

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

1. File Number: 22727	2. Status Change Date: 2-22-2023	3. Change Num: C1	4. Field Office: 4	5. GMD: 3
6. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return				7. Filing Date of Change: 2/13/2023
8a. Applicant(s), Landowner, WUC New to system <input type="checkbox"/> K2 FARMS Attn: JOHN KLEYS TEUBER 13060 S RD 20 GARDEN CITY, KS 67846		Person ID <u>65291</u> Add Seq# _____ 8a		
8b. Landowner(s) New to system <input checked="" type="checkbox"/>		Person ID _____ Add Seq# _____		
8c. Landowner(s) New to system <input type="checkbox"/>		Person ID _____ Add Seq# _____		
8d. WUC New to system <input type="checkbox"/>		Person ID _____ Add Seq# _____		
9. Documents and Enclosure(s): <input checked="" type="checkbox"/> DWR Meter(s) Date to Comply: 12/31/2023 <input checked="" type="checkbox"/> N & P Date to Comply: 3/1/2024				
<input type="checkbox"/> Anti-Reverse Meter <input type="checkbox"/> Meter Seal <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N & P Form <input checked="" type="checkbox"/> Water Tube <input checked="" type="checkbox"/> Driller Copy <input 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: 2/22/2023 By: MAM Date Entered: _____ By: _____				

File No. **22727** 11. County: Fl Basin: **ARKANSAS RIVER** Stream: Formation Code: **331** Special Use: **211/331**

12. Points of Diversion
 CHK
 MOD
 DEL PDIV
 ENT

Rate and Quantity

Authorized Additional

Qualifier S T R ID 'N 'W Comment (AKA Line) Rate gpm Quantity af Rate gpm Quantity af Overlap PD Files

DEL 10064

ENT NCNE 18 26 31W 3698 1320 805 260 805 260 NONE

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

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

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

16. Place of Use CHK MOD DEL ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files
						NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼				
CHK 18343																									

Base Acres: Year: Minimum Reasonable Quantity:

Comments:

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

Mike Beam, Secretary



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

Laura Kelly, Governor

February 22, 2023

K2 FARMS
Attn: JOHN KLEYSSTEUBER
13060 S RD 20
GARDEN CITY, KS 67846

RE: Field Office Application for Change
Water Right, File No. 22727

Dear Sir or Madam:

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

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in these approvals for change. A condition of this approval is that an acceptable water flow meter must be installed on the diversion works authorized under the referenced file number and meet current specifications. Please return the required notification of completion of the diversion works and installation of the required meter as soon as these actions are completed. Please note the reminder of the existing additional condition attached.

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

The abandoned well must be plugged in accordance with the requirements of Article 30 of the Rules and Regulations as adopted by the Kansas Department of Health and Environment.

Should you have any questions, please feel free contact this office. If you would prefer, you could arrange an appointment for additional assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read "Michael A. Meyer".

Michael A. Meyer
Water Commissioner

MAM:
Enclosures

CERTIFICATE OF SERVICE

On this 22nd day of February 2023, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 22,727 dated 22nd day of February 2023 was mailed postage prepaid, first class, US mail to the following:

K2 FARMS
Attn: JOHN KLEYTEUBER
13060 S RD 20
GARDEN CITY, KS 67846



Division of Water Resources Staff

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

Call for address:

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

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



STATE OF KANSAS

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

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

File No. 22727

RECEIVED
 8:30 AM
 FEB 13 2023

Garden City Field Office
 Division of Water Resources

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

Place of Use Point of Diversion

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

The source of supply is: Groundwater Surface water

2. Name and address of Applicant: K2 FARMS

13060 S RD 20 GARDEN CITY KS 67846

Phone Number: (620) 272-6552

Email address: klosteruber@gmail.com

Name and address of Water Use Correspondent: NO CHANGE

Phone Number: ()

Email address: _____

3. The presently authorized place of use is:

Owner of Land ---- NAME: _____

ADDRESS: _____

(If there is more than one landowner, attach supplemental sheets as necessary.)

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

4. If this application is for a change in place of use, it is proposed that the place of use be changed to:

Owner of Land ---- NAME: _____

ADDRESS: _____

(If there is more than one landowner, attach supplemental sheets as necessary.)

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

For Office Use Only: Code _____ Fee \$ 100.00 TR # _____ Receipt Date 2-13-23 Check # 001558

5. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ NC Quarter of the _____ NE Quarter
 of Section _____ 18 _____, Township _____ 26 _____ South, Range _____ 31 _____ W,
 in _____ County, Kansas, _____ 3980 _____ feet North _____ 1320 _____ 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 _____ NC Quarter of the _____ NE Quarter
 of Section _____ 18 _____, Township _____ 26 _____ South, Range _____ 31 _____ W,
 in _____ County, Kansas, _____ 3698 _____ feet North _____ 1320 _____ feet West of Southeast corner of section.
 Proposed Rate _____ --- _____ Proposed Quantity _____ --- _____ Proposed well depth (feet) _____ 510 _____
 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) _____

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

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

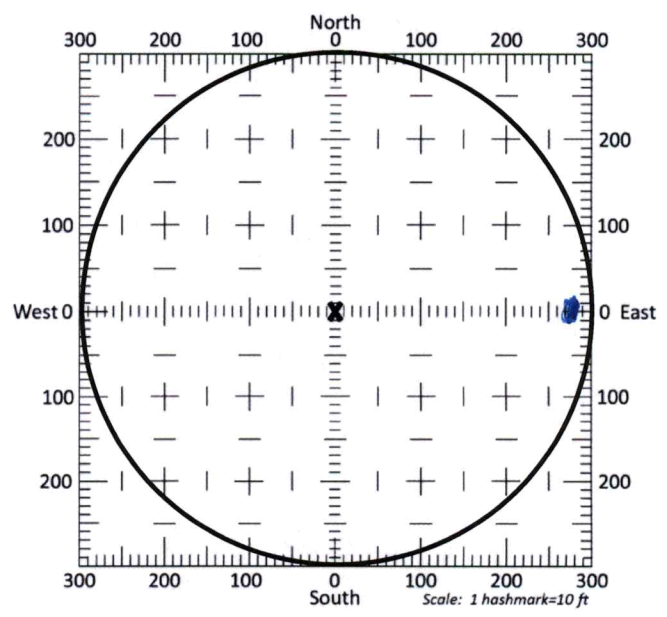
10. If the point of diversion is a well:
 (a) What are you going to do with the old well?

