

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

|  |   |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used  |                   |                           |                   |               |                |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. |                   |                           |                   |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD  |                  |                |              |                            |
|--|------------------|----------------|--------------|----------------------------|
| Purpose:   | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

|   |  |         |             |                       |
|---|--|---------|-------------|-----------------------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |         |             |                       |
| Estimated Production Per 24 Hours                                   | Oil Bbls.  | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity |

|   |   |                                    |
|---|---|------------------------------------|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL:<br>Top Bottom |
|---|---|------------------------------------|

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record<br><i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |

|                |       |         |            |  |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: |  |
|----------------|-------|---------|------------|--|

|           |                        |
|-----------|------------------------|
| Form      | ACO1 - Well Completion |
| Operator  | Thomas Garner, Inc.    |
| Well Name | PETTY-CHRISTIE UNIT 1  |
| Doc ID    | 1595070                |

All Electric Logs Run

|                |
|----------------|
|                |
| Dual Induction |
| Dual Comp      |
| Micro          |
| Sonic          |





**HURRICANE SERVICES INC**

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

Customer:

THOMAS GARNER INC  
305 E 7TH AVE  
SAINT JOHN, KS 67576-1652

Invoice Date: 7/23/2021  
Invoice #: 0354351  
Lease Name: Petty-Christie Unit  
Well #: 1 (New)  
County: Stafford, Ks  
Job Number: WP1627  
District: Pratt

| Date/Description       | HRS/QTY | Rate    | Total    |
|------------------------|---------|---------|----------|
| 8 5/8" Surface Casing  | 0.000   | 0.000   | 0.00     |
| Cement Pozmix 60/40    | 375.000 | 11.440  | 4,290.00 |
| Calcium Chloride       | 969.000 | 0.660   | 639.54   |
| Cello Flake            | 94.000  | 1.540   | 144.76   |
| 8 5/8" Top rubber plug | 1.000   | 154.000 | 154.00   |
| Light Eq Mileage       | 20.000  | 1.760   | 35.20    |
| Heavy Eq Mileage       | 20.000  | 3.520   | 70.40    |
| Ton Mileage            | 323.000 | 1.320   | 426.36   |
| Cement Pump Service    | 1.000   | 660.000 | 660.00   |
| Cement Plug Container  | 1.000   | 220.000 | 220.00   |

**Total** 6,640.26

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**



|                  |                   |   |                              |                              |            |
|------------------|-------------------|---|------------------------------|------------------------------|------------|
| Customer         | Thomas Garner Inc | Lease & Well #  | Petty-Christie Unit 1        | Date                         | 7/23/2021  |
| Service District | Pratt Kansas      | County & State  | Stafford Kansas              | Legals S/T/R                 | 22-25s-13w |
| Job Type         | 8 5/8             | <input checked="" type="checkbox"/> PROD                          | <input type="checkbox"/> INJ | <input type="checkbox"/> SWD | Job #      |
|                  |                   |   |                              |                              | wp1627     |
| Equipment #      | Driver            | Job Safety Analysis - A Discussion of Hazards & Safety Procedures |                              |                              |            |

|          |             |   |   |  |  |
|----------|-------------|---|---|--|--|
| 916      | M Brungardt | <input checked="" type="checkbox"/> Hard hat                | <input checked="" type="checkbox"/> Gloves            | <input type="checkbox"/> Lockout/Tagout                            | <input type="checkbox"/> Warning Signs & Flagging                  |
| 175/522  | R Osborn    | <input checked="" type="checkbox"/> H2S Monitor             | <input checked="" type="checkbox"/> Eye Protection    | <input type="checkbox"/> Required Permits                          | <input type="checkbox"/> Fall Protection                           |
| 182/533  | J Travino   | <input checked="" type="checkbox"/> Safety Footwear         | <input type="checkbox"/> Respiratory Protection       | <input checked="" type="checkbox"/> Slip/Trip/Fall Hazards         | <input type="checkbox"/> Specific Job Sequence/Expectations        |
|          |             | <input checked="" type="checkbox"/> FRC/Protective Clothing | <input type="checkbox"/> Additional Chemical/Acid PPE | <input checked="" type="checkbox"/> Overhead Hazards               | <input checked="" type="checkbox"/> Muster Point/Medical Locations |
|          |             | <input type="checkbox"/> Hearing Protection                 | <input checked="" type="checkbox"/> Fire Extinguisher | <input type="checkbox"/> Additional concerns or issues noted below |  |
| Comments |             |   |   |  |  |

| Product/ Service Code | Description             | Unit of Measure | Quantity | Net Amount |
|-----------------------|-------------------------|-----------------|----------|------------|
| cp070                 | 60/40/2 Pozmix          | sack            | 375.00   |            |
| cp100                 | Calcium Chloride        | lb              | 969.00   | \$4,290.00 |
| cp120                 | Cello-flake             | lb              | 94.00    | \$639.54   |
| fe285                 | 8 5/8" Rubber Plug      | ea              | 1.00     | \$144.76   |
| m015                  | Light Equipment Mileage | mi              | 20.00    | \$154.00   |
| m010                  | Heavy Equipment Mileage | mi              | 20.00    | \$35.20    |
| m020                  | Ton Mileage             | tn              | 323.00   | \$70.40    |
| c010                  | Cement Pump Service     | ea              | 1.00     | \$426.36   |
| c050                  | Cement Plug Container   | job             | 1.00     | \$660.00   |
|                       |                         |                 |          | \$220.00   |

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?


1    2    3    4    5    6    7    8    9    10

Unlikely Extremely Likely

|   |      |           |  |           |             |
|---|------|-----------|--|-----------|-------------|
| Total Taxable   | \$ - | Tax Rate: |  | Net:      | \$6,640.26  |
| State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt. |      |           |  | Sale Tax: | \$ -        |
|   |      |           |  | Total:    | \$ 6,640.26 |

HSI Representative: *Mark Brungardt*

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X  \_\_\_\_\_  
**CUSTOMER AUTHORIZATION SIGNATURE**



### CEMENT TREATMENT REPORT

|                             |                             |                 |
|-----------------------------|-----------------------------|-----------------|
| Customer: Thomas Garner Inc | Well: Petty-Christie Unit 1 | Ticket: wp1627  |
| City, State: Iuka Kansa     | County: Stafford Kansas     | Date: 7/23/2021 |
| Field Rep: Tom Garner       | S-T-R: 22-25s-13w           | Service: 8.625  |

| Downhole Information |           |
|----------------------|-----------|
| Hole Size:           | 12 1/4 in |
| Hole Depth:          | 375 ft    |
| Casing Size:         | 8 5/8 in  |
| Casing Depth:        | 370 ft    |
| Tubing / Liner:      | in        |
| Depth:               | ft        |
| Tool / Packer:       |           |
| Tool Depth:          | ft        |
| Displacement:        | 22.0 bbls |

| Calculated Slurry - Lead |                           |
|--------------------------|---------------------------|
| Blend:                   | 60/40 2&3                 |
| Weight:                  | 14.8 ppg                  |
| Water / Sx:              | 5.1 gal / sx              |
| Yield:                   | 1.21 ft <sup>3</sup> / sx |
| Annular Bbls / Ft.:      | bbs / ft.                 |
| Depth:                   | ft                        |
| Annular Volume:          | 0.0 bbls                  |
| Excess:                  |                           |
| Total Slurry:            | 80.8 bbls                 |
| Total Sacks:             | 375 sx                    |

| Calculated Slurry - Tail |                      |
|--------------------------|----------------------|
| Blend:                   |                      |
| Weight:                  | ppg                  |
| Water / Sx:              | gal / sx             |
| Yield:                   | ft <sup>3</sup> / sx |
| Annular Bbls / Ft.:      | bbs / ft.            |
| Depth:                   | ft                   |
| Annular Volume:          | 0 bbls               |
| Excess:                  |                      |
| Total Slurry:            | 0.0 bbls             |
| Total Sacks:             | 0 sx                 |

| TIME    | RATE | PSI   | BBLs | TOTAL BBLs | REMARKS                          |
|---------|------|-------|------|------------|----------------------------------|
| 3:30 AM |      |       | -    | -          | on location job and safety       |
| 3:45 AM |      |       | -    | -          | spot trucks and rig up           |
|         |      |       |      |            |                                  |
| 6:00 AM |      |       |      | -          | start casing                     |
| 7:30 AM |      |       |      | -          | casing on bottom and circulate   |
|         |      |       |      |            |                                  |
| 7:45 AM |      |       |      | -          | start cement                     |
|         | 6.0  | 350.0 | 5.0  | 5.0        | 5 bbls fresh                     |
|         | 6.0  | 350.0 | 80.8 | 85.8       | mix 375 sacks cement             |
| 8:05 AM |      |       |      |            | cement in                        |
|         |      |       |      |            |                                  |
| 8:10 AM | 4.0  | 250.0 |      |            | start displacement               |
| 8:15 AM |      |       | 22.0 |            | displacement in and shut in well |
|         |      |       |      |            | plug down at 8:15 am             |
|         |      |       |      |            | cement did circulate             |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
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|         |      |       |      |            |                                  |
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|         |      |       |      |            |                                  |
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|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |
|         |      |       |      |            |                                  |

| CREW           |             | UNIT    | SUMMARY      |                  |             |
|----------------|-------------|---------|--------------|------------------|-------------|
| Cementer:      | M Brungardt | 916     | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | R Osborn    | 175/522 | 5.3 bpm      | 317 psi          | 108 bbls    |
| Bulk #1:       | J Travino   | 182/533 |              |                  |             |
| Bulk #2:       |             |         |              |                  |             |



## HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

Customer:

THOMAS GARNER INC  
305 E 7TH AVE  
SAINT JOHN, KS 67576-1652

Invoice Date: 8/13/2021  
Invoice #: 0354598  
Lease Name: Petty-Christie Unit  
Well #: 1 (New)  
County: Stafford, Ks  
Job Number: WP1664  
District: Pratt

| Date/Description             | HRS/QTY   | Rate      | Total    |
|------------------------------|-----------|-----------|----------|
| 7/31/21-5 1/2" Longstring    | 0.000     | 0.000     | 0.00     |
| H-Long                       | 190.000   | 24.640    | 4,681.60 |
| H-Plug                       | 50.000    | 11.440    | 572.00   |
| GYP Seal                     | 895.000   | 0.880     | 787.60   |
| Gas Block                    | 537.000   | 2.640     | 1,417.68 |
| Defoamer Powder C-41P        | 54.000    | 3.520     | 190.08   |
| 5 1/2" Floatshoe-Flapper AFU | 1.000     | 330.000   | 330.00   |
| 5 1/2" LD Plug & Baffle      | 1.000     | 308.000   | 308.00   |
| Cement baskets 5 1/2"        | 2.000     | 264.000   | 528.00   |
| 5 1/2" Turbolizers           | 8.000     | 70.400    | 563.20   |
| Mud flush                    | 1,000.000 | 0.880     | 880.00   |
| Light Eq Mileage             | 20.000    | 1.760     | 35.20    |
| Heavy Eq Mileage             | 20.000    | 3.520     | 70.40    |
| Ton Mileage                  | 221.000   | 1.320     | 291.72   |
| Cement Pump Service          | 1.000     | 1,320.000 | 1,320.00 |
| Cement Plug Container        | 1.000     | 220.000   | 220.00   |

