

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](mailto: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>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> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
|                |                 |                    |                  |                    |   |
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|                |                 |                    |                  |                    |   |
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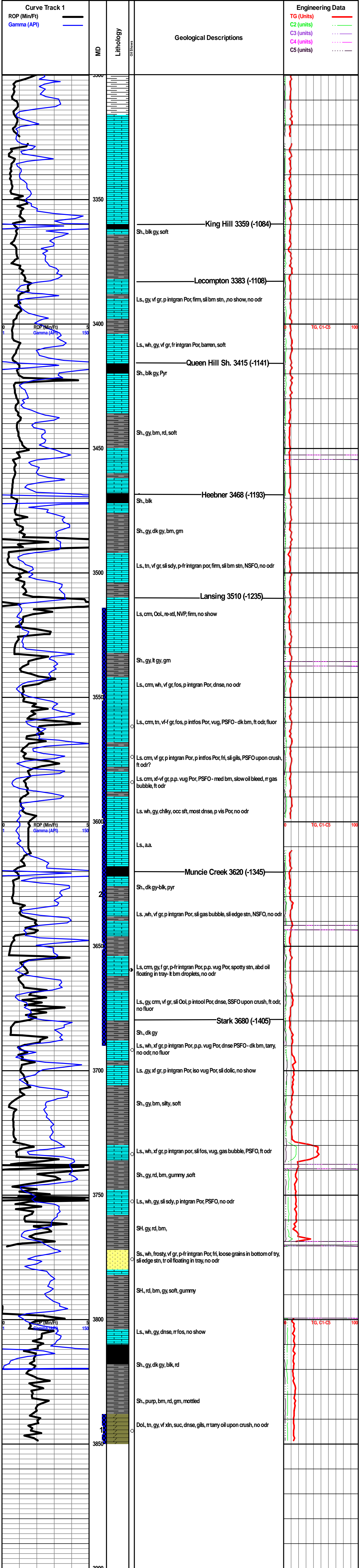
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|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: |  |
|----------------|-------|---------|------------|--|

|           |                               |
|-----------|-------------------------------|
| Form      | ACO1 - Well Completion        |
| Operator  | Satchell Creek Petroleum, LLC |
| Well Name | WORCESTER A11-21              |
| Doc ID    | 1736628                       |

Perforations

| Shots Per Foot | Perforation Top | Perforation Bottom | BridgePlugType | BridgePlugSet At | Material Record    |
|----------------|-----------------|--------------------|----------------|------------------|--------------------|
| 4              | 3544            | 3548               |                |                  | 437.5 gal, 20% HCL |
| 4              | 3558            | 3560               |                |                  | 437.5 gal, 20% HCL |
| 4              | 3582            | 3586               |                |                  | 437.5 gal, 20% HCL |
| 4              | 3636            | 3638               |                |                  | 437 gal, 20% HCL   |
| 4              | 3667            | 3670               |                |                  | 150 gal, 20% HCL   |
| 4              | 3745            | 3752               |                |                  | 150 gal, 20% HCL   |







| CEMENT TREATMENT REPORT |                |         |                     |          |          |
|-------------------------|----------------|---------|---------------------|----------|----------|
| Customer:               | Satchell Creek | Well:   | Worcester A # 11-21 | Ticket:  | WP4489   |
| City, State:            | Hill City      | County: | Graham KS           | Date:    | 7/8/2023 |
| Field Rep:              |                | S-T-R:  | 21-7S-22W           | Service: | Surface  |

| Downhole Information |           | Calculated Slurry - Lead |                           | Calculated Slurry - Tail |                      |
|----------------------|-----------|--------------------------|---------------------------|--------------------------|----------------------|
| Hole Size:           | 12 1/4 in | Blend:                   | HXH-325                   | Blend:                   |                      |
| Hole Depth:          | 222 ft    | Weight:                  | 14.8 ppg                  | Weight:                  | ppg                  |
| Casing Size:         | 8 5/8 in  | Water / Sx:              | 6.9 gal / sx              | Water / Sx:              | gal / sx             |
| Casing Depth:        | 222 ft    | Yield:                   | 1.41 ft <sup>3</sup> / sx | Yield:                   | ft <sup>3</sup> / sx |
| Tubing / Liner:      | in        | Annular Bbls / Ft.:      | 0.0735 bbs / ft.          | Annular Bbls / Ft.:      | bbs / ft.            |
| Depth:               | ft        | Depth:                   | 256 ft                    | Depth:                   | ft                   |
| Tool / Packer:       |           | Annular Volume:          | 18.8 bbls                 | Annular Volume:          | 0 bbls               |
| Tool Depth:          | ft        | Excess:                  |                           | Excess:                  |                      |
| Displacement:        | 13.0 bbls | Total Slurry:            | 50.1 bbls                 | Total Slurry:            | 0.0 bbls             |
|                      |           | Total Sacks:             | 200 sx                    | Total Sacks:             | 0 sx                 |

