12/20/17
LGTIME : 18:39:
THRESH: 99999

N 37-34-05.0
W-100-45-9.4

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



MATRIX DENSITY : 2.71
NEUTRON MATRIX : LIMESTONE

RMI TEMPERATURE :
MATRIX DELTA T : 49

LOGDATE : 12/20/17
LGTIME : 18:39:
THRESH: 99999

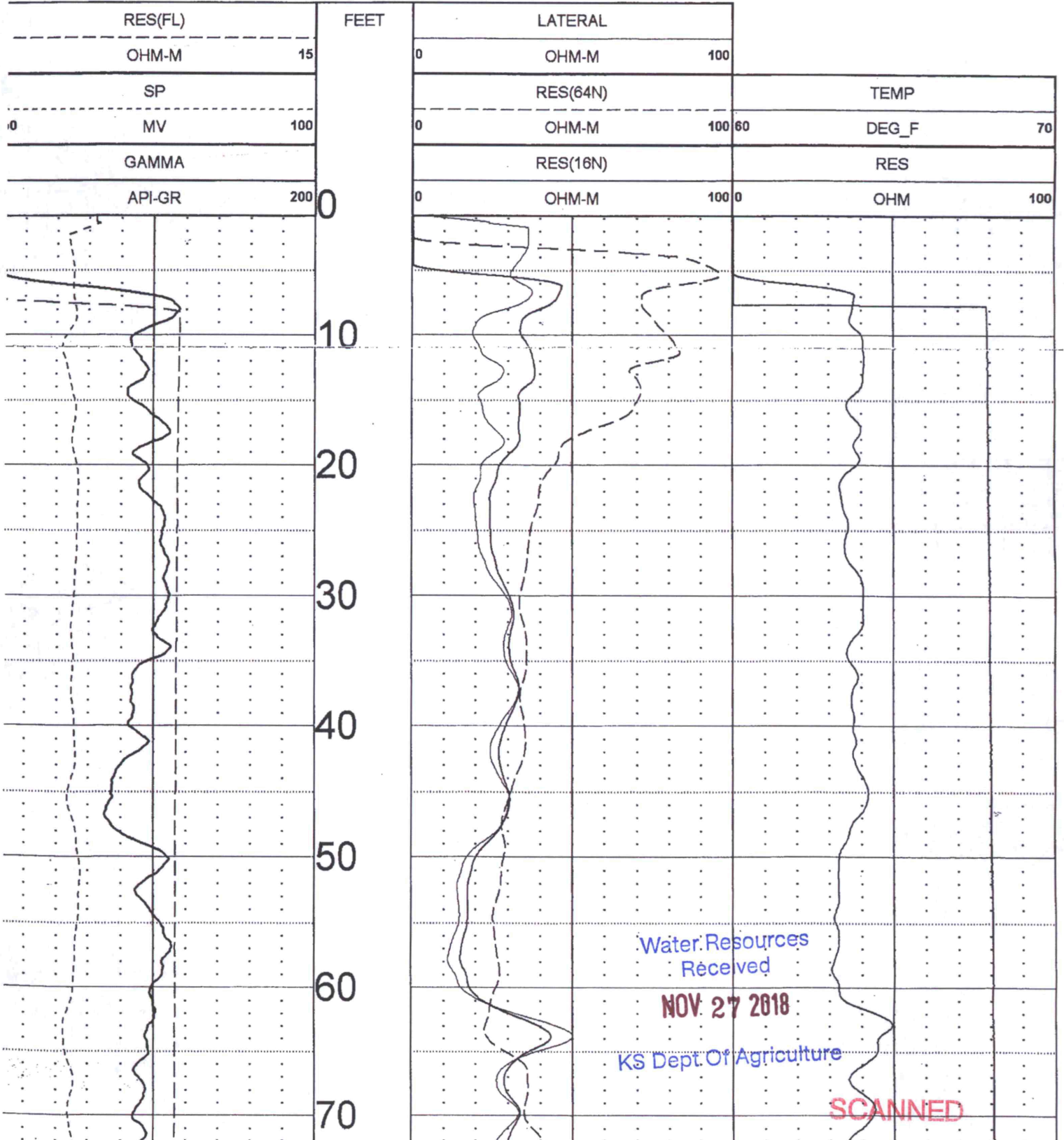
N 37-34-05.0
W-100-45-9.4

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ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