 (b) When will this be done? _____

11. Groundwater Management District recommendation attached?
 Yes No

12. Assisted by _____

13a. If the proposed point of diversion will be relocated more than 300 feet but within 2,640 feet of the existing point of diversion, attach a topographic map or aerial photograph. For groundwater sources, show all wells (including domestic) within one-half mile of the proposed point of diversion and the names and mailing addresses of the owners. For surface water sources, show the names and addresses of the landowner(s) one-half mile downstream and one-half mile upstream from your property lines



13b. If the proposed point of diversion will be relocated within a 300 foot radius of the existing point of diversion, indicate its location on the diagram shown above in relation to the existing point of diversion. The proposed point of diversion must be located within the circle shown above. **(PLEASE NOTE: The "X" in center of diagram above represents the presently authorized point of diversion.)**

14. If the proposed groundwater point of diversion is 300 or fewer feet from the existing point of diversion, complete the following:
- (a) Does the undersigned represent all owners of the currently authorized place(s) of use identified in this application?
 Yes No (If no, all owners must sign this application.)
 - (b) Will the ownership interest of any owner of the currently authorized place(s) of use identified in this application be adversely affected if this application is approved as requested?
 Yes No (If yes, all owners must sign this application.)
 - (c) If this application is not approved expeditiously, will there be substantial damage to property, public health or safety?
 Yes No (If no, all owners must sign this application.)

If the application proposes a surface water change in point of diversion, a groundwater change in point of diversion greater than 300 feet, or a change in place of use, the application must be signed by all owners of the currently authorized place of use, or their duly authorized agent (attach notarized statement authorizing representation).

I hereby verify, being first duly sworn upon my oath or affirmation and under penalty of perjury, that I am of lawful age and the owner, the spouse of the owner, or a duly authorized agent of the owner(s) to make this application on their behalf, in regards to the water right(s) to which this application pertains. I further verify that the statements contained in this application are true, correct and complete.

Dated at Garden City, Kansas, this 13th day of February, 2023.

[Signature]

 (Owner)

 (Spouse)

John Kleysteuber

 (Please Print)

 (Please Print)

 (Owner)

 (Spouse)

 (Please Print)

 (Please Print)

 (Owner)

 (Spouse)

 (Please Print)

 (Please Print)

State of Kansas }
 County of Finney } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 13th day of February, 2023.

My Commission Expires 

[Signature]

 Notary Public

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

FEE SCHEDULE

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

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

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. 22,727.

- 1. A change application was received on February 13, 2023 requesting that the place of use and / or point of diversion authorized under the above-referenced file number be changed as described in the application.
- 2. On and after the effective date of this summary order, the authorized place(s) of use shall be located substantially as shown on the topographic map accompanying the application to change the place of use. Applicable Not Applicable
- 3. The change in point of diversion shall not impair existing rights and shall be limited to the same source or sources of water as previously authorized. The point of diversion authorized by this summary order shall be located within a 50 foot radius of the authorized point(s) of diversion. Applicable Not Applicable
- 4. The point(s) of diversion described herein is administratively corrected to be more accurately described using the Global Positioning System (GPS), as described in the application. Applicable Not Applicable
- 5. The point(s) of diversion authorized herein shall not actually be located more than 300 feet from the previously authorized point(s) of diversion. Applicable Not Applicable
- 6. As required by K.A.R. 5-3-5d, if the works for diversion is a well with a diversion rate of 100 gallons per minute or more, a tube or other device suitable for making water level measurements shall be installed, operated and maintained in accordance with K.A.R. 5-6-13. Applicable Not Applicable
- 7. **The owner of the authorized place(s) of use shall properly install an acceptable water flow meter on or before December 31, 2023**, or before the first use of water, whichever occurs first. The water flow meter shall be installed, operated and maintained in accordance with K.A.R. 5-1-4 through 5-1-12. As required by K.S.A. 82a-732, as amended, and K.A.R. 5-3-5e, the owner shall maintain records and report the reading of the water flow meter and the total quantity of water diverted annually to the Chief Engineer by March 1 following the end of each calendar year. Applicable Not Applicable
- 8. **Installation of the works for diversion of water shall be completed on or before December 31, 2023**, or within any authorized extension of time. By March 1, 2024 the applicant shall notify the Chief Engineer that construction of the works for diversion has been completed, on the form provided by the Chief Engineer, as required by K.A.R. 5-8-4e. Applicable Not Applicable
- 9. **The completed well log shall be submitted with the required notice.** Applicable Not Applicable
- 10. All diversion works into which any type of chemical or other foreign substance will be injected into the water shall be equipped with an in-line, automatic, quick-closing check valve capable of preventing pollution of the source of the water supply. The check valve(s) shall be installed, operated and maintained in accordance with K.A.R. 5-3-5c. Applicable Not Applicable
- 11. Additional Conditions are attached. Yes No
- 12. In accordance with K.S.A. 82a-708a, as amended, and K.A.R. 5-5-14, all of the owners of the authorized place(s) of use of water appropriated under the above-referenced file number are responsible for compliance with its terms, conditions and limitations, as amended and/or supplemented by this Summary Order, and with applicable provisions of the *Kansas Water Appropriation Law* and the *Rules and Regulations* promulgated thereunder. Failure to comply with these provisions may result in civil penalties pursuant to K.S.A. 82a-737, as amended, and/or the suspension or revocation and dismissal of the water or appropriation right or any other enforcement actions authorized by law.

Administrative Appeal and Effective Date of Order

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

For Use by Register of Deeds

FOR OFFICE USE ONLY
**APPLICATION APPROVED AND
SUMMARY ORDER ISSUED**

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

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

Date of Issuance: February 22, 2023

State of Kansas)

County of Stinson) SS

Acknowledged before me on February 22, 2023
by Michael A. Meyer

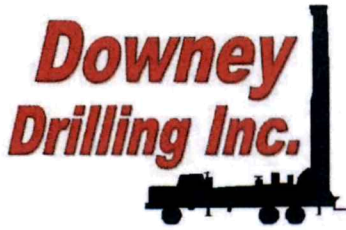
Signature: Julie Jones
Notary Public

My commission expires: _____



WELL LOG

DATE: 1/17/2023



CUSTOMER NAME: K2 INVESTMENTS WR #22727

LEGAL: NE 18-26S-31W

COUNTY: FINNEY CO., KS

GPS: 37.79053 N

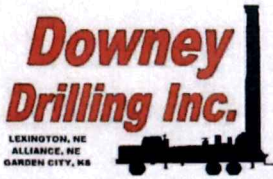
100.74777 W

DRILLER: CHRIS P.