**Total** 12,195.48

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

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**WE APPRECIATE YOUR BUSINESS!**



Hurricane Services, Inc.  
250 N. Water St., Suite #200  
Wichita, KS 67202



|                  |                                    |   |                              |              |   |
|------------------|------------------------------------|---|------------------------------|--------------|---|
| Customer         | THOMAS GARNER INC                  | Lease & Well #  | PETTY-CHRISTIE UNIT 1        | Date         | 7/31/2021   |
| Service District | PRATT                              | County & State  | STAFFORD KS                  | Legals S/T/R | 22-25S-13W  |
| Job Type         | 5 1/2 LONGSTRING <sup>2</sup> PROD | <input type="checkbox"/> INJ                                      | <input type="checkbox"/> SWD | New Well?    | <input checked="" type="checkbox"/> YES <input type="checkbox"/> No |
| Equipment #      | Driver                             | Job Safety Analysis - A Discussion of Hazards & Safety Procedures |                              |              |   |

|         |         |   |   |  |   |
|---------|---------|---|---|--|---|
| 912     | MATTAL  | <input checked="" type="checkbox"/> Hard hat                | <input checked="" type="checkbox"/> Gloves            | <input type="checkbox"/> Lockout/Tagout                            | <input type="checkbox"/> Warning Signs & Flagging           |
| 179/522 | OSBORN  | <input checked="" type="checkbox"/> H2S Monitor             | <input checked="" type="checkbox"/> Eye Protection    | <input type="checkbox"/> Required Permits                          | <input type="checkbox"/> Fall Protection                    |
| 181/256 | TREVINO | <input checked="" type="checkbox"/> Safety Footwear         | <input type="checkbox"/> Respiratory Protection       | <input type="checkbox"/> Slip/Trip/Fall Hazards                    | <input type="checkbox"/> Specific Job Sequence/Expectations |
|         |         | <input checked="" type="checkbox"/> FRC/Protective Clothing | <input type="checkbox"/> Additional Chemical/Acid PPE | <input type="checkbox"/> Overhead Hazards                          | <input type="checkbox"/> Muster Point/Medical Locations     |
|         |         | <input type="checkbox"/> Hearing Protection                 | <input type="checkbox"/> Fire Extinguisher            | <input type="checkbox"/> Additional concerns or issues noted below |   |

Comments

| Product/ Service Code | Description                          | Unit of Measure | Quantity | Net Amount |
|-----------------------|--------------------------------------|-----------------|----------|------------|
| CP030                 | H-Long                               |                 |          |            |
| CP055                 | H-Plug                               | sack            | 190.00   | \$4,681.60 |
| CP105                 | Gypsum                               | sack            | 50.00    | \$572.00   |
| CP155                 | Gas Block                            | lb              | 895.00   | \$787.60   |
| CP135                 | Defoamer Powder                      | lb              | 537.00   | \$1,417.68 |
| FE145                 | 5 1/2" Float Shoe - AFU Flapper Type | lb              | 54.00    | \$190.08   |
| FE170                 | 5 1/2" Latch Down Plug & Baffle      | ea              | 1.00     | \$330.00   |
| FE130                 | 5 1/2" Cement Basket                 | ea              | 1.00     | \$308.00   |
| FE135                 | 5 1/2 Turbolizer                     | ea              | 2.00     | \$528.00   |
| CP170                 | Mud Flush                            | ea              | 8.00     | \$563.20   |
| M015                  | Light Equipment Mileage              | gal             | 1,000.00 | \$880.00   |
| M010                  | Heavy Equipment Mileage              | mi              | 20.00    | \$35.20    |
| M020                  | Ton Mileage                          | mi              | 20.00    | \$70.40    |
| C015                  | Cement Pump Service                  | tm              | 221.00   | \$291.72   |
| C050                  | Cement Plug Container                | ea              | 1.00     | \$1,320.00 |
|                       |                                      | job             | 1.00     | \$220.00   |

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

|   |      |           |  |      |             |
|---|------|-----------|--|------|-------------|
| Total Taxable   | \$ - | Tax Rate: |  | Net: | \$12,195.48 |
| State tax laws deem certain products and services used on new wells to be sales tax exempt.   |      |           |  |      |             |
| Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt. |      |           |  |      |             |
| Total:  |      |           |  | \$   | 12,195.48   |

HSI Representative: *Mike Mattal*

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X  **Kyle Roby**  
CUSTOMER AUTHORIZATION SIGNATURE





## DRILL STEM TEST REPORT

Prepared For: **Tom Garner Inc.**

305 east 7th Ave  
Saint John ,Kansas 67576

ATTN: Jim Musgrove

**Patty-Christie**

**22-25s-13w Stafford**

Start Date: 2021.07.28 @ 15:01:00

End Date: 2021.07.28 @ 21:52:00

Job Ticket #: 014171          DST #: 2

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2021.07.28 @ 22:23:22



# DRILL STEM TEST REPORT

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

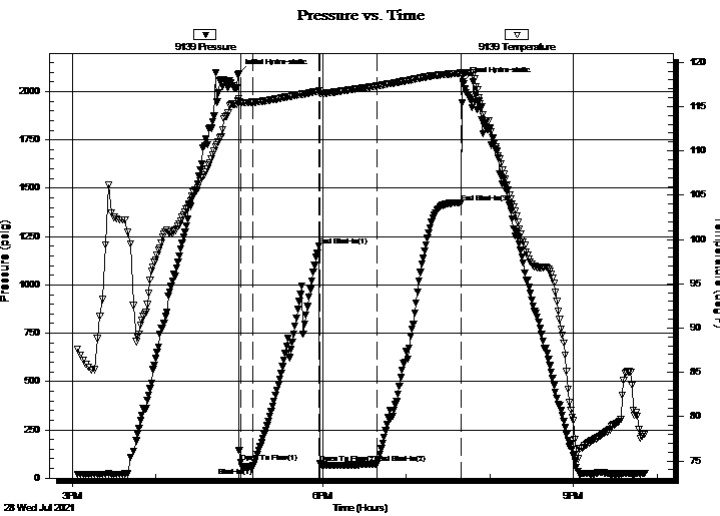
**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 014171 **DST#: 2**  
 Test Start: 2021.07.28 @ 15:01:00

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 17:00:00 Tester: Gene budig  
 Time Test Ended: 21:52:00 Unit No: 1  
 Interval: **4105.00 ft (KB) To 4140.00 ft (KB) (TVD)** Reference Elevations: 1936.00 ft (KB)  
 Total Depth: 4140.00 ft (KB) (TVD) 1928.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 9139 Outside**  
 Press@RunDepth: 1425.89 psig @ 4137.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2021.07.28 End Date: 2021.07.28 Last Calib.: 1899.12.30  
 Start Time: 15:01:00 End Time: 21:50:59 Time On Btm: 2021.07.28 @ 16:59:30  
 Time Off Btm: 2021.07.28 @ 19:40:30

**TEST COMMENT:** 1st Opening 10 Minutes Strong bloq bottom of the bucket in 1 minute  
 1st Shut-In 45 Minutes no blow back  
 2nd Opening 45 Minutes Strong blow gas to surface in 25 minutes  
 2nd Shut-In 60 Minutes no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2090.87         | 115.86       | Initial Hydro-static |
| 2           | 82.28           | 115.44       | Open To Flow (1)     |
| 10          | 58.13           | 115.47       | Shut-In(1)           |
| 58          | 1201.06         | 116.75       | End Shut-In(1)       |
| 59          | 75.18           | 116.49       | Open To Flow (2)     |
| 100         | 74.38           | 117.32       | End Shut-In(2)       |
| 160         | 1425.89         | 118.76       | End Shut-In(3)       |
| 161         | 2051.50         | 118.53       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 0.00        | Max. gas gauged 2.48 mcf   | 0.00         |
| 30.00       | oil cut mud                | 0.42         |
| 0.00        | 5%Gas 25%Oil 70% Mud       | 0.00         |
| 40.00       | slightly mud cut gassy oil | 0.56         |
| 0.00        | 40%Gas 55%Oil 5% Mud       | 0.00         |

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |



# DRILL STEM TEST REPORT

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

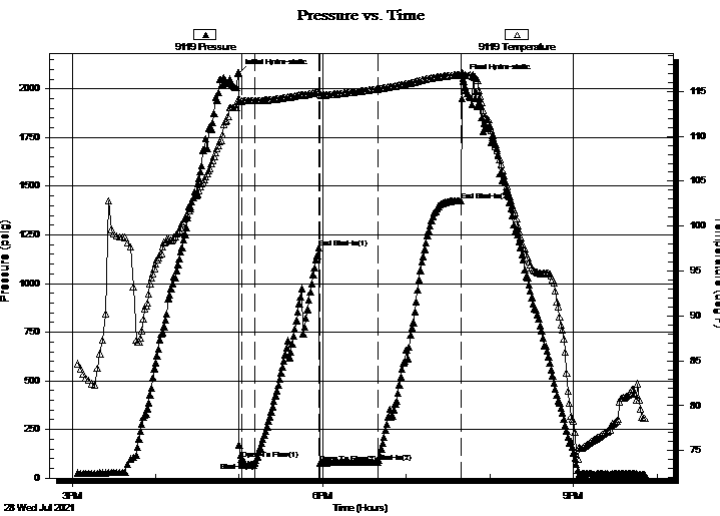
**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 014171 **DST#: 2**  
 Test Start: 2021.07.28 @ 15:01:00

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 17:00:00 Tester: Gene budig  
 Time Test Ended: 21:52:00 Unit No: 1  
 Interval: **4105.00 ft (KB) To 4140.00 ft (KB) (TVD)** Reference Elevations: 1936.00 ft (KB)  
 Total Depth: 4140.00 ft (KB) (TVD) 1928.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 9119 Inside**  
 Press@RunDepth: 1425.68 psig @ 4136.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2021.07.28 End Date: 2021.07.28 Last Calib.: 1899.12.30  
 Start Time: 15:01:00 End Time: 21:50:59 Time On Btm: 2021.07.28 @ 16:59:30  
 Time Off Btm: 2021.07.28 @ 19:40:30

