

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

|                                 |  |                             |                               |                      |
|---------------------------------|--|-----------------------------|-------------------------------|----------------------|
| 1. File Number:<br><b>18484</b> | 2. Status Change Date:<br><i>1-26-2021</i> | 3. Change Num:<br><b>C1</b> | 4. Field Office:<br><b>04</b> | 5. GMD:<br><b>03</b> |
|---------------------------------|--|-----------------------------|-------------------------------|----------------------|

|  |   |
|--|---|
| 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:<br><b>1/19/2021</b> |
|--|---|

|   |   |
|---|---|
| 8a. LANDOWNER, applicant<br>New to system <input type="checkbox"/><br><br><b>CULLISON ET AL</b><br><b>PO BOX 367</b><br><b>SATANTA, KS 67870-0367</b> | 8c. LANDOWNER<br>New to system <input type="checkbox"/><br><br>Person ID <b>64717</b><br>Add Seq# _____ |
|---|---|

|  |   |
|--|---|
| 8b. Landowner(s),<br>New to system <input type="checkbox"/><br><br>Person ID _____<br>Add Seq# _____ | 8d. correspondent,<br>New to system <input type="checkbox"/><br><br><b>DELL A CULLISON</b><br><b>2345 ROAD AA</b><br><b>MOSCOW, KS 67952-5212</b> |
|--|---|

9. Documents and Enclosure(s):  DWR Meter(s) Date to Comply: **12/31/2021**     N & P Date to Comply: **3/1/2022**

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: **1/25/2021**    By: **MAM**  
 Date Entered: \_\_\_\_\_    By: \_\_\_\_\_

File No. **18484**      11. County: **SV**      Basin: **CIMARRON RIVER**      Stream: \_\_\_\_\_      Formation Code: **211/331**      Special Use: \_\_\_\_\_

12. Points of Diversion  
**CHK**      Rate and Quantity  
**MOD**      Authorized      Additional  
**DEL**      PDIV      Qualifier      S      T      R      ID      'N      'W      **Comment (AKA Line)**      Rate      Quantity      Rate      Quantity  
**ENT**      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_  
 gpm      af      gpm      af      Overlap PD Files

DEL 18871

ENT      **SWSNW**      20      31      35W      2779      3746      1090      172      0      172      12559

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<br><b>CHK</b><br><b>MOD</b><br><b>DEL</b><br><b>ENT</b> | 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 37560  |      |   |   |   |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |               |
|  |      |   |   |   |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |               |
|  |      |   |   |   |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |               |
|  |      |   |   |   |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |               |
|  |      |   |   |   |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |               |
|  |      |   |   |   |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |               |

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

January 26, 2021

CULLISON ET AL  
PO BOX 367  
SATANTA, KS 67870-0367

RE: Water Right, File Nos. 12559, 18484 & 21360

Dear Sir and Madam:

Enclosed are orders executed by the designee of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the applications for change under the above referenced file numbers.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in the approval for change. A condition of the approval is that an acceptable water 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 orders modify the original documents referred to above, they 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  
pc:

Dell Cullison

GMD3

**CERTIFICATE OF SERVICE**

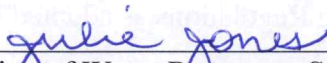
On this 26<sup>th</sup> day of January 2021, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File Nos. 12559, 18484, and 21360 dated 26<sup>th</sup> day of January 2021 was mailed postage prepaid, first class, US mail to the following:

CULLISON ET AL  
PO BOX 367  
SATANTA, KS 67870-0367

Pc:

DELL A CULLISON  
2345 ROAD AA  
MOSCOW, KS 67952-5212

GROUNDWATER MANAGEMENT DISTRICT NO. 3

  
\_\_\_\_\_  
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. 18484

**RECEIVED**  
 1:01 pm  
 JAN 19 2021

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: <sup>J.W.</sup> CULLISON ET AL

PO BOX 367 SATANTA KS 67870-0367

Phone Number: (620) 544-5499

Email address: the farm @ pld.com

Name and address of Water Use Correspondent: DELL A CULLISON

2345 ROAD AA MOSCOW KS 67952-5212

Phone Number: (     )

Email address: \_\_\_\_\_

3. The presently authorized place of use is:

Owner of Land --- NAME: NO CHANGE / SAME AS ABOVE

ADDRESS: 96 JW Cullison PO Box 367 Satanta Ks 67870

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

| Sec. | Twp. | Range | NE 1/4 |        |        |        | NW 1/4 |        |        |        | SW 1/4 |        |        |        | SE 1/4 |        |        |        | TOTAL ACRES |  |  |
|------|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--|--|
|      |      |       | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 |             |  |  |
|      |      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |             |  |  |
|      |      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |             |  |  |
|      |      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |             |  |  |

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 | NE 1/4 |        |        |        | NW 1/4 |        |        |        | SW 1/4 |        |        |        | SE 1/4 |        |        |        | TOTAL ACRES |  |  |  |
|------|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--|--|--|
|      |      |       | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 | NE 1/4 | NW 1/4 | SW 1/4 | SE 1/4 |             |  |  |  |
|      |      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |             |  |  |  |
|      |      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |             |  |  |  |
|      |      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |             |  |  |  |