WO: 22-1136

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	2	TOP SOIL	SOFT	DARK	FAST		SMOOTH
	2	11	SILTY CLAY	SOFT	TAN	FAST		SMOOTH
X	11	54	FINE-MED SAND	SOFT	RED	FAST		SMOOTH
	54	67	FINE-MED-COARSE SAND / TR-SANDY CLAY LAYERS	SOFT	RED	FAST		SMOOTH
	67	106	FINE-MED-COARSE SAND / FINE-MED GRAVEL / SOME COARSE-GRAVEL	SOFT	RED	FAST		SLIGHT VIBRATION
	106	118	SILTY-SANDY CLAY	FIRM	REDDISH	SLOW		SMOOTH
	118	140	FINE-MED-COARSE SAND	SOFT	RED	FASTER		SLIGHT VIBRATION
	140	154	FINE-MED-COARSE SAND / TR-FINE GRAVEL	SOFT	RED	FAST		VIBRATION
	154	158	SANDY CLAY	SOFT	REDDISH	SLOWER		SMOOTHER
	158	200	FINE-MED-COARSE SAND / FINE-GRAVEL	SOFT	RED	FASTER		SLIGHT VIBRATION
	200	214	FINE-MED-COARSE SAND / FINE-MED TR-COARSE GRAVEL	SOFT	RED	FAST		CHATTER
	214	222	SAND, SANDY CLAY	FIRM	TAN	SLOW		SMOOTHER
	222	276	FINE-MED-COARSE SAND / TR-FINE GRAVEL	SOFT	RED	FAST	31	CHATTER
	276	320	SILTY SANDY CLAY / FINE SAND LENSES	SOFT	TAN	SLOW		SMOOTHER
	320	338	CLAY (STICKY) PRESSURED UP	FIRM	TAN	SLOW		SMOOTHER
	338	345	FINE-MED SAND	SOFT	TAN	FAST	7	VIBRATION
	345	356	SANDY CLAY	FIRM	TAN	SLOW		SMOOTH
	356	374	FINE-MED-COARSE SAND	SOFT	RED	FAST	18	VIBRATION
	374	389	SANDY CLAY	FIRM	TAN	SLOW		SMOOTH
	389	392	CLAY (STICKY) PRESSURED UP	FIRM	TAN	SLOW		SMOOTH
	392	405	FINE-MED-COARSE SAND / FINE-GRAVEL	SOFT	RED	FAST	13	VIBRATION
	405	414	SANDY CLAY / TR-SAND	FIRM	TAN	SLOW		SMOOTHER
	414	437	BROWN ROCK / MED SAND / SANDSTONE	SOFT	TAN	FASTER	23	CHATTER
	437	444	SHALE	FIRM	GRAY	SLOWER		SMOOTH
	444	447	FINE SAND / SANDSTONE	SEMI-SOFT	TAN	FASTER	3	SLIGHT CHATTER
	447	461	BROWN CLAY / WEATHERED SHALE / TR. BROWN ROCK	SEMI-FIRM	BROWN	SLOWER		SMOOTHER
	461	468	BROWN ROCK / MED SAND / SANDSTONE	SOFTER	BROWN	FASTER	7	CHATTER
	468	473	SHALE	FIRM	GRAY	SLOW		SMOOTH
	473	490	BROWN ROCK / MED SAND / SANDSTONE	SOFTER	BROWN / TAN	FASTER	17	CHOPPY
	490	500	SHALE	HARD	GRAY	SLOW	X	CHOPPY
			2 - HOLE PLUG				119	
			1 - CASING SEAL					
			2 - LOADS OF WATER					

EST STATIC
@ 245



Well Design & Construction

"PROPOSED"
WR #22727

Customer Name: K-2 INVESTMENTS

Legal: NE 18-26S-31W

County: FINNEY

G.P.S.: 37.79053

Date: _____

-100.74777

WO #: _____

DRILLER: _____

WATER SUPPLY: IRRIGATION WELL

HELPER(S): _____

DRILLING RIG: M-100

BOREHOLE DIAMETER: 30"

DRILLING METHOD: REVERSE CIRCULATION

CASING DIAMETER: 16"

QUIKGEL: TBD

HOLE PLUG: 20'+

TOTAL WELL DEPTH: 510 FT.

GRAVEL: 105+ TON #1 COARSE

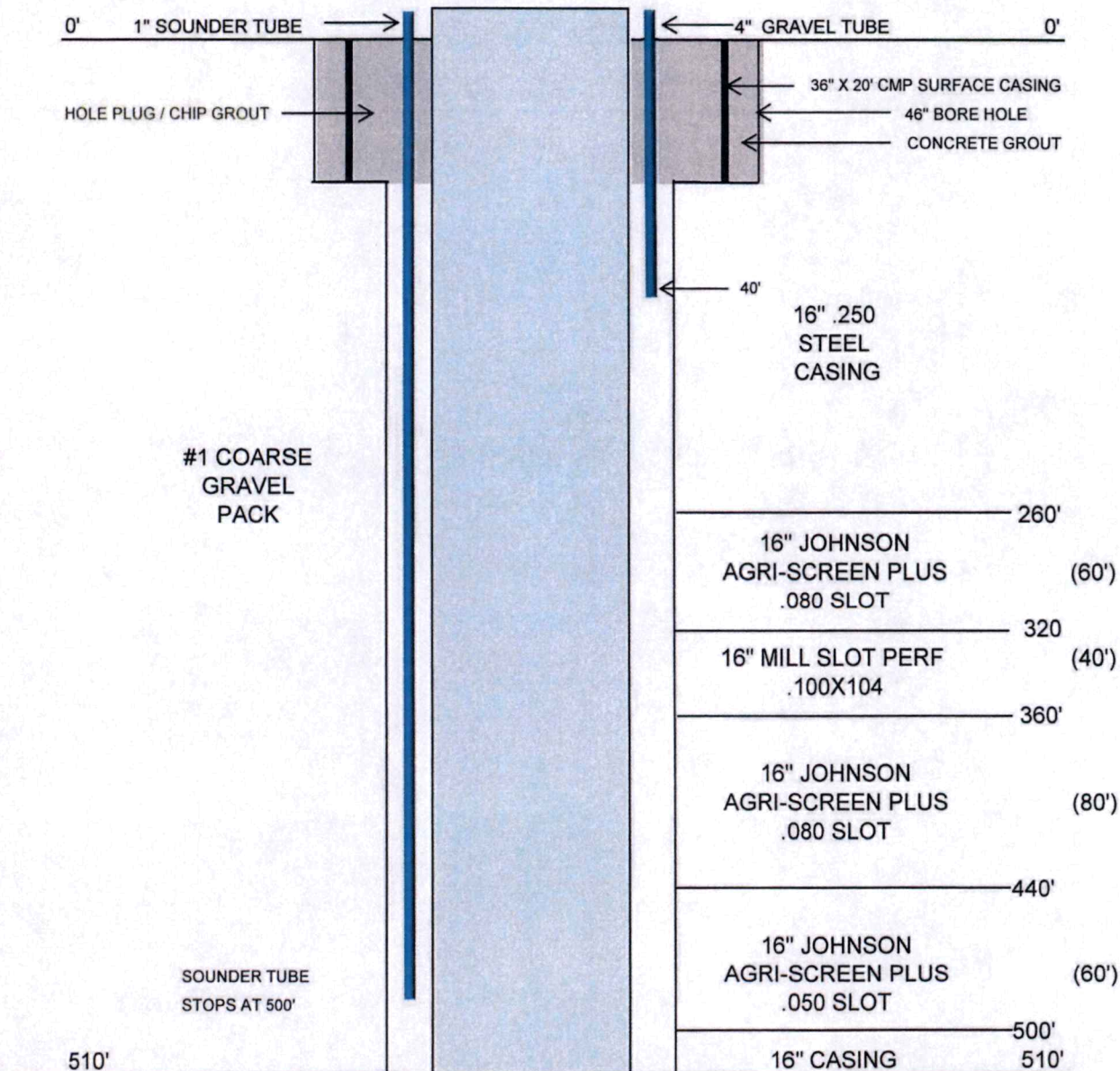
DRILLING FLUID: TBD

GRAVEL SUPPLIER: HUBER

ADDITIONAL INFO: 36" X 20' SURFACE CASING W/CONCRETE GROUT

GROUT AND GRAVEL

SCREEN AND CASING





Century GEOPHYSICAL CORP.