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Division of Water Resources

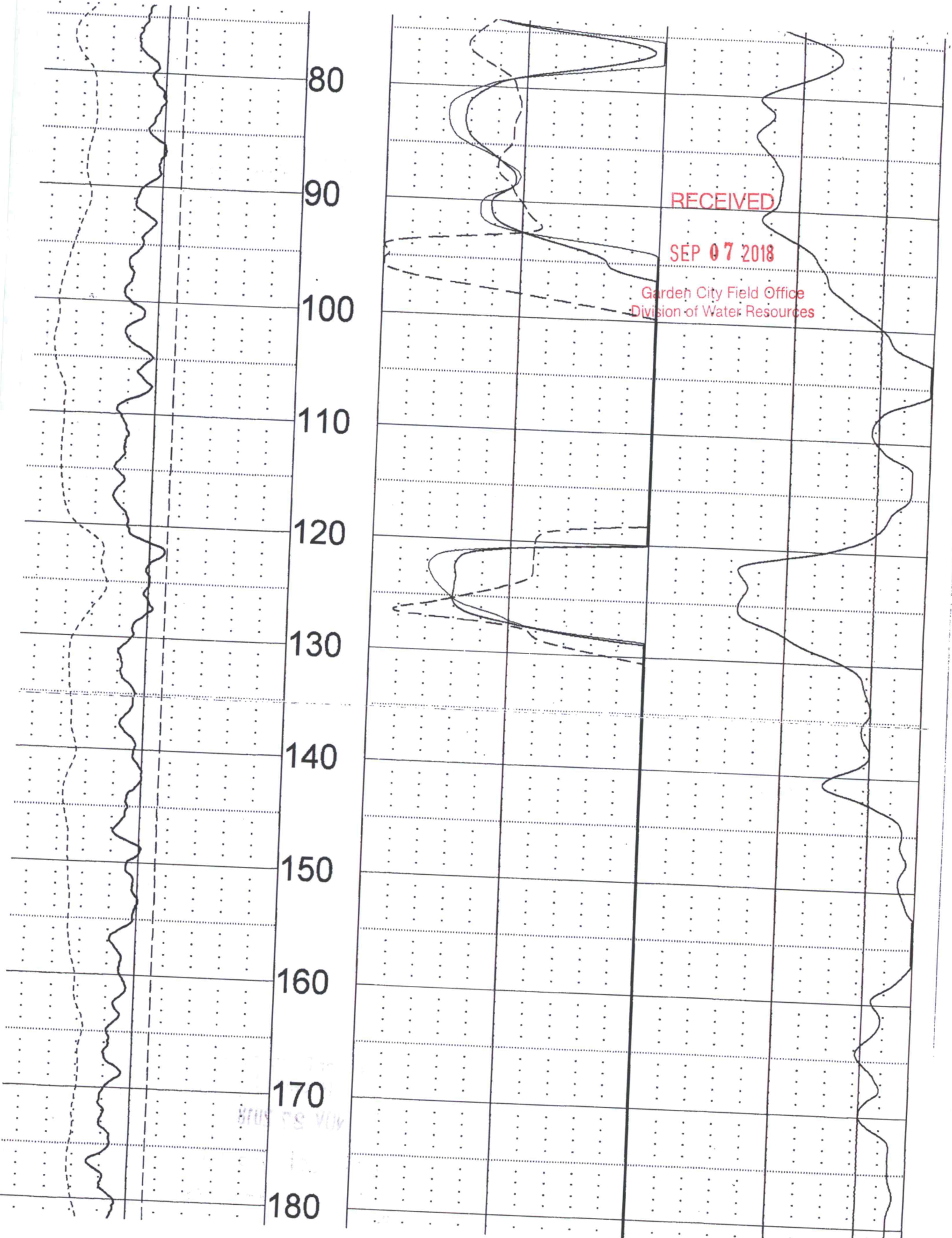