**For Office Use Only:** Code \_\_\_\_\_ Fee \$ 100.00 TR # \_\_\_\_\_ Receipt Date 1-19-21 Check # 20213



5. **Presently authorized point of diversion:**  
 One in the NC S2 Quarter of the S2 Quarter of the NW Quarter of Section 20, Township 31 South, Range 35 (W), in STEVENS 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. 01 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 SW Quarter of the SE Quarter of the NW Quarter of Section 20, Township 31 South, Range 35 (W), in STEVENS County, Kansas, 2779 feet North 3746 feet West of Southeast corner of section.  
 Proposed Rate -- Proposed Quantity -- Proposed well depth (feet) 360  
 This point is:  Additional Well  Geo Center List other water rights that will use this point 12559

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)  
without well beyond repair

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

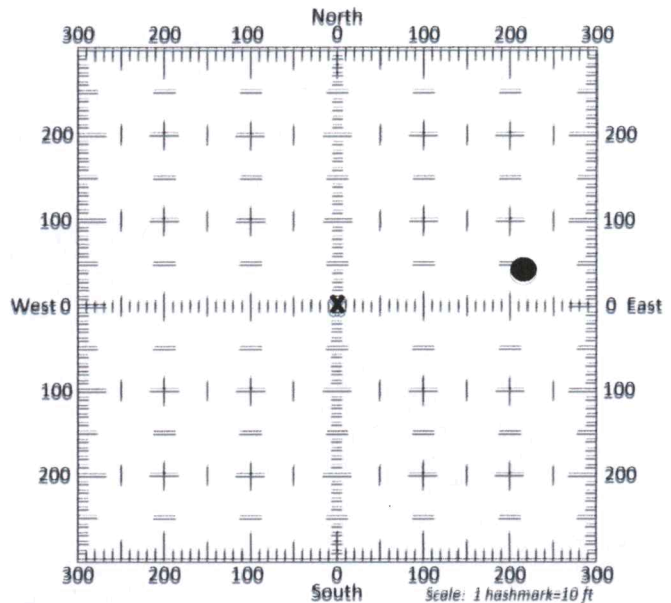
9. The change(s) (was)(will be) completed by?  
3-31-2021

10. If the point of diversion is a well:  
 (a) What are you going to do with the old well?  
Plug it  
 (b) When will this be done? After New Well is completed

11. Groundwater Management District recommendation attached?  
 Yes  No

12. Assisted by AM / GCFO

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



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



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 SARANTA, Kansas, this 15<sup>th</sup> day of January, 2021.

|  |                |
|--|----------------|
| x <u>James W. Cullison</u><br>(Owner)    | (Spouse)       |
| x <u>J.W. Cullison</u><br>(Please Print) | (Please Print) |
| (Owner)                                  | (Spouse)       |
| (Please Print)                           | (Please Print) |
| (Owner)                                  | (Spouse)       |
| (Please Print)                           | (Please Print) |

State of Kansas }  
 County of Haskell }

NOTARY PUBLIC - STATE OF KANSAS  
  
 JESSICA GARCIA  
 My Commission Expires 5/22/2021

(Please Print)

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 15<sup>th</sup> day of January, 2020.

Jessica Garcia  
 Notary Public

My Commission Expires 5/22/2021.

**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. 18484

1. A change application was received on January 19, 2021 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, 2021, 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, 2021, or within any authorized extension of time.** By March 1, 2022 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: January 26, 2021

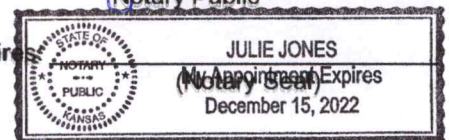
State of Kansas )