**TEST COMMENT:** 1st Opening 10 Minutes Strong bloq bottom of the bucket in 1 minute  
 1st Shut-In 45 Minutes no blow back  
 2nd Opening 45 Minutes Strong blow gas to surface in 25 minutes  
 2nd Shut-In 60 Minutes no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2080.95         | 114.25       | Initial Hydro-static |
| 2           | 96.65           | 113.91       | Open To Flow (1)     |
| 12          | 79.03           | 113.97       | Shut-In(1)           |
| 58          | 1182.22         | 114.96       | End Shut-In(1)       |
| 59          | 78.13           | 114.64       | Open To Flow (2)     |
| 100         | 81.01           | 115.27       | Shut-In(2)           |
| 160         | 1425.68         | 116.87       | End Shut-In(2)       |
| 161         | 2053.84         | 117.00       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 0.00        | Max. gas gauged 2.48 mcf   | 0.00         |
| 30.00       | oil cut mud                | 0.42         |
| 0.00        | 5%Gas 25%Oil 70% Mud       | 0.00         |
| 40.00       | slightly mud cut gassy oil | 0.56         |
| 0.00        | 40%Gas 55%Oil 5% Mud       | 0.00         |

## Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 014171      **DST#: 2**  
 Test Start: 2021.07.28 @ 15:01:00

## Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4100.00 ft | Diameter: 3.80 inches | Volume: 57.51 bbl              | Tool Weight:           | 2000.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 20000.00 lb |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose:  | 82000.00 lb |
|                           |                    |                       | <u>Total Volume: 57.51 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 23.00 ft           |                       |                                | String Weight: Initial | 54000.00 lb |
| Depth to Top Packer:      | 4105.00 ft         |                       |                                | Final                  | lb          |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 35.00 ft           |                       |                                |                        |             |
| Tool Length:              | 63.00 ft           |                       |                                |                        |             |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                        |             |

Tool Comments:

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                  |
|---------------------------|--------------|------------|----------|------------|---------------------------------|
| Shut In Tool              | 5.00         |            |          | 4082.00    |                                 |
| Hydraulic tool            | 5.00         |            |          | 4087.00    |                                 |
| Jars                      | 6.00         |            |          | 4093.00    |                                 |
| Safety Joint              | 2.00         |            | Fluid    | 4095.00    |                                 |
| Top Packer                | 5.00         |            |          | 4100.00    |                                 |
| Packer                    | 5.00         |            |          | 4105.00    | 28.00      Bottom Of Top Packer |
| Anchor                    | 30.00        |            |          | 4135.00    |                                 |
| Recorder                  | 1.00         | 9119       | Inside   | 4136.00    |                                 |
| Recorder                  | 1.00         | 9139       | Outside  | 4137.00    |                                 |
| Bullnose                  | 3.00         |            |          | 4140.00    | 35.00      Anchor Tool          |
| <b>Total Tool Length:</b> | <b>63.00</b> |            |          |            |                                 |



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 014171      **DST#: 2**  
 Test Start: 2021.07.28 @ 15:01:00

### Mud and Cushion Information

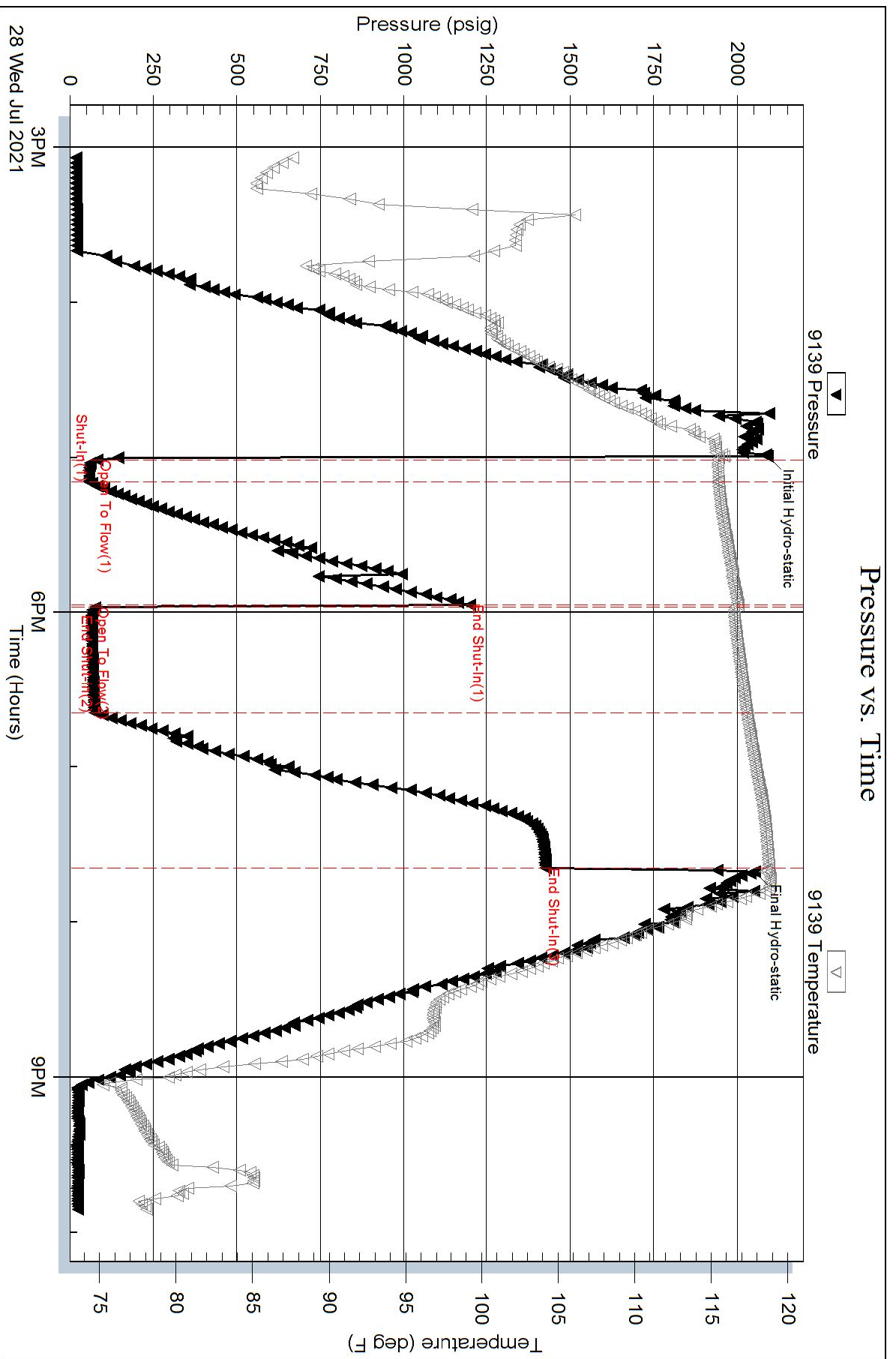
|                                  |                            |                 |         |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | deg API |
| Mud Weight: lb/gal               | Cushion Length: ft         | Water Salinity: | ppm     |
| Viscosity: 55.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 9.60 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 8500.00 ppm            |                            |                 |         |
| Filter Cake: 1.00 inches         |                            |                 |         |

### Recovery Information

Recovery Table

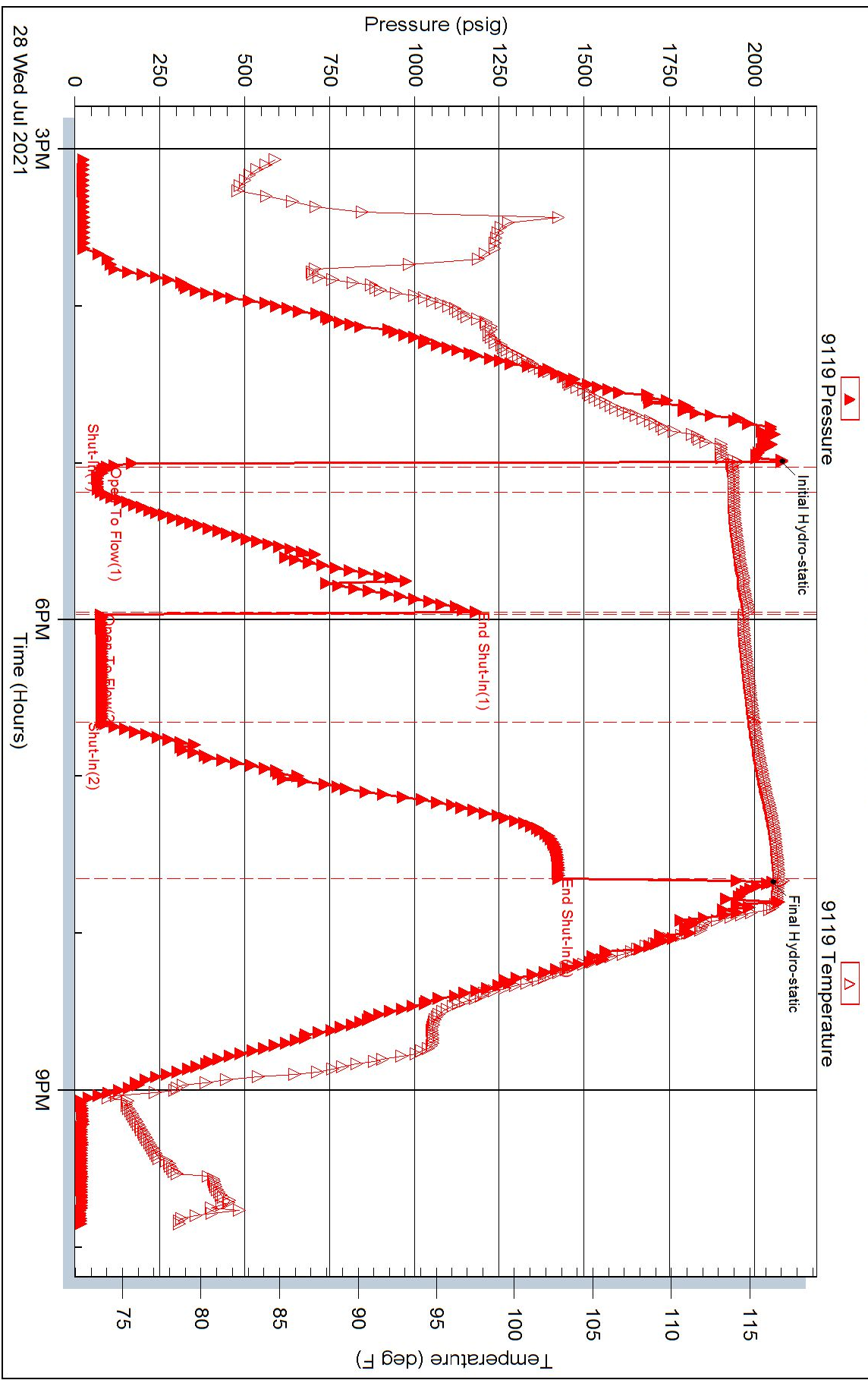
| Length ft | Description                | Volume bbl |
|-----------|----------------------------|------------|
| 0.00      | Max. gas gauged 2.48 mcf   | 0.000      |
| 30.00     | oil cut mud                | 0.421      |
| 0.00      | 5%Gas 25%Oil 70% Mud       | 0.000      |
| 40.00     | slightly mud cut gassy oil | 0.561      |
| 0.00      | 40%Gas 55%Oil 5% Mud       | 0.000      |