K2 INVESTMENTS

COMPANY : DOWNEY DRILLING INC
WELL : K2 INVESTMENT
LOCATION/FIELD : TH#1
COUNTY : FINNEY
LOCATION : NE
SECTION : 18

OTHER SERVICES:

TOWNSHIP : 26S RANGE : 31W

DATE : 01/17/23
DEPTH DRILLER : 500
LOG BOTTOM : 498.80
LOG TOP : 1.00

PERMANENT DATUM : GL

LOG MEASURED FROM: GL
DRL MEASURED FROM: GL

KB :
DF :
GL :

CASING DIAMETER : 10.
CASING TYPE :
CASING THICKNESS:

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

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

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

FILE : ORIGINAL
TYPE : 8144A
LGDATE: 01/17/23
LGTIME : 17:32:
THRESH: 99999

N 37.79053
W -100.74777

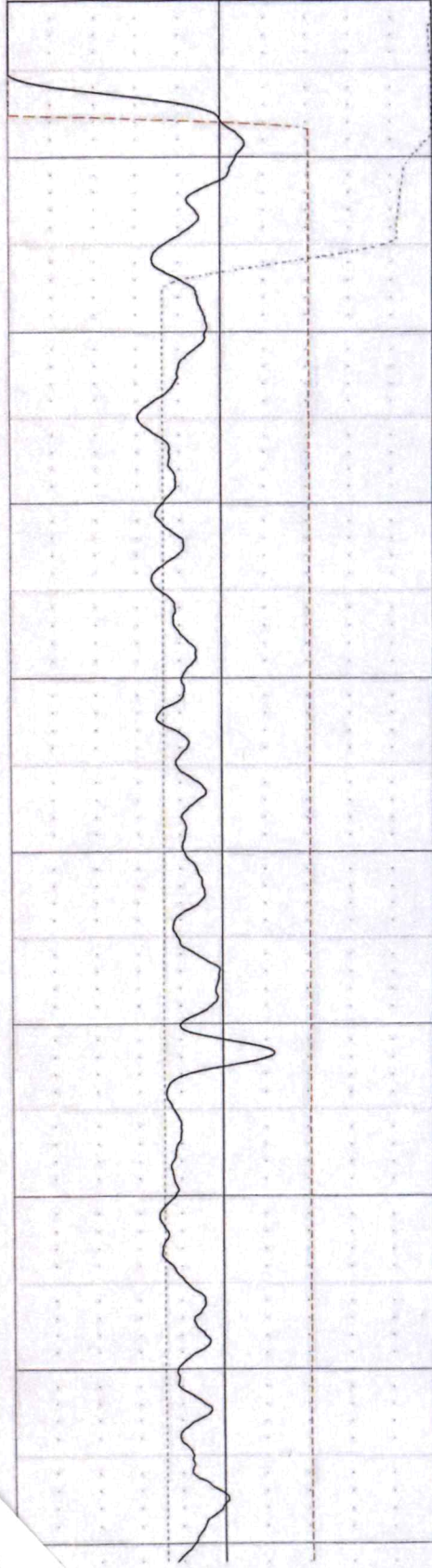
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

RES(FL)		
10	OHM-M	20
	SP	
-800	MV	-600
	GAMMA	
0	API-GR	200

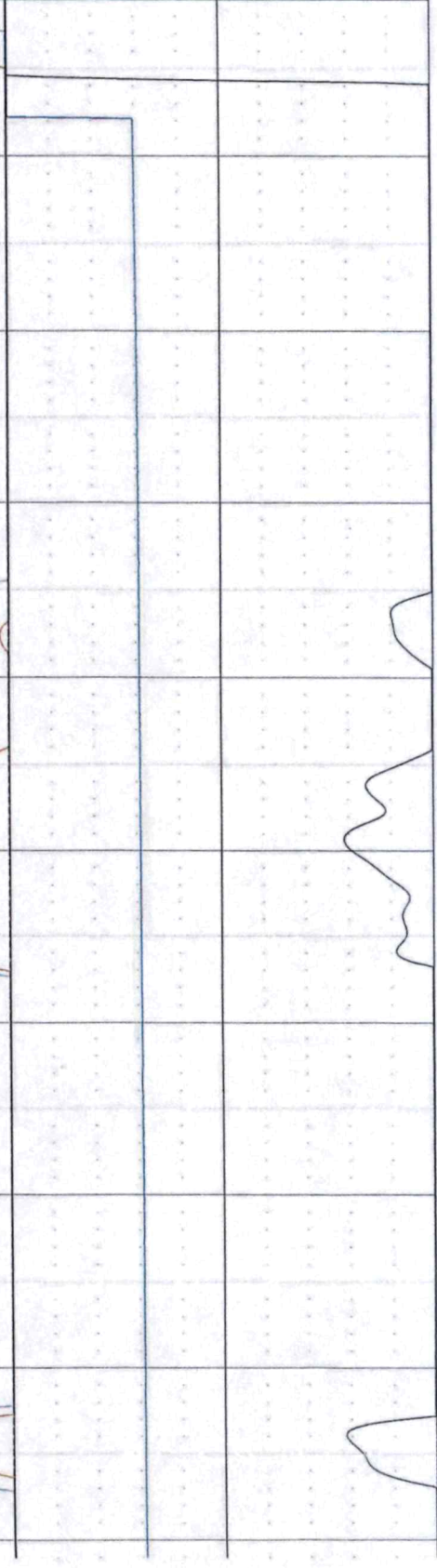
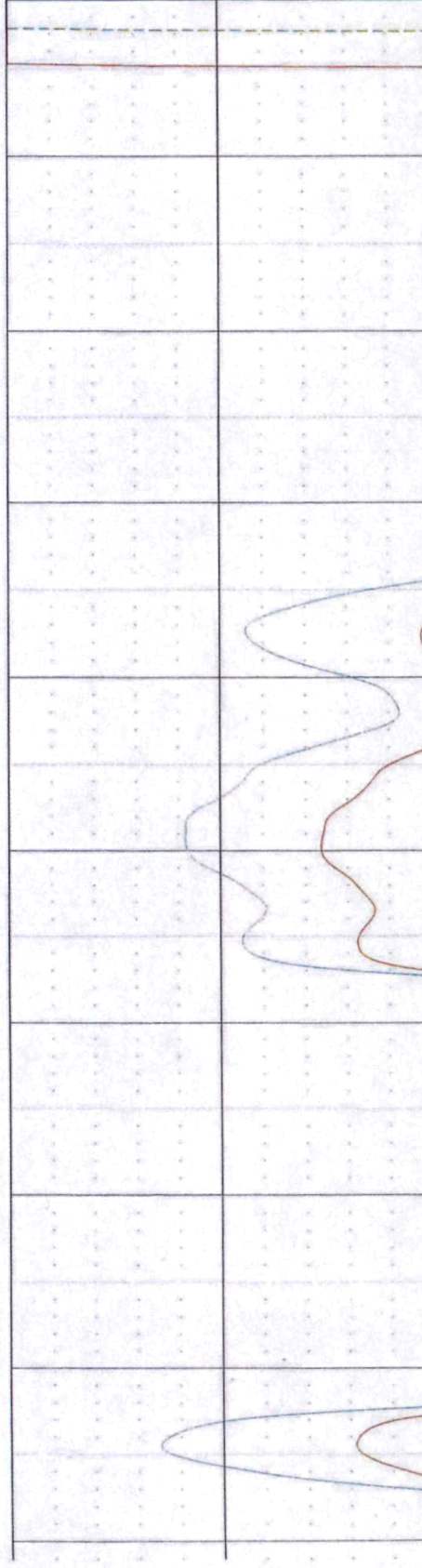
FEET