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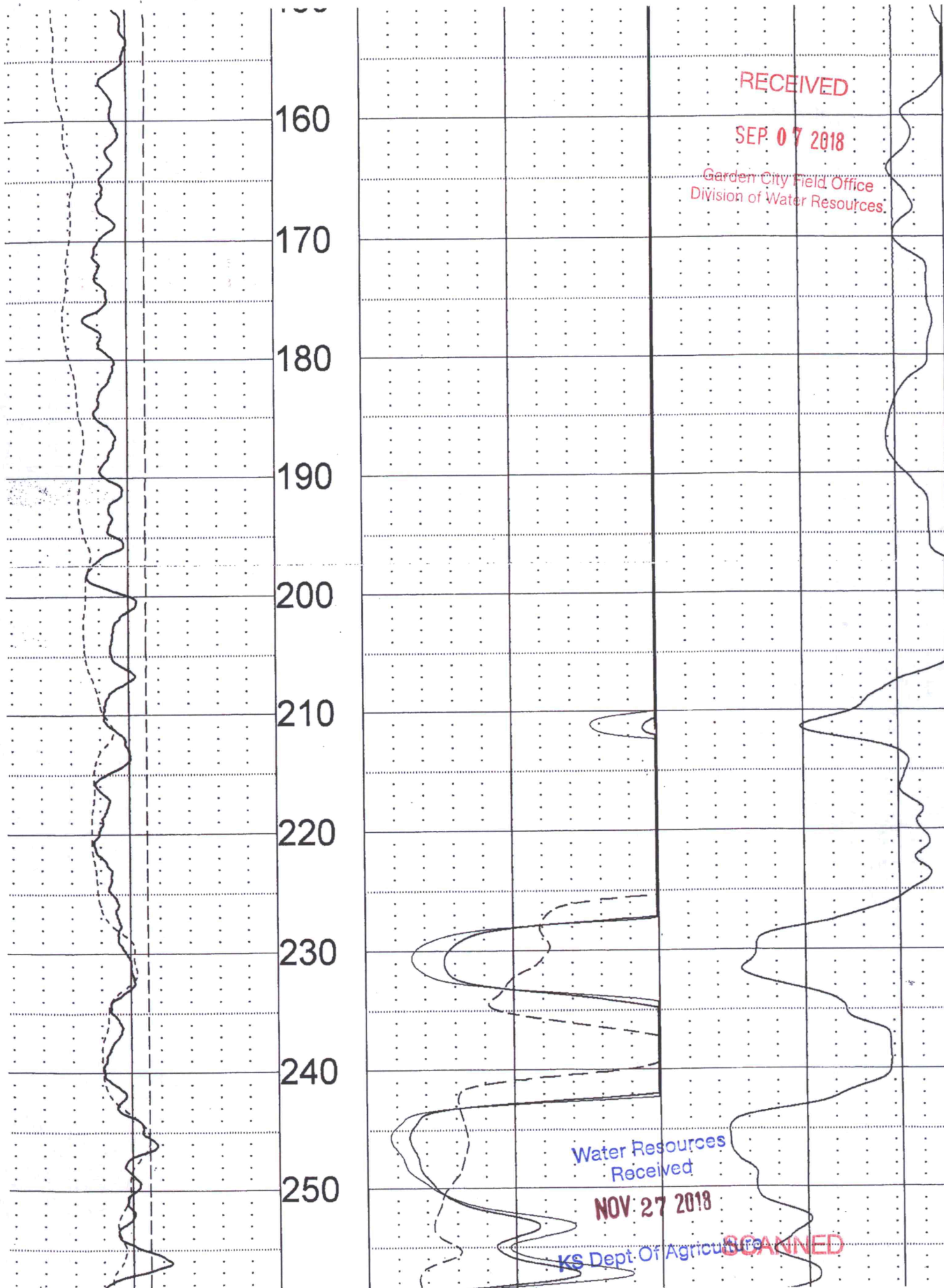
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