Total Length: 70.00 ft      Total Volume: 0.982 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Tom Garner Inc.**

305 east 7th Ave  
Saint John ,Kansas 67576

ATTN: Jim Musgrove

**Patty-Christie**

**22-25s-13w Stafford**

Start Date: 2021.07.27 @ 06:33:00

End Date: 2021.07.27 @ 01:36:00

Job Ticket #: 01470                      DST #: 1

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2021.07.28 @ 03:27:21



# DRILL STEM TEST REPORT

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

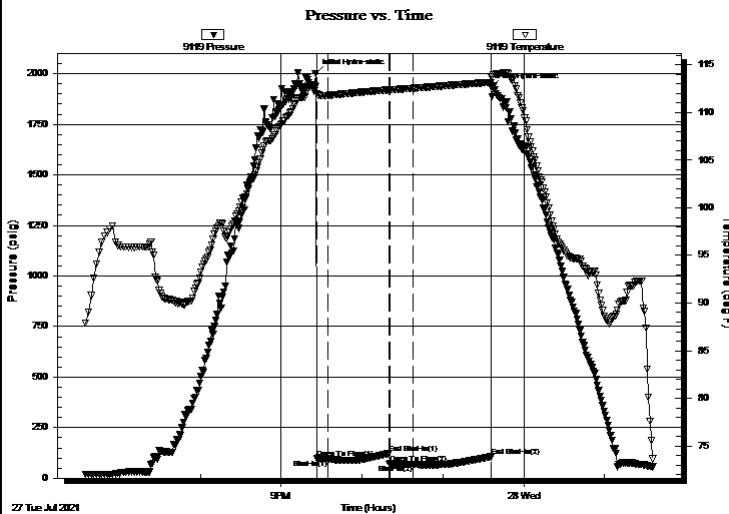
**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 01470 **DST#: 1**  
 Test Start: 2021.07.27 @ 06:33:00

## GENERAL INFORMATION:

Formation: **Conglomerate Chert**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:00:00  
 Time Test Ended: 01:36:00  
 Interval: **3994.00 ft (KB) To 4040.00 ft (KB) (TVD)**  
 Total Depth: 4040.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 1  
 Reference Elevations: 1936.00 ft (KB)  
 1928.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 9119 Inside**  
 Press@RunDepth: 105.71 psig @ 4036.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2021.07.27 End Date: 2021.07.28 Last Calib.: 1899.12.30  
 Start Time: 18:35:00 End Time: 01:36:00 Time On Btm: 2021.07.27 @ 21:25:30  
 Time Off Btm: 2021.07.27 @ 23:36:00

**TEST COMMENT:** 1st Opening 10 Minutes weak blow for 3 minutes and died  
 1st Shut-In 45 Minutes  
 2nd Opening 15 Minutes no blow  
 2nd Shgut-In 60 Minutes



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2002.68         | 112.70       | Initial Hydro-static |
| 1           | 95.77           | 111.97       | Open To Flow (1)     |
| 10          | 94.53           | 111.80       | Shut-In(1)           |
| 55          | 122.47          | 112.38       | End Shut-In(1)       |
| 56          | 70.83           | 112.37       | Open To Flow (2)     |
| 73          | 67.47           | 112.55       | Shut-In(2)           |
| 130         | 105.71          | 113.18       | End Shut-In(2)       |
| 131         | 1933.95         | 113.73       | Final Hydro-static   |

## Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 15.00       | Drilling Mud | 0.21         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 01470 **DST#: 1**  
 Test Start: 2021.07.27 @ 06:33:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3976.00 ft | Diameter: 3.80 inches | Volume: 55.77 bbl              | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 20000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 70000.00 lb  |
|                           |                    |                       | <u>Total Volume: 55.77 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 10.00 ft           |                       |                                | String Weight: Initial 54000.00 lb |
| Depth to Top Packer:      | 3994.00 ft         |                       |                                | Final 54000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 46.00 ft           |                       |                                |                                    |
| Tool Length:              | 74.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                           |              |      |         |         |                            |
|---------------------------|--------------|------|---------|---------|----------------------------|
| Shut In Tool              | 5.00         |      |         | 3971.00 |                            |
| Hydraulic tool            | 5.00         |      |         | 3976.00 |                            |
| Jars                      | 6.00         |      |         | 3982.00 |                            |
| Safety Joint              | 2.00         |      | Fluid   | 3984.00 |                            |
| Top Packer                | 5.00         |      |         | 3989.00 |                            |
| Packer                    | 5.00         |      |         | 3994.00 | 28.00 Bottom Of Top Packer |
| Anchor                    | 41.00        |      |         | 4035.00 |                            |
| Recorder                  | 1.00         | 9119 | Inside  | 4036.00 |                            |
| Recorder                  | 1.00         | 9139 | Outside | 4037.00 |                            |
| Bullnose                  | 3.00         |      |         | 4040.00 | 46.00 Anchor Tool          |
| <b>Total Tool Length:</b> | <b>74.00</b> |      |         |         |                            |



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 01470      **DST#: 1**  
 Test Start: 2021.07.27 @ 06:33:00

### Mud and Cushion Information

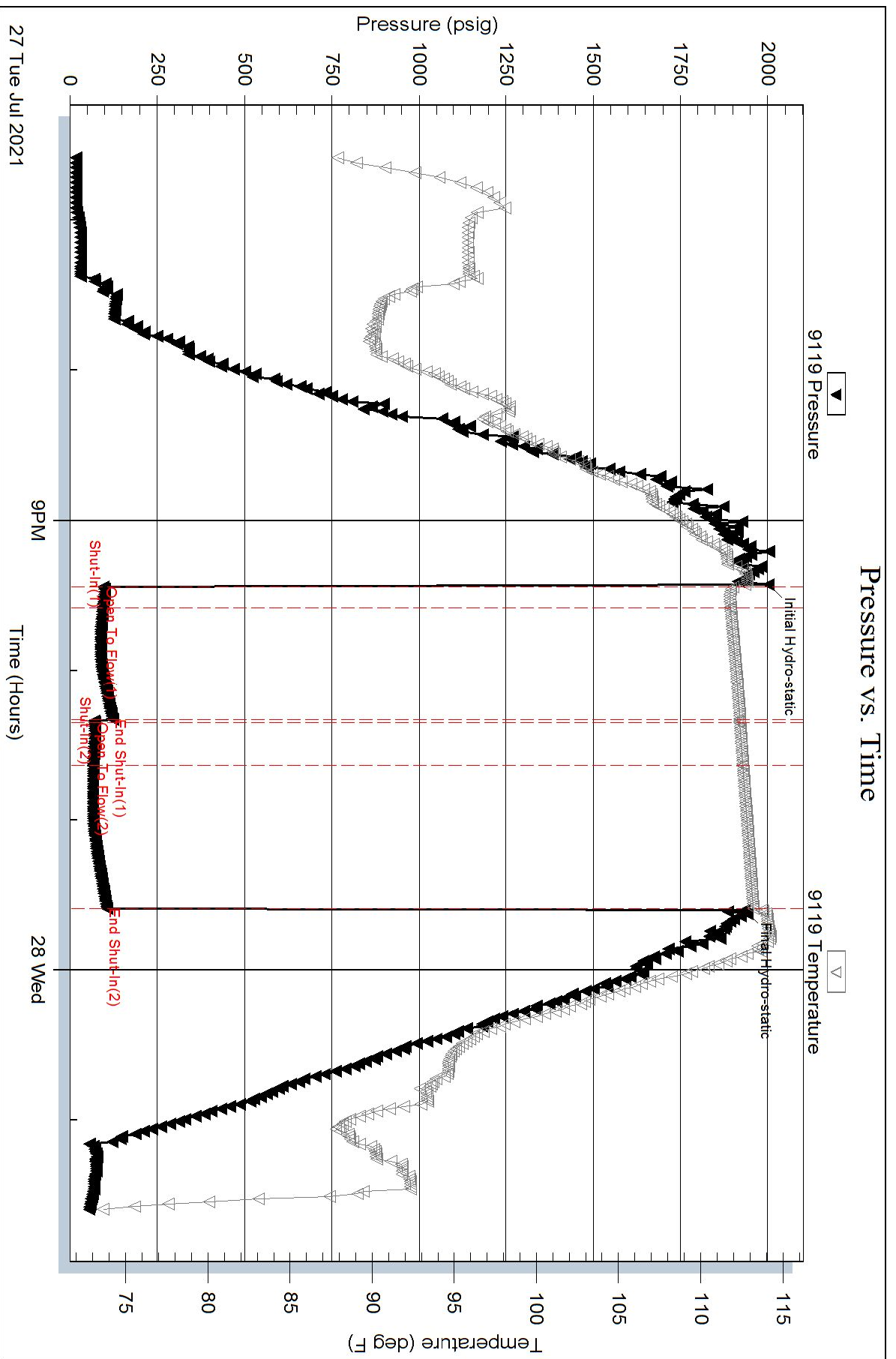
|                                  |                            |                 |         |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | ppm     |
| Viscosity: 44.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 9.39 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 7500.00 ppm            |                            |                 |         |
| Filter Cake: 1.00 inches         |                            |                 |         |

