

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

Document Signature DWB

1. File Number: 18,595	2. Status Change Date: <i>5/14/2018</i>	3. Change Num: <i>*2</i>	4. Field Office: 04	5. GMD: 03
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6. Status: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return	7. Filing Date of Change: 2/13/18
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8a. Applicant(s) New to system <input type="checkbox"/> Person ID 12492 Add Seq# _____ THOMAS R. DOWNEY 28705 9 RD MONTEZUMA KS 67867	8c. pc New to system <input type="checkbox"/> Person ID _____ Add Seq# _____ THOMAS R. DOWNEY PO BOX 278 LEXINGTON NE 68850
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8b. Landowner(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____	8d. WUC New to system <input type="checkbox"/> Person ID _____ Add Seq# _____
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9. Documents and Enclosure(s): DWR Meter(s) Date to Comply: _____ N & P Date to Comply: _____

Check Valve N & P Form Water Tube Driller Copy H & E Letter

Conservation Plan Date Required: _____ Date Approved: _____ Date to Comply: _____

10. Use Made of Water From: _____ To: _____

SEE PAGE 2
CHANGE SOURCE OF SUPPLY
FROM DAKOTA TO Cgallala

Date Prepared: **4/3/18** By: **BAT**
 Date Entered: *5/15/2018* By: *UM*

File No. **18,595** 11. County: **GY** Basin: Stream: Formation Code: **211** Special Use:

12. Points of Diversion										Rate and Quantity				
T										Authorized		Additional		
MOD	PDIV	Qualifier	S	T	R	ID	'N	'W	Comment	Rate	Quantity	Rate	Quantity	Overlap PD Files
DEL										gpm/cfs	af/mgy	gpm/cfs	af/mgy	
ENT														

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

14. Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____
 Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____

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

16. Place of Use										NE¼								NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files
T																																	
MOD										NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE								
DEL	PUSE	S	T	R	ID	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE												
ENT						¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼												

Comments:

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

MEMORANDUM

TO: Files

DATE: April 4, 2018

FROM: Brent A. Turney

RE: Water Right
File No. 18,595

Jeff and Jennifer Jantz, owners of the referenced water right have filed an application to change the points of diversion under the above referenced water right, which was received in the office of the Chief Engineer on February 13, 2018.

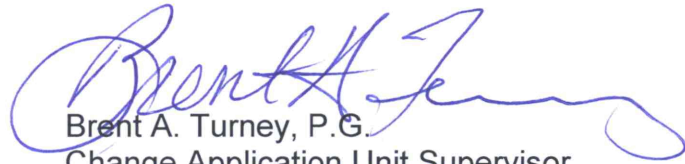
The application proposes to move the authorized point of diversion to a new well proposed to be drilled to a depth of 441 feet below land surface through the Graneros Shale and into the Dakota formation. The existing well authorized under Water Right, File No. 18,595, was drilled to a depth of 365 below land surface to the top of the Graneros Shale. Because the water right was never developed with water from the confined Dakota formation, approval of the change in point of diversion would change the local source of supply, in violation of K.S.A. 82a-708b(a). The well logs of the existing well and the proposed well were submitted to the Kansas Geologic Survey for review and interpretation. In an email dated March 6, 2018, Dr. Don Whitemore, PHD, Senior Scientific Fellow, Environmental Geochemistry, Emeritus, submitted a report that indicated the Graneros shall was present in both the existing and proposed well logs and that the Graneros identified in the log of the proposed well was of sufficient thickness to act as a confining layer sealing off the overlying Ogallala formation from the Dakota formation.

In a letter dated March 7, 2018, the applicant was informed that the application to change the point of diversion did not relate to the same local source of supply as to which the water right relates in violation of K.S.A. 82a-708b. In the letter the City was informed that the application did not comply with K.S.A. 82a-708b(a), and that the application would be submitted to the Chief Engineer along with a recommendation that they be denied and dismissed.

The City was given until March 23, 2018, to either supply additional information to show why our evaluation should be reconsidered or ask for additional time. In a letter dated March 19, 2018, Thomas R. Downey, on behalf of the applicant, submitted a letter that stated he did not believe that the Graneros Shale was significant enough to act as a confining layer to the Dakota formation.

After review of the submitted information, there does not appear to be sufficient information to show that the Dakota formation at the proposed location is not confined by the Graneros Shale, therefore, the application will be submitted to the Chief Engineer with a recommendation for denial.

Based upon the above information, it is recommended that the referenced change application be denied and dismissed, and its priority forfeited.



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



1320 Research Park Drive
Manhattan, Kansas 66502
785-564-6700

900 SW Jackson, Room 456
Topeka, Kansas 66612
785-296-3556

Secretary Jackie McClaskey

Governor Jeff Colyer, M.D.

May 15, 2018

FILE COPY

JEFF AND JENNIFER JANTZ
28705 9 RD
MONTEZUMA KS 67867

RE: Dismissal of Application
File No. 18,595

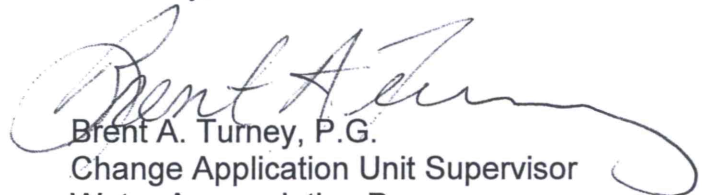
Dear Mr. and Mrs. Jantz:

Enclosed is the Findings and Order by the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, dismissing the Application to Change the Authorized Point of Diversion, under Water Right, File No. 18,595.

Please be reminded that reports of water usage must be submitted to this office annually. Records indicating the amount of water used should be furnished to the Chief Engineer by March 1 following the end of the previous calendar year so that the continued use of water becomes a matter of record in this office.

If you have any questions, please contact me at (785) 296-4617. 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
Water Appropriation Program

BAT
Enclosures
pc: Garden City Field Office
GMD No. 3
Thomas R. Downey



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

**FINDINGS AND ORDER
IN THE MATTER OF THE
APPLICATION FOR APPROVAL
TO CHANGE THE AUTHORIZED
POINT OF DIVERSION,
UNDER
WATER RIGHT, FILE NO. 18,595**

After due consideration, the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture (hereinafter referred to as the "Chief Engineer"), makes the following findings and order:

FINDINGS

1. That on August 17, 1982, the Chief Engineer, in accordance with K.S.A. 82a-714, issued a certificate of appropriation pursuant to Appropriation of Water Right, File No. 18,595, for permit to appropriate water for irrigation use.
2. That on February 13, 2018, an Application for Approval to Change the Authorized Point of Diversion was received in the office of the Chief Engineer under File No. 18,595. The application requests to change the location of the point of diversion to a proposed well located near the center of the Northeast Quarter of Section 26, more particularly located near a point 3,901 feet North and 1,365 feet West of the southeast corner of said Section, Township 27 South, Range 30 West, Gray County, Kansas, at a proposed well depth of 441 feet below land surface.
3. That K.S.A. 82a-708b of the Kansas Water Appropriation Act states in part:

"(a) Any owner of a water right may change the place of use, point of diversion or the use made of water, without losing priority of right, provided such owner shall: ... (3) demonstrate to the chief engineer that any proposed change relates to the same local source of supply as that to which the water right relates ..."
4. That the existing well is completed to the Graneros Shale to a depth of 365 feet below land surface, while the well requested in the application proposes to be drilled to a depth of 441 feet below land surface, into the Dakota formation. The location of both the existing and proposed wells are located in a mapped area that is shown to be confined Dakota formation as indicated by Kansas Geological Survey Open File Report 98-37 Plate A.
5. That in a letter dated March 7, 2018, the water right owner was informed that the Application for Approval to Change the Authorized Point of Diversion under Water Right, File No. 18,595, would be denied and dismissed because the proposed well does not relate to the same local source of supply as to that which the water relates, in violation of K.S.A. 82a-708b(a). The water right owner was advised they had a period of 15 days from the date of the letter (until March 23, 2018) to either submit additional information to the office of the Chief Engineer or to request additional time beyond the 15 days to submit additional information. The water right owners were further informed that if they did not request more time within the 15 day period, or if their request was not granted, that the application would be submitted to the Chief Engineer with a recommendation to deny the application.

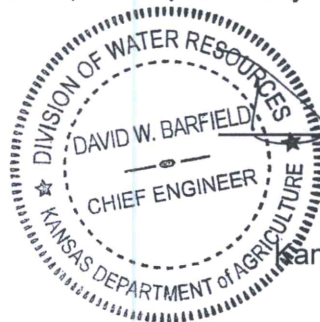
- 6. That on March 19, 2018, Thomas R. Downey, of Downey Drilling, Inc., submitted a letter to the Chief Engineer that contends that the Dakota formation at the proposed location is not confined by the Graneros Shale. Further, Mr. Downey contends that records at the Division of Water Resources indicate the source of supply for the existing well is the Dakota formation.
- 7. However, the letter did not provide sufficient information to show that the 60 feet of Graneros Shale present at the proposed well location does not act to confine the Dakota formation from the overlying Ogallala formation. Because the Dakota formation is considered to be a new source of supply to the water right, the change to drill the proposed well deeper does not relate to the same local source of water to which the water right relates in violation of K.S.A. 82a-708b. Further, because the existing well was never completed into the Dakota formation, the entry in the WRIS data base that states the source is Dakota formation, has been determined to be in error and has been corrected.
- 8. Since no substantial information to show that the proposed well relates to the same local source of supply to which the water right relates was been received, the Application for Approval to Change the Authorized Point of Diversion should be dismissed for failure to meet the requirements of 82a-708b(a) of the Kansas Water Appropriation Act.

ORDER

NOW, THEREFORE, It is the decision and order of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, that effective the date of this order, the Application for Approval to Change the Authorized Point of Diversion received on February 13, 2018, under Water Right, File No. 18,595, shall be denied and dismissed.

In all other respects, the Certificate of Appropriation for Beneficial Use of Water, issued pursuant to File No. 18,595, dated August 17, 2018, remains as authorized.

Dated at Topeka, Kansas, this 14th day of May, 2018.



David W. Barfield

 David W. Barfield, P.E.
 Chief Engineer
 Division of Water Resources
 Kansas Department of Agriculture

State of Kansas)
) SS
 County of Shawnee)

The foregoing instrument was acknowledged before me this 14th day of May, 2018, by David W. Barfield, P.E., Chief Engineer, Division of Water Resources, Kansas Department of Agriculture.



Karen Hunter

 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, Kansas 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 Section
Kansas Department of Agriculture
1320 Research Park Drive
Manhattan, Kansas 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

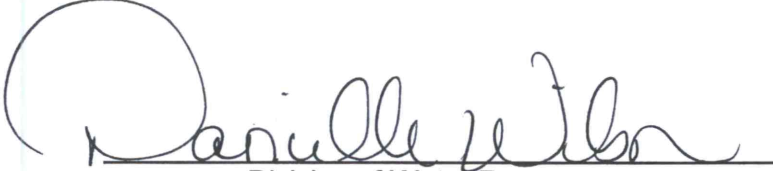
On this 15th day of May, 2018, I hereby certify that the attached Dismissal of Application to Change the Authorized Point of Diversion, File No. 18,595, dated May 14th, 2018 was mailed postage prepaid, first class, US mail to the following:

JEFF AND JENNIFER JANTZ
28705 9 RD
MONTEZUMA KS 67867

With photocopies to:

Garden City Field Office
Groundwater Management District No. 3

THOMAS R. DOWNEY
PO BOX 278
LEXINGTON NE 68850



Division of Water Resources

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

March 7, 2018

JEFF AND JENNIFER JANTZ
28705 9 RD
MONTEZUMA KS 67867

FILE COPY

RE: Water Right, File No. 18,595

Dear Mr. and Mrs. Jantz,

Reference is made to the application for approval of the Chief Engineer to change the point of diversion under the referenced file number which was received in the office of the Chief Engineer on February 13, 2018. Upon review of the application and supporting well logs, we find that the application cannot be approved as proposed.

Please note that K.S.A. 82a-708b(a) of the Kansas Water Appropriation Act states in part:

"(a) Any owner of a water right may change the place of use, the point of diversion or the use made of water, without losing priority of right, provided such owner shall: ... (3) demonstrate to the chief engineer that any proposed change relates to the same local source of supply as that to which the water right relates ..."

Your application proposes to drill a new well to a depth of 441 feet below land surface, while the currently authorized well is drilled to a depth of 365 feet. The location of both the existing and proposed wells is located in a mapped area that is shown to be confined Dakota formation as indicated by Kansas Geological Survey Open File Report 98-37 Plate A.

In support of the application several well logs and a geophysical log were submitted to show that the source of supply for the proposed well would be not only the Ogallala formation, but the unconfined Dakota formation. At the request of this office the well log for the existing well, two well logs for the proposed well and the geophysical log were submitted to the Kansas Geological Survey for their review and recommendation for the formations logged. In an email dated March 6, 2018, Dr. Don Whittemore, P.H.D., Senior Scientific Fellow, Environmental Geochemistry, Emeritus, presented a report that indicates the Dakota formation in this area is confined. Dr. Whittemore finds that the logs for the proposed well indicate that the Graneros Shale is encountered somewhere below the top of the 310-323 foot interval, while the bottom of the Graneros or top of the Dakota is probably around 378 feet below land surface. This indicates there is approximately 60 to 70 feet of Graneros Shale confining the Dakota formation.

Since it is proposed that the new well be drilled to a depth of 441 feet, it would appropriate water from the confined Dakota formation in violation of K.S.A. 82a-708b(a).

SCANNED

Jeff and Jenifer Jantz
File No. 18,595
Page No. 2

For the reason given above, it will be recommended to the Chief Engineer that the Application for Approval to Change the Authorized Point of Diversion under Water Right, File No. 18,595, be denied and dismissed because the proposed well location does not relate to the same local source of supply as to that which the water right relates, in violation of K.S.A. 82a-708b(a).


We are advising you of this recommendation in order to allow you to submit additional information to show why the evaluation should be reconsidered. You have a period of **15 days (until March 23, 2018)** to either (1) submit additional information to our office or (2) to request additional time beyond the 15 days to submit additional information. If you wish to request additional time, you must do so in writing, before the 15 day period expires. Such a request should state what steps are being taken to obtain the information and the amount of time you will need to supply the information to our office.

If you do not request more time within the 15 day period, or if your request is not granted, the above-referenced application will be submitted to the Chief Engineer with a recommendation to deny the point of diversion change for File No. 18,595 based on the recommendation stated above. If you do submit additional information within the 15 day period (or any authorized extension), that information will be given due consideration prior to final action on the application.

If you plan to go to the Division of Water Resources Field Office in your area for assistance, please take this letter with you.

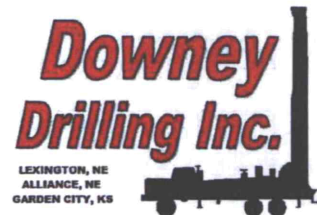
If you have any questions, please contact me at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that I may help you more efficiently.