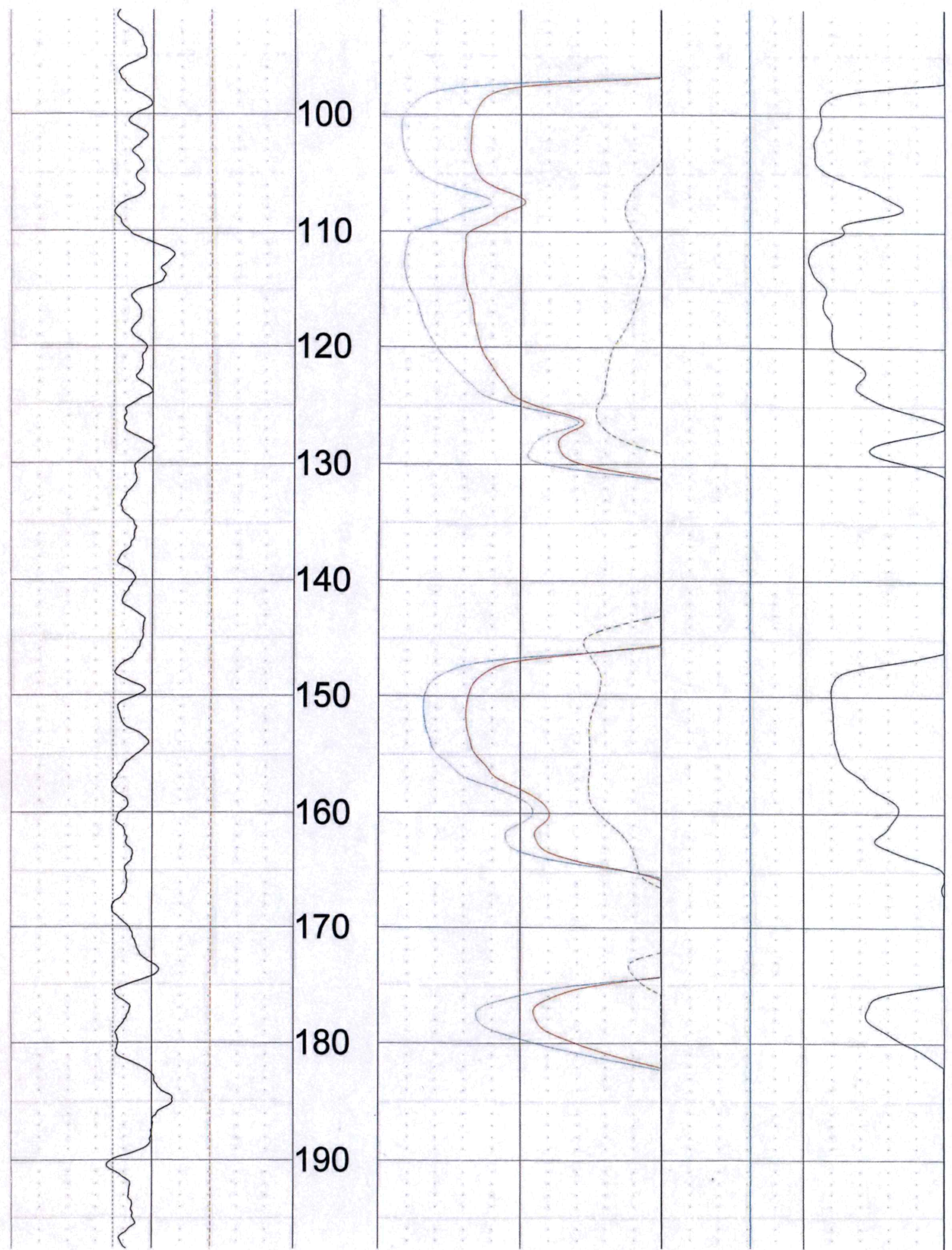
LATERAL		
0	OHM-M	100
	RES(64N)	
0	OHM-M	10060
	RES(16N)	
0	OHM-M	1000