|       |      | STAGE | TOTAL |      |  |
|-------|------|-------|-------|------|--|
| TIME  | RATE | PSI   | BBLs  | BBLs | REMARKS                                |
| 130pm |      |       | -     | -    | Arrived on location                    |
| 200pm |      |       |       | -    | Safety meeting                         |
| 330pm |      |       |       | -    | Rigged up                              |
|       |      |       |       |      |  |
| 354pm | 5.5  | 170.0 | 5.0   | 5.0  | H2O Ahead                              |
| 359pm | 4.0  | 200.0 | 50.1  | 55.1 | Cement Slurry HXH-325 200sks @ 14.8ppg |
| 411pm | 3.5  | 220.0 | 13.0  | 68.1 | Displacement                           |
| 416pm |      | 150.0 |       | 68.1 | Plug Down                              |
|       |      |       |       | 68.1 | Circulated 13bbls Cement to Pit        |
| 420pm |      |       |       | 68.1 | Wash Up                                |
| 430pm |      |       |       | 68.1 | Rig Down                               |
| 440pm |      |       |       |      | Leave Location                         |
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| CREW           |         | UNIT | SUMMARY      |                  |             |
|----------------|---------|------|--------------|------------------|-------------|
| Cementer:      | Spencer | 945  | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | Michael | 230  | 4.3 bpm      | 185 psi          | 68 bbls     |
| Bulk #1:       | Lupe    | 205  |              |                  |             |
| Bulk #2:       | Hunter  |      |              |                  |             |



### CEMENT TREATMENT REPORT

|              |                |         |                    |          |            |
|--------------|----------------|---------|--------------------|----------|------------|
| Customer:    | Satchell Creek | Well:   | Worcester A #11-21 | Ticket:  | WP 4514    |
| City, State: | Hill City KS   | County: | Graham KS          | Date:    | 7/15/2023  |
| Field Rep:   | Todd Mersch    | S-T-R:  | 21-7S-22W          | Service: | Longstring |

| Downhole Information       | Calculated Slurry - Lead             | Calculated Slurry - Tail             |
|----------------------------|--------------------------------------|--------------------------------------|
| Hole Size: 7 7/8 in        | Blend: H-Plug A                      | Blend: H-LD                          |
| Hole Depth: 3850 ft        | Weight: 13.8 ppg                     | Weight: 14.8 ppg                     |
| Casing Size: 5 1/2 in      | Water / Sx: 6.9 gal / sx             | Water / Sx: 6.5 gal / sx             |
| Casing Depth: 3848 ft      | Yield: 1.42 ft <sup>3</sup> / sx     | Yield: 1.51 ft <sup>3</sup> / sx     |
| Tubing / Liner: in         | Annular Bbls / Ft.: 0.0309 bbs / ft. | Annular Bbls / Ft.: 0.0309 bbs / ft. |
| Depth: ft                  | Depth: 3848 ft                       | Depth: 3848 ft                       |
| Tool / Packer: Port Collar | Annular Volume: 118.9 bbls           | Annular Volume: 118.9032 bbls        |
| Tool Depth: 1923 ft        | Excess:                              | Excess:                              |
| Displacement: 91.1 bbls    | Total Slurry: 7.5 bbls               | Total Slurry: 47.0 bbls              |
|                            | Total Sacks: 30 sx                   | Total Sacks: 175 sx                  |