Sincerely,


Brent A. Turney, P.G.
Change Application Unit Supervisor
Water Appropriation Program

BAT
Enclosures

pc: Garden City Field Office
GMD No. 3



PO Box 278
Lexington, NE 68850
PHONE: 308-324-2303
FAX: 308-324-4825

March 19, 2018

Brent A. Turney, P.G.
Kansas Department of Agriculture
1320 Research Park Drive
Manhattan, KS 66502

RE: JEFF AND JENNIFER JANTZ
28705 9 RD
MONTEZUMA, KS 67867

Water Right File No. 18,595

Dear Mr. Turney,

I am contacting you on behalf of Jeff and Jennifer Jantz, in response to your letter dated March 7, 2018. Mr. and Mrs. Jantz request that you and your department reconsider the evaluation of the application for a replacement irrigation well to a depth of 441 feet for the following reasons:

1. The geophysical log, in addition to the test hole log, by our firm indicates that there is not a continuous confining layer of Graneros Shale of 60 to 70 feet. My interpretation is that there may be a clay/shale layer at approximately 364 feet to 370 feet, and from 381 feet to 385 feet. I have included an attachment with the geophysical log and notations in these areas. Both the gamma and resistivity curves support my interpretation. While these zones may certainly be Graneros Shale, the geophysical log, in my opinion, does not support, or show, a "60 to 70 foot" layer confining the Dakota Formation.
2. I have attached the "WATER RIGHT INFORMATION REPORT FOR: 18595 00". This report indicates the following:

PAGE 1:

- A. PRIORITY DATE: 23-NOV-1971
- B. CERTIFICATE ISSUED DATE: 17-AUG-1982

PAGE 2:

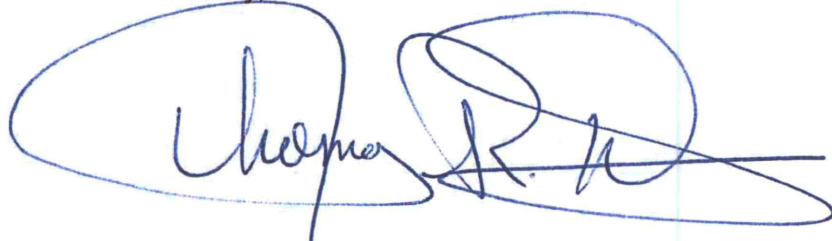
- A. AUTHORIZED POINT(S) OF DIVERSION
Section 26, T27, R 30W
QUALIFIERS: SE SE NE
- B. AQUIFER(S):
> DAKOTA FORMATION

If I am interpreting this correctly, this Appropriation which has a Priority Date of November 23, 1971, has been, and currently is, authorized in the Dakota Aquifer. Please confirm.

Mr. Brent A. Turney, P.G.
File No. 18,595

We, Mr. and Mrs. Jantz, and I (as a Ground Water Professional with nearly 40 years' experience), do hereby ask that you and your department reconsider your recommendation, and allow the replacement irrigation well to be constructed as proposed.

Sincerely,



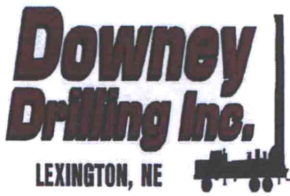
Thomas R. Downey, CWD/PI
President / CEO
Downey Drilling, Inc.

Kansas License #948
Nebraska License #39250
Oklahoma License #DPC-0954
Texas License #59991
Colorado License #1319
Wyoming License #NEWDP1107
South Dakota License #790
Iowa License #9140

pc: Thom Makens – KS DWR Garden City Field Office
Chris Law – GWD No. 3
Jeff and Jennifer Jantz

WELL LOG

DATE: 1/31/2018



CUSTOMER NAME: JEFF JANTZ

LEGAL: NE 26-27S-30W

TEST HOLE #1

COUNTY: GRAY

GPS: 37 40' 29.4" N

-100 33' 57.6" W

DRILLER: RYAN

WO#: 18-036

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL	SOFT	BLACK	FAST	NO	SMOOTH
	2	78	SILTY SANDY CLAY AND VERY FINE SAND	SOFT	BROWN	FAST	NO	SMOOTH
X	78	110	FINE-MEDIUM-COARSE SAND AND FINE-TRACE OF MEDIUM GRAVEL	SOFT	RED / TAN	FAST	NO	CHATTER
	110	113	CLAY AND SILT LAYER	SOFT	BROWN	FAST	NO	SMOOTH
X	113	141	FINE-MEDIUM-COARSE SAND AND FINE GRAVEL	SOFT	RED	FAST	NO	CHATTER
X	141	167	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM-TRACE OF COARSE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	167	175	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
X	175	177	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST	NO	CHATTER
	177	180	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
	180	201	CLAY, MAG LAYERS, AND VERY FINE-FINE SAND	FIRM	TAN / WHITE	SLOW	NO	CHOPPY AT TIMES
	201	208	CLAY AND FINE-TRACE OF MEDIUM SAND	SOFT	BROWN	SLOW	NO	SMOOTH
	208	211	FINE-MEDIUM SAND AND CLAY	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	211	230	FINE-MEDIUM SAND, TRACE OF SANDSTONE, AND SANDY CLAY	SOFT	BROWN / TAN	FAST	NO	SLIGHT CHATTER
	230	245	FINE-MEDIUM SAND AND SANDY CLAY STRINGERS <i>Est. 240' SWH</i>	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	245	252	SANDY CLAY AND FINE-TRACE OF MEDIUM SAND LAYERS	SOFT	TAN	SLOW	NO	SMOOTH
X	252	261	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	261	270	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
X	270	275	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	275	285	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	285	294	FINE-MEDIUM SAND AND SANDY CLAY	SOFT	TAN	FAST	NO	IN & OUT CHATTER
X	294	310	FINE-MEDIUM-COARSE SAND AND VERY FINE-FINE GRAVEL	SOFT	TAN	FAST	NO	CHATTER
	310	323	GOLD SILTY CLAY, SILTSTONE, LIMESTONE LEDGES, AND VERY FINE SAND	FIRM	GOLD / BLACK	SLOW	NO	CHOPPY AT TIMES
X	323	330	GOLD SILTY CLAY, BROWN ROCK, AND VERY FINE-FINE SAND	SOFT	GOLD / BROWN	SLOW	NO	CHATTER
	330	341	VERY FINE-FINE SAND AND GRAY CLAY	SOFT	GRAY	FAST	NO	CHATTER
	341	370	FINE-TRACE OF MEDIUM SAND AND GRAY LENSE	SOFT	GRAY	FAST	NO	CHATTER
	370	372	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	372	378	VERY FINE-FINE SAND, LIMESTONE, W/CLAY LAYERS	HARD	GRAY / BLACK	SLOW	X	CHOPPY
X	378	385	FINE-MEDIUM SAND	SOFT	GRAY	FAST	NO	CHATTER
	385	401	GRAY CLAY, VERY FINE-FINE SAND LAYERS, AND ORANGE BROWN SILT	FIRM	GRAY / BROWN	SLOW	NO	CHOPPY AT TIMES
X	401	405	FINE-MEDIUM SAND LAYERS	SOFT	GRAY	FAST	NO	CHATTER
	405	415	FINE-TR. MEDIUM SAND	SOFT	GRAY/TAN	SLOW	NO	IN & OUT CHATTER
X	415	418	FINE-MEDIUM SAND, TR. SANDSTONE	SOFT	GRAY	FAST	NO	CHOPPY
	418	419	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	419	426	FINE SAND	SOFT	GRAY	FAST	NO	SLIGHT CHATTER
	426	428	LIMESTONE	HARD	GRAY	SLOW	X	CHOPPY



Century GEOPHYSICAL CORP.

JEFF JANTZ

COMPANY : DOWNEY DRILLING INC.
WELL : JEFF JANTZ
LOCATION/FIELD :
COUNTY : GRAY
LOCATION : NE
SECTION : **- 26**

#1

OTHER SERVICES:

TOWNSHIP : 27S RANGE : 30W

DATE : 01/31/18
DEPTH DRILLER : 441
LOG BOTTOM : 441.10
LOG TOP : 0.40

PERMANENT DATUM : GL

KB :
DF :
GL :

LOG MEASURED FROM: GL
DRL MEASURED FROM: GL

CASING DIAMETER : 10.
CASING TYPE :
CASING THICKNESS:

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

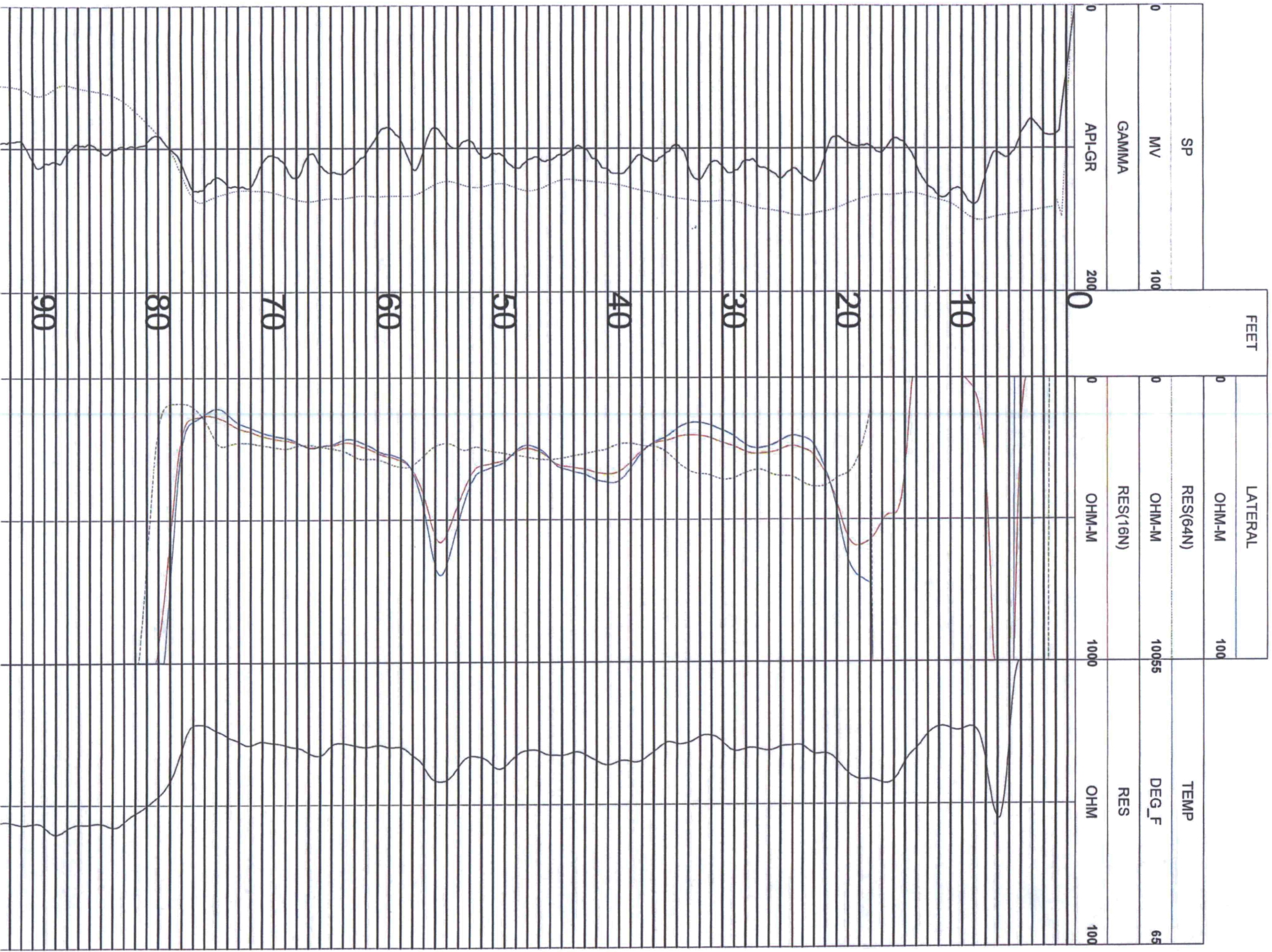
BIT SIZE : 6.50
MAGNETIC DECL. : 0
MATRIX DENSITY : 2.71
NEUTRON MATRIX : LIMESTONE