TEMP		
	DEG_F	70
	RES	
	OHM	100



0
10
20
30
40
50
60
70
80
90

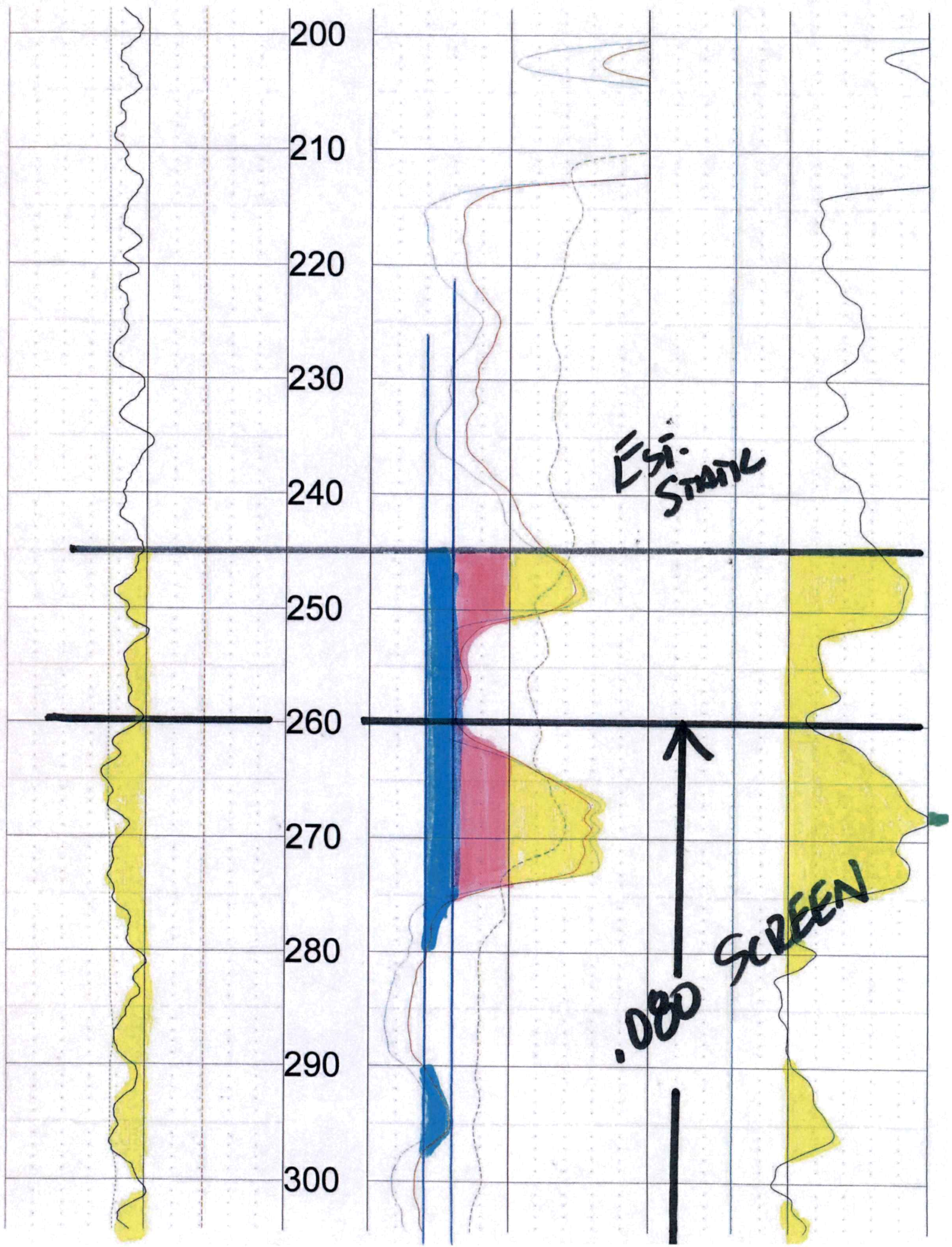




200
210
220
230
240
250
260
270
280
290
300

Est. Static

.080 SCREEN

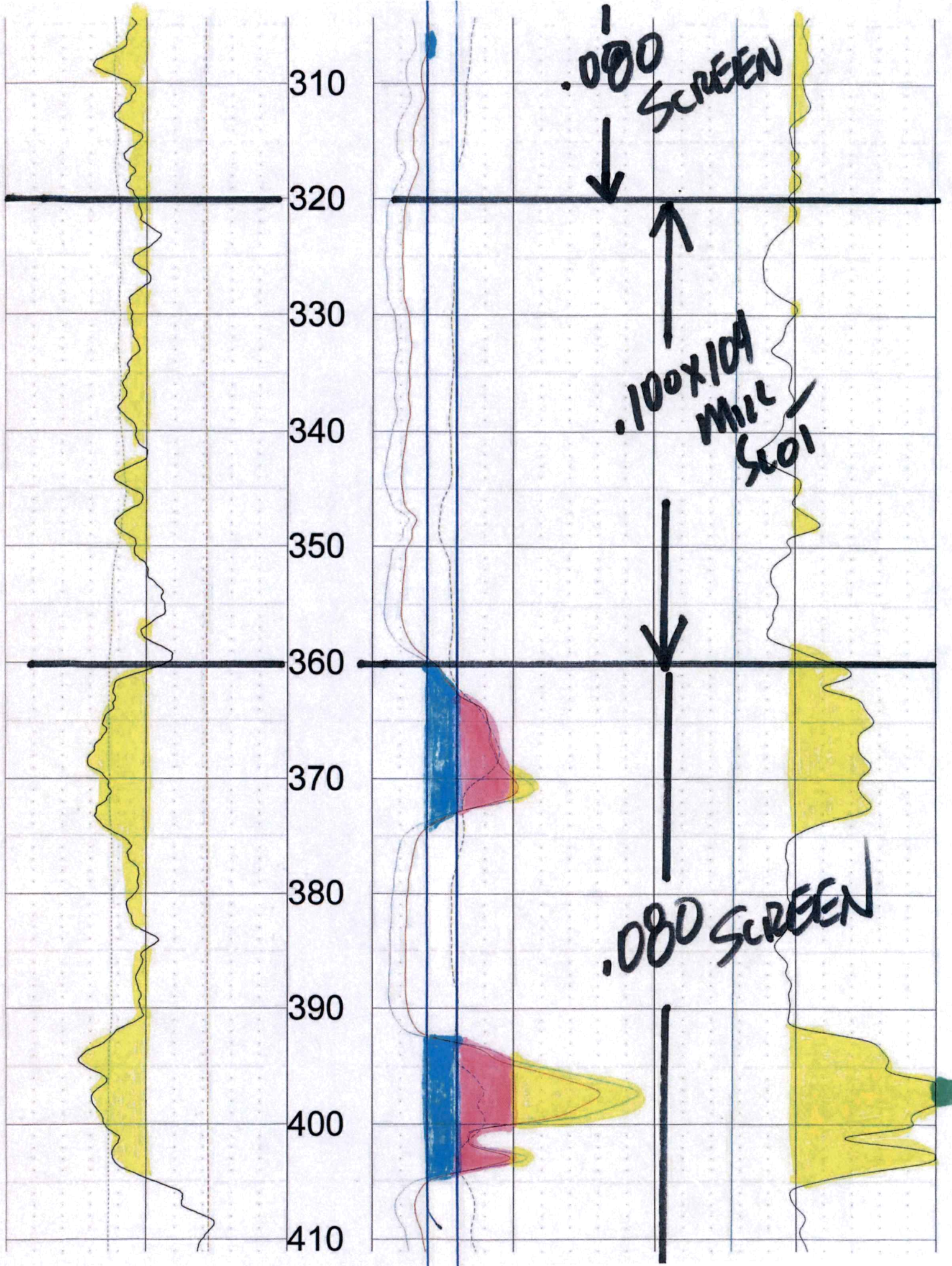


310
320
330
340
350
360
370
380
390
400
410

.000 SCREEN
↓

↑
.100x10A
MIL
SLOT

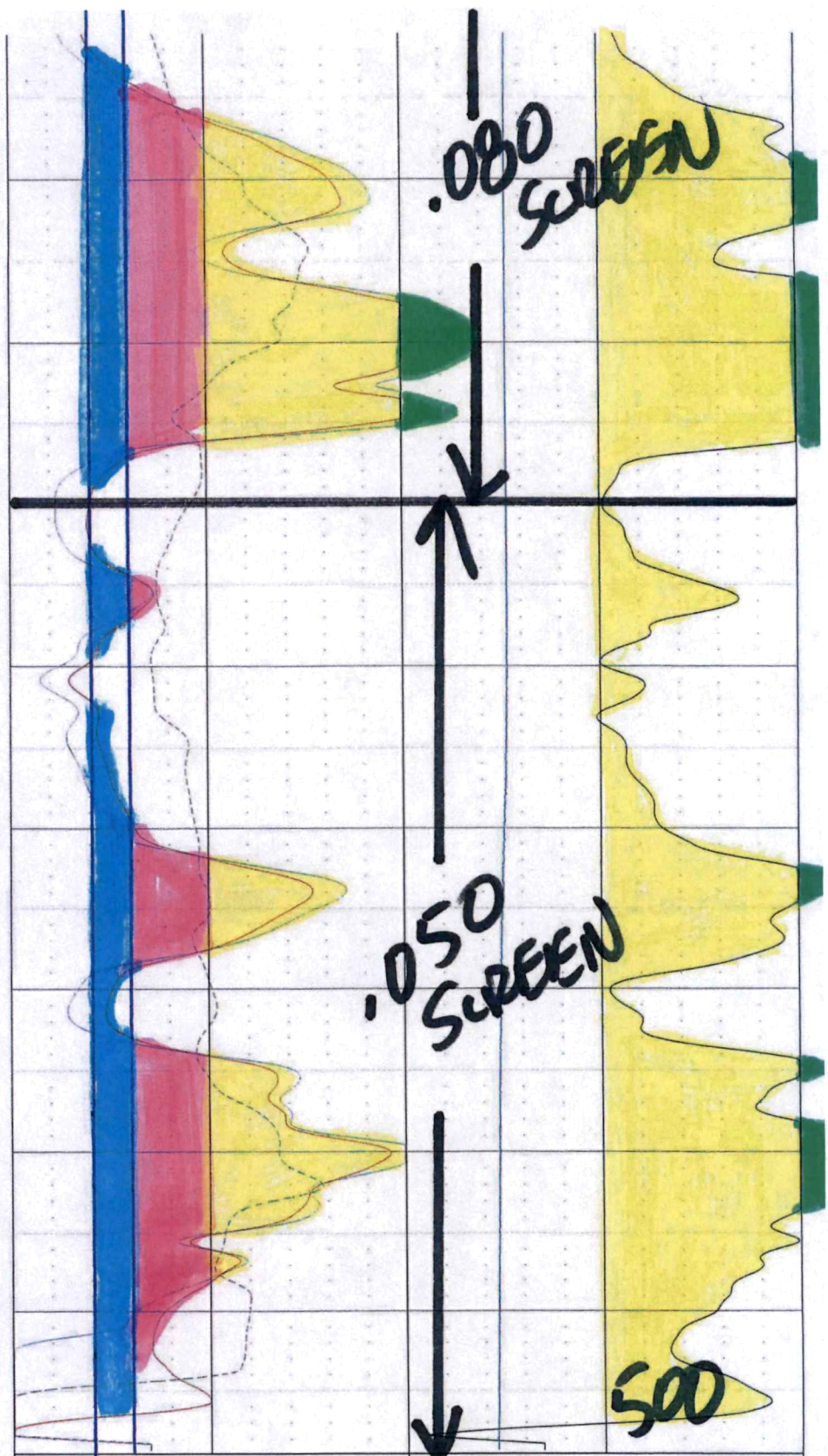
↓
.000 SCREEN



420
430
440
450
460
470
480
490
500

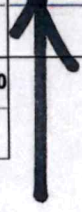
0	API-GR	200
	GAMMA	
-800	MV	-600
	SP	
10	OHM-M	20
	RES(FL)	

FEET



0	OHM-M	1000	OHM	100
	RES(16N)		RES	
0	OHM-M	10060	DEG F	510
	RES(64N)		TEMP	
0	OHM-M	100		
	LATERAL			

Sump



TOOL CALIBRATION K2 INVESTMENTS 01/17/23 17:32

TOOL 8144A TM VERSION 1

SERIAL NUMBER 365

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

DRILLERS TEST LOG

CUSTOMERS NAME Leo Kleysteuber DATE 8-14-74
 STREET ADDRESS 1017 North 2nd Street TEST # 1 E.L.Hole 420'
 CITY & STATE Garden City, Kansas DRILLER Rector
 COUNTY Finney QUARTER NE SECTION 18 TOWNSHIP 26 RANGE 31

LOCATION in Center of 1/4. Pivot Point not stacked yet.

%	Drilled from	Pay	Footage to	Description of Strata	Static Water Level Proposed Well Depth
	0		2	Top soil	
	2		20	Brown sandy clay	
	20		39	Sand fine med. coarse; med. small gravel.	
	39		57	Brown clay and caliche	
