

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

| | | | | |
|----------------------------------|--|-----------------------------|------------------------------|---------------------|
| 1. File Number: FO 023 | 2. Status Change Date: <i>5-24-2024</i> | 3. Change Num: C2 | 4. Field Office: 2 | 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: 5/23/2024 |
|--|---|

| | |
|---|---|
| 8a. Landowner, applicant New to system <input type="checkbox"/> Person ID <u>14030</u> Add Seq# _____ GRANT JR & BONNIE POWERS 11361 130 RD SPEARVILLE, KS 67876-8743 | 8c. Landowner(s) New to system <input type="checkbox"/> Person _____ Add Seq# _____ |
|---|---|

| | |
|---|---|
| 8b. Landowner(s), New to system <input type="checkbox"/> Person ID _____ Add Seq# _____ | 8d. WUC New to system <input type="checkbox"/> Person ID <u>14030</u> Add Seq# _____ 8a |
|---|---|

9. Documents and Enclosure(s): DWR Meter(s) Date to Comply: 12/31/2024 N & P Date to Comply: 3/1/2025

Anti-Reverse Meter Meter Seal 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: _____

Date Prepared: **5/23/2024** By: **MAM**

Date Entered: _____ By: _____

File No. **FO 023** 11. County: **FO** Basin: **ARKANSAS RIVER** Stream: Formation Code: **113/211** Special Use: **016**

12. Points of Diversion
 Rate and Quantity
 Authorized Additional
 Rate Quantity Rate Quantity
 gpm af gpm af Overlap PD Files

DEL 7615

| ENT | Qualifier | S | T | R | ID | 'N | 'W | Comment (AKA Line) | Rate gpm | Quantity af | Rate gpm | Quantity af | Overlap PD Files |
|-----|---------------|-----------|-----------|------------|----|------------|-------------|--------------------|------------|-------------|------------|-------------|------------------|
| | SWSWSW | 33 | 26 | 25W | | 144 | 4995 | | 900 | 80 | 900 | 80 | NONE |

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

14. Limitation: _____ af/ 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 24335 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Base Acres: Year: Minimum Reasonable Quantity:
 Comments:

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



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

Mike Beam, Secretary

Laura Kelly, Governor

May 24, 2024

GRANT JR & BONNIE POWERS
11361 130 RD
SPEARVILLE, KS 67876-8743

RE: Field Office Application for Change
Vested Right, File No. FO 023

Dear Sir and 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.

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 24th day of May 2024, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Vested Right, File No. FO 023 dated 24th day of May 2024 was mailed postage prepaid, first class, US mail to the following:

GRANT JR & BONNIE POWERS
11361 130 RD
SPEARVILLE, KS 67876-8743

_____

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. FO-23

RECEIVED
 11:45 am
 MAY 23 2024

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: Grant Jr & Bonnie Powers

11361 130 RD Spearville KS 67876

Phone Number: () _____ Email address: _____

Name and address of Water Use Correspondent: Grant Jr & Bonnie Powers TIM 620-561-1112

11361 130 RD Spearville KS 67876

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 CLT Fee \$ 100.00 TR # _____ Receipt Date 5-23-24 Check # 2511

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).

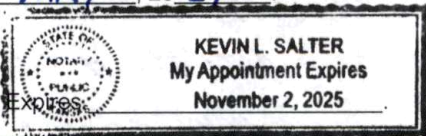
I hereby verify, being first duly sworn upon my oath or affirmation and under penalty of perjury, that I am of lawful age and the owner, the spouse of the owner, or a duly authorized agent of the owner(s) to make this application on their behalf, in regards to the water right(s) to which this application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

Dated at Lawrence City, Kansas, this 23 day of May, 2024.

| | |
|---|---|
| <p><u>Timothy Powers</u> (Owner)</p> <p><u>Timothy Gene Powers</u> (Please Print)</p> <p>_____ (Owner)</p> <p>_____ (Please Print)</p> <p>_____ (Owner)</p> <p>_____ (Please Print)</p> | <p>_____ (Spouse)</p> <p>_____ (Please Print)</p> <p>_____ (Spouse)</p> <p>_____ (Please Print)</p> <p>_____ (Spouse)</p> <p>_____ (Please Print)</p> |
|---|---|

State of Kansas }
 County of FENNER } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 23rd day of MAY, 2024.