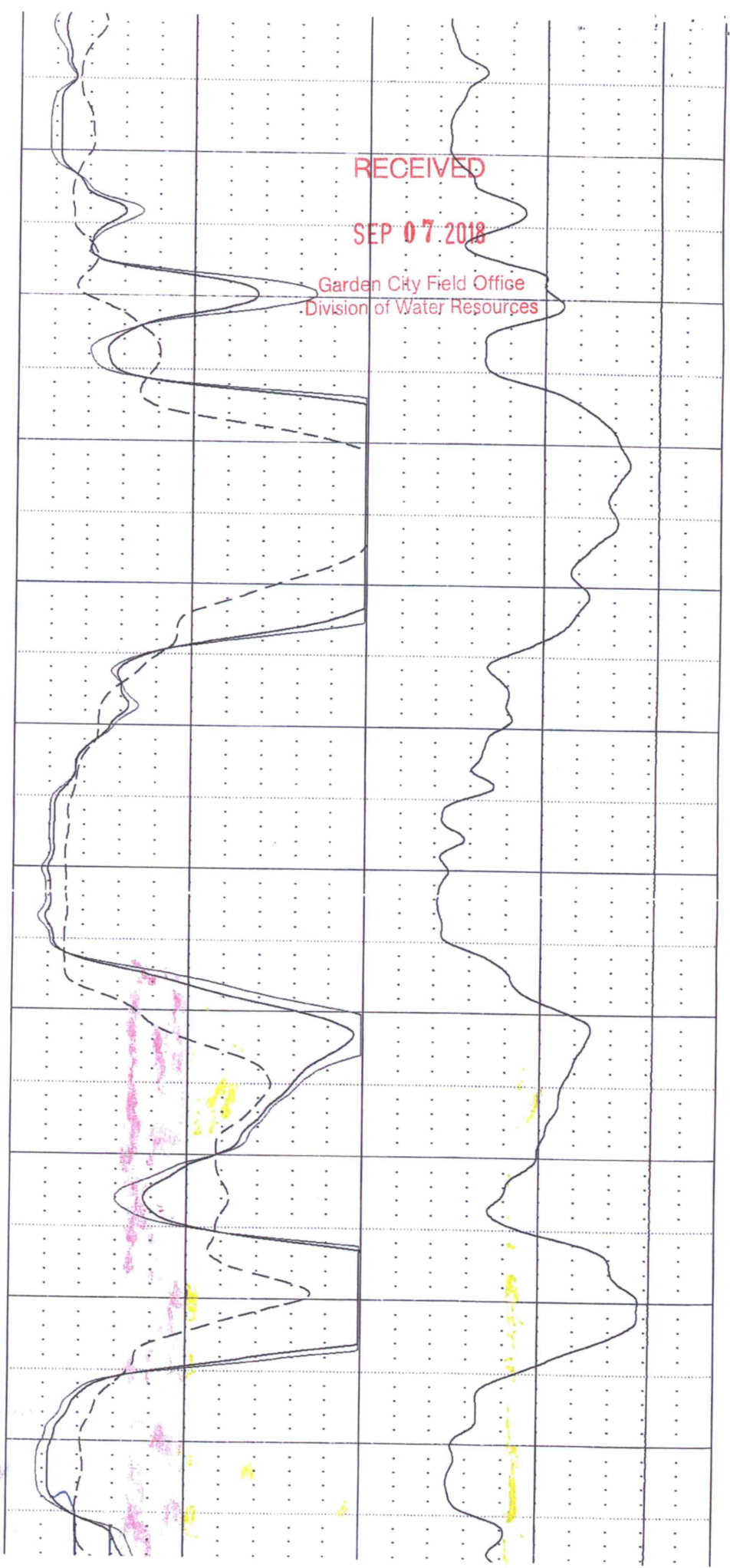
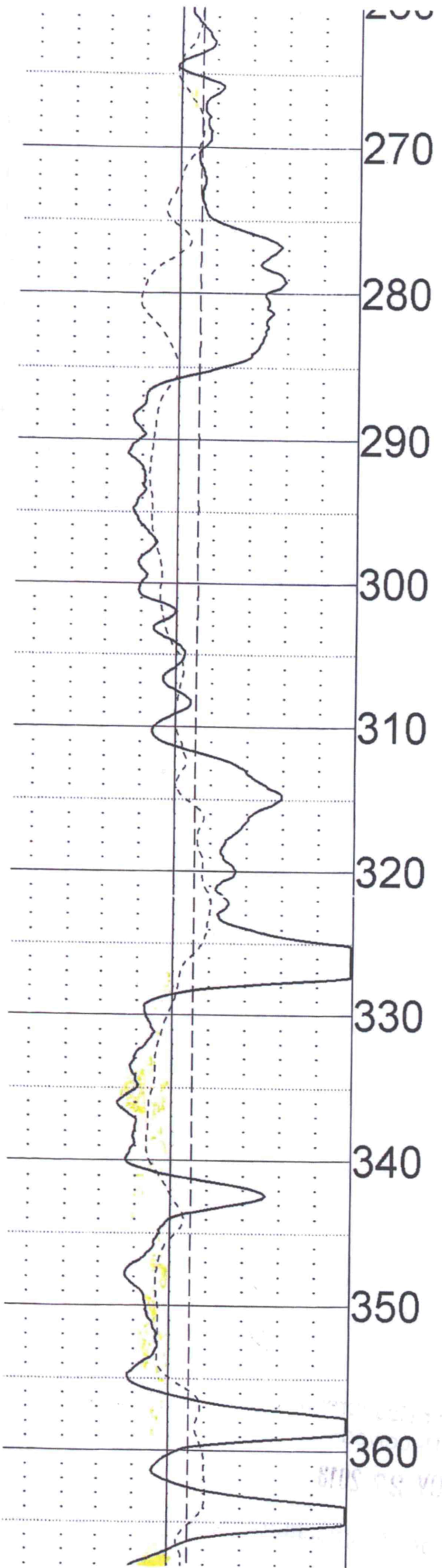