	57		100	Sand fine med. coarse, small gravel.	
	100		110	Brown clay and caliche	
20	110		120	Brown sandy clay and sand	
	120		124	Brown clay and caliche	
35	124	25	149	Sand fine med. coarse, small coarse, small gravel, fairly loose. Used water.	
	149		160	Brown clay and limerock and st. of gyp rock	
55	160	37	197	Sand fine med. coarse; small coarse, small gravel. Very fine clay st. Drilled little rough. Used water.	
	197		203	Brown and gray clay and limerock and sand.	
60	203	13	216	Sand fine med. coarse; small gravel. Loose. Used water.	
	216		223	Brown clay and limerock	
	223		240	Sand fine med. coarse, med., small gravel. and brown sandy clay, drilled tight. Used lots of water.	
65	240	12	252	Sand fine med. coarse; small coarse, small gravel. Real loose. Used lots of water.	
55	252	12	264	Sand fine med. coarse, small coarse, small gravel. Fine med. coarse, small coarse, small gravel and fine sandy clay. Drilled firm. Used water.	
	264		270	Brown clay and limerock	
25	270	6	276	Sand fine med. coarse. Loose. Used little water.	
	276		292	Brown clay and limerock	
45	292	6	298	Sand fine med. coarse; small coarse. Loose. Used lots of water.	
	298		420	Brown clay, limerock and few fine sand st.	
		111		Set up facing north Dig pit on east.	
				Total depth of well 300 Ft.	