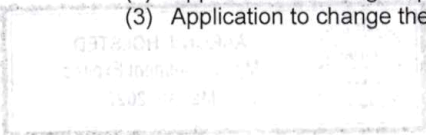
Kevin L. Salter
 Notary Public

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. 23-00 FO FO 023.

1. A change application was received on May 23, 2024 requesting that the place of use and / or point of diversion authorized under the above-referenced file number be changed as described in the application.
2. On and after the effective date of this summary order, the authorized place(s) of use shall be located substantially as shown on the topographic map accompanying the application to change the place of use. Applicable Not Applicable
3. The change in point of diversion shall not impair existing rights and shall be limited to the same source or sources of water as previously authorized. The point of diversion authorized by this summary order shall be located within a 50 foot radius of the authorized point(s) of diversion. Applicable Not Applicable
4. The point(s) of diversion described herein is administratively corrected to be more accurately described using the Global Positioning System (GPS), as described in the application. Applicable Not Applicable
5. The point(s) of diversion authorized herein shall not actually be located more than 300 feet from the previously authorized point(s) of diversion. Applicable Not Applicable
6. As required by K.A.R. 5-3-5d, if the works for diversion is a well with a diversion rate of 100 gallons per minute or more, a tube or other device suitable for making water level measurements shall be installed, operated and maintained in accordance with K.A.R. 5-6-13. Applicable Not Applicable
7. **The owner of the authorized place(s) of use shall properly install an acceptable water flow meter on or before December 31, 2024**, 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, 2024**, or within any authorized extension of time. By March 1, 2025 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: May 24, 2024

State of Kansas)

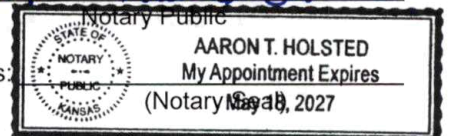
County of Finney) SS

Acknowledged before me on May 24, 2024

by Michael A Meyer

Signature: Aaron Holsted
Notary Public

My commission expires: May 18, 2027
(Notary Public)



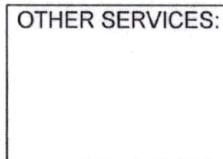


Century GEOPHYSICAL CORP.

TIM POWERS

COMPANY : DOWNEY DRILLING INC
WELL : TIM POWER
LOCATION/FIELD : TH#3-24
COUNTY : FORD
LOCATION : SWSAS
SECTION : 33

OTHER SERVICES:



TOWNSHIP : 26S RANGE : 25W

DATE : 05/21/24
DEPTH DRILLER : 175
LOG BOTTOM : 157.50
LOG TOP : 0.90

PERMANENT DATUM : GL

LOG MEASURED FROM: GL

DRL MEASURED FROM: GL

KB :
DF :
GL : 2820

CASING DIAMETER : 10.
CASING TYPE : SURFACE
CASING THICKNESS:

LOGGING UNIT : 2310
FIELD OFFICE : O'DRISCOL
RECORDED BY : DIEGO

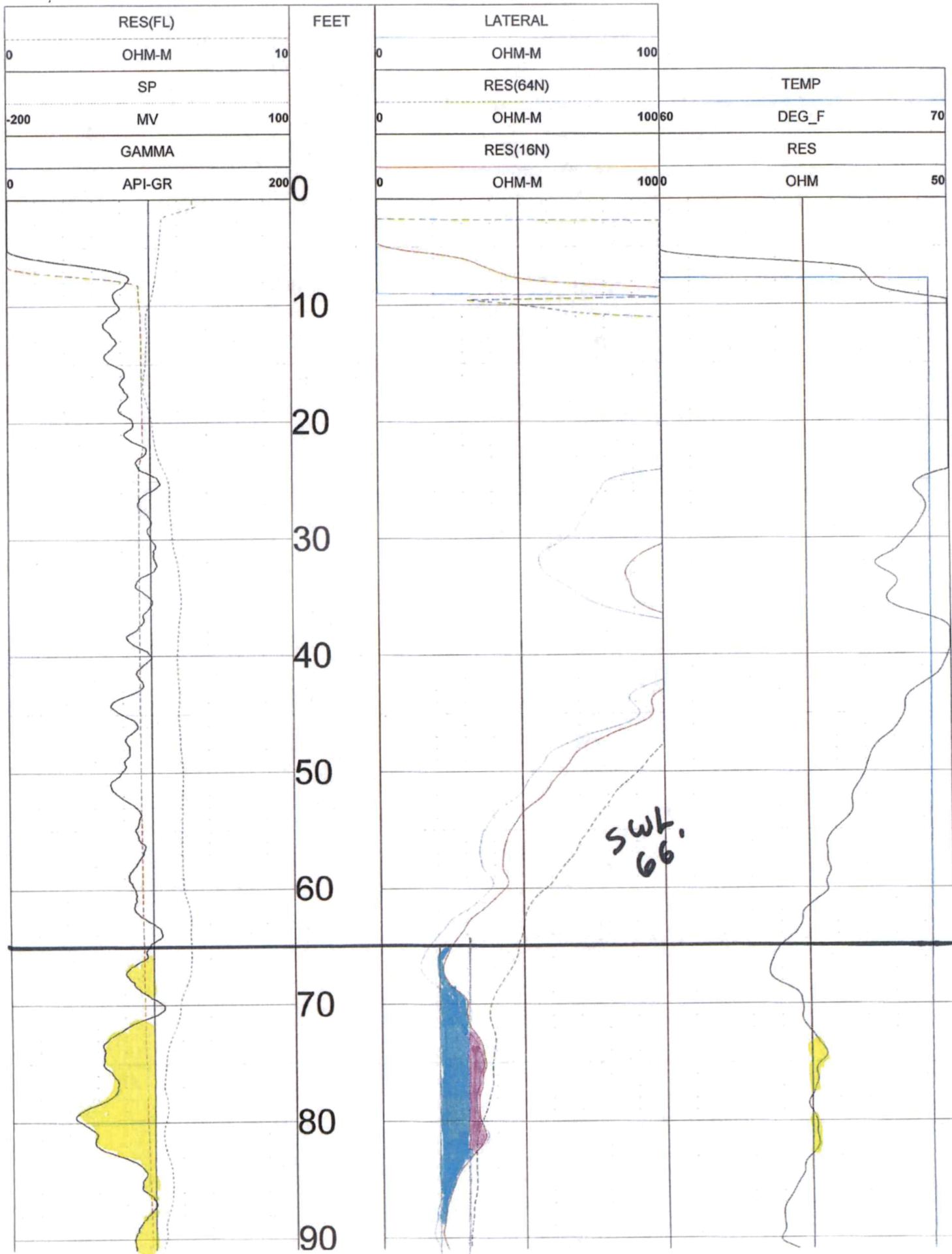
BIT SIZE : 6.25
MAGNETIC DECL. : 0
MATRIX DENSITY : 2.71
NEUTRON MATRIX : LIMESTON