| TIME    | RATE | PSI     | BBLs | STAGE TOTAL BBLs | REMARKS  |
|---------|------|---------|------|------------------|--|
| 6:00 PM |      |         | -    | -                | Arrived on location, casing was on bottom and rig was circling |
| 6:10 PM |      |         |      | -                | Safety meeting   |
| 6:20 PM |      |         |      | -                | Rigged up  |
| 6:44 PM | 4.0  | 250.0   | 10.0 | 10.0             | Water ahead  |
| 6:47 PM | 4.0  | 300.0   | 12.0 | 22.0             | Pumped 500 gallons of mud flush                                |
| 6:51 PM | 5.0  | 400.0   | 10.0 | 32.0             | Water behind   |
| 6:57 PM | 3.2  | 150.0   | 7.5  | 39.5             | Mixed 30 sacks H-Plug A cement @ 13.8 ppg for rathole plug     |
| 7:02 PM | 3.0  | 200.0   | 47.0 | 86.5             | Mixed 175 sacks H-LD cement @ 14.8 ppg down hole               |
| 7:30 PM |      |         |      | 86.5             | Shut down, loaded plug, cleared pump and lines                 |
| 7:36 PM | 6.5  | 200.0   | 81.1 | 167.6            | Begin displacement with 2% KCL in first 40 bbls                |
| 7:50 PM | 3.0  | 750.0   | 10.0 | 177.6            | Slowed down to 3.0 bpm 10 bbls to go                           |
| 7:53 PM |      | 1,600.0 |      |                  | Plug down with 900 landing psi and 1600 bump psi               |
| 7:55 PM |      |         |      |                  | Released pressure plug held with .5 bbls back to tank          |
| 7:57 PM |      |         |      |                  | Washed up and rigged down                                      |
| 8:45 PM |      |         |      |                  | Left location  |
|         |      |         |      |                  |  |
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| CREW           | UNIT   | SUMMARY |              |                  |             |
|----------------|--------|---------|--------------|------------------|-------------|
| Cementer:      | John   | 947     | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | Mark   | 916     | 4.1 bpm      | 481 psi          | 178 bbls    |
| Bulk #1:       | Jose T | 208     |              |                  |             |
| Bulk #2:       | Edward | 194-235 |              |                  |             |



## DRILL STEM TEST REPORT

Prepared For: **Satchell Creek Petroleum**

3032 N Cortina  
Wichita, KS 67205

ATTN: Chris Leiker

### **Worcester A11-21**

#### **Graham County 21-7s-22w**

Start Date: 2023.07.14 @ 10:56:31

End Date: 2023.07.14 @ 19:19:31

Job Ticket #: 01545                      DST #: 1

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

Printed: 2023.07.14 @ 11:07:35





# DRILL STEM TEST REPORT

Satchell Creek Petroleum

**Graham County 21-7s-22w**

3032 N Cortina  
Wichita, KS 67205

**Worcester A11-21**

ATTN: Chris Leiker

Job Ticket: 01545

**DST#: 1**

Test Start: 2023.07.14 @ 10:56:31

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:31

Time Test Ended: 19:19:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Chad

Unit No: 1

**Interval: 3838.00 ft (KB) To 3849.00 ft (KB) (TVD)**

Reference Elevations: 2277.00 ft (KB)

Total Depth: 3849.00 ft (KB) (TVD)

2269.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

## Serial #: 9139

Press@RunDepth: 121.65 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2023.07.14