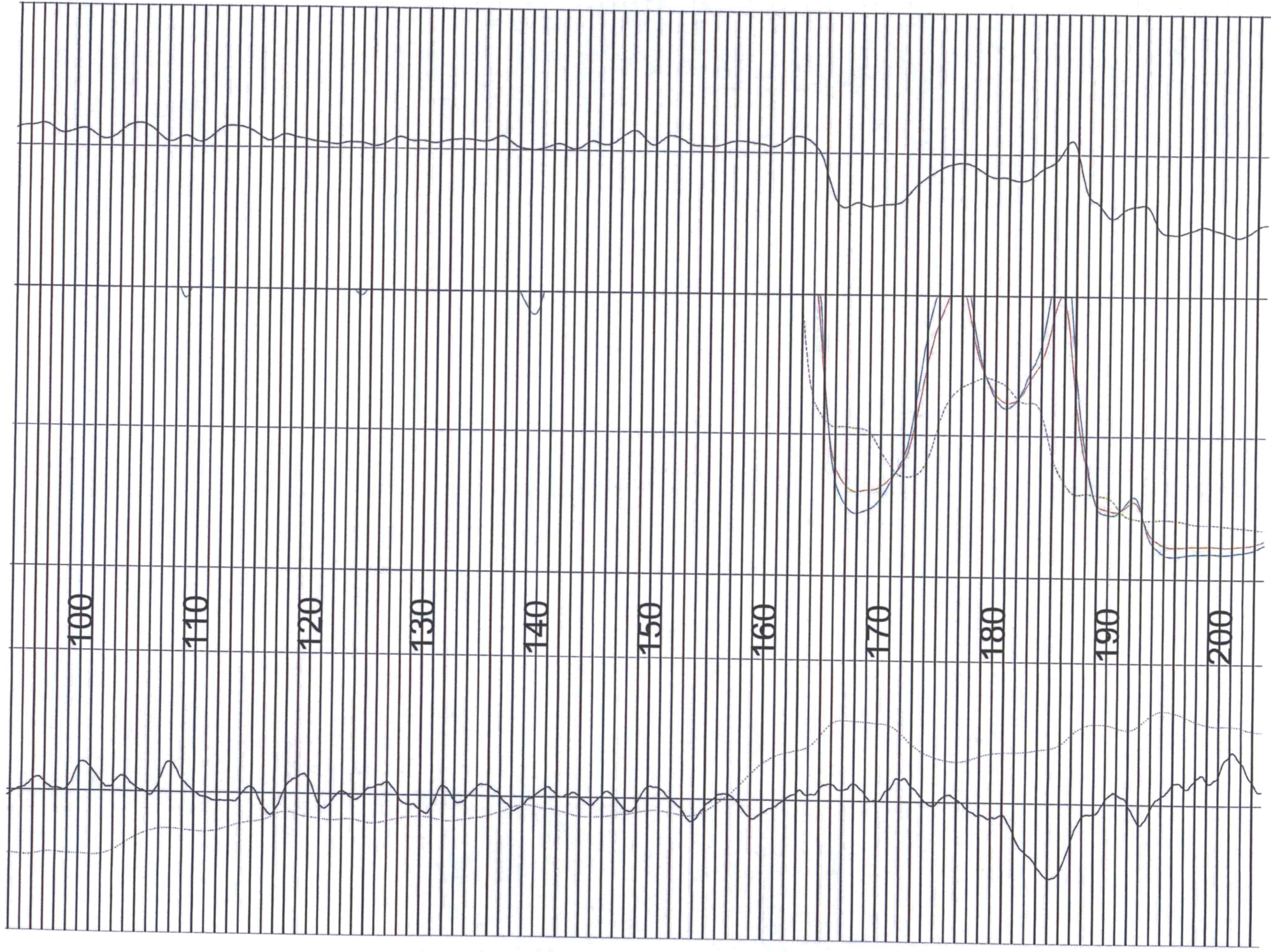
BOREHOLE FLUID : MUD
RM :
RM TEMPERATURE :
MATRIX DELTA T : 49

FILE : ORIGINAL
TYPE : 9057A
LGDATE: 01/31/18
LGTIME : 12:50:
THRESH: 99999

N 37-40-29.4
W-100-33-57.6

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS





100

110

120

130

140

150

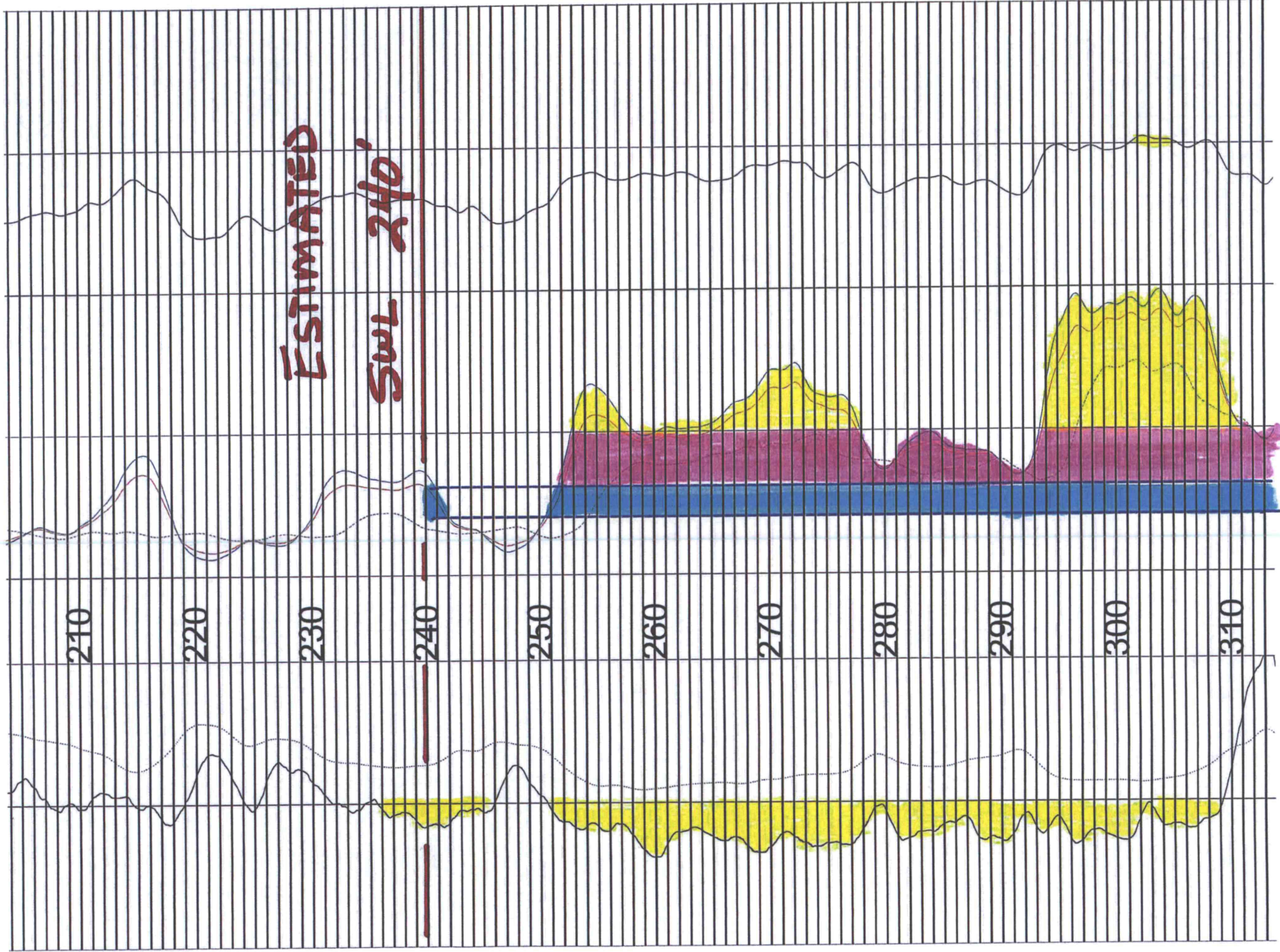
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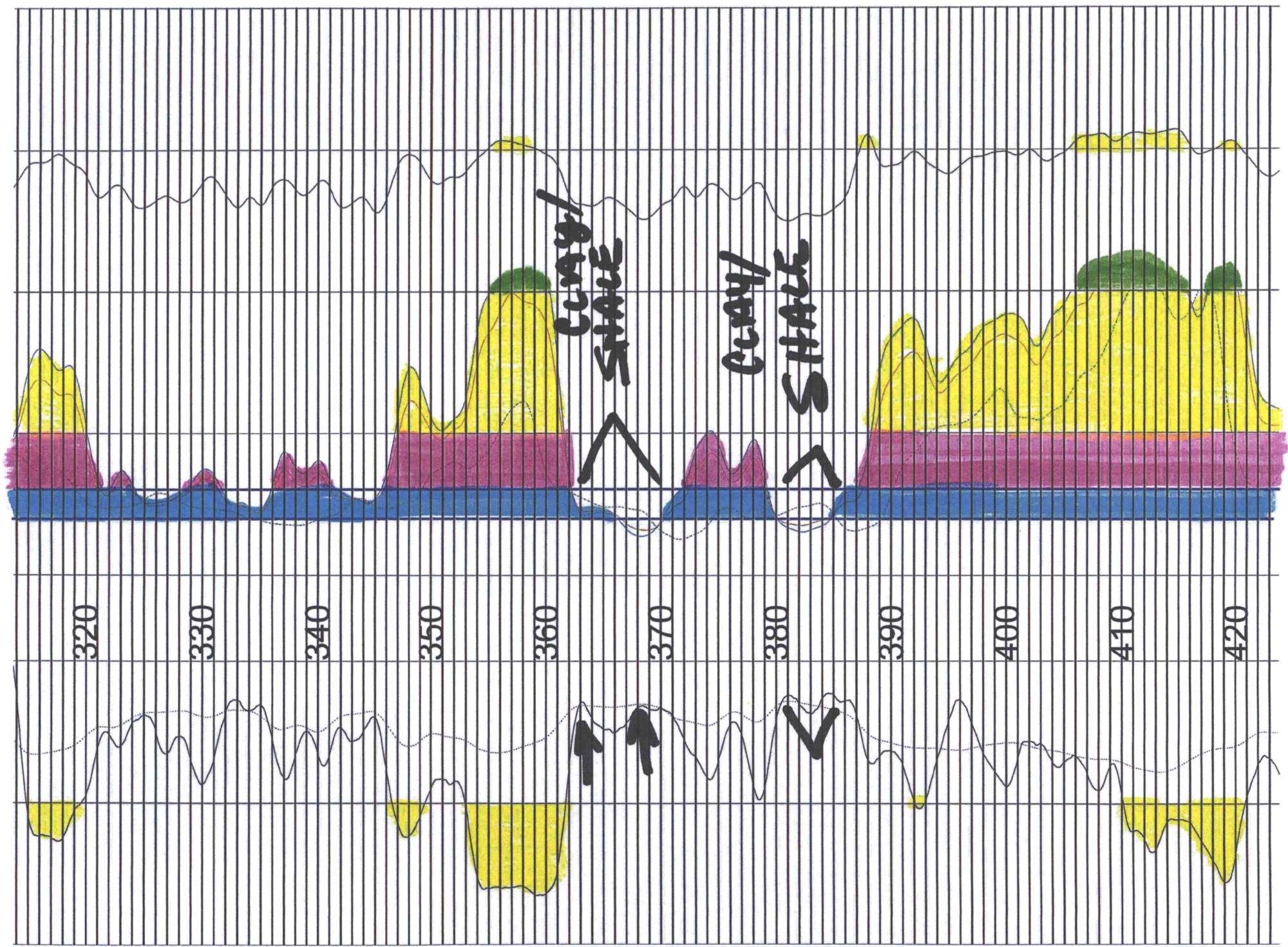
170

180

190

200







0	API-GR	200	0	OHM-M	1000	OHM	100
	GAMMA			RES(16N)		RES	
0	MV	100	0	OHM-M	10055	DEG_F	65
	SP			RES(64N)		TEMP	
			0	OHM-M	100		
				LATERAL			

FEET

2

TOOL CALIBRATION JEFF JANTZ 01/31/18 12:50
 TOOL 9057A TM VERSION 4
 SERIAL NUMBER 4607

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jun28,13	07:29:49	GAMMA	1.000	[API-GR]	0.000	[CPS]
	Jun28,13	07:29:49	GAMMA	340.000	[API-GR]	310.000	[CPS]
2	Jun28,13	08:56:32	NEUTRON	Default	[CPS]	Default	[CPS]
	Jun28,13	08:56:32	NEUTRON	271.000	[API-N]	45.000	[CPS]
3	Jun28,13	07:27:57	SP	0.000	[MV]	320998.000	[CPS]
	Jun28,13	07:27:57	SP	331.000	[MV]	158565.000	[CPS]
4	Jan25,18	13:28:44	RES(16N)	0.000	[OHM-M]	3930.000	[CPS]
	Jan25,18	13:28:44	RES(16N)	1955.000	[OHM-M]	431300.000	[CPS]
5	Jan25,18	13:28:30	RES(64N)	0.000	[OHM-M]	3470.000	[CPS]
	Jan25,18	13:28:30	RES(64N)	1988.000	[OHM-M]	432139.000	[CPS]
6	Jun28,13	08:48:59	TEMP	40.800	[DEG_F]	336359.000	[CPS]
	Jun28,13	08:48:59	TEMP	106.100	[DEG_F]	380231.000	[CPS]
7	Jan25,18	13:28:58	RES	0.000	[OHM]	4315.000	[CPS]
	Jan25,18	13:28:58	RES	945.000	[OHM]	163825.000	[CPS]
8	Jun28,13	08:57:34	POR(NEU)	100.000	[PERCENT]	45.000	[CPS]

WATER RIGHT INFORMATION REPORT FOR : 18595 00

RIGHT TYPE: Appropriation

SOURCE: Groundwater USE: IRR

CURRENT STATUS: Certificate Issued

PRIORITY DATE: 23-NOV-71

CURRENT COMPLETE BY DATE: 31-DEC-73

COMPLETION ACKNOWLEDGED DATE: 29-JAN-73

CURRENT PERFECT BY DATE: 31-DEC-77

YEAR PERFECTED:

CERTIFICATE ISSUED DATE: 17-AUG-82

.....

APPLICANT(S):

> DAVID JOHN KOEHN 23706 6 RD MONTEZUMA KS 67867

> PERSON ID (Old Address Code): 9671

> CORRESPONDENT SEQUENCE NUMBER: 1

>-----

.....

WATER USE CORRESPONDENT(S):

> JEFF & JENNIFER JANTZ 28705 9 RD MONTEZUMA KS 67867

> PERSON ID (Old Address Code): 61833

> CORRESPONDENT SEQUENCE NUMBER: 1

>-----

.....

ACTION TRAIL:

- 23-NOV-71 Pending Initial Review
- 29-SEP-72 Approved Pending Completion N+P BY 31-DEC-73 PERF BY 31-DEC-77
- 29-JAN-73 Completed Pending Inspection
- 24-AUG-81 Inspected Pending Perfection
- 16-SEP-81 Proposed Certificate
- 17-AUG-82 Certificate Issued
- 02-JUL-91 Change Application For Point Of Diversion
- 02-JUL-91 Change Approved
- 02-JUL-91 N&P By12/31/92 Chg Approval
- 02-JUL-91 Tested-1981-908gpm 26-27-30w 01
- 06-JUL-92 N&P 10-91 (Chg)
- 30-APR-93 Compliance Check/In Comp
- 20-SEP-12 Landowner Chg - John C Abel
- 20-SEP-12 Wur From David John Koehn To John C Abel
- 31-JUL-14 Wur From John A Abel To Travis & Brooke Jantz
- 22-MAR-16 Compliance Check/In Comp Id 2
- 02-AUG-16 C1 Fo Change App Pu Filed
- 10-AUG-16 C1 Fo Change Pu Approved
- 10-AUG-16 Landowner Chg - Jeff & Jennifer Jantz
- 10-AUG-16 Wur From Travis & Brooke Jantz To Jeff & Jennifer Jantz

.....

CONSERVATION CONTRACT ACTION TRAIL:

.....

CONSERVATION PLAN ACTION TRAIL:

.....

SPECIAL CONDITIONS:

.....

QUANTITIES:

76 1

>AUTHORIZED 293.000 AF ADDITIONAL 293.000 AF

::::::::::::::::::

RATES:

>AUTHORIZED 910.000 gpm ADDITIONAL 910.000 gpm

::::::::::::::::::

LIMITATIONS: None

::::::::::::::::::

STORAGE QUANTITIES: No active storage quantities associated with IRR use under this water right

STORAGE RATES: No active storage rates associated with IRR use under this water right

::::::::::::::::::

AUTHORIZED POINTS(S) OF DIVERSION

Section 26, T 27, R 30W, ID 2 (Internal PDIV_ID = 9596)

QUALIFIERS: SE SE NE

DIST. FROM SE CORNER: 2850 ft North 340 ft West

NUMBER OF WELLS: 1

COMMENT: 150'N & 190'W ORIG WELL

OLD LONGITUDE: 100.562235 OLD LATITUDE: 37.675294

NEW LONGITUDE: 100.562027 NEW LATITUDE: 37.671927

GPS LONGITUDE: 100.562100 GPS LATITUDE: 37.672180

GPS FEET NORTH: 2945 GPS FEET WEST: 361

COUNTY: GRAY

FIELD OFFICE: GARDEN CITY FIELD OFFICE

GMD : 3

BASIN: ARKANSAS RIVER

STREAM:

SPECIAL_USE_AREA(S):

AQUIFER(S):

> DAKOTA FORMATION

TEST INFORMATION:

METER ACTION TRAIL:

> 02-JUL-91 Meter Required BY Change Point of Diversion Install by: 31-DEC-92

> 06-JUL-92 Meter Reported Installed

> 11-NOV-92 Meter Required GWMD Order Install by: 01-JUL-94

> 30-APR-93 In Compliance - Meter

METER INFORMATION:

Date Installed : Currently Installed? Y

> Manufacturer: MCCROMETER Model: MO310-2300

> Type: Propellor Serial No.: 91-10-1256N

> Meter Unit: Gallons Meter Size: 14 Inch Multiplier: 000

> Portable Pump Installation? N Multiple PDs? N Straightening Vanes? N

> Measuring Chamber? Y Meter Comment: 3-22-16 CMP CK, MTR SZ 10.75/10.374,GMD #2371

METER INFORMATION:

Date Installed : Currently Installed? N

> Manufacturer: MCCROMETER Model: MO310-2300

> Type: Not Available Serial No.: 91101256N

> Meter Unit: N/A Meter Size: N/A Multiplier: 0

> Portable Pump Installation? N Multiple PDs? N Straightening Vanes? N

> Measuring Chamber? Meter Comment:

OVERLAPS:

::::::::::::::::::

AUTHORIZED PLACE(S) OF USE

762

Section 26, T 27, R 30W, ID 2 (Internal PUSE_ID = 8258)

OWNER: JEFF & JENNIFER JANTZ

Address:

** 28705 9 RD

** MONTEZUMA KS 67867

Total acres authorized = 160.00 Acres

NE				NW				SW				SE			
NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
40.00	40.00	40.00	40.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COMMENT:

OVERLAPS:

> A 25196 D1 IRR

Section 25, T 27, R 30W, ID 1 (Internal PUSE_ID = 2463)

OWNER: JEFF & JENNIFER JANTZ

Address:

** 28705 9 RD

** MONTEZUMA KS 67867

Total acres authorized = 160.00 Acres

NE				NW				SW				SE			
NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
.00	.00	.00	.00	40.00	40.00	40.00	40.00	.00	.00	.00	.00	.00	.00	.00	.00

COMMENT:

OVERLAPS:

> A 25196 D1 IRR

::::::::::::::::::

WATER USE INFORMATION:

Year	Qualifiers	SC	ID	Date Rcvd	Hours	GPM	Acre-feet	Code	Ac_Irr	Date Msrd	Wtr_Dp	Well_Dp	Reel	Blip
2017	2850N	340W	26	2		N/A			N/A	N/A				
2016	2850N	340W	26	2 13-FEB-17		400	159.3	M	125		N/A	N/A	96	3658
2015	2850N	340W	26	2 04-FEB-16		38.9		M	120		N/A	N/A	92	2746
2014	2850N	340W	26	2 27-FEB-15		177.0		M	120		N/A	N/A	89	233
2013	2850N	340W	26	2 10-MAR-14		241.1		M	167		N/A	N/A	84	2669
2012	2850N	340W	26	2 29-APR-13		187.0		M	120		N/A	N/A	80	1962
2011	2850N	340W	26	2 24-FEB-12		500	253.8	M	121		N/A	N/A	73	528
2010	2850N	340W	26	2 24-FEB-11		500	195.2	M	150		N/A	N/A	67	427
2009	2850N	340W	26	2 08-FEB-10		550	240.1	M	121		N/A	N/A	60	494
2008	2850N	340W	26	2 27-FEB-09		600	222.5	M	121		N/A	N/A	55	2005
2007	2850N	340W	26	2 22-FEB-08		600	194.6	M	149		N/A	N/A	48	2463
2006	2850N	340W	26	2 26-FEB-07		180.0		M	121		N/A	N/A	42	2681
2005	2850N	340W	26	2 27-FEB-06		195.3		M	121		N/A	N/A	37	1152
2004	2850N	340W	26	2 02-MAR-05		239.3		M	121		N/A	N/A	32	436
2003	2850N	340W	26	2 01-MAR-04		174.7		M	121		N/A	N/A	25	2152
2002	2850N	340W	26	2 03-MAR-03		600	231.8	M	121		N/A	N/A	20	493
2001	2850N	340W	26	2 01-MAR-02		600	172.1	M	121		N/A		335	14 745
2000	2850N	340W	26	2 02-MAR-01		235.6		M	122		N/A		335	8 512
1999	2850N	340W	26	2 28-FEB-00		180.4		M	120		N/A		335	3 1226
1998	2850N	340W	26	2 24-FEB-99		600	212.7	M	120		N/A		335	94 159
1997	2850N	340W	26	2 02-MAR-98		187.0		M	120		N/A		335	88 3188
1996	2850N	340W	26	2 03-MAR-97	1491	600	164.7	G	120		N/A		335	82 3071
1995	2850N	340W	26	2 29-FEB-96	1714	600	189.4	G	120		N/A		335	76 2546