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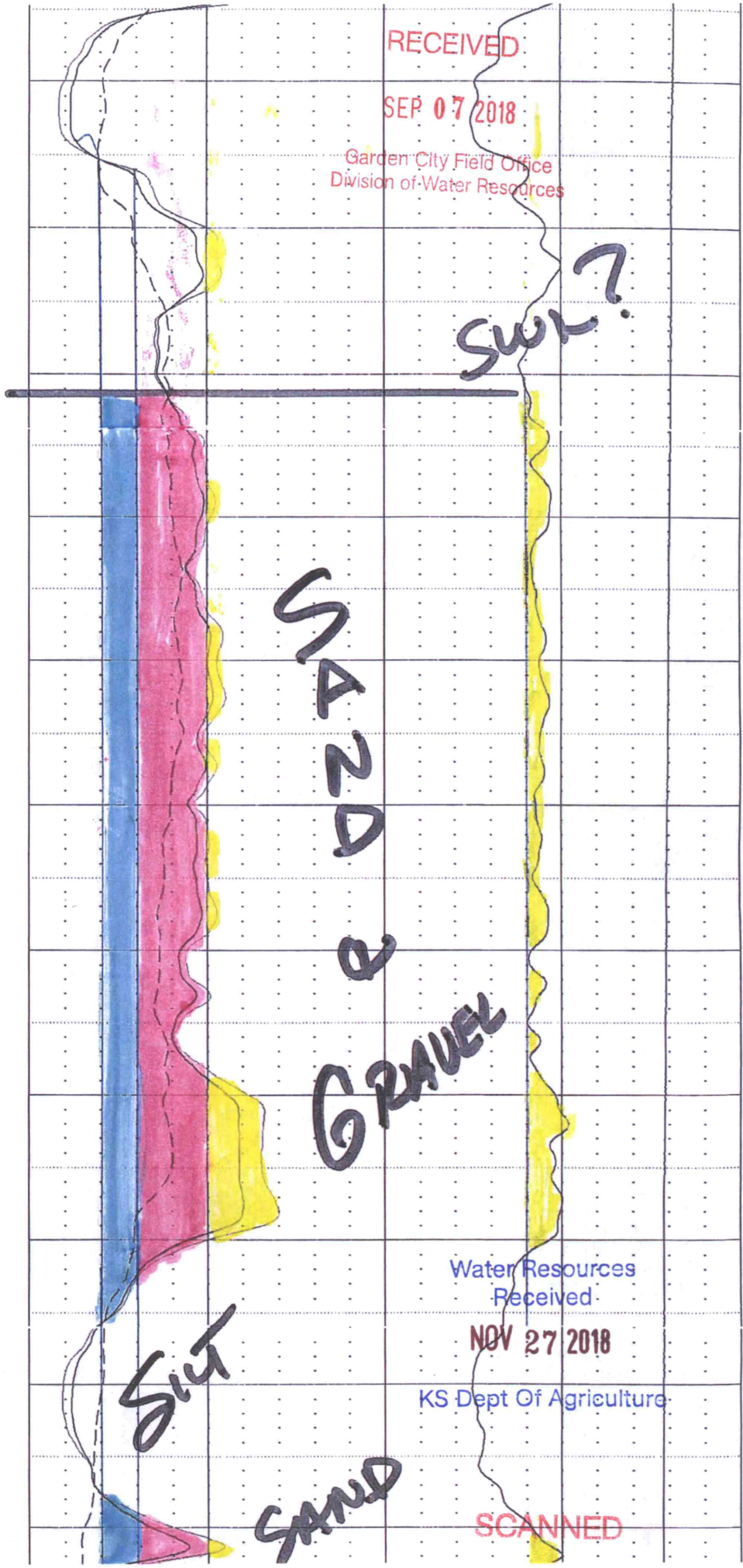
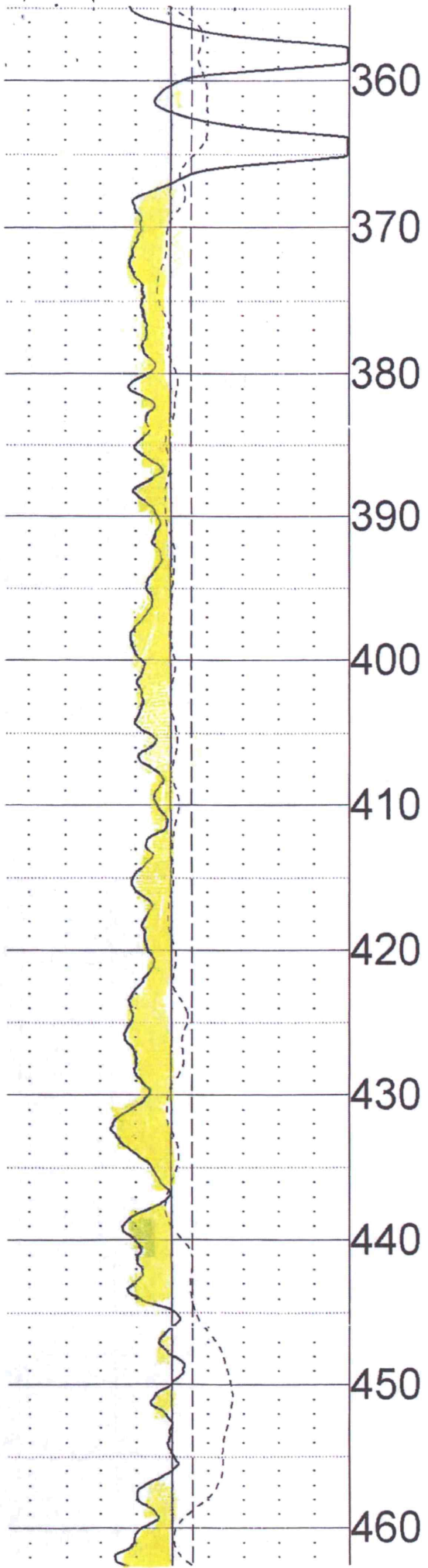