### Recovery Information

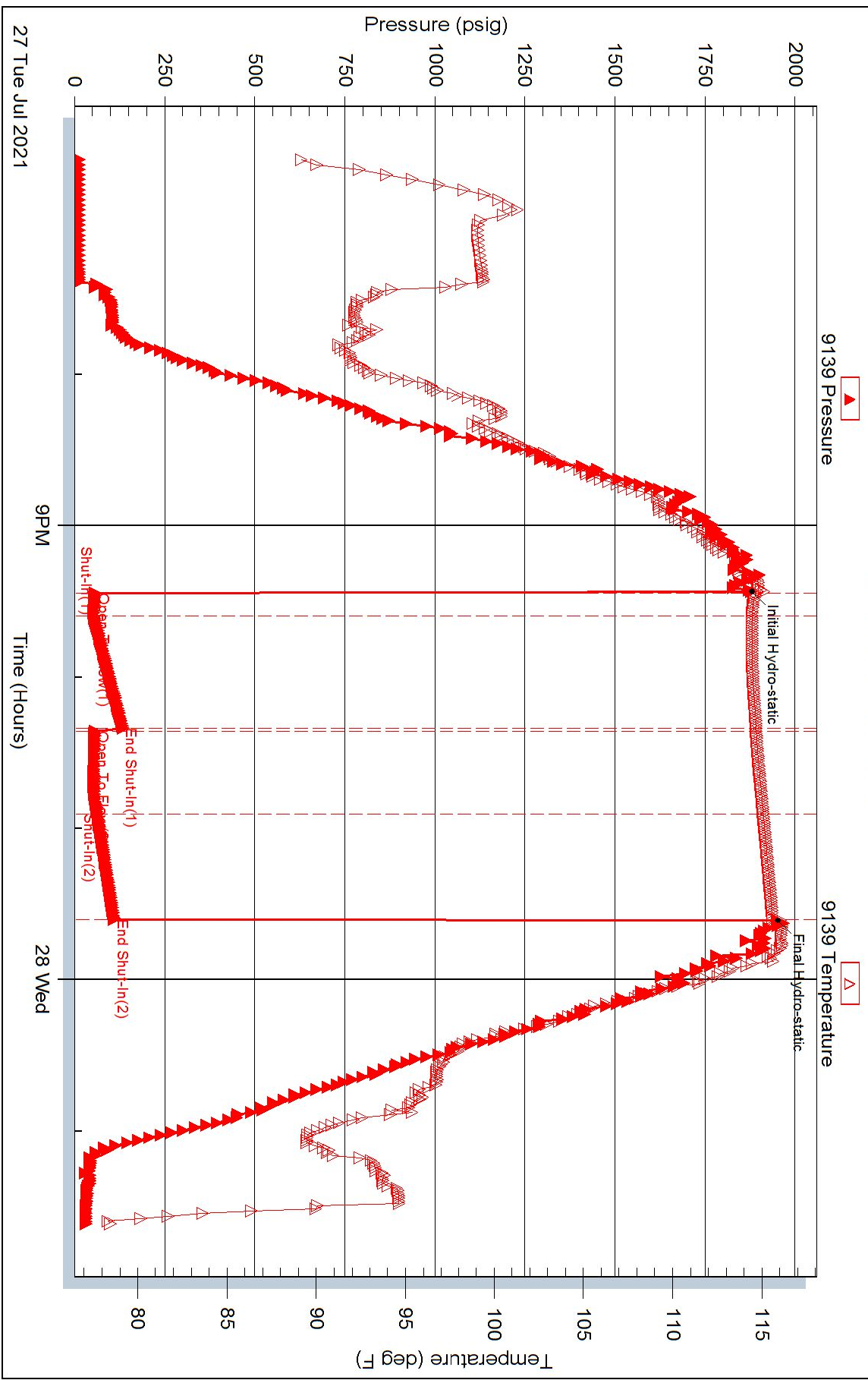
Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 15.00        | Drilling Mud | 0.210         |

Total Length: 15.00 ft      Total Volume: 0.210 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Tom Garner Inc.**

305 east 7th Ave  
Saint John ,Kansas 67576

ATTN: Jim Musgrove

**Patty-Christie**

**22-25s-13w Stafford**

Start Date: 2021.07.29 @ 11:33:00

End Date: 2021.07.29 @ 20:11:00

Job Ticket #: 2012                      DST #: 3

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2021.07.29 @ 20:20:56



# DRILL STEM TEST REPORT

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

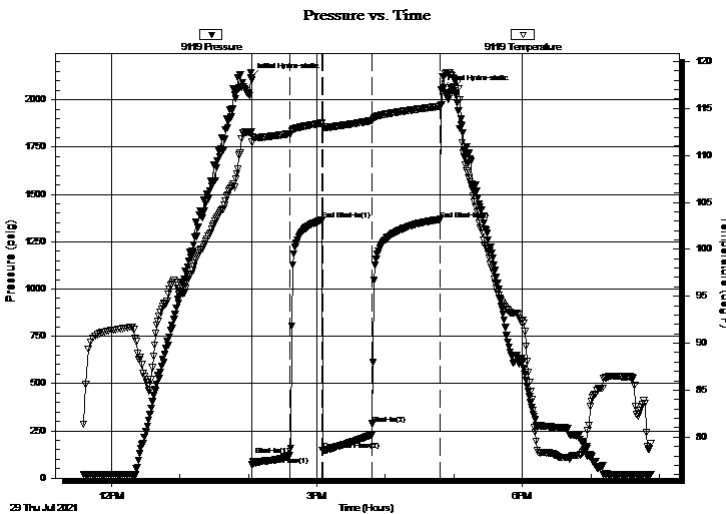
**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 2012 **DST#: 3**  
 Test Start: 2021.07.29 @ 11:33:00

## GENERAL INFORMATION:

Formation: **Simpson**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 14:04:00 Tester: Gene Budig  
 Time Test Ended: 20:11:00 Unit No: 1  
 Interval: **4210.00 ft (KB) To 4247.00 ft (KB) (TVD)** Reference Elevations: 1936.00 ft (KB)  
 Total Depth: 4247.00 ft (KB) (TVD) 1928.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 9119 Inside**  
 Press@RunDepth: 1367.54 psig @ 4243.00 ft (KB) Capacity: psig  
 Start Date: 2021.07.29 End Date: 2021.07.29 Last Calib.: 1899.12.30  
 Start Time: 11:33:00 End Time: 19:52:00 Time On Btm: 2021.07.29 @ 14:02:30  
 Time Off Btm: 2021.07.29 @ 16:49:00

**TEST COMMENT:** 1st Opening 30 minutes good blow built to the bottom of a 5 gallon bucket in 89 minutes  
 1st shut-in 30 Minutes fair blow back  
 2nd Opening 45 Minutes good blow built to the bottom of a 5 gallon bucket in 8 minutes  
 2nd Shut-In 60 Minutes fair blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2116.19         | 112.47       | Initial Hydro-static |
| 1           | 70.44           | 111.41       | Open To Flow (1)     |
| 34          | 121.06          | 112.32       | Shut-In(1)           |
| 62          | 1363.61         | 113.43       | End Shut-In(1)       |
| 63          | 147.35          | 113.08       | Open To Flow (2)     |
| 106         | 287.13          | 113.72       | Shut-In(2)           |
| 166         | 1367.54         | 115.23       | End Shut-In(2)       |
| 167         | 2055.52         | 115.44       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                         | Volume (bbl) |
|-------------|-------------------------------------|--------------|
| 0.00        | 3100 feet of gas in the pipe        | 0.00         |
| 375.00      | Clean gaas oil gravity 44 corrected | 5.26         |
| 0.00        | 20%Gas 80%Oil                       | 0.00         |
| 120.00      | muddy frothy oil                    | 1.68         |
| 0.00        | would not grind out                 | 0.00         |

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |



# DRILL STEM TEST REPORT

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 2012 **DST#: 3**  
 Test Start: 2021.07.29 @ 11:33:00

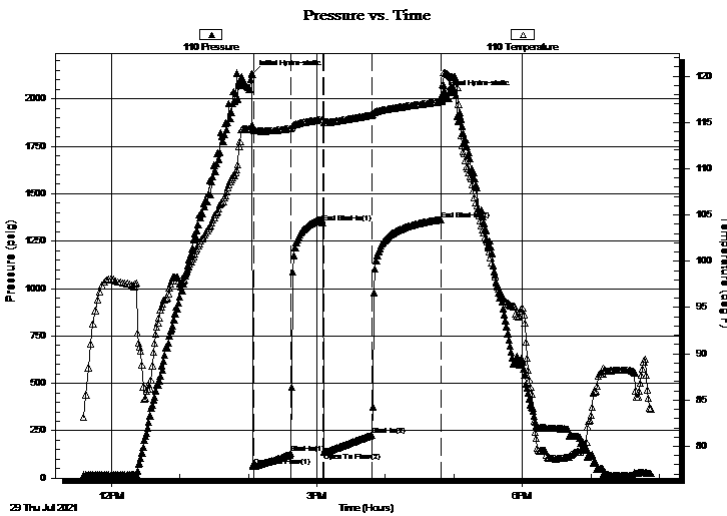
## GENERAL INFORMATION:

Formation: **Simpson**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 14:04:00 Tester: Gene Budig  
 Time Test Ended: 20:11:00 Unit No: 1  
 Interval: **4210.00 ft (KB) To 4247.00 ft (KB) (TVD)** Reference Elevations: 1936.00 ft (KB)  
 Total Depth: 4247.00 ft (KB) (TVD) 1928.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 110

Press@RunDepth: 1363.64 psig @ ft (KB) Capacity: psig  
 Start Date: 2021.07.29 End Date: 2021.07.29 Last Calib.: 1899.12.30  
 Start Time: 11:33:00 End Time: 19:52:30 Time On Btm: 2021.07.29 @ 14:03:30  
 Time Off Btm: 2021.07.29 @ 16:49:30

**TEST COMMENT:** 1st Opening 30 minutes good blow built to the bottom of a 5 gallon bucket in 89 minutes  
 1st shut-in 30 Minutes fair blow back  
 2nd Opening 45 Minutes good blow built to the bottom of a 5 gallon bucket in 8 minutes  
 2nd Shut-In 60 Minutes fair blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2130.45         | 114.71       | Initial Hydro-static |
| 1           | 64.27           | 114.20       | Open To Flow (1)     |
| 34          | 132.18          | 114.36       | Shut-In(1)           |
| 62          | 1347.52         | 115.34       | End Shut-In(1)       |
| 63          | 138.58          | 115.03       | Open To Flow (2)     |
| 105         | 228.03          | 115.81       | Shut-In(2)           |
| 165         | 1363.64         | 117.24       | End Shut-In(2)       |
| 166         | 2021.88         | 117.41       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                         | Volume (bbl) |
|-------------|-------------------------------------|--------------|
| 0.00        | 3100 feet of gas in the pipe        | 0.00         |
| 375.00      | Clean gaas oil gravity 44 corrected | 5.26         |
| 0.00        | 20%Gas 80%Oil                       | 0.00         |
| 120.00      | muddy frothy oil                    | 1.68         |
| 0.00        | would not grind out                 | 0.00         |
|             |                                     |              |

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 2012 **DST#: 3**  
 Test Start: 2021.07.29 @ 11:33:00

## Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4195.00 ft | Diameter: 3.80 inches | Volume: 58.84 bbl              | Tool Weight:           | 2000.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 20000.00 lb |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose:  | 75000.00 lb |
|                           |                    |                       | <u>Total Volume: 58.84 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 13.00 ft           |                       |                                | String Weight: Initial | 55000.00 lb |
| Depth to Top Packer:      | 4210.00 ft         |                       |                                | Final                  | lb          |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 37.00 ft           |                       |                                |                        |             |
| Tool Length:              | 65.00 ft           |                       |                                |                        |             |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                        |             |