1994	2850N	340W 26	2	03-APR-95	1830	600	202.2	G	126	N/A	335	72	2054
1993	2850N	340W 26	2	01-MAR-94	1464	625	168.5	8	125	01-FEB-94	153	335	65 3143
1992	2850N	340W 26	2	01-MAR-93	1571	600	173.6	G	120	N/A	335	59	3191
1991	2850N	340W 26	2	02-MAR-92	1860	600	205.5	G	120	01-FEB-92	151	335	54 582
1990	2700N	150W 26	1	04-MAR-91	2115	600	233.7	G	120	01-FEB-91	147	345	47 2821
1989	2700N	150W 26	1	02-MAR-90	1825	650	218.4	G	120	01-FEB-90	144	345	41 2654
1988	2700N	150W 26	1		2328	600	257.2	G	130	24-FEB-89	142	345	36 3747
1987	2700N	150W 26	1		1687	650	201.9	G	106	N/A	345	37	425
1986	2700N	150W 26	1		2052	700	264.5	G	116	N/A	N/A	37	706
1985	2700N	150W 26	1		2160	700	278.4	G	120	N/A	N/A	37	706
1984	2700N	150W 26	1		1837	750	253.7	G	130	N/A	N/A	37	706
1983	2700N	150W 26	1		1280	750	176.8	G	130	N/A	N/A	37	706
1982	2700N	150W 26	1		1565	750	216.1	G	130	N/A	N/A	37	706
1981	2700N	150W 26	1		1317	750	181.9	G	130	N/A	345	37	706
1980	2700N	150W 26	1		1548	800	228.0	G	130	06-FEB-81	118	389	99 9999
1979	2700N	150W 26	1		1428	800	210.4	G	130	28-FEB-80	115	389	99 9999
1978	2700N	150W 26	1		1342	800	197.7	G	130	06-FEB-79	110	389	99 9999
1977	2700N	150W 26	1		1268	800	186.8	G	130	23-FEB-78	105	389	99 9999
1976	2700N	150W 26	1		2384	800	351.2	G	130	31-JAN-77	102	380	99 9999
1975	2700N	150W 26	1		2255	800	332.2	G	130	19-DEC-75	100	380	99 9999
1974	2700N	150W 26	1		1030	1800	341.4	G	160	24-JAN-75	98	380	99 9999
1973	2700N	150W 26	1		953	1800	315.9	G	130	24-JAN-74	97	380	99 9999
1972	2700N	150W 26	1		713	1800	236.3	G	122	17-JAN-73	97	340	99 9999

PG 4

Turney, Brent [KDA]

From: Don Whittemore <donwhitt@kgs.ku.edu>
Sent: Tuesday, March 6, 2018 3:28 PM
To: Brownie Wilson
Cc: Turney, Brent [KDA]; Letourneau, Lane [KDA]; Meyer, Mike [KDA]
Subject: Re: Fwd: Confined Dakota?

Brownie,

The information provided suggests to me that about 50-60 ft of Graneros Shale confines the Dakota aquifer at the well location.

The depth to the top of the Dakota based on Macfarlane's map and the surface elevation of the site is around 410-420 ft below land surface (surface elevation 2790; Macfarlane top of Dakota less than 2400, somewhere around 2370-2380). One has to use the best estimate of the top of the Dakota and where the Dakota is confined. This map that Macfarlane and others created in 1998 should be the best existing to determine that information in the GMD3 area. The map is a little different from the KGS Open-File 93-1 series of maps of the Dakota and other Cretaceous strata along the area of the unconfined Dakota and confined Dakota boundary. I know that Allen worked to refine the information in the area of the boundary for the 1998 map. The following interpretation of the well logs for the 27S-30W-Sec. 26 location is based on assuming that the KGS OFR 98-37 map is correct.

The 1991 well has a depth to the Cretaceous (Graneros) of about 333 ft below land surface (the top of the interval of hard yellow gray clay that probably represents the top of the weathered Graneros), which is underlain by blue shale at the bottom of the drill hole.

The 2018 well logs are the same except a change from the word "shale" to "clay" in the 330-370 ft interval. It really doesn't matter much whether it is called shale or clay, it still is Graneros Shale that may be partially weathered such that it is soft for drilling.

The depth to the Cretaceous based on the 2018 well log is at about 315 ft depth (somewhere below the top of the 310-323 interval). Note that the color is gold/black: the gold color (or recorded as yellow by other drillers) is caused the weathering of pyrite in the shale to yellow to yellow-brown ferric oxyhydroxides; the black color is an indicator of the black shale in parts of the Graneros.

The bottom of the Graneros/top of the Dakota is probably around 378 ft: the 372-378 interval includes some hard, black shale that is probably Graneros. This depth is not too different from that of 410-420 ft estimated from the Macfarlane et al. 1998 map.

That's my interpretation.

Don

On 3/6/2018 10:08 AM, Brownie Wilson wrote:

Hi Don,

Any insight on this well? It is right on the edge of the confined Dakota and as Brent says- right, wrong, or indifferent, the log was modified to remove any mention of shale right above the sandstone layers.

Thanks,

Brownie

----- Forwarded Message -----

Subject: Confined Dakota?

Date: Tue, 6 Mar 2018 14:33:10 +0000

From: Turney, Brent [KDA] <Brent.Turney@ks.gov>

To: bwilson@kgs.ku.edu <bwilson@kgs.ku.edu>

CC: Letourneau, Lane [KDA] <Lane.Letourneau@ks.gov>, Meyer, Mike [KDA] <Mike.Meyer@ks.gov>

Brownie,

We need the advice of an expert and are hoping that you could direct this email to the appropriate person. We are currently working an application for change in point of diversion and would like to know if the proposed well will be located in the confined or unconfined Dakota formation. The proposed well is located in Northeast Quarter of Section 26, Township 27 South, Range 30 West, Gray County and is located within the boundaries of GMD NO. 3. GMD No. 3 rules have adopted KGS Open File Report 98- 37 Plate A, by reference to determine if a well is in the confined Dakota. Other information site specific data maybe used in place of the map to determine the extent of the confined Dakota, if available. A copy of a portion of Plate A has been attached for reference as well as other site specific data submitted by the well driller.

You will also find attached the following:

1. Log of the current well
2. Log identified as #1 NE 26 (This was the first log filed with the application) (note 330' - 370')
3. Log identified as #2 NE 26 (This is Log #1, that was later modified by the driller starting at a depth of 330 feet) (Note 330'- 370')
4. Geophysical log of test hole #1 and #2

Log #1 and Log #2 are the same log, however, Log #2 was modified by the well driller at a later date, starting at a depth of 330 feet so that it would appear that there is not a substantial shale layer in the log. If any of the logs are determined to be confined Dakota that is enough information to make our decision.

Any assistance you can provide would be greatly appreciated, and please don't hesitate to contact me if you have any questions. Looking forward to KRWA in a few weeks, see you there.

Thanks,
Brent

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

The Professionals

MINTER-WILSON DRILLING CO.

INCORPORATED

Division of
and Domestic
Water Systems
Complete Installation
and Repairing

Phone 276-8269 • P.O. Box A • GARDEN CITY, KANSAS 67840

David J. Koehn
Gray County
06/28/91

Location: NE $\frac{1}{4}$ 26-27-30 TV 13-6 East, 1 $\frac{1}{2}$ North, west side
of road - 290' Northwest of old well

Static Water Level - 159'

Test #1

0	5	Top soil
5	10	Brown sandy clay
10	25	Brown clay
25	38	Fine sand
38	62	Brown sandy clay
62	66	Fine sand
66	88	Brown sandy clay
88	95	Fine to medium sand gravel loose
95	174	Coarse gravel loose
174	187	Brown sandy clay
187	219	Brown sandy clay white rock mixed
219	241	Brown sandy clay white rock mixed small streak sand
241	247	Brown sandy clay
247	269	Brown clay
269	292	Fine sand loose
292	305	Brown clay
305	321	Medium coarse gravel yellow rock mixed loose
231	333	Yellow clay hard
333	352	Yellow gray clay hard
352	365	Blue shale hard pull down



RECEIVED

JUL 02 1991

Division of Water Resources
GARDEN CITY

LOG OF CURRENT WELL



WELL LOG

DATE: 1/31/2018



1
NE 26

CUSTOMER NAME: JEFF JANITZ

LEGAL: NE 26-275-30W

COUNTY: GRAY

GPS: 37 40' 29.4" N

-100 33' 57.6" W

DRILLER: RYAN

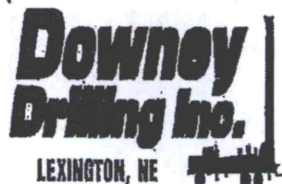
WO#: 18-036

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL	SOFT	BLACK	FAST	NO	SMOOTH
	2	78	SILTY SANDY CLAY AND VERY FINE SAND	SOFT	BROWN	FAST	NO	SMOOTH
X	78	110	FINE-MEDIUM-COARSE SAND AND FINE-TRACE OF MEDIUM GRAVEL	SOFT	RED / TAN	FAST	NO	CHATTER
	110	113	CLAY AND SILT LAYER	SOFT	BROWN	FAST	NO	SMOOTH
X	113	141	FINE-MEDIUM-COARSE SAND AND FINE GRAVEL	SOFT	RED	FAST	NO	CHATTER
X	141	167	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM-TRACE OF COARSE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	167	175	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
X	175	177	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST	NO	CHATTER
	177	180	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
	180	201	CLAY, MAG LAYERS, AND VERY FINE-FINE SAND	FIRM	TAN / WHITE	SLOW	NO	CHOPPY AT TIMES
	201	208	CLAY AND FINE-TRACE OF MEDIUM SAND	SOFT	BROWN	SLOW	NO	SMOOTH
	208	211	FINE-MEDIUM SAND AND CLAY	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	211	230	FINE-MEDIUM SAND, TRACE OF SANDSTONE, AND SANDY CLAY	SOFT	BROWN / TAN	FAST	NO	SLIGHT CHATTER
	230	245	FINE-MEDIUM SAND AND SANDY CLAY STRINGERS	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	245	252	SANDY CLAY AND FINE-TRACE OF MEDIUM SAND LAYERS	SOFT	TAN	SLOW	NO	SMOOTH
X	252	261	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	261	270	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
X	270	275	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	275	285	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	285	294	FINE-MEDIUM SAND AND SANDY CLAY	SOFT	TAN	FAST	NO	IN & OUT CHATTER
X	294	310	FINE-MEDIUM-COARSE SAND AND VERY FINE-FINE GRAVEL	SOFT	TAN	FAST	NO	CHATTER
	310	323	GOLD SILTY CLAY, SILTSTONE, LIMESTONE LEDGES, AND VERY FINE SAND	FIRM	GOLD / BLACK	SLOW	NO	CHOPPY AT TIMES
X	323	330	GOLD SILTY CLAY, BROWN ROCK, AND VERY FINE-FINE SAND	SOFT	GOLD / BROWN	SLOW	NO	CHATTER
	330	341	VERY FINE-FINE SAND AND GRAY SHALE	SOFT	GRAY	FAST	NO	CHATTER
	341	370	FINE-TRACE OF MEDIUM SAND AND GRAY SHALE	SOFT	GRAY	FAST	NO	CHATTER
	370	372	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	372	378	VERY FINE-FINE SAND, LIMESTONE, AND SHALE LAYERS	HARD	GRAY / BLACK	SLOW	X	CHOPPY
X	378	385	FINE-MEDIUM SAND	SOFT	GRAY	FAST	NO	CHATTER
	385	401	GRAY SHALE, VERY FINE-FINE SAND LAYERS, AND ORANGE BROWN SILT	FIRM	GRAY / BROWN	SLOW	NO	CHOPPY AT TIMES
X	401	405	FINE-MEDIUM SAND LAYERS	SOFT	GRAY	FAST	NO	CHATTER
	405	416	GRAY SHALE, ORANGE BROWN SILT, AND FINE-TRACE OF MEDIUM SAND LAYERS	SOFT	GRAY / BROWN	SLOW	NO	IN & OUT CHATTER
X	416	418	FINE-MEDIUM SAND LAYERS, SANDSTONE TRACES, AND GOLD ORANGE SILT	SOFT	GRAY	FAST	NO	CHOPPY
	418	420	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	420	426	DARK GRAY SHALE AND VERY FINE SAND LAYERS	SOFT	DARK GRAY	FAST	NO	SLIGHT CHATTER
	426	428	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY

18595

WELL LOG

DATE: 1/31/2018



RECEIVED

CUSTOMER NAME: JEFF JANTZ

FEB 13 2018

LEGAL: NE 26-27S-30W

TEST HOLE #1

COUNTY: GRAY

Garden City Field Office
Division of Water Resources

GPS: 37 40' 29.4" N

-100 33' 57.6" W

DRILLER: RYAN

WO#: 18-036

#2
SAME HOLE AS #1 NE 26

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL	SOFT	BLACK	FAST	NO	SMOOTH
	2	78	SILTY SANDY CLAY AND VERY FINE SAND	SOFT	BROWN	FAST	NO	SMOOTH
X	78	110	FINE-MEDIUM-COARSE SAND AND FINE-TRACE OF MEDIUM GRAVEL	SOFT	RED / TAN	FAST	NO	CHATTER
	110	113	CLAY AND SILT LAYER	SOFT	BROWN	FAST	NO	SMOOTH
X	113	141	FINE-MEDIUM-COARSE SAND AND FINE GRAVEL	SOFT	RED	FAST	NO	CHATTER
X	141	167	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM-TRACE OF COARSE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	167	175	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
X	175	177	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST	NO	CHATTER
	177	180	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
	180	201	CLAY, MAG LAYERS, AND VERY FINE-FINE SAND	FIRM	TAN / WHITE	SLOW	NO	CHOPPY AT TIMES
	201	208	CLAY AND FINE-TRACE OF MEDIUM SAND	SOFT	BROWN	SLOW	NO	SMOOTH
	208	211	FINE-MEDIUM SAND AND CLAY	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	211	230	FINE-MEDIUM SAND, TRACE OF SANDSTONE, AND SANDY CLAY <i>Est. 240' SW</i>	SOFT	BROWN / TAN	FAST	NO	SLIGHT CHATTER
	230	245	FINE-MEDIUM SAND AND SANDY CLAY STRINGERS	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	245	252	SANDY CLAY AND FINE-TRACE OF MEDIUM SAND LAYERS	SOFT	TAN	SLOW	NO	SMOOTH
X	252	261	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	261	270	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
X	270	275	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	275	285	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	285	294	FINE-MEDIUM SAND AND SANDY CLAY	SOFT	TAN	FAST	NO	IN & OUT CHATTER
X	294	310	FINE-MEDIUM-COARSE SAND AND VERY FINE-FINE GRAVEL	SOFT	TAN	FAST	NO	CHATTER
	310	323	GOLD SILTY CLAY, SILTSTONE, LIMESTONE LEDGES, AND VERY FINE SAND	FIRM	GOLD / BLACK	SLOW	NO	CHOPPY AT TIMES
X	323	330	GOLD SILTY CLAY, BROWN ROCK, AND VERY FINE-FINE SAND	SOFT	GOLD / BROWN	SLOW	NO	CHATTER
	330	341	VERY FINE-FINE SAND AND GRAY CLAY	SOFT	GRAY	FAST	NO	CHATTER
	341	370	FINE-TRACE OF MEDIUM SAND AND GRAY LENSE	SOFT	GRAY	FAST	NO	CHATTER
	370	372	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	372	376	VERY FINE-FINE SAND, LIMESTONE, W/CLAY LAYERS	HARD	GRAY / BLACK	SLOW	X	CHOPPY
X	376	385	FINE-MEDIUM SAND	SOFT	GRAY	FAST	NO	CHATTER
	385	401	GRAY CLAY, VERY FINE-FINE SAND LAYERS, AND ORANGE BROWN SILT	FIRM	GRAY / BROWN	SLOW	NO	CHOPPY AT TIMES
X	401	405	FINE-MEDIUM SAND LAYERS	SOFT	GRAY	FAST	NO	CHATTER
	405	415	FINE-TR. MEDIUM SAND	SOFT	GRAY/TAN	SLOW	NO	IN & OUT CHATTER
X	415	418	FINE-MEDIUM SAND, TR. SANDSTONE	SOFT	GRAY	FAST	NO	CHOPPY
	418	419	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	419	426	FINE SAND	SOFT	GRAY	FAST	NO	SLIGHT CHATTER
	426	428	LIMESTONE	HARD	GRAY	SLOW	X	CHOPPY



Century GEOPHYSICAL CORP.