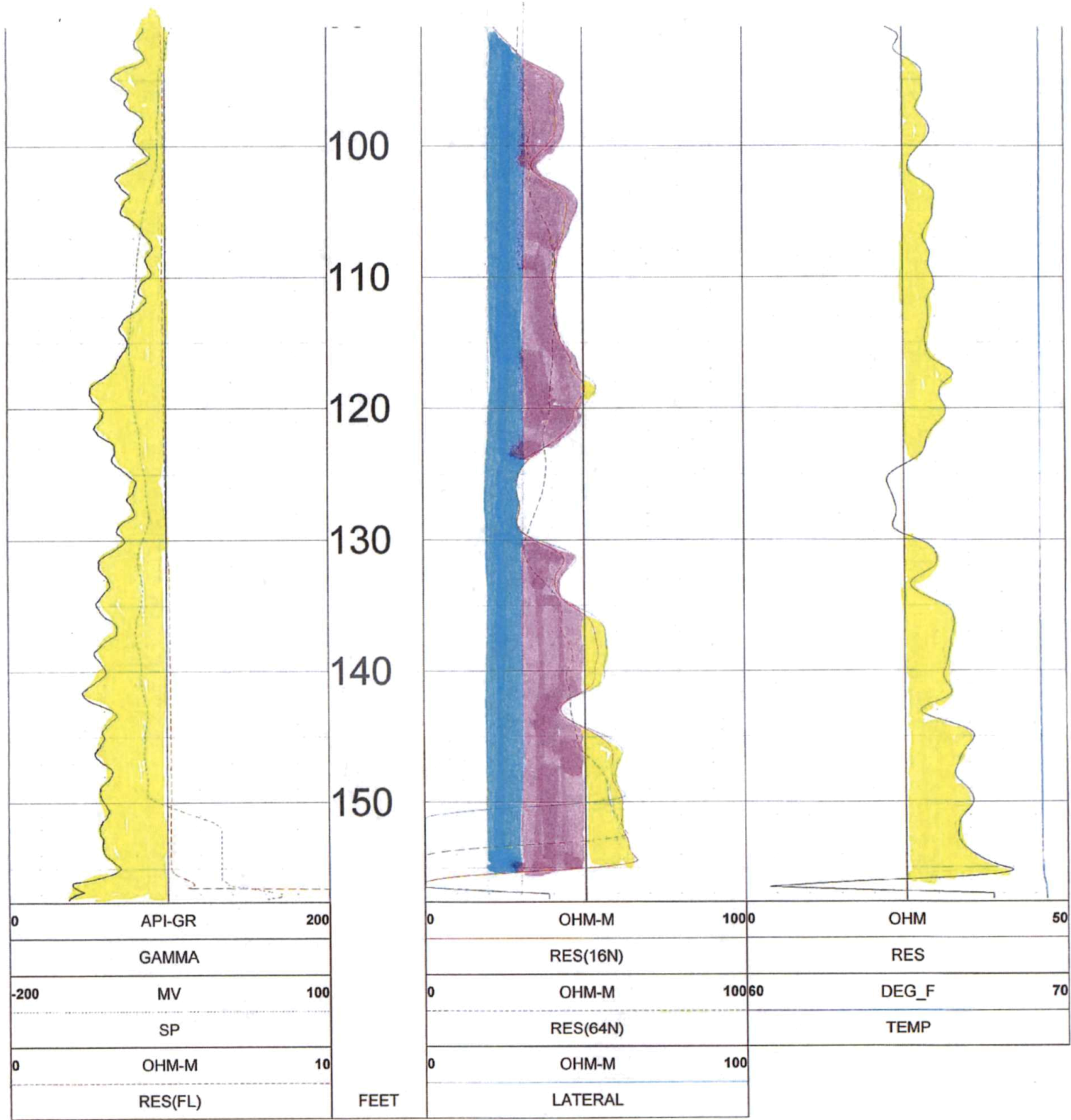
BOREHOLE FLUID : MUD
RM : .179
RM TEMPERATURE : 68.5
MATRIX DELTA T : 49

FILE : ORIGINAL
TYPE : 8144A
LGDATE: 05/21/24
LGTIME : 13:29:
THRESH: 99999

GPS 37.736912, -100.06888

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



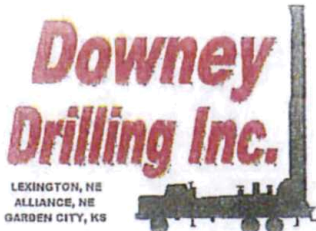


TOOL CALIBRATION TIM POWERS 05/21/24 13:29
TOOL 8144A TM VERSION 3002
SERIAL NUMBER 365

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

WELL LOG

DATE: 5/17/24



CUSTOMER NAME: Tim Powers TH#1-24

LEGAL: SW 33-26S-25W

COUNTY: Ford Co, KS

GPS: _____



DRILLER: Dieso WO: 24-575

| TW | FROM | TO | TYPE | HARDNESS | COLOR | SPEED | PULL DOWN | OTHER / DRILLING ACTION |
|----|------|-----|--------------------------------------|----------|----------------|-------|----------------|-------------------------|
| | 0 | 3 | Top soil | soft | Dark brown | fast | | smooth |
| | 3 | 9 | FMc sand | firm | | " | | chopper |
| | 9 | 21 | F gravel w/ FMc sand | stiff | | " | slight chatter | |
| | 21 | 25 | brown clay | soft | brown | " | | smooth |
| | 25 | 38 | F gravel | firm | | " | | chatter |
| | 38 | 55 | FMc sand w/ F gravel & cemented sand | stiff | | " | | fast chatter |
| | 55 | 61 | cemented sand | | | | | |
| | 61 | | lost circulation @ 75' TD 80' | GIPS | 37.737012 | | | |
| | | | CBT-9 SA-1 Hole plug-2 | | -100.009633 | | | |
| | | | Water loads - 2 1/2 CS-1 | | | | | |
| | 0 | 3 | Top soil | soft | Dark brown | fast | | smooth |
| | 3 | 11 | FMc sand | firm | | " | | chopper |
| | 11 | 16 | FM gravel w/ FMc sand | stiff | | " | slight chatter | |
| | 16 | 21 | F gravel w/ FM sand | " | | " | fast chatter | |
| | 21 | 25 | brown clay | soft | brown | " | | smooth |
| | 25 | 38 | F gravel | stiff | | " | | chatter |
| | 38 | 55 | FMc sand w/ F gravel | firm | | " | | fast chatter |
| | 55 | 61 | FM sand w/ cemented sand | stiff | | slow | | chatter |
| | 61 | 77 | Sandy clay w/ F sand | soft | brown | fast | smooth | vibration |
| | 77 | 82 | FMc sand w/ lime rock | firm | white | " | | fast chatter |
| | 82 | 96 | white & brown sandy clay | soft | white & brown | " | | smooth |
| | 96 | 115 | FMc sand | firm | | " | | fast chatter |
| | 115 | 129 | white sandy clay | soft | white | " | | smooth |
| | 129 | | brown rock w/ sandstone & lime rock | stiff | brown & yellow | " | | fast chatter |
| | | | lost circulation @ 145' TD 152' | GIPS | 37.737068 | | | |