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F. SAND

F. GRAVEL

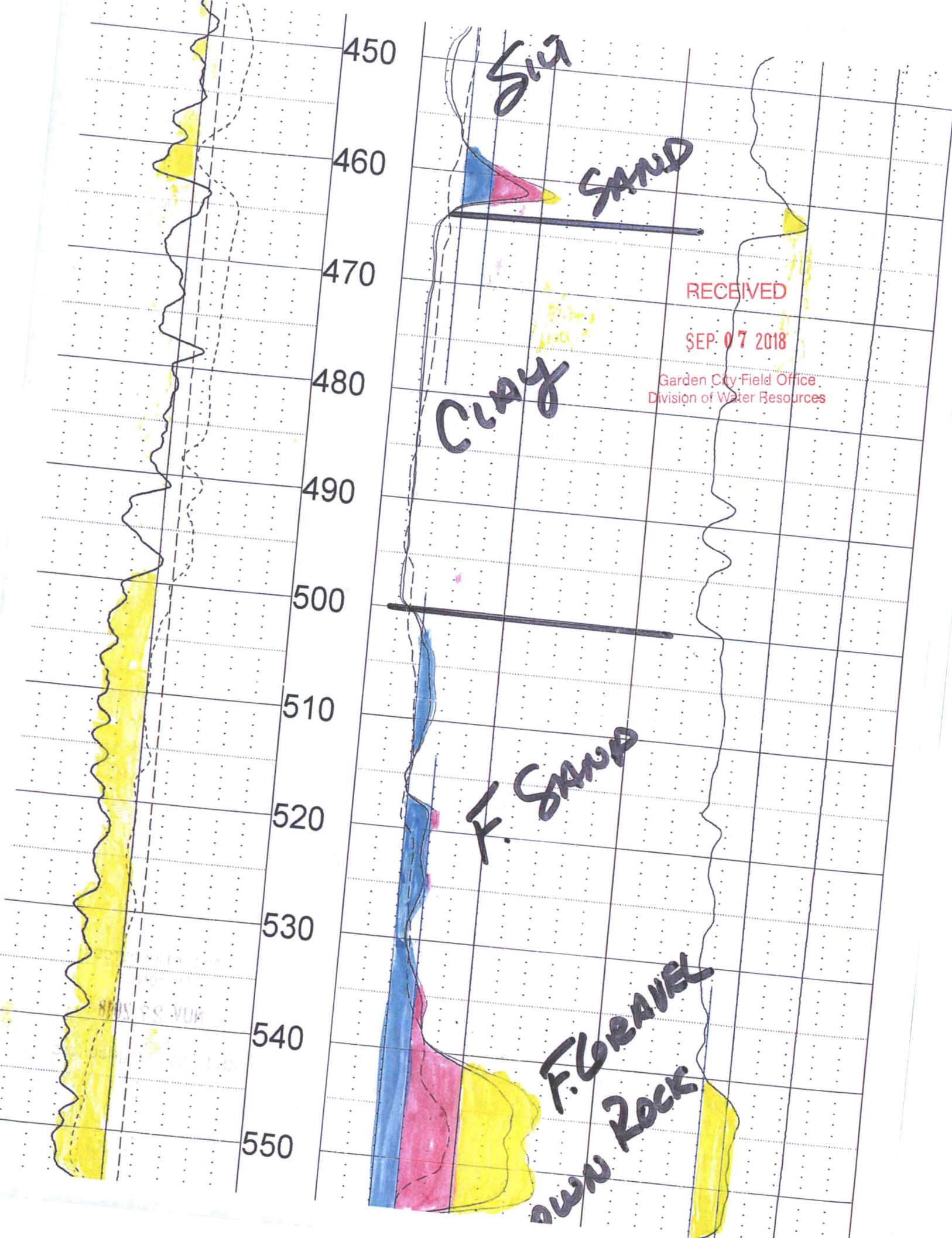
OWN ROCK

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Garden City Field Office
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APR 23 1988
10:00 AM