JEFF JANTZ

COMPANY : DOWNEY DRILLING INC.
 WELL : JEFF JANTZ
 LOCATION/FIELD :
 COUNTY : GRAY
 LOCATION : NE
 SECTION : **- 26**

#1

OTHER SERVICES:

DATE : 01/31/18
 DEPTH DRILLER : 441
 LOG BOTTOM : 441.10
 LOG TOP : 0.40

TOWNSHIP : 27S RANGE : 30W

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

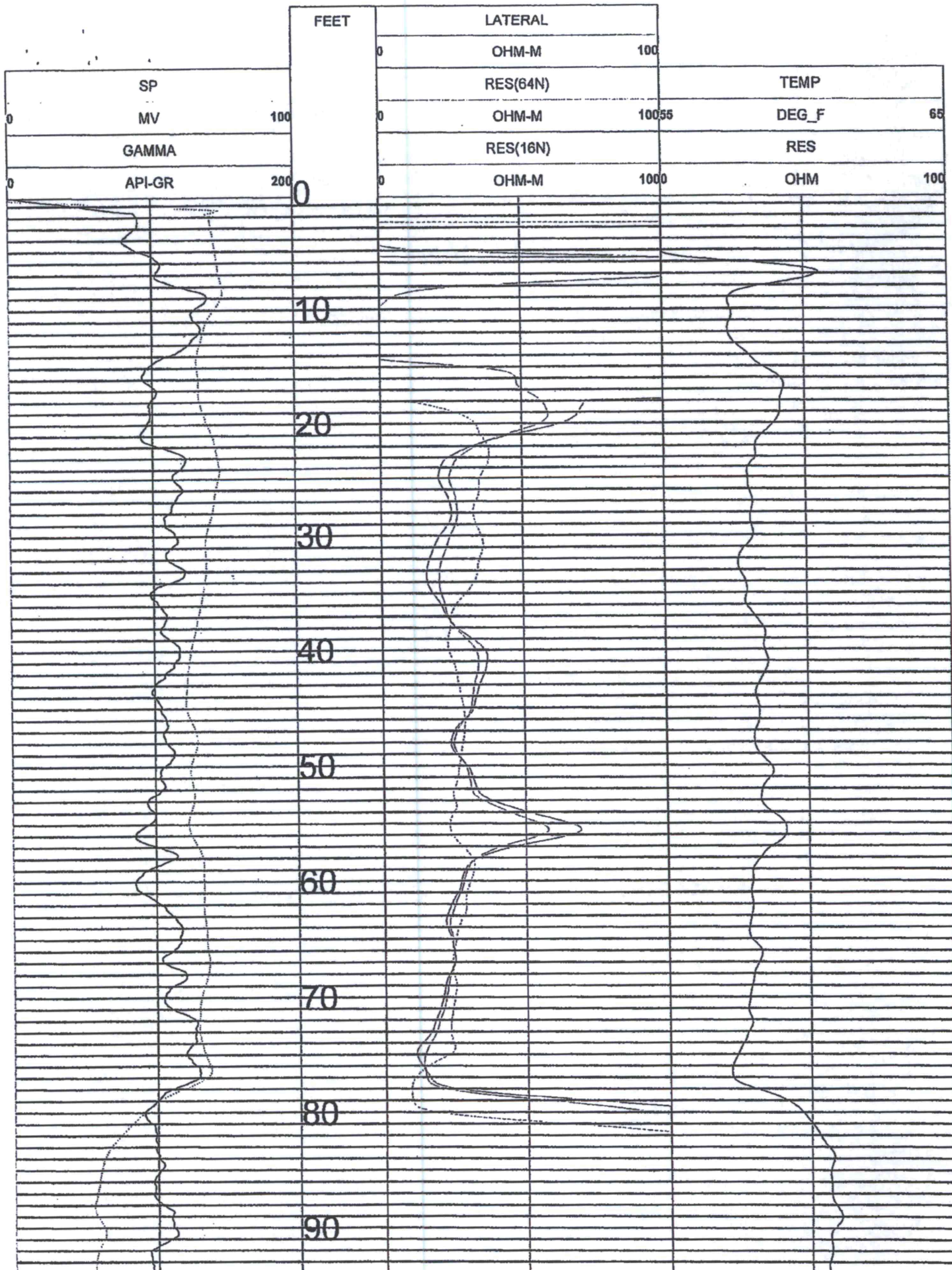
BIT SIZE : 6.50
 MAGNETIC DECL. : 0
 MATRIX DENSITY : 2.71
 NEUTRON MATRIX : LIMESTONE

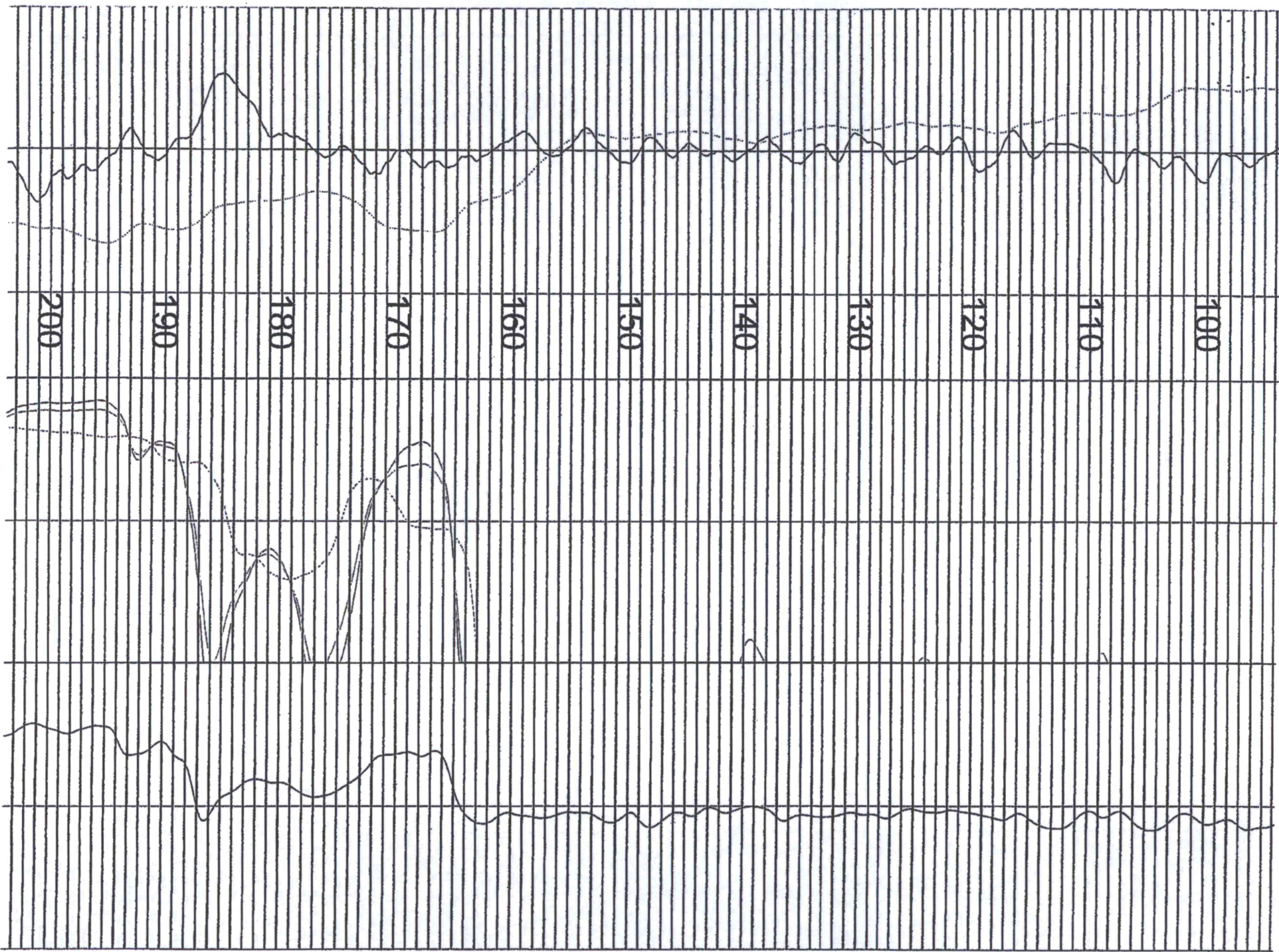
BOREHOLE FLUID : MUD
 RM :
 RM TEMPERATURE :
 MATRIX DELTA T : 49

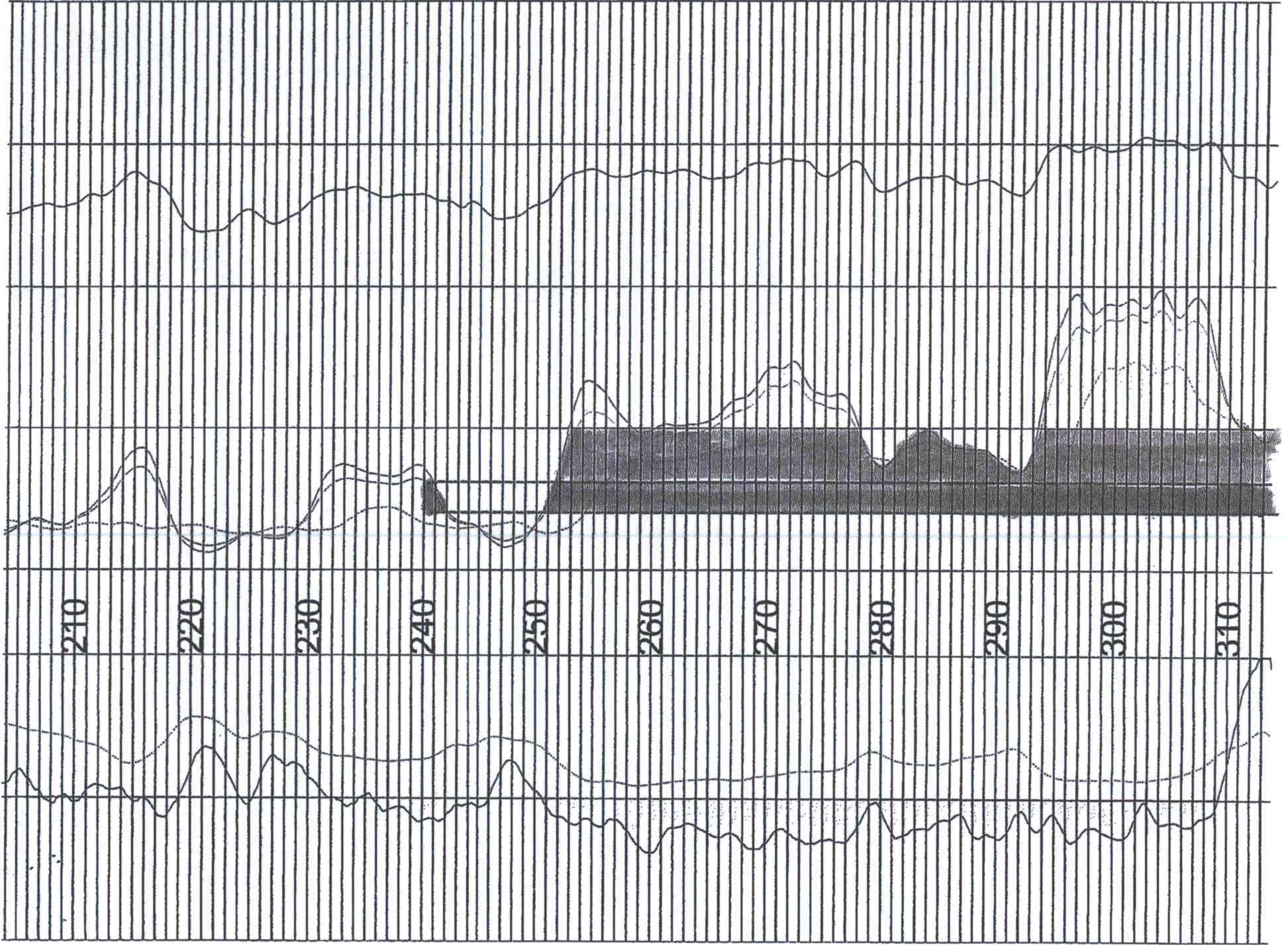
FILE : ORIGINAL
 TYPE : 9057A
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 LGTIME : 12:50:
 THRESH: 99999