Tool Comments:

## Tool Description

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths             |
|---------------------------|--------------|------------|----------|------------|----------------------------|
| Shut In Tool              | 5.00         |            |          | 4187.00    |                            |
| Hydraulic tool            | 5.00         |            |          | 4192.00    |                            |
| Jars                      | 6.00         |            |          | 4198.00    |                            |
| Safety Joint              | 2.00         |            | Fluid    | 4200.00    |                            |
| Top Packer                | 5.00         |            |          | 4205.00    |                            |
| Packer                    | 5.00         |            |          | 4210.00    | 28.00 Bottom Of Top Packer |
| Anchor                    | 32.00        |            |          | 4242.00    |                            |
| Recorder                  | 1.00         | 9119       | Inside   | 4243.00    |                            |
| Recorder                  | 1.00         | 9139       | Outside  | 4244.00    |                            |
| Bullnose                  | 3.00         |            |          | 4247.00    | 37.00 Anchor Tool          |
| <b>Total Tool Length:</b> | <b>65.00</b> |            |          |            |                            |



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Tom Garner Inc.  
 305 east 7th Ave  
 Saint John ,Kansas 67576  
 ATTN: Jim Musgrove

**22-25s-13w Stafford**  
**Patty-Christie**  
 Job Ticket: 2012      **DST#: 3**  
 Test Start: 2021.07.29 @ 11:33:00

### Mud and Cushion Information

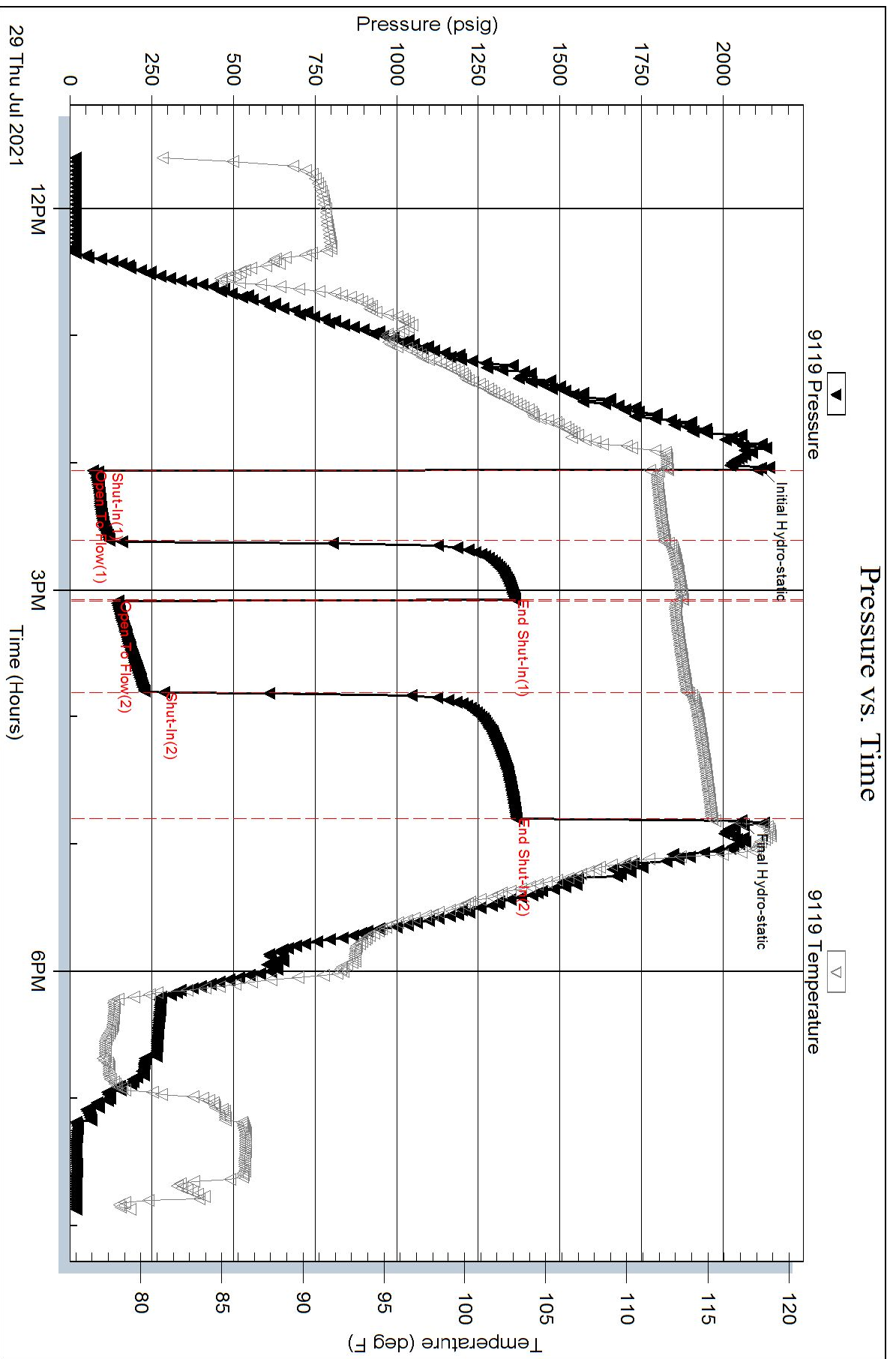
|                                   |                            |                 |         |
|-----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem                | Cushion Type:              | Oil API:        | deg API |
| Mud Weight: 9.00 lb/gal           | Cushion Length: ft         | Water Salinity: | ppm     |
| Viscosity: 58.00 sec/qt           | Cushion Volume: bbl        |                 |         |
| Water Loss: 11.20 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m                | Gas Cushion Pressure: psig |                 |         |
| Salinity: 10500.00 ppm            |                            |                 |         |
| Filter Cake: 1.00 inches          |                            |                 |         |

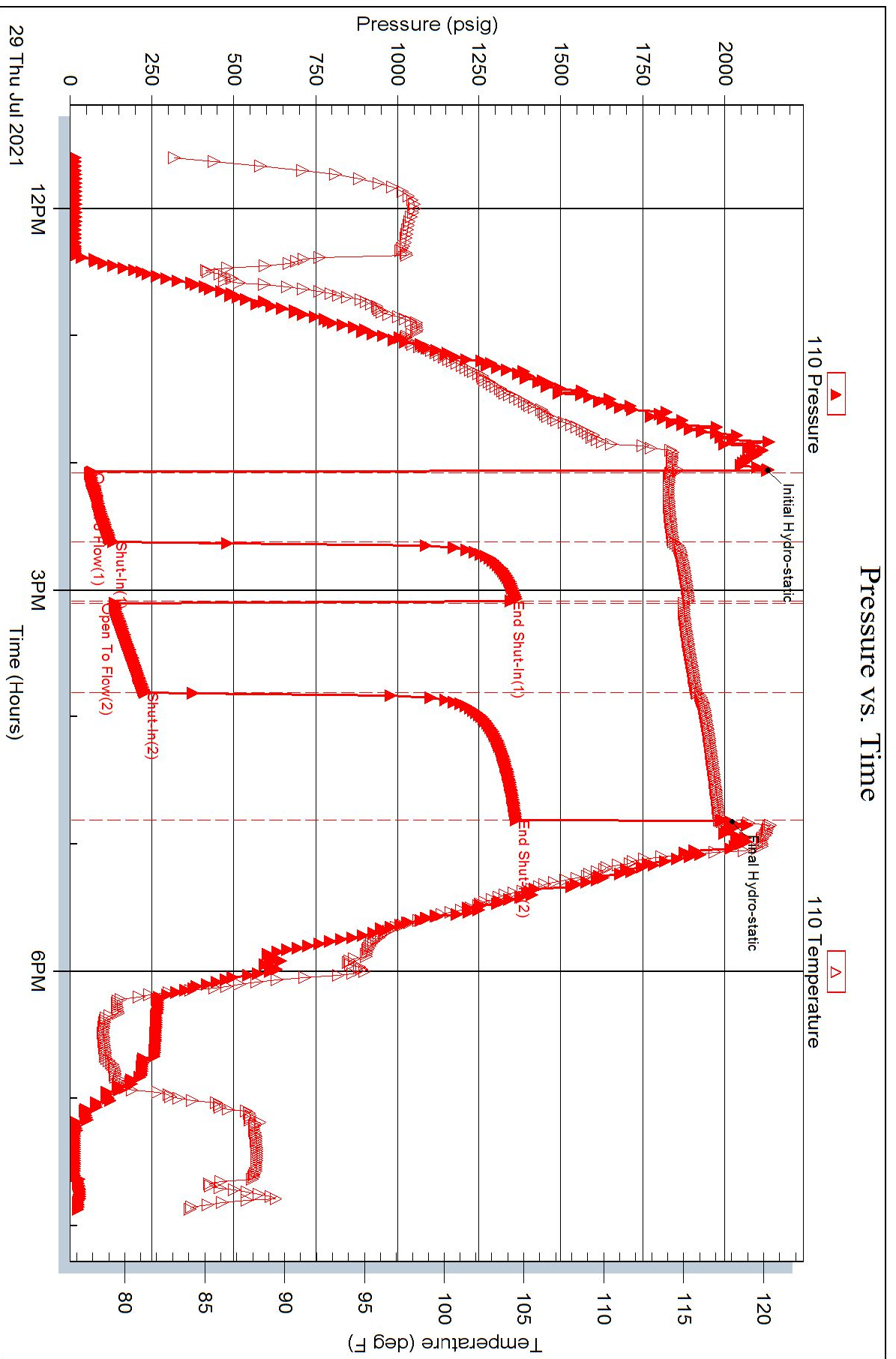
### Recovery Information

Recovery Table

| Length ft | Description                         | Volume bbl |
|-----------|-------------------------------------|------------|
| 0.00      | 3100 feet of gas in the pipe        | 0.000      |
| 375.00    | Clean gaas oil gravity 44 corrected | 5.260      |
| 0.00      | 20%Gas 80%Oil                       | 0.000      |
| 120.00    | muddy frothy oil                    | 1.683      |
| 0.00      | w ould not grind out                | 0.000      |

Total Length: 495.00 ft      Total Volume: 6.943 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