GARDEN CITY, KANSAS
 PHONE 276-3278
 test holes
 stock wells

HENKLE DRILLING & SUPPLY CO., INC.
 IRRIGATION HEADQUARTERS

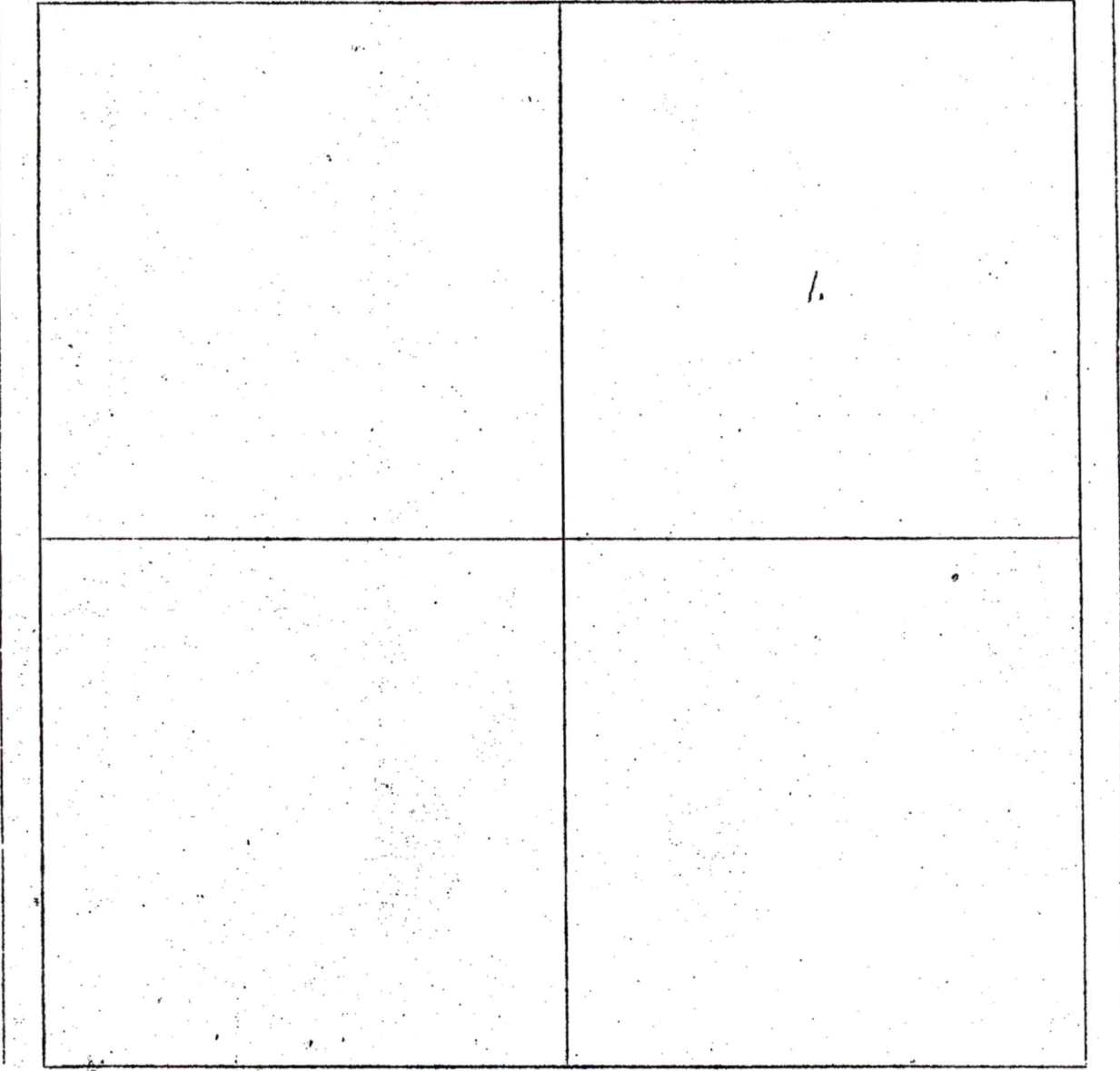
SUBLETTE, KANSAS
 PHONE 675-4311
 irrigation
 industrial

TEST HOLE MAP

HENKLE DRILLING & SUPPLY CO., INC.

CUSTOMER Lee R. Hester
ADDRESS 1017 N. 2nd St
Waskin City, Mo

TEST NO. 1
COUNTY Finnick
Qtr. NE Sec. 18 Twp. 26 Rg. 31



HENKLE DRILLING & SUPPLY CO., INC.

DRILLER Lee R. Hester

E.L.B.

TEST#1
W.D. 300'

LEO KLEYS TEUBER
NE 1/4-18-26-31-FINNEY CO.

8-21-74
PLAIN
.188

300' - 260'

^{.203}
16" MILL SLOT 1/8" SLOT
40'

260' - 240'

^{.188}
16" DOFAR TYPE 1/8" SLOT
20'

240' - 220'

^{.203}
16" MILL SLOT 1/8" SLOT
20'

220' - 160'

^{.188}
16" DOFAR TYPE 1/8" SLOT
60'

160' - 0'

GRAVEL PAK
1/2" DOWN

140'	160'
	PLAIN 160'
	PERF. 140'
	TOTAL 300'

Meyer, Mike [KDA]

File No. 22,727

Subject: FW: FW: well log

From: Wilson, Blake Brownie <bwilson1@ku.edu>
Sent: Tuesday, February 21, 2023 6:14 PM
To: Meyer, Mike [KDA] <Mike.Meyer@ks.gov>
Subject: FW: FW: well log

EXTERNAL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

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

From: "Whittemore, Donald O." <dwhitt@ku.edu>
Date: 2/21/23 6:02 PM (GMT-06:00)
To: "Wilson, Blake Brownie" <bwilson1@ku.edu>
Subject: Re: FW: well log

Brownie,

My guess is that the sandstone and shale starting at 414 ft is the Dakota. The Graneros shale is usually blue-gray, to light to dark gray, to black. A little sandstone occurs in the Graneros; based on test hole log #18 KGS Bulletin 55 on Finney and Gray counties, even the thin sandstone unit present is dark gray.

From 414 to 437 ft in the log Mike sent is brown rock/med sand/sandstone with a tan color. This sounds more like Dakota strata and is too thick for a sandstone in the Graneros.

My guess is that there is no Graneros Shale in the log.

I will check on Macfarlane's strata maps when I come into the office to work on modifying contours in the sulfate and uranium maps based on additional KGS uranium data for the mid-1970s and NURE sulfate and uranium data for the late 1970s. You have already added points to the uranium map for the KGS data. Have you had an opportunity to add the NURE points to the sulfate and uranium maps based on the data I sent you on January 22nd?

Don

On 2/15/2023 8:42 AM, Wilson, Blake Brownie wrote:

> Hi Don,

>

> Mike Meyer is looking for an opinion on if the graneros shale starts at 437 or not. The contact between the unconfined vs confined portion of the Dakota occurs in this section so I'm assuming this has water right ramifications.

>
> You've helped answer questions like this before so I thought I would hit you up first. Another option is I can send this to Jon Smith.
>
> Any thoughts?
>
> Thanks,
>
> Brownie
>
>
> -----Original Message-----
> From: Meyer, Mike [KDA] <Mike.Meyer@ks.gov>
> Sent: Tuesday, February 14, 2023 9:34 AM
> To: Wilson, Blake Brownie <bwilson1@ku.edu>
> Subject: well log
>
> Thank you
> Again, need to know if the granerous shale is at the 437' mark or not. HPA apparently ends right at 414'.
>
> Mike

--
Donald Whittemore Office Phone 785-864-2182
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University of Kansas
1930 Constant Ave.
Lawrence, KS 66047-3726

Vita: <http://www.kgs.ku.edu/General/Personnel/tw/whittemore.html>

Google Scholar:

<https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fscholar.google.com%2Fquotations%3Fhl%3Den%26user%3D0TTb95UAAAAJ&data=05%7C01%7Cbwilson1%40ku.edu%7C40b7138f743b4cae712308db1468186a%7C3c176536afe643f5b96636feabbe3c1a%7C0%7C0%7C638126209547645636%7CUnknown%7CTWFpbGZsb3d8eyJWljojoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=NxRLI%2BwQ1mdTW2lcOi9ydt9%2BwGylD58Xwq5e8%2BWrYWI%3D&reserved=0>

Web sites:

KGS: <http://www.kgs.ku.edu/>

Water Information: <http://www.kgs.ku.edu/Hydro/hydroIndex.html>