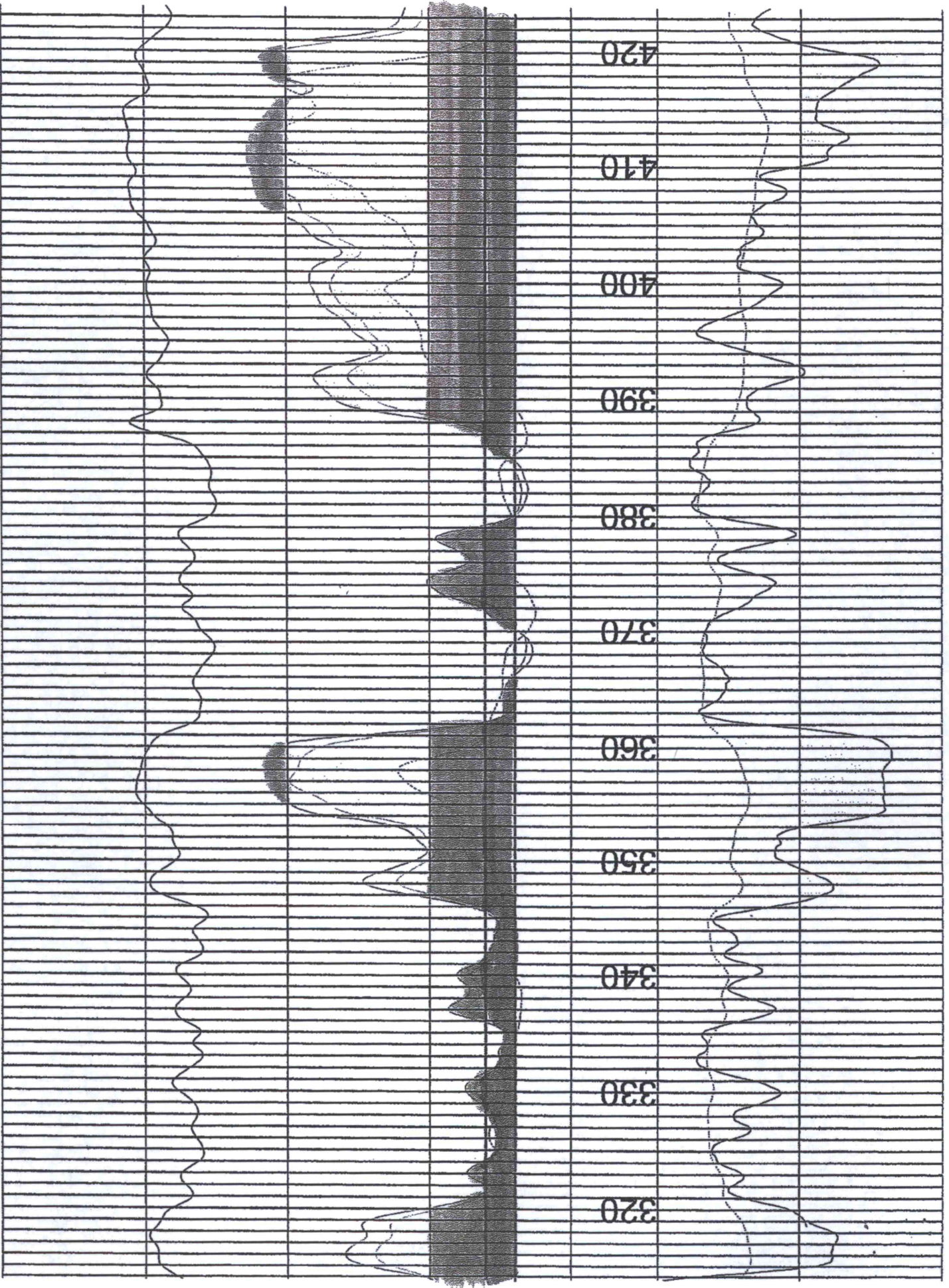
N 37-40-29.4
 W-100-33-57.6

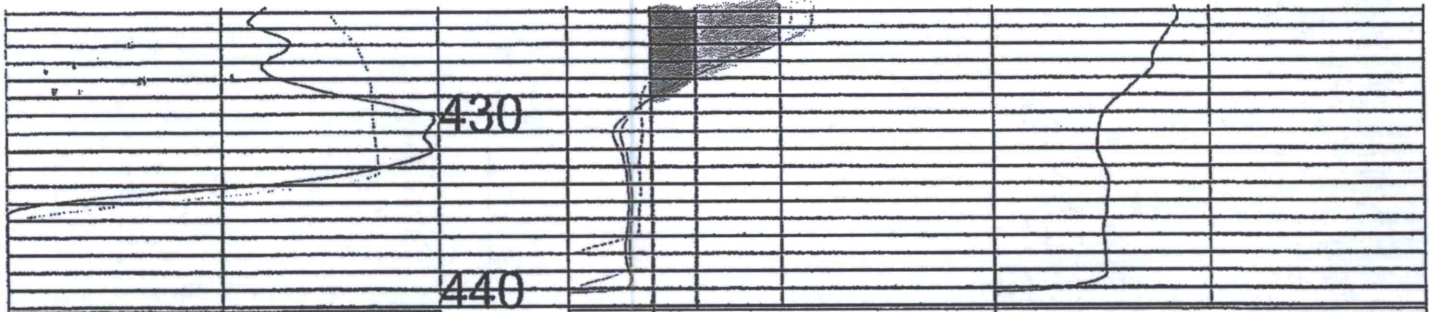
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS











0	API-GR	200	0	OHM-M	1000	OHM	100
	GAMMA			RES(16N)		RES	
0	MV	100	0	OHM-M	10055	DEG_F	65
	SP			RES(64N)		TEMP	
			0	OHM-M	100		
				LATERAL			
				FEET			

Kansas Department of Agriculture / Division of Water Resources
Garden City Field Office

TO: HEADQUARTERS Attn: Brent

RE Vested Right; Water Right; Appropriation of Water; Application
File No(s). 18595 County Gray

Enclosed are the following checked items:

A _____ FIR Full Partial Inspection Return to Field Office
 Proposed Certificate to deliver to Certificate Unit

A Compliance Check Inspection on _____
 Meter Install New App Chg App Other _____
 In Compliance Not in Compliance, why _____
Modify Point of Diversion No Yes, document attached
Indicate all overlapping p/d files _____

An application and judgment sheet with recommendation.
 A memorandum dated _____
 A request for an extension of time to perfect or complete.
 A verified report.
 A closure request.
 A field investigation report.
 Notice of Non-Compliance
 An ownership change (name(s) and address(es) below).
 A water use report for _____
 A letter dated _____

Water Resources
Received

FEB 20 2018

KS Dept Of Agriculture

A copy of an **Approval** to Change the place of use and/or point of diversion,
 Filing Fee attached.

An Advanced **copy** of a change application and the ~~filing fee~~, to be processed at the field office.

An original field office change **application** and the filing fee needing headquarters office review and further processing.

Other: APPEARS TO BE CHANGE IN SOURCE OF SUPPLY?

TPM

Water Commissioner

2/15/18

Date

KANSAS DEPARTMENT OF AGRICULTURE
Division of Water Resources

M E M O R A N D U M

TO: Files

DATE: February 15, 2018

FROM: Michael A. Meyer 
Water Commissioner

RE: Water Right, File No. 18595

An application to change the point of diversion is being proposed to be dismissed due to change in location source of supply, which is in violation of KSA 82a708b.

The application is proposing to drill to a depth of approximately 420' plus. According to KAR 5-23-14, the proposed well is in the confining unit of the Dakota formation. Therefore, the application does not meet the rule and again proposes a change in source of supply.

The well driller brought in a test hole log for consideration of an application to file, and upon review the test hole appeared to show a gray shale layer from 330'-371', which upon review of the map adopted under KAR 5-23-14, and based on the elevation contour lines of the area topo map and elevation contour of the top of the Dakota formation, this is the elevation (330'-370') depth where the confined Dakota starts and the presence of the gray shale (Graneros Shale) or a confining layer as mapped.

The well driller disagreed. On February 13, this office received an application to change the point of diversion assisted by the GMD3 staff, check and test hole log to submit for review. The test hole log submitted with the application was described different at the log formation of 330'-370' even though it was the exact same test hole log reviewed previously with the driller. The description of the formation at those depth changed from shale to "clay" and shale to "lens". It appears the description was changed to support the driller's conclusion that the "Graneros shale" layer (or a confining layer) was not present even though the map etc. showed it be present.

Upon further review of the area, KGS bulletins etc. it appears that the application is changing the source of supply and the application should be proposed to be denied.

Water Resources
Received

FEB 20 2018

KS Dept Of Agriculture

SCANNED

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

Call for address:

Topeka -- (785) 862-6300
 Stafford -- (620) 234-5311
 Stockton -- (785) 425-6787
 Garden City -- (620) 276-2901
www.ksda.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. 18595

RECEIVED
 3:31pm
FEB 13 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

*Garden City Field Office
 Division of Water Resources*

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

The source of supply is: Groundwater Surface water

2. Name and address of Applicant: JEFF & JENNIFER JANTZ

28705 9 RD MONTEZUMA KS 67867

Phone Number: () Email address: _____

**Water Resources
 Received**

Name and address of Water Use Correspondent: JEFF & JENNIFER JANTZ

28705 9 RD MONTEZUMA KS 67867

FEB 20 2018

Phone Number: () Email address: _____

3. The presently authorized place of use is:

Owner of Land ---- NAME: JEFF & JENNIFER JANTZ

ADDRESS: 28705 9 RD MONTEZUMA KS 67867

KS Dept Of Agriculture

(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

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 <u>CGT</u>	Fee \$ <u>200</u>	TR # _____	Receipt Date <u>2/13/18</u>	Check # <u>7604</u>
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5. **Presently authorized point of diversion:**
 One in the se Quarter of the se Quarter of the ne Quarter of Section 26, Township 27 South, Range 30 W, in Gray County, Kansas, 2850 feet North 340 feet West of Southeast corner of section.
 Authorized Rate 910 Authorized Quantity 293 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:
Proposed point of diversion: (Complete only if change is requested)
 One in the _____ Quarter of the NC Quarter of the NE Quarter of Section 26, Township 27 South, Range 30 W, in Gray County, Kansas, 3901 feet North 1365 feet West of Southeast corner of section.
 Proposed Rate 910 Proposed Quantity 293 Proposed well depth (feet) _____
 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 _____ 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:
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 _____ Proposed well depth (feet) _____
 This point is: Additional Well Geo Center List other water rights that will use this point _____

RECEIVED
 FEB 13 2018

Garden City Field Office
 Division of Water Resources

7. Why do you need a new point of diversion? _____
 old well needs to be replaced

13a. If the proposed point of diversion will be relocated within 100 feet of the existing point of diversion, indicate its location on the diagram below in relation to the existing point of diversion. (PLEASE NOTE: The "X" in center of diagram below represents presently authorized point of diversion.)

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

9. When do you propose to complete the new point of diversion?

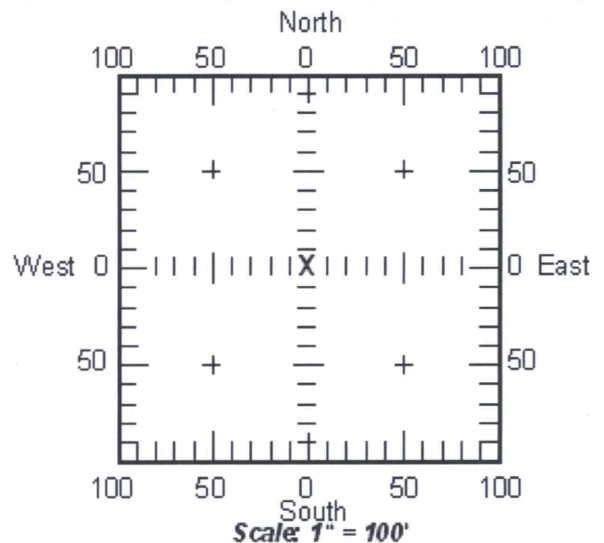
10. If the point of diversion is a well:
 (a) What are you going to do with the old well?

CAP FOR NOW

(b) When will this be done? 2018

11. Groundwater Management District recommendation attached? Yes No

12. Assisted by tpm & CL-GMD3

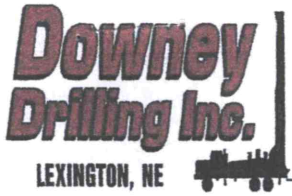


13b. If the proposed point of diversion will be relocated more than 100 feet but within 1320 feet from the existing point of diversion, attach a topographic map or aerial photograph. For groundwater sources, show all wells (including domestic) within one-half mile of the proposed point of diversion and 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.

Water Resources
 Received
 FEB 20 2018

WELL LOG

DATE: 1/31/2018



#1
NE 26
Water Resources
Received

CUSTOMER NAME: JEFF JANTZ

RECEIVED

LEGAL: NE 26-27S-30W

FEB 07 2018

COUNTY: GRAY

GPS: 37 40' 29.4" N Garden City Field Office
-100 33' 57.6" W Division of Water Resources

FEB 20 2018

DRILLER: RYAN

WO#: 18-036

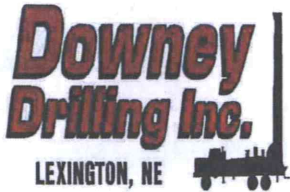
TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL KS Dept Of Agriculture	SOFT	BLACK	FAST	NO	SMOOTH
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X	78	110	FINE-MEDIUM-COARSE SAND AND FINE-TRACE OF MEDIUM GRAVEL	SOFT	RED / TAN	FAST	NO	CHATTER
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X	113	141	FINE-MEDIUM-COARSE SAND AND FINE GRAVEL	SOFT	RED	FAST	NO	CHATTER
X	141	167	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM-TRACE OF COARSE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	167	175	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
X	175	177	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST	NO	CHATTER
	177	180	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
	180	201	CLAY, MAG LAYERS, AND VERY FINE-FINE SAND	FIRM	TAN / WHITE	SLOW	NO	CHOPPY AT TIMES
	201	208	CLAY AND FINE-TRACE OF MEDIUM SAND	SOFT	BROWN	SLOW	NO	SMOOTH
	208	211	FINE-MEDIUM SAND AND CLAY	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	211	230	FINE-MEDIUM SAND, TRACE OF SANDSTONE, AND SANDY CLAY	SOFT	BROWN / TAN	FAST	NO	SLIGHT CHATTER
	230	245	FINE-MEDIUM SAND AND SANDY CLAY STRINGERS	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	245	252	SANDY CLAY AND FINE-TRACE OF MEDIUM SAND LAYERS	SOFT	TAN	SLOW	NO	SMOOTH
X	252	261	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	261	270	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
X	270	275	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	275	285	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
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	330	341	VERY FINE-FINE SAND AND GRAY SHALE	SOFT	GRAY	FAST	NO	CHATTER
	341	370	FINE-TRACE OF MEDIUM SAND AND GRAY SHALE	SOFT	GRAY	FAST	NO	CHATTER
	370	372	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	372	378	VERY FINE-FINE SAND, LIMESTONE, AND SHALE LAYERS	HARD	GRAY / BLACK	SLOW	X	CHOPPY
X	378	385	FINE-MEDIUM SAND	SOFT	GRAY	FAST	NO	CHATTER
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X	401	405	FINE-MEDIUM SAND LAYERS	SOFT	GRAY	FAST	NO	CHATTER
	405	415	GRAY SHALE, ORANGE BROWN SILT, AND FINE-TRACE OF MEDIUM SAND LAYERS	SOFT	GRAY / BROWN	SLOW	NO	IN & OUT CHATTER
X	415	418	FINE-MEDIUM SAND LAYERS, SANDSTONE TRACES, AND GOLD ORANGE SILT	SOFT	GRAY	FAST	NO	CHOPPY
	418	420	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	420	426	DARK GRAY SHALE AND VERY FINE SAND LAYERS	SOFT	DARK GRAY	FAST	NO	SLIGHT CHATTER
	426	428	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY

18595

SCANNED

WELL LOG

DATE: 1/31/2018



RECEIVED

CUSTOMER NAME: JEFF JANTZ

FEB 13 2018

LEGAL: NE 26-27S-30W

TEST HOLE #1

COUNTY: GRAY

GPS: 37 40' 29.4" N

-100 33' 57.6" W

Garden City Field Office
Division of Water Resources

DRILLER: RYAN

WO#: 18-036

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	230	245	FINE-MEDIUM SAND AND SANDY CLAY STRINGERS <i>Egt. 240' SW</i>	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	245	252	SANDY CLAY AND FINE-TRACE OF MEDIUM SAND LAYERS	SOFT	TAN	SLOW	NO	SMOOTH
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X	415	418	FINE-MEDIUM SAND, TR. SANDSTONE	SOFT	GRAY	FAST	NO	CHOPPY
	418	419	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	419	426	FINE SAND	SOFT	GRAY	FAST	NO	SLIGHT CHATTER
	426	428	LIMESTONE	HARD	GRAY	SLOW	X	CHOPPY