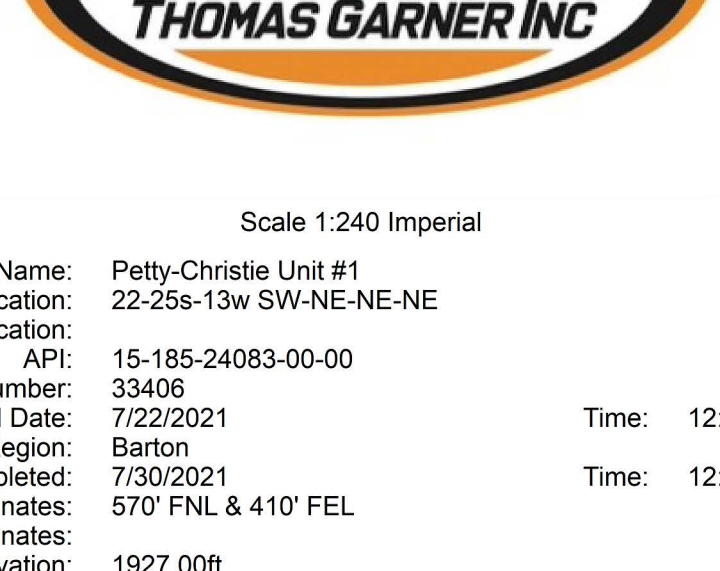


Company: Thomas Garner, Inc.  
 Address: 305 E. 7th Avenue  
 St. John, KS 67576

Contact Geologist:  
 Contact Phone Nbr:

Well Name: Petty-Christie Unit #1  
 Location: 22-25s-13w SW-NE-NE  
 API: 15-185-24083-00-00  
 License Number: 33406  
 Spud Date: 7/22/2021  
 Region: Barton  
 Drilling Completed: 7/30/2021  
 Surface Coordinates: 570 FNL & 410' FEL  
 Bottom Hole Coordinates: K.B. Elevation: 1927.00ft  
 Ground Elevation: 1935.00ft  
 Logged Interval: 3500.00ft  
 Total Depth: 0.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

Field: USA



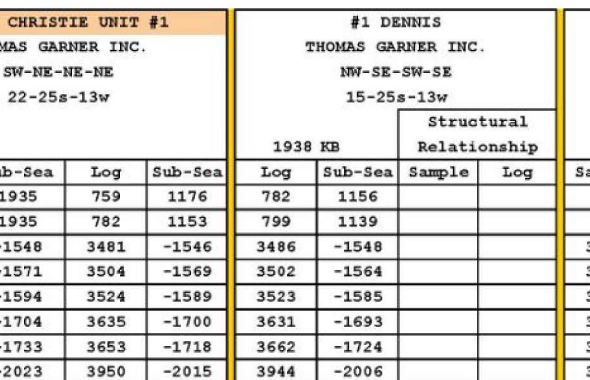
Scale 1:240 Imperial

Well Name: Petty-Christie Unit #1  
 Surface Location: 22-25s-13w SW-NE-NE  
 Bottom Location: API: 15-185-24083-00-00  
 License Number: 33406  
 Spud Date: 7/22/2021  
 Region: Barton  
 Drilling Completed: 7/30/2021  
 Surface Coordinates: 570 FNL & 410' FEL  
 Bottom Hole Coordinates: K.B. Elevation: 1927.00ft  
 Ground Elevation: 1935.00ft  
 Logged Interval: 3500.00ft  
 Total Depth: 0.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 Latitude:  
 N/S Co-ord: 570 FNL  
 E/W Co-ord: 410 FEL

**LOGGED BY**



Company: James C Musgrove Petroleum LLC  
 Address: 212 Main Street/PO Box 215  
 Clifton, KS 67525  
 Phone Nbr: 820-588-4250 620-786-08  
 Logged By: KLG #307  
 Name: James C Musgrove

**CONTRACTOR**

Contractor: Duke Drilling Co.  
 Rig # 2  
 Rig Type: mud rotary  
 Spud Date: 7/22/2021  
 TD Date: 7/30/2021  
 Rig Release:  
 Time: 12:00 AM  
 Time: 12:00 AM

**ELEVATIONS**

K.B. to Elevation: 1935.00ft  
 Ground Elevation: 1927.00ft

**NOTES**

5 1/2" production casing was set and cemented on the Thomas Garner and the following zones should be tested.  
 1) Simpson Sand 4224-4236  
 2) Viola 4120-4128  
 Respectfully Submitted,  
 James C Musgrove  
 Petroleum Geologist  
 PG #307

**well comparison sheet**

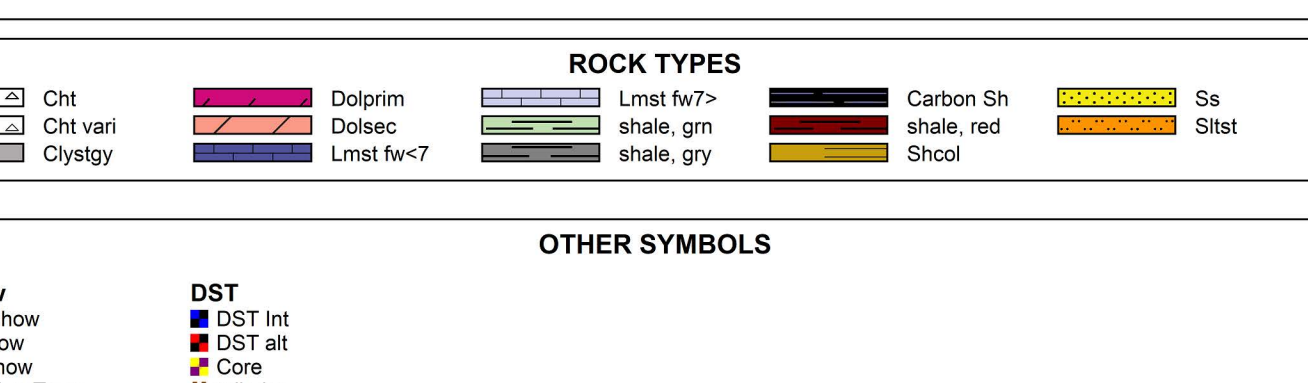
| Formation          | #1 PETTY CHRISTIE UNIT #1 |         |       |         | #1 DEERIES |         |     |         | #1 MCCORMACKS |         |      |         |
|--------------------|---------------------------|---------|-------|---------|------------|---------|-----|---------|---------------|---------|------|---------|
|                    | Sample                    | Sub-Seq | Log   | Sub-Seq | Sample     | Sub-Seq | Log | Sub-Seq | Sample        | Sub-Seq | Log  | Sub-Seq |
| Anhydrite          | 1935                      | 782     | 1153  | 789     | 1159       |         |     |         |               |         |      |         |
| Base Anhydrite     | 1935                      | 782     | 1153  | 789     | 1159       |         |     |         |               |         |      |         |
| Beaumont           | 1843                      | -1549   | 1843  | -1548   | 1848       | -1548   |     |         | 1844          | -1587   | 9    | 21      |
| Toonto             | 3505                      | -1574   | 3504  | -1569   | 3522       | -1564   |     |         | 3504          | -1577   | 6    | 9       |
| Douglas            | 3529                      | -1594   | 3524  | -1589   | 3523       | -1585   |     |         | 3525          | -1598   | 4    | 9       |
| Brown Lime         | 3639                      | -1704   | 3635  | -1700   | 3631       | -1693   |     |         | 3635          | -1708   | 4    | 9       |
| Lansing            | 3668                      | -1733   | 3653  | -1718   | 3625       | -1714   |     |         | 3662          | -1735   | 2    | 17      |
| Base Kansas City   | 3958                      | -2023   | 3950  | -2015   | 3944       | -2006   |     |         | 3932          | -2005   | -18  | -10     |
| Conglomerate       | 4004                      | -2049   | 3999  | -2044   |            |         |     |         | 4043          | -2316   | 47   | 52      |
| Misamisgyp         | 4033                      | -2156   | 4025  | -2152   | 4024       | -2096   |     |         |               |         |      |         |
| Kinderhook         | 1935                      | 4036    | -2151 |         |            |         |     |         |               |         |      |         |
| Viola              | 1095                      | 846     | 4095  | -2160   | 4083       | -2145   |     |         | 4311          | -2384   | 3234 | 24      |
| Simpson Sand       | 1935                      | 4221    | -2216 | 4204    | -2216      |         |     |         | 4221          | -2384   | 6239 | 18      |
| Simpson Sand       | 4229                      | -2294   | 4224  | -2289   | 4216       | -2272   |     |         | 4229          | -2312   | 18   | 23      |
| Arbuckle           | 4298                      | -2363   | 4298  | -2363   |            |         |     |         | 4276          | -2338   |      |         |
| Rotary Total Depth | 4335                      | -2460   | 4335  | -2460   | 4282       | -2344   |     |         |               |         |      |         |
| Log Total Depth    | 4332                      | -2359   | 4332  | -2359   | 4274       | -2316   |     |         | 4252          | -2325   | -70  | -70     |

**DRILL STEM TEST REPORT**  
 Tom Garner Inc. 305 east 7th Ave. Saint John, Kansas 67576  
 Petty-Christie Unit #1  
 Job Ticket: 014170  
 Test Start: 2021.07.27 @ 05:33:00  
 DSE#1

**GENERAL INFORMATION:**  
 Formation: Conglomerate Chert  
 Deviated: No  
 Time Tool Opened: 05:00:00  
 Time Test Ended: 01:30:00  
 Interval: 384.60 ft (KB) To 4040.00 ft (KB) (TVD)  
 Total Depth: 4040.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches-Hole Condition: Fair

Serial #: 9119  
 Press@RunDepth: 106.71 psig @ 4036.00 ft (KB)  
 Start Date: 2021.07.27 18:35:00  
 End Date: 2021.07.28 01:36:00  
 Capacity: 5000.00 psig  
 Last Call: 1899.12.30  
 Time On Btm: 2021.07.27 @ 21:25:30  
 Time Off Btm: 2021.07.27 @ 23:36:00

TEST COMMENT: 1st Opening 10 Minutes weak blow for 3 minutes and died  
 1st Shut-In 45 Minutes no blow  
 2nd Opening 15 Minutes no blow  
 2nd Shut-In 60 Minutes no blow back



| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 15.00       | Drilling Mud | 0.21         |

Gas Rates: Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

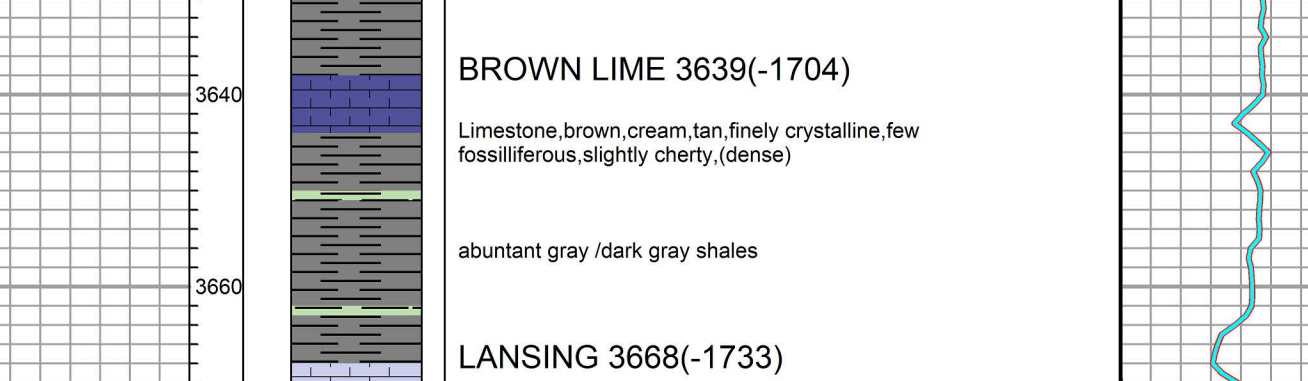
Ref. No: 014170 Printed: 2021.07.28 @ 03:27:21