| | | | CBT-23 | | -100.009585 | | | |
| | | | Water loads - 3 1/2 | | | | | |
| | | | SA-1 | | | | | |
| | | | Bian-7 | | | | | |
| | | | Quik toll - 1 bag | | | | | |
| | | | EZ mud - 1/4 gallon | | | | | |
| | | | Hole plug - 2 CS-1 | | | | | |

WELL LOG

DATE: 5/21/24

**Downey
Drilling Inc.**

LEXINGTON, NE
ALLIANCE, NE
GARDEN CITY, KS



FA * FD

CUSTOMER NAME: Tim Powers TH#3-24

LEGAL: SW 33-26S-25W

COUNTY: Ford Co, KS

GPS: 37.736912

-100.068885

DRILLER: Dieso

WO: 24-575

| TW | FROM | TO | TYPE | HARDNESS | COLOR | SPEED | PULL DOWN | OTHER / DRILLING ACTION |
|----|------|-----|---|----------|----------------|-------|-----------|-------------------------|
| | 0 | 4 | Top soil | soft | dark brown | fast | | smooth |
| | 4 | 11 | FMC sand w/ f. gravel | firm | | " | | chippy |
| | 11 | 16 | FM gravel w/ FMC sand | stiff | | " | slight | chatter |
| | 16 | 23 | brown clay | soft | brown | " | | smooth |
| | 23 | 27 | FMC sand | firm | | " | | fast chatter |
| | 27 | 39 | sandy clay w/ F sand | soft | brown | " | smooth | vibration |
| | 39 | 49 | FMC sand w/ F gravel & cemented sand ledges | stiff | | slow | | fast chatter |
| | 49 | 57 | FM sand | soft | | fast | | chippy |
| | 57 | 61 | cemented sand | stiff | | slow | | chatter |
| | 61 | 77 | sandy clay w/ F sand | soft | tan | fast | smooth | vibration |
| X | 77 | 82 | FMC sand w/ lime rock | firm | white | " | | fast chatter |
| | 82 | 96 | white & brown sandy clay | soft | white & brown | " | | smooth |
| | 96 | 115 | FMC sand | firm | | " | | fast chatter |
| | 115 | 129 | white sandy clay w/ f. sand | soft | white | " | smooth | vibration |
| | 129 | 142 | brown rock w/ sandstone & lime rock | stiff | brown & yellow | " | | chatter |
| | 142 | 146 | white sandy clay | soft | white | " | | smooth |
| | 146 | 165 | f gravel w/ brown rock / sandstone & lime rock | stiff | | " | | chatter |
| | 165 | 168 | weathered clay | soft | gray & yellow | slow | | smooth |
| | 168 | 172 | black shale | " | black | " | | " |
| | 172 | 175 | gray clay | " | gray | " | | " |
| | | | Q61-11 | | | | | |
| | | | Water loads - 1 1/2 | | | | | |
| | | | SA - 1/2 | | | | | |
| | | | Bran - 4 | | | | | |
| | | | Gunk troll - 2 bags | | | | | |
| | | | lime - 4 ceps | | | | | |
| | | | E2 mud - 1/2 gallon | | | | | |
| | | | Hole plug - 2 | | | | | |
| | | | CS-1 | | | | | |