Water Resources
Receiver

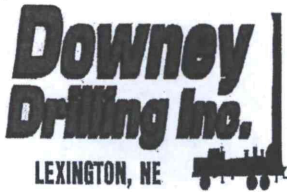
FEB 20 2018

KS Dept Of Agriculture

SCANNED

WELL LOG

DATE: 1/31/2018



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CUSTOMER NAME: JEFF JANTZ

FEB 13 2018

LEGAL: NE 26-27S-30W

TEST HOLE #1

COUNTY: GRAY

GPS: 37 40' 29.4" N

-100 33' 57.6" W

Garden City Field Office
Division of Water Resources

DRILLER: RYAN

WO#: 18-036

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL	SOFT	BLACK	FAST	NO	SMOOTH
	2	78	SILTY SANDY CLAY AND VERY FINE SAND	SOFT	BROWN	FAST	NO	SMOOTH
X	78	110	FINE-MEDIUM-COARSE SAND AND FINE-TRACE OF MEDIUM GRAVEL	SOFT	RED / TAN	FAST	NO	CHATTER
	110	113	CLAY AND SILT LAYER	SOFT	BROWN	FAST	NO	SMOOTH
X	113	141	FINE-MEDIUM-COARSE SAND AND FINE GRAVEL	SOFT	RED	FAST	NO	CHATTER
X	141	167	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM-TRACE OF COARSE GRAVEL	SOFT	RED	FAST	NO	CHATTER
	167	175	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
X	175	177	FINE-MEDIUM-COARSE SAND AND FINE-MEDIUM GRAVEL	SOFT	RED	FAST	NO	CHATTER
	177	180	CLAY	SOFT	BROWN	FAST	NO	SMOOTH
	180	201	CLAY, MAG LAYERS, AND VERY FINE-FINE SAND	FIRM	TAN / WHITE	SLOW	NO	CHOPPY AT TIMES
	201	208	CLAY AND FINE-TRACE OF MEDIUM SAND	SOFT	BROWN	SLOW	NO	SMOOTH
	208	211	FINE-MEDIUM SAND AND CLAY	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	211	230	FINE-MEDIUM SAND, TRACE OF SANDSTONE, AND SANDY CLAY	SOFT	BROWN / TAN	FAST	NO	SLIGHT CHATTER
	230	245	FINE-MEDIUM SAND AND SANDY CLAY STRINGERS <i>Est. 240' SW</i>	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	245	252	SANDY CLAY AND FINE-TRACE OF MEDIUM SAND LAYERS	SOFT	TAN	SLOW	NO	SMOOTH
X	252	261	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	261	270	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
X	270	275	FINE-MEDIUM-TRACE OF COARSE SAND	SOFT	TAN	FAST	NO	CHATTER
	275	285	FINE-MEDIUM-TRACE OF COARSE SAND AND SANDY CLAY LENSES	SOFT	TAN	FAST	NO	SLIGHT CHATTER
	285	294	FINE-MEDIUM SAND AND SANDY CLAY	SOFT	TAN	FAST	NO	IN & OUT CHATTER
X	294	310	FINE-MEDIUM-COARSE SAND AND VERY FINE-FINE GRAVEL	SOFT	TAN	FAST	NO	CHATTER
	310	323	GOLD SILTY CLAY, SILTSTONE, LIMESTONE LEDGES, AND VERY FINE SAND	FIRM	GOLD / BLACK	SLOW	NO	CHOPPY AT TIMES
X	323	330	GOLD SILTY CLAY, BROWN ROCK, AND VERY FINE-FINE SAND	SOFT	GOLD / BROWN	SLOW	NO	CHATTER
	330	341	VERY FINE-FINE SAND AND GRAY CLAY	SOFT	GRAY	FAST	NO	CHATTER
	341	370	FINE-TRACE OF MEDIUM SAND AND GRAY LENSE	SOFT	GRAY	FAST	NO	CHATTER
	370	372	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	372	378	VERY FINE-FINE SAND, LIMESTONE, W/CLAY LAYERS	HARD	GRAY / BLACK	SLOW	X	CHOPPY
X	378	385	FINE-MEDIUM SAND	SOFT	GRAY	FAST	NO	CHATTER
	385	401	GRAY CLAY, VERY FINE-FINE SAND LAYERS, AND ORANGE BROWN SILT	FIRM	GRAY / BROWN	SLOW	NO	CHOPPY AT TIMES
X	401	405	FINE-MEDIUM SAND LAYERS	SOFT	GRAY	FAST	NO	CHATTER
	405	415	FINE-TR. MEDIUM SAND	SOFT	GRAY/TAN	SLOW	NO	IN & OUT CHATTER
X	415	418	FINE-MEDIUM SAND, TR. SANDSTONE	SOFT	GRAY	FAST	NO	CHOPPY
	418	419	LIMESTONE	HARD	BLACK	SLOW	X	CHOPPY
	419	426	FINE SAND	SOFT	GRAY	FAST	NO	SLIGHT CHATTER
	426	428	LIMESTONE	HARD	GRAY	SLOW	X	CHOPPY

Water Resources
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Century GEOPHYSICAL CORP.

JEFF JANTZ

COMPANY : DOWNEY DRILLING INC.
 WELL : JEFF JANTZ
 LOCATION/FIELD :
 COUNTY : GRAY
 LOCATION : NE
 SECTION : **- 26**

#1

OTHER SERVICES:

DATE : 01/31/18
 DEPTH DRILLER : 441
 LOG BOTTOM : 441.10
 LOG TOP : 0.40

TOWNSHIP : 27S RANGE : 30W

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 : 6.50
 MAGNETIC DECL. : 0
 MATRIX DENSITY : 2.71
 NEUTRON MATRIX : LIMESTONE

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

FILE : ORIGINAL
 TYPE : 9057A
 LGDATE: 01/31/18
 LGTIME : 12:50:
 THRESH: 99999

N 37-40-29.4
 W-100-33-57.6

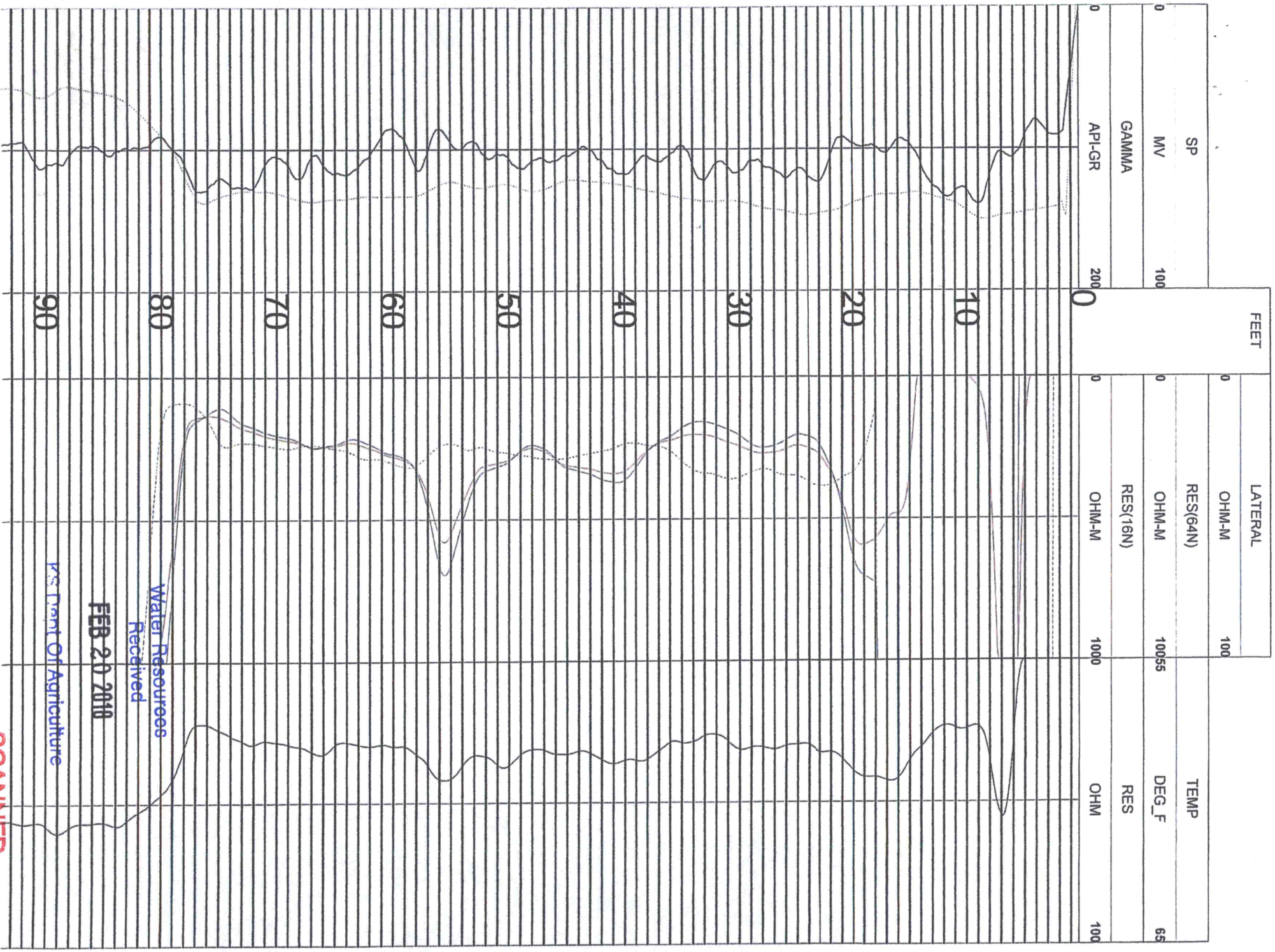
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

Water Resources
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FEB 20 2018

KS Dept Of Agriculture

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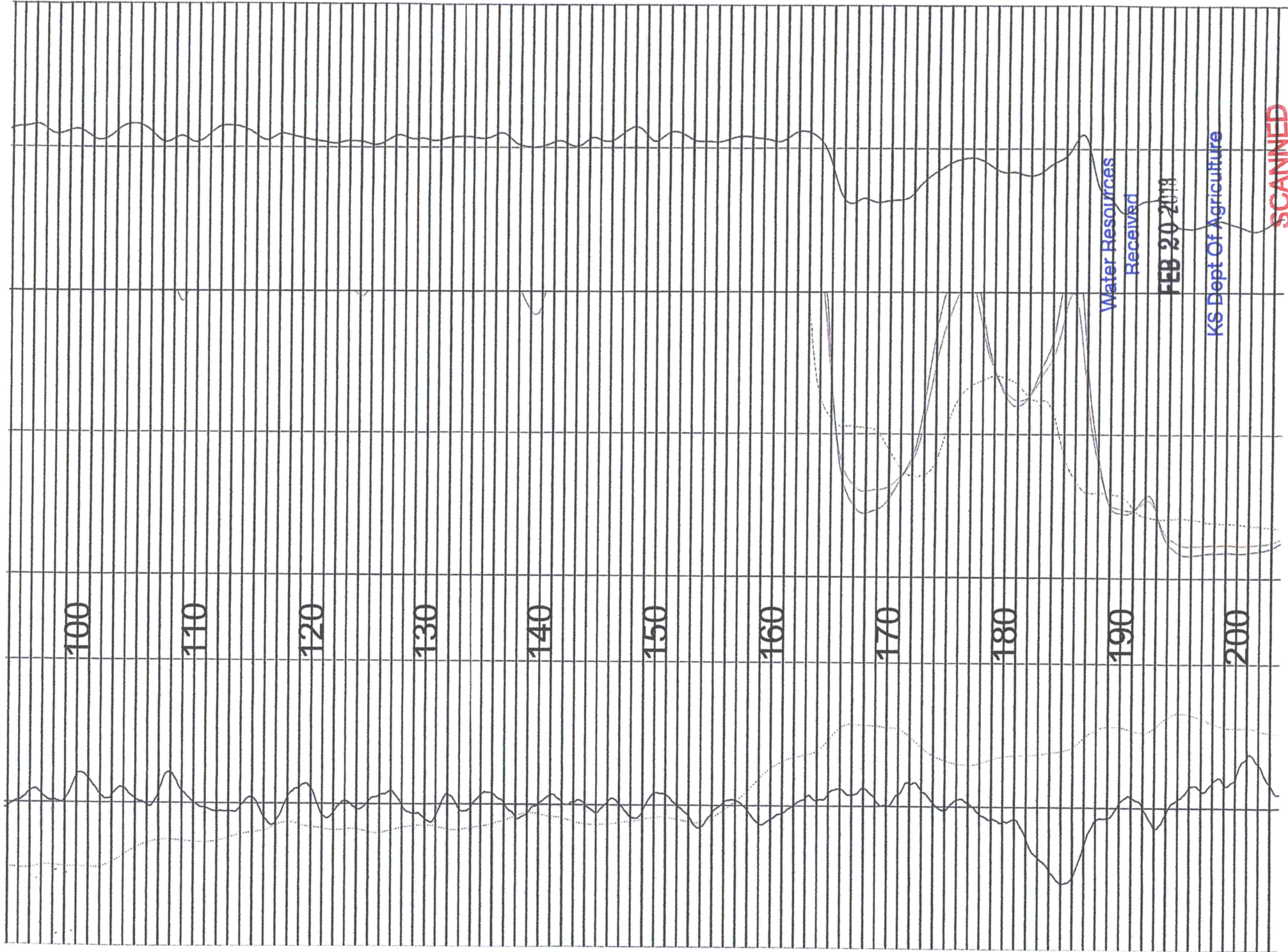


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Water Resources Received

FEB 20 2013

KS Dept Of Agriculture

SCANNED



**Southwest Kansas
Groundwater Management District**
2009 E. Spruce Street
Garden City, Kansas 67846-6158
(620) 275-7147 phone (620) 275-1431 fax
www.gmd3.org

February 13, 2018

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FEB 13 2018

Mike Meyer
Division of Water Resources
2508 Johns Street
Garden City, KS 67846

Garden City Field Office
Division of Water Resources

RE: Application for Change In Point of Diversion
Water Right File No. 18595

Dear Mike,

We have completed a review of the application for the above referenced water right. The proposal is not in conflict with the Management Program of the Southwest Kansas Groundwater Management District. The change in point of diversion is in accordance with K.A.R. 5-23-3(c)(1). It is therefore recommended that the application be approved at this time.

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

Sincerely,

Jason Norquest
Assistant Manager

**Water Resources
Received**

FEB 20 2018

KS Dept Of Agriculture

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

3901 ft N and 1365 ft W of the SE Corner of Section 26, T 27S, R 30W

Located at: 100.565568 West Longitude and 37.674806 North Latitude

GROUNDWATER ONLY

File Number	Use	ST	SR	Dist (ft)	Q4	Q3	Q2	Q1	FeetN	FeetW	Sec	Twp	Rng	ID	Batt	Auth_Quan	Add_Quan	Unit
A__ 13575	00	IRR	NK	G	5271	--	SE	NW	NE	4000	1400	25	27	30W	8	28.00	28.00	AF
A__ 18317	00	IRR	NK	G	3906	--	NC	SW		1320	3960	24	27	30W	2	272.00	272.00	AF
A__ 18595	00	IRR	NK	G	1466	--	SE	SE	NE	2850	340	26	27	30W	2	293.00	293.00	AF
A__ 21073	00	IRR	NK	G	5271	--	SE	NW	NE	4000	1400	25	27	30W	8	272.00	272.00	AF
A__ 25196	D1	IRR	NK	G	2711	--	NC	NW		3970	3960	25	27	30W	4	260.00	260.00	AF
A__ 25962	00	IRR	NK	G	4162	--	NW	NW	NE	5180	2500	35	27	30W	2	380.00	380.00	AF
A__ 29756	00	IRR	NK	G	3775	--	NC	SW		1300	3960	23	27	30W	3	248.00	248.00	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) =	1753.00	.00
Total Vested Amount (AF) =	.00	.00
TOTAL AMOUNT (AF) =	1753.00	.00

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FEB 13 2018

Garden City Field Office
Division of Water Resources

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:

100.565568 West Longitude and 37.674806 North Latitude

GROUNDWATER ONLY

WATER USE CORRESPONDENTS:

File Number	Use	ST	SR
A__ 13575	00	IRR	NK G
> LEONARD L & PATRICIA KOEHN			
>			
> PO BOX 13			
> MONTEZUMA KS 67867			

A__ 18317	00	IRR	NK G
> LEONARD L & PATRICIA KOEHN			
>			
> PO BOX 13			
> MONTEZUMA KS 67867			

> ROSS E & SHERRY R KOEHN			
>			
> 7505 BB RD			
> MONTEZUMA KS 67867			

A__ 18595	00	IRR	NK G
> JEFF & JENNIFER JANTZ			

Water Resources
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>
> 28705 9 RD
> MONTEZUMA KS 67867
>-----

A__ 21073 00 IRR NK G
> LEONARD L & PATRICIA KOEHN
>
> PO BOX 13
> MONTEZUMA KS 67867
>-----

A__ 25196 D1 IRR NK G
> JEFF & JENNIFER JANTZ
>
> 28705 9 RD
> MONTEZUMA KS 67867
>-----

A__ 25962 00 IRR NK G
> GREGORY C & SUE LOVE
>
> 24506 13 RD
> MONTEZUMA KS 67867
>-----

A__ 29756 00 IRR NK G
> IVAL EUGENE NALLY
>
> 123 YY RD
> PIERCEVILLE KS 67868
>-----

=====

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FEB 12 2018
11:15 AM
MONTEZUMA, KS 67867

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

- (a) Does the undersigned represent all owners of the currently authorized place(s) of use identified in this application?
 Yes No (If no, all owners must sign this application.)
- (b) Will the ownership interest of any owner of the currently authorized place(s) of use identified in this application be adversely affected if this application is approved as requested?
 Yes No (If yes, all owners must sign this application.)
- (c) If this application is not approved expeditiously, will there be substantial damage to property, public health or safety?
 Yes No (If no, all owners must sign this application.)