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Brown Zone

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SHALE

SAND LENSES

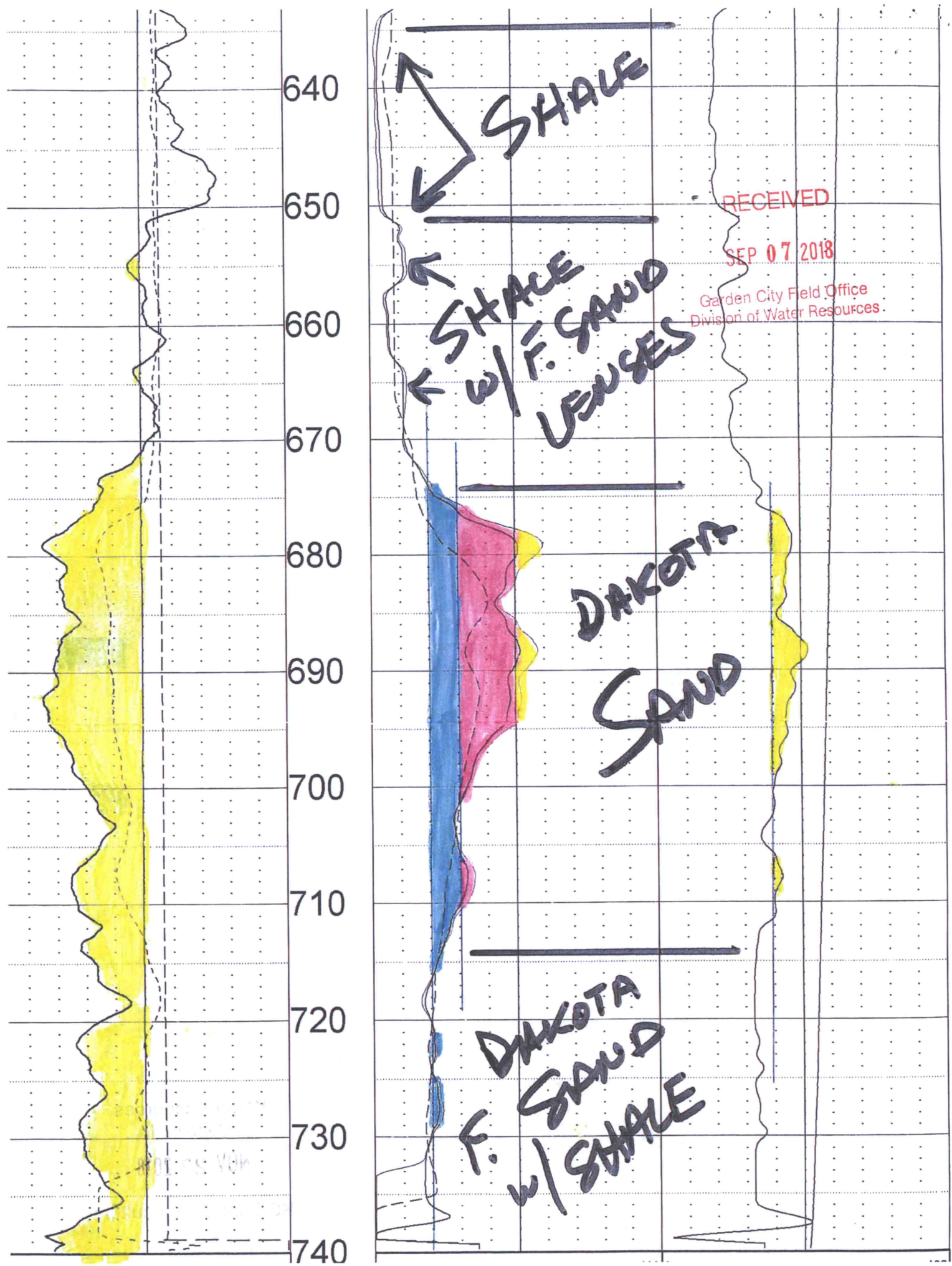
SHALE

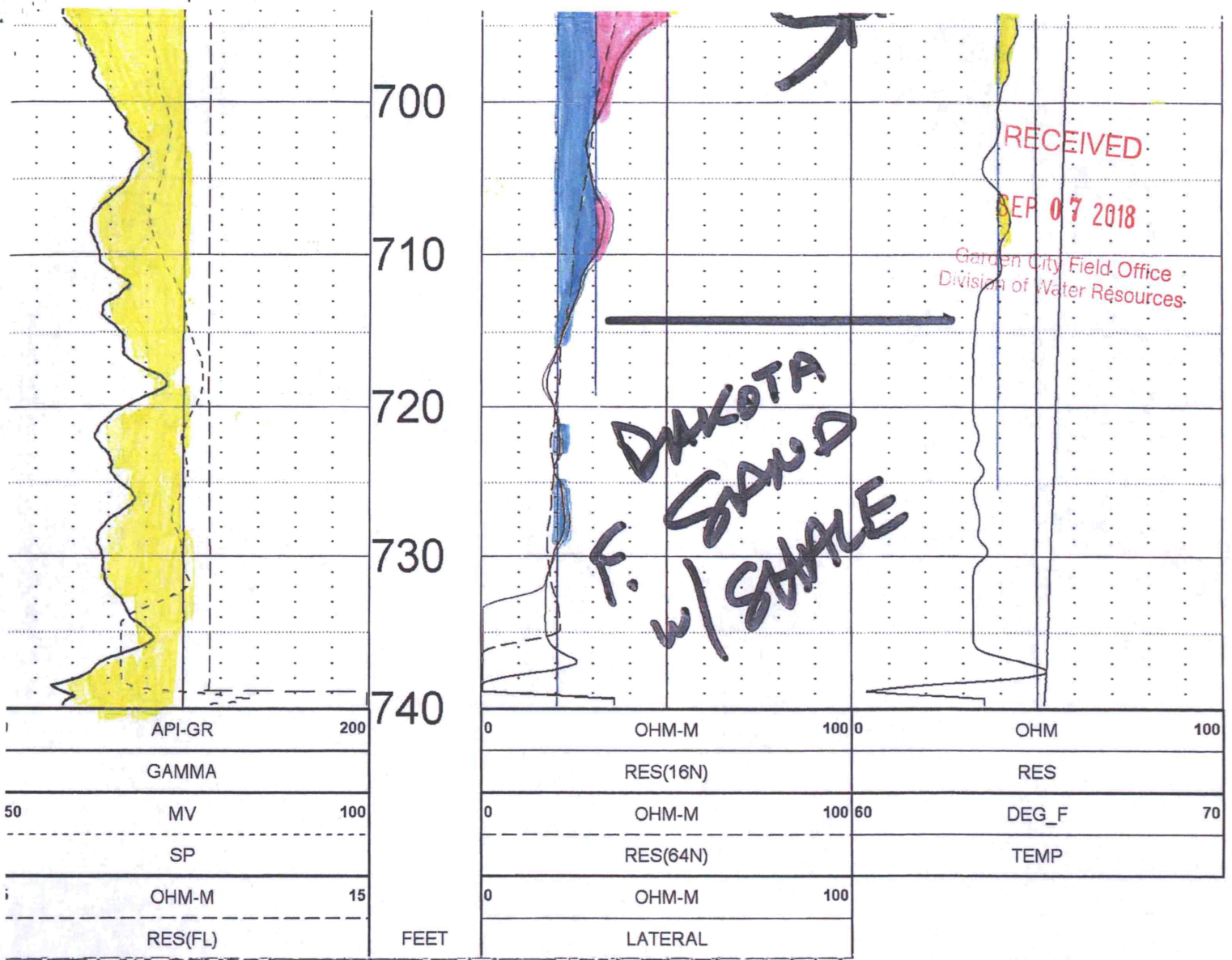
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TOOL CALIBRATION KEN NICKEL 12/20/17 18:39
TOOL 8144A TM VERSION 1
SERIAL NUMBER 365

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,17	20:36:52	GAMMA	1.000 [API-GR]	4.000 [CPS]
	Oct18,17	20:36:52	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	Jul12,17	13:24:23	SP	0.000 [MV]	327520.000 [CPS]
	Jul12,17	13:24:23	SP	390.000 [MV]	157140.000 [CPS]
4	Jul12,17	12:40:24	RES(16N)	0.000 [OHM-M]	5210.000 [CPS]
	Jul12,17	12:40:24	RES(16N)	1955.000 [OHM-M]	426837.000 [CPS]
5	Jul12,17	12:40:14	RES(64N)	0.000 [OHM-M]	5350.000 [CPS]
	Jul12,17	12:40:14	RES(64N)	1989.700 [OHM-M]	414870.000 [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	Jul12,17	12:40:03	RES	0.000 [OHM]	5320.000 [CPS]
	Jul12,17	12:40:03	RES	943.000 [OHM]	163939.000 [CPS]

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Ken Nickel

Write a description for your map.

Legend

-  31
-  Feature 1
-  KS
-  Line Measure

 North Irrigation Well SWL 384' Elev. 2915'

 TH #1 Elev. 2912' Est. SWL 381'

Google Earth

© 2017 Google

Go Red. It!



2000 ft