County of Finney ) SS

Acknowledged before me on January 26, 2021  
by Michael A. Meyer

Signature: Julie Jones  
Notary Public

My commission expires





NW 20-31-35  
Sec \_\_\_\_\_ Blk \_\_\_\_\_

Survey \_\_\_\_\_ Co. STEVENS

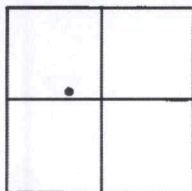
N. 37.33688° W. - 101.15331°



No. 28573

P.O. Box 784  
Sunray, Texas 79086  
(806) 948-4421

DELL COLLISON  
Jim Collison  
620-544-5489



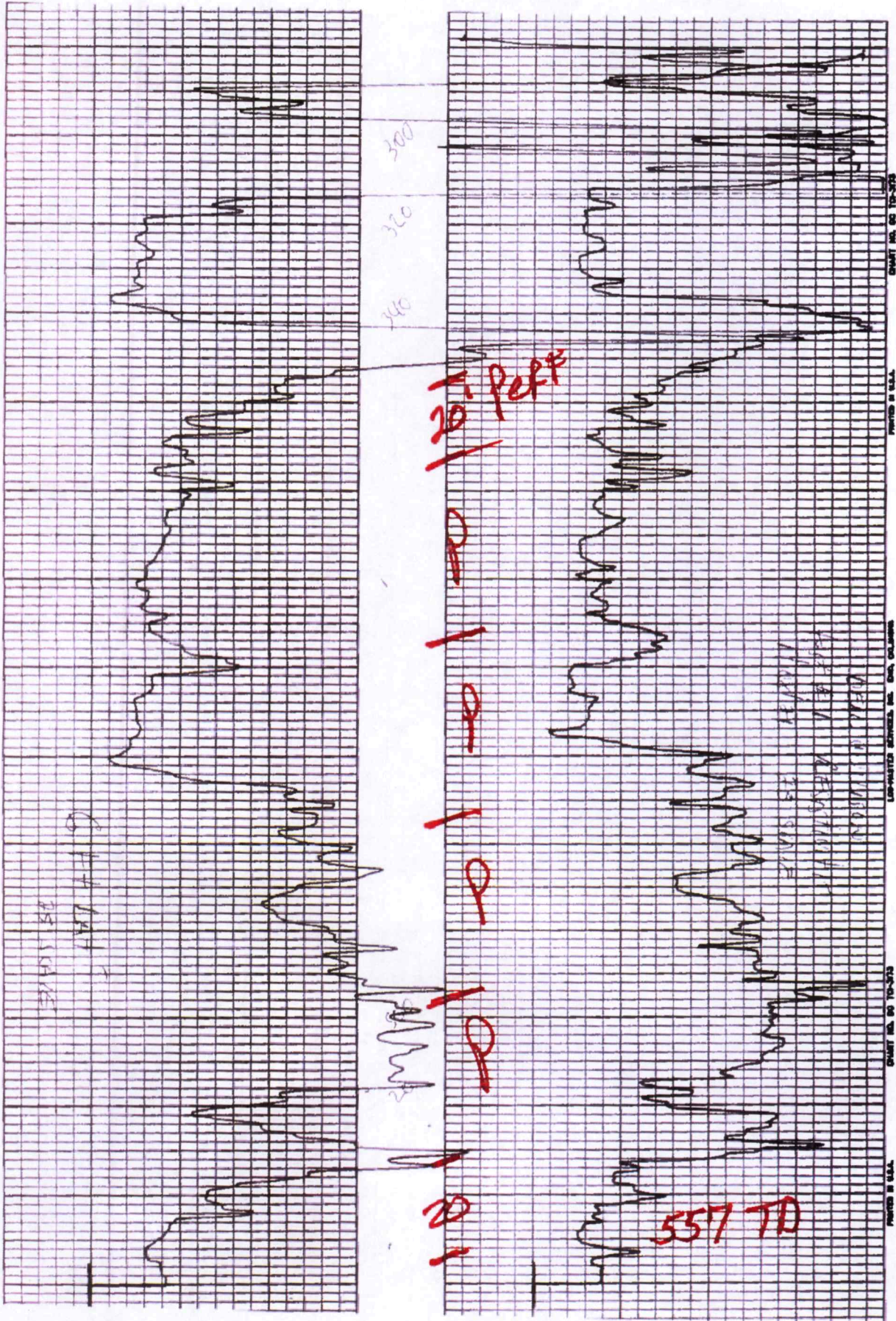
Test  Waterwell

DATE 1/08/21

NO. 1-20

| FROM | TO  | DESCRIPTION   | SAND |
|------|-----|---|------|
|      |     | Problem w/ Circulation 490'   |      |
| 0    | 140 | top soil + Brown sticky clay  |      |
| 140  | 300 | fine, med + coarse sand w/ clay strips.                                       |      |
| 300  | 320 | fine, med + coarse sand w/ clay strips.                                       |      |
| 320  | 340 | fine to med fairly loose sand w/ clay strips.                                 |      |
| 340  | 360 | fine, med + coarse fairly loose sand w/ clay strips                           | 16   |
| 360  | 380 | fine, med + coarse fairly loose sand w/ gravel strips + clay strips           | 14   |
| 380  | 400 | fine, med + coarse fairly loose sand w/ Gravel + clay strips                  | 11   |
| 400  | 420 | fine to med fairly loose sand w/ clay strips                                  | 10   |
| 420  | 440 | fine to med fairly loose sand w/ clay strips.                                 | 9    |
| 440  | 460 | fine to med fairly tight sand w/ little tight sand stone strips + clay strips | 16   |
| 460  | 480 | fine to med fine little tight sand w/ sand stone strips.                      | 20   |
| 480  | 500 | fine little tight sand w/ sand stone strips.                                  | 20   |
| 500  | 520 | fine little tight sand w/ shale strips + clay strips.                         | 12   |
| 520  | 540 | fine little tight sand w/ clay strips to Red clay                             | 10   |
| 540  | 560 | Red clay w/ hard shale  |      |
|      |     | 1 drought   |      |
|      |     | 1.5 SK Hulls.   |      |
|      |     | 1/2 Bkt Hydro pack  |      |
|      |     | 1/2 SK CGHV   |      |
|      |     | <b>Rig PROB NE</b>  |      |





1" steel  
D/D

HUBER  
66 ton  
50/50

500