**DRILL STEM TEST REPORT**  
 Tom Garner Inc. 305 east 7th Ave. Saint John, Kansas 67576  
 Petty-Christie Unit #1  
 Job Ticket: 014171  
 Test Start: 2021.07.28 @ 15:01:00  
 DSE#2

**GENERAL INFORMATION:**  
 Formation: Viola  
 Deviated: No  
 Time Tool Opened: 17:00:00  
 Time Test Ended: 20:11:00  
 Interval: 4108.00 ft (KB) To 4140.00 ft (KB) (TVD)  
 Total Depth: 4140.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches-Hole Condition: Fair

Serial #: 9139  
 Press@RunDepth: 1425.89 psig @ 4137.00 ft (KB)  
 Start Date: 2021.07.28 15:01:00  
 End Date: 2021.07.29 19:52:00  
 Capacity: 5000.00 psig  
 Last Call: 1899.12.30  
 Time On Btm: 2021.07.28 @ 14:02:30  
 Time Off Btm: 2021.07.28 @ 19:59:30

TEST COMMENT: 1st Opening 10 Minutes Strong blow bottom of the bucket in 1 minute  
 1st Shut-In 45 Minutes no blow back  
 2nd Opening 45 Minutes Strong blow gas to surface in 25 minutes  
 2nd Shut-In 60 Minutes no blow back



| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 0.00        | Max gas gauged 2.48 mcf    | 0.00         |
| 375.00      | Clean gas oil cut mcf      | 0.42         |
| 0.00        | 50% Gas 25% Oil 70% Mud    | 0.00         |
| 120.00      | slightly mud cut gassy oil | 0.55         |
| 0.00        | 40% Gas 60% Oil 5% Mud     | 0.00         |

Gas Rates: Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

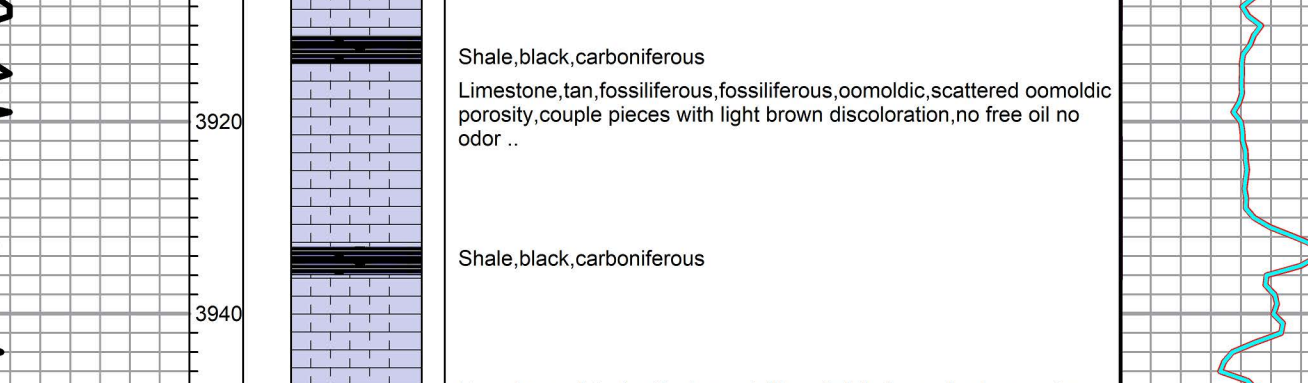
Ref. No: 014171 Printed: 2021.07.28 @ 22:23:22

**DRILL STEM TEST REPORT**  
 Tom Garner Inc. 305 east 7th Ave. Saint John, Kansas 67576  
 Petty-Christie Unit #1  
 Job Ticket: 2012  
 Test Start: 2021.07.29 @ 11:33:00  
 DSE#3

**GENERAL INFORMATION:**  
 Formation: Simpson  
 Deviated: No  
 Time Tool Opened: 14:04:00  
 Time Test Ended: 20:11:00  
 Interval: 4210.00 ft (KB) To 4247.00 ft (KB) (TVD)  
 Total Depth: 4247.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches-Hole Condition: Fair

Serial #: 9119  
 Press@RunDepth: 1367.54 psig @ 4243.00 ft (KB)  
 Start Date: 2021.07.29 11:33:00  
 End Date: 2021.07.29 19:52:00  
 Capacity: 5000.00 psig  
 Last Call: 1899.12.30  
 Time On Btm: 2021.07.29 @ 15:49:00  
 Time Off Btm: 2021.07.29 @ 19:49:00

TEST COMMENT: 1st Opening 30 minutes good blow built to the bottom of a 5 gallon bucket in 89 minutes  
 1st shut-in 30 Minutes far blow back  
 2nd Opening 45 Minutes good blow built to the bottom of a 5 gallon bucket in 89 minutes  
 2nd Shut-In 60 Minutes far blow back



| Length (ft) | Description                         | Volume (bbl) |
|-------------|-------------------------------------|--------------|
| 0.00        | 3100 feet of gas in the pipe        | 0.00         |
| 0.00        | Clean gas oil gravelly 44 corrected | 0.00         |
| 0.00        | 50% Gas 50% Oil                     | 0.00         |
| 120.00      | muddy frothy oil                    | 1.68         |
| 0.00        | w out not grind out                 | 0.00         |

Gas Rates: Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

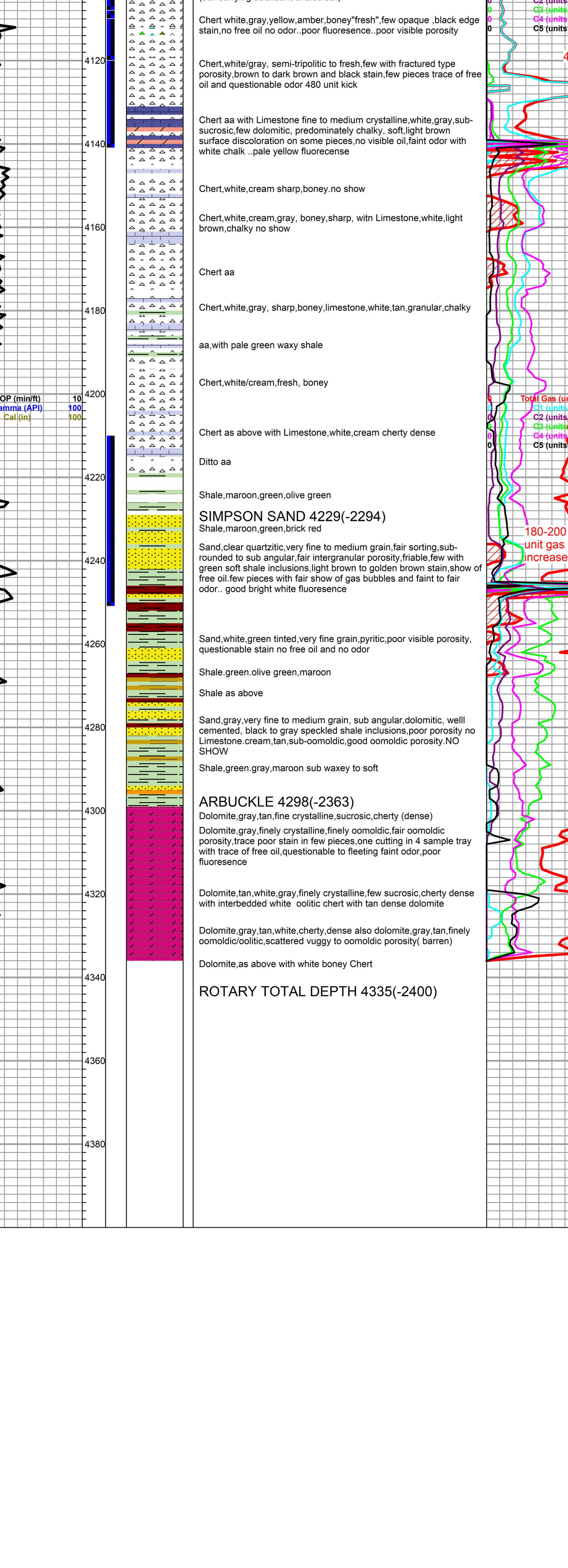
Ref. No: 2012 Printed: 2021.07.29 @ 20:20:56

**ROCK TYPES**

|           |           |            |            |        |
|-----------|-----------|------------|------------|--------|
| Chert     | Dolomite  | Lmsl fw7+  | Carbon Sh  | Ss     |
| Chert var | Dolomite  | shale, grn | shale, red | Siltst |
| Clystly   | Lmsl fw-7 | shale, gry | Shool      |        |

**OTHER SYMBOLS**

- Oil Show
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Str
- Dead Oil Str
- Fluorescence
- Gas
- DST
- DST Int
- DST alt
- Core
- tail pipe



Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)  
 TG, C1 - C5  
 Total Gas (units)  
 C1 (units)  
 C2 (units)  
 C3 (units)  
 C4 (units)  
 C5 (units)



Custom Service, LLC

766 NW 30th St.  
St. John, KS 67576

# Invoice

| Date     | Invoice # |
|----------|-----------|
| 8/1/2021 | 1946      |

| Bill To   |
|---|
| Tom Garner<br>305 E 7th Ave<br>St. John, KS 67576 |

| P.O. No.       | Terms          | Project |
|----------------|----------------|---------|
| PETTY/CHRISTIE | Due on receipt |         |

| Item         | Quantity | Description   | Rate  | Amount |
|--------------|----------|---|-------|--------|
| Water Truck  | 2        | 07/26/2021: 80 BBLs SW FROM RESERVE PIT TO TOLAND SWD - TERRY - | 80.00 | 160.00 |
| Water Truck  | 2        | 07/26/2021: 80 BBLs SW FROM RESERVE PIT TO TOLAND SWD - ARIC -  | 80.00 | 160.00 |
| Disposal Fee | 160      | 07/26/2021: 160 BBLs SW TO SWD                                  | 0.30  | 48.00  |

Thank you for your business. For any questions and concerns please contact Aric at (620)546-4205

**Total**

\$368.00