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 FEB 13 2018
 Public Health & Safety
 Division of Water Resources

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 regard to the water right(s) to which this application pertains. I further verify that the statements contained in this application are true, correct and complete.

Dated at Garden City, Kansas, this 13 day of February, 20 18.

Jeff Jantz
 (Owner)
Jeff Jantz
 (Please Print)

 (Owner)

 (Please Print)

 (Owner)

 (Please Print)

Jennifer Jantz
 (Spouse)
Jennifer Jantz
 (Please Print)

 (Spouse)

 (Please Print)

 (Spouse)

 (Please Print)

State of Kansas }
 County of Finney } SS



I hereby certify that the foregoing application was signed in my presence and sworn to before me this 13th day of February, 20 18.

Brandi Sneath
 Notary Public

My Commission Expires 10/01/2019.

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

FEB 20 2018

KS Dept Of Agriculture

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1320 Research Park Drive
Manhattan, Kansas 66502
785-564-6700



900 SW Jackson, Room 456
Topeka, Kansas 66612
785-296-3556

Secretary Jackie McClaskey

Governor Jeff Colyer, M.D.

JEFF & JENNIFER JANTZ
28705 9 RD
MONTEZUMA, KS 67867

February 28, 2018

RE: File No 18595

Dear Sir or Madam:

An application for approval of the Chief Engineer to change the following condition or conditions of the file number referred to above has been received:

- place of use PD
- point of diversion
- use made of water

As a matter of record, the Division of Water Resources has on hand a large number of applications awaiting processing. Therefore, to be fair to all concerned, and so that we can process those applications on hand in the order they were received, we intend to concentrate on the backlog of applications until the issue is resolved. You will be contacted regarding this application as soon as it has been examined.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water prior to approval of the application is unlawful. You should not proceed and divert water as indicated by your plans in your application for a change for this file until you receive approval for this change from the Chief Engineer. Once approved, compliance with the terms, conditions and limitations of the permit is necessary. Conservation of the water resources of Kansas is required.

Section 82a-728 of the Kansas Water Appropriation Act, provides (a) except for the appropriation of water for the purpose of domestic use, . . . it shall be unlawful for any person to appropriate or threaten to appropriate water from any source without first applying for and obtaining a permit to appropriate water in accordance with the provisions of the Water Appropriation Act or for any person to violate any condition of a vested right, appropriation right or an approved application for a permit to appropriate water for beneficial use.

(b) (1) The violation of any provision of this section by any person is a class C misdemeanor...

A class C misdemeanor is punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. Each day that the violation occurs constitutes a separate offense.

If you have any questions, please contact me at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

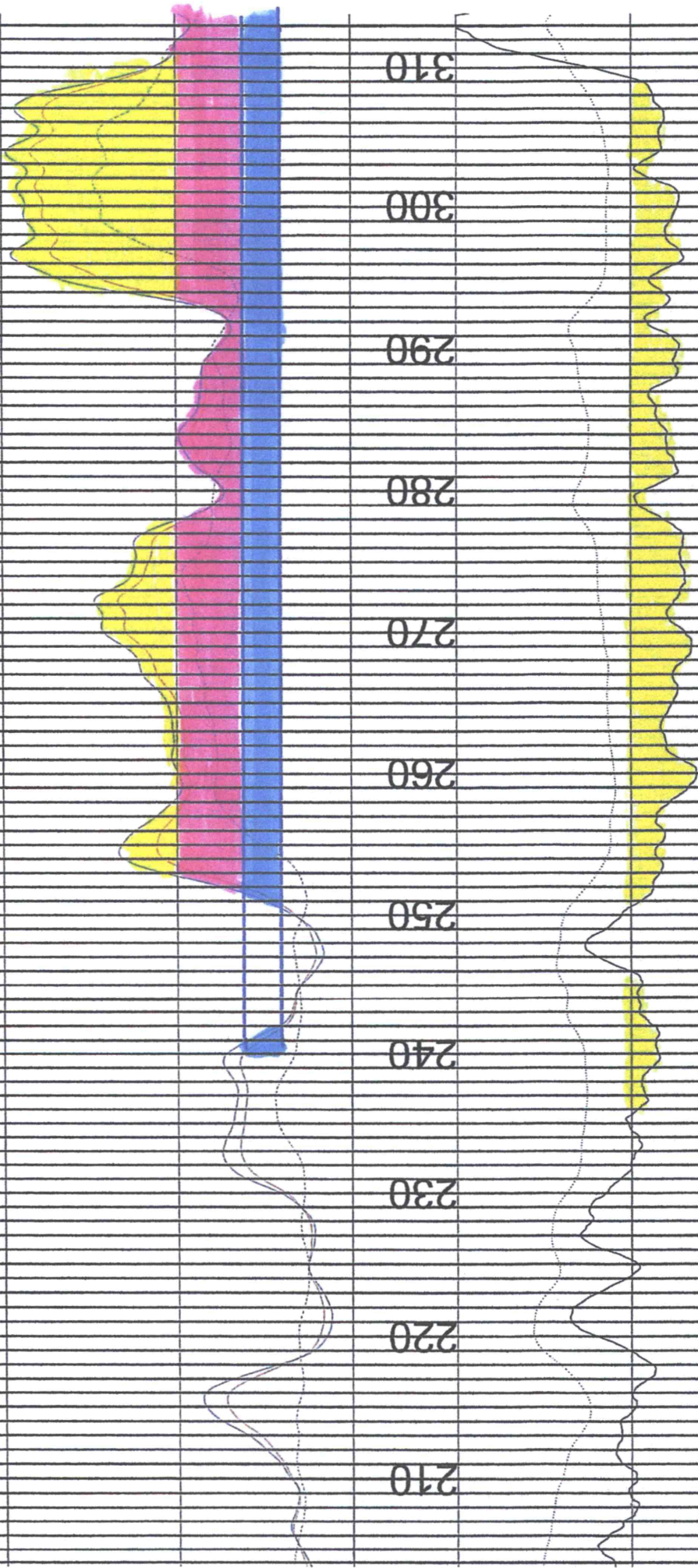
Brent Tourney, L.G.
Change Applications Unit Supervisor
Water Appropriation Program

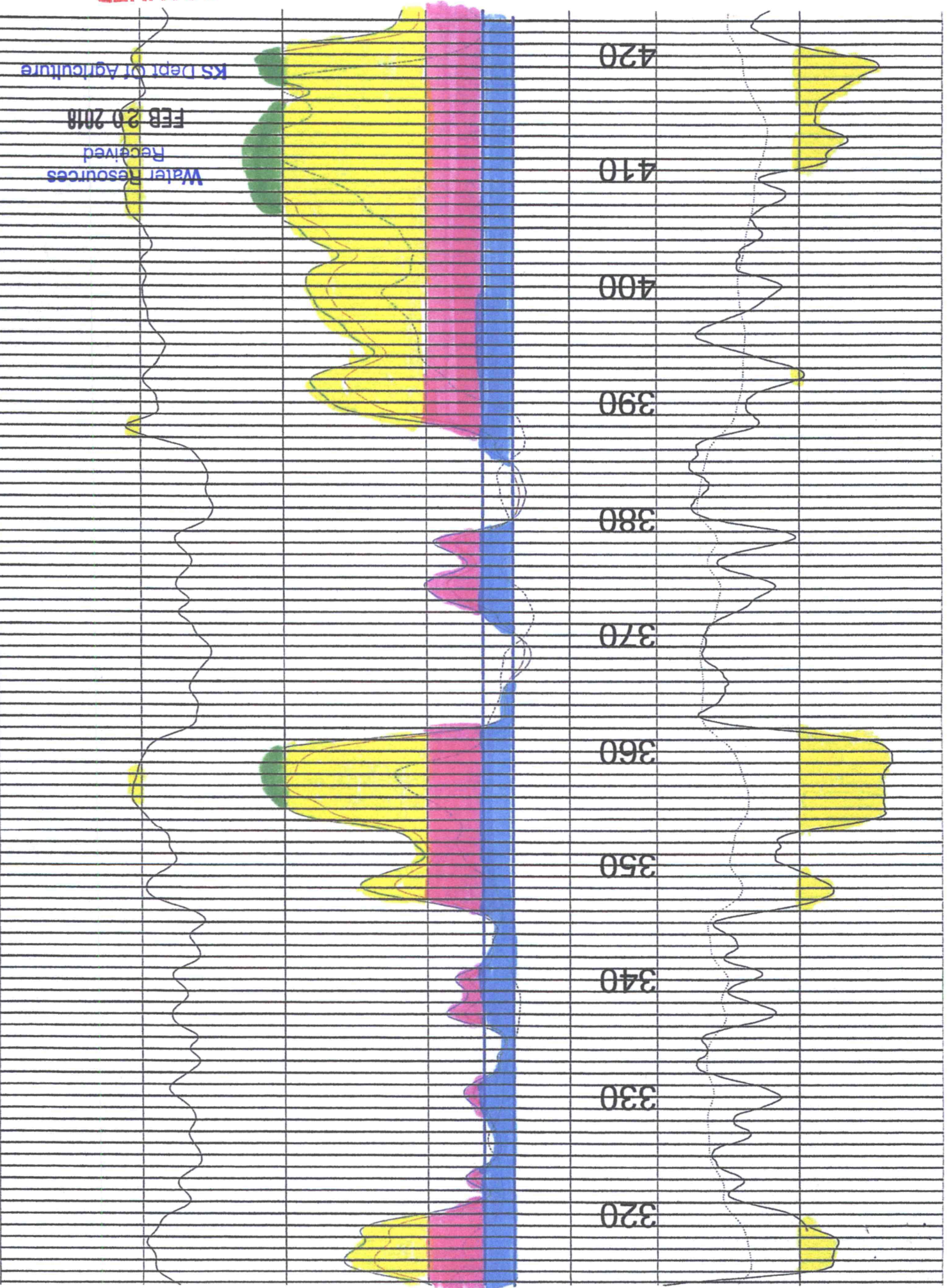
BAT: DLW
pc: GARDEN CITY Field Office GMD

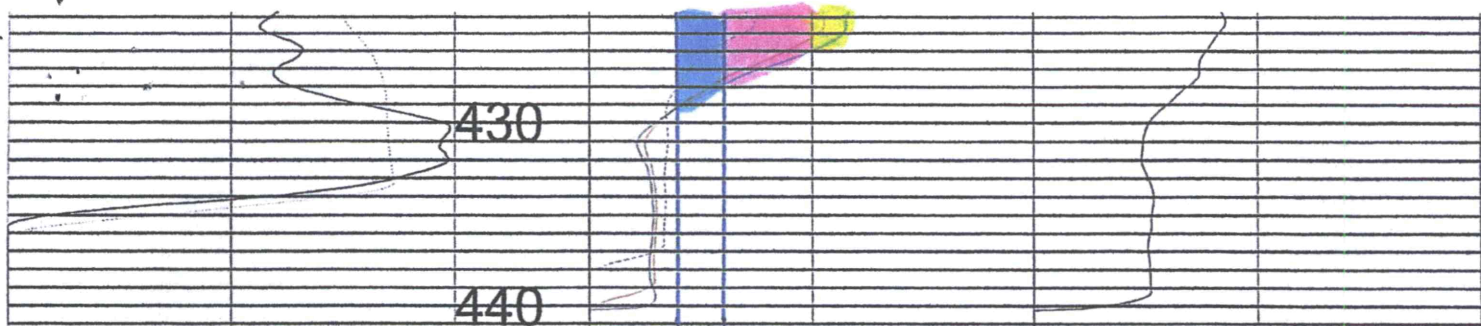
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FEB 20 2018
KS Dept. of Agriculture

310
300
290
280
270
260
250
240
230
220
210







0	API-GR	200	0	OHM-M	1000	OHM	100
	GAMMA			RES(16N)		RES	
0	MV	100	0	OHM-M	10055	DEG_F	65
	SP			RES(64N)		TEMP	
			0	OHM-M	100		
				LATERAL			

FEET

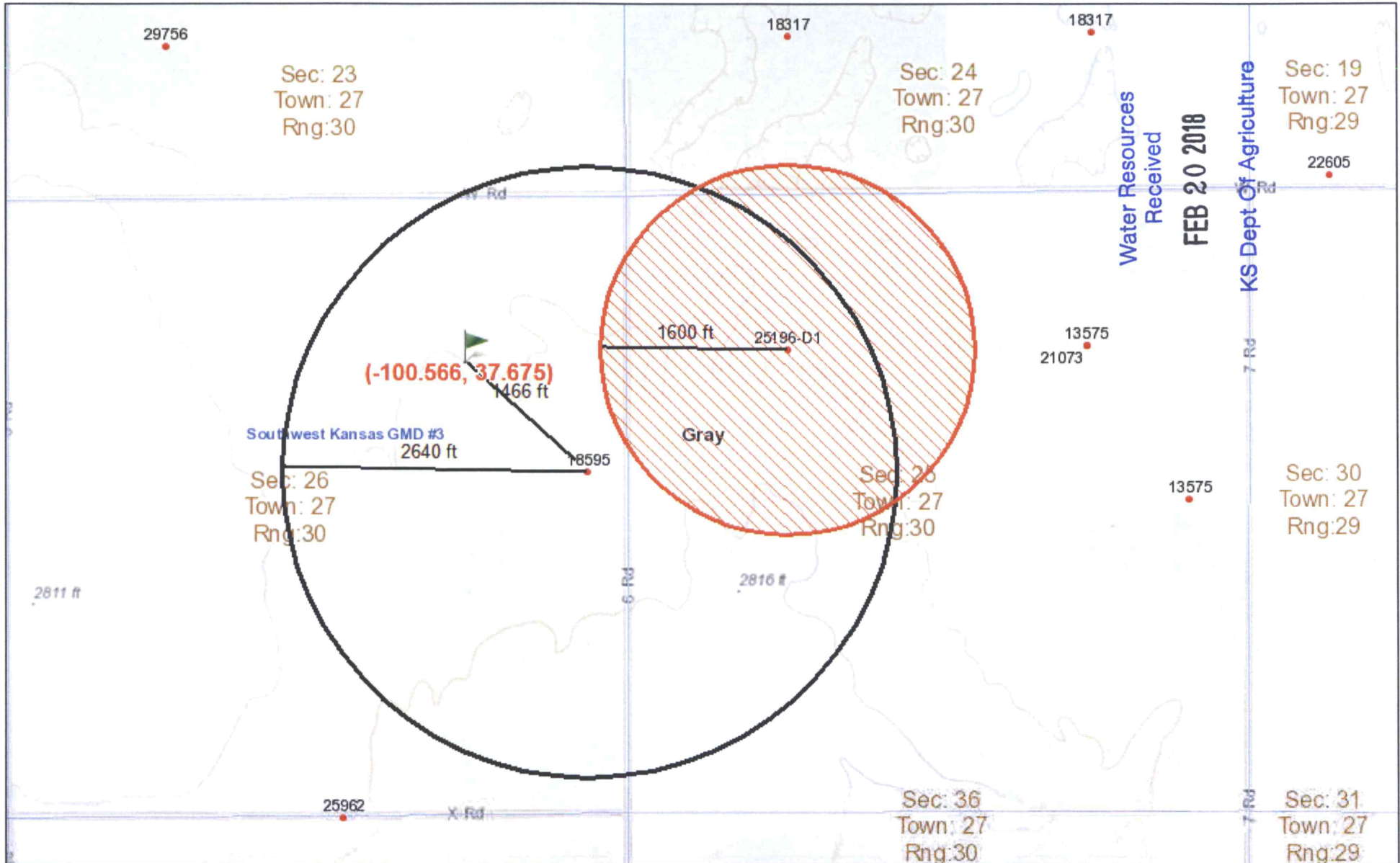
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FEB 20 2018

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18595 Redrill Topo Map



Water Resources Received
 FEB 20 2018
 KS Dept Of Agriculture

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February 13, 2018
09:22 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.

1:18,056

- Wells RECEIVED**
- | | | | | | | |
|---|-------|-----|-----|----------|-------|----------|
| ? | Other | CON | FPR | MUN | THX | Counties |
| • | IRR | DEW | HYD | REC | Empty | GMD 3 |
| • | DOM | IND | STK | Sections | | |