End Date: 2023.07.14

Last Calib.: 1899.12.30

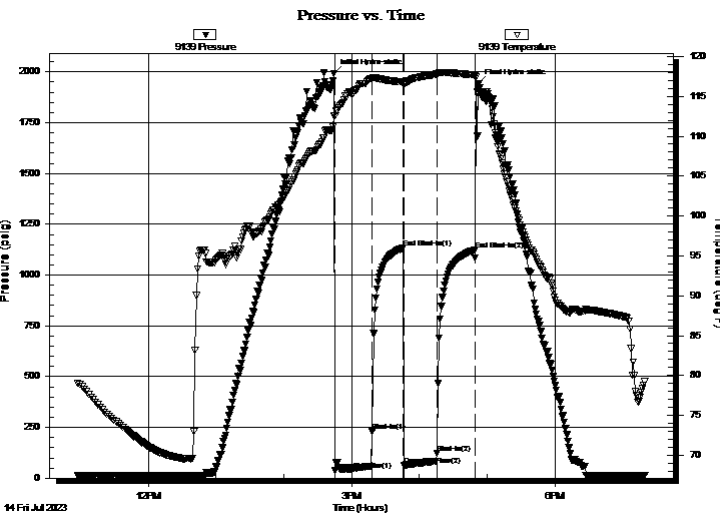
Start Time: 10:56:31

End Time: 19:19:31

Time On Btm: 2023.07.14 @ 14:44:31

Time Off Btm: 2023.07.14 @ 16:52:31

## TEST COMMENT:



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1991.07         | 112.61       | Initial Hydro-static |
| 1           | 38.92           | 112.54       | Open To Flow (1)     |
| 34          | 232.35          | 117.27       | Shut-In(1)           |
| 61          | 1133.74         | 116.78       | End Shut-In(1)       |
| 62          | 63.15           | 116.47       | Open To Flow (2)     |
| 91          | 121.65          | 117.78       | Shut-In(2)           |
| 125         | 1123.29         | 117.67       | End Shut-In(2)       |
| 128         | 1942.73         | 115.41       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                  | Volume (bbl) |
|-------------|------------------------------|--------------|
| 120.00      | Water w/ slight drilling mud |              |
|             |                              |              |
|             |                              |              |
|             |                              |              |
|             |                              |              |

## Gas Rates

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Satchell Creek Petroleum

**Graham County 21-7s-22w**

3032 N Cortina  
Wichita, KS 67205

**Worcester A11-21**

ATTN: Chris Leiker

Job Ticket: 01545

**DST#: 1**

Test Start: 2023.07.14 @ 10:56:31

## Tool Information

|                           |                    |           |             |                                  |                        |             |
|---------------------------|--------------------|-----------|-------------|----------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3819.50 ft | Diameter: | inches      | Volume: 3710348 bbl              | Tool Weight:           | 10000.00 lb |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: | inches      | Volume: 0.00 bbl                 | Weight set on Packer:  | 20000.00 lb |
| Drill Collar:             | Length: 0.00 ft    | Diameter: | inches      | Volume: 0.00 bbl                 | Weight to Pull Loose:  | 45000.00 lb |
|                           |                    |           |             | <u>Total Volume: 3710348 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 10.00 ft           |           |             |                                  | String Weight: Initial | 32000.00 lb |
| Depth to Top Packer:      | 3838.00 ft         |           |             |                                  | Final                  | 34000.00 lb |
| Depth to Bottom Packer:   | ft                 |           |             |                                  |                        |             |
| Interval between Packers: | 11.00 ft           |           |             |                                  |                        |             |
| Tool Length:              | 39.50 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         |      |         | 3814.50 |                            |
| Hydraulic tool            | 6.00         |      |         | 3820.50 |                            |
| Jars                      | 4.00         |      |         | 3824.50 |                            |
| Safety Joint              | 2.50         |      |         | 3827.00 |                            |
| Top Packer                | 6.50         |      |         | 3833.50 |                            |
| Packer                    | 4.50         |      |         | 3838.00 | 28.50 Bottom Of Top Packer |
| Anchor                    | 6.00         |      |         | 3844.00 |                            |
| Recorder                  | 0.00         | 9119 | Inside  | 3844.00 |                            |
| Recorder                  | 0.00         | 9139 | Outside | 3844.00 |                            |
| Bullnose                  | 5.00         |      |         | 3849.00 | 11.00 Anchor Tool          |
| <b>Total Tool Length:</b> | <b>39.50</b> |      |         |         |                            |



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Satchell Creek Petroleum

**Graham County 21-7s-22w**

3032 N Cortina  
Wichita, KS 67205

**Worcester A11-21**

Job Ticket: 01545

**DST#: 1**

ATTN: Chris Leiker

Test Start: 2023.07.14 @ 10:56:31

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                    | Volume<br>bbl |
|--------------|--------------------------------|---------------|
| 120.00       | Water with slight drilling mud |               |

Total Length: 120.00 ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

Satchell Creek Petroleum

**Graham County 21-7s-22w**

3032 N Cortina  
Wichita, KS 67205

**Worcester A11-21**

ATTN: Chris Leiker

Job Ticket: 01545

**DST#: 1**

Test Start: 2023.07.14 @ 10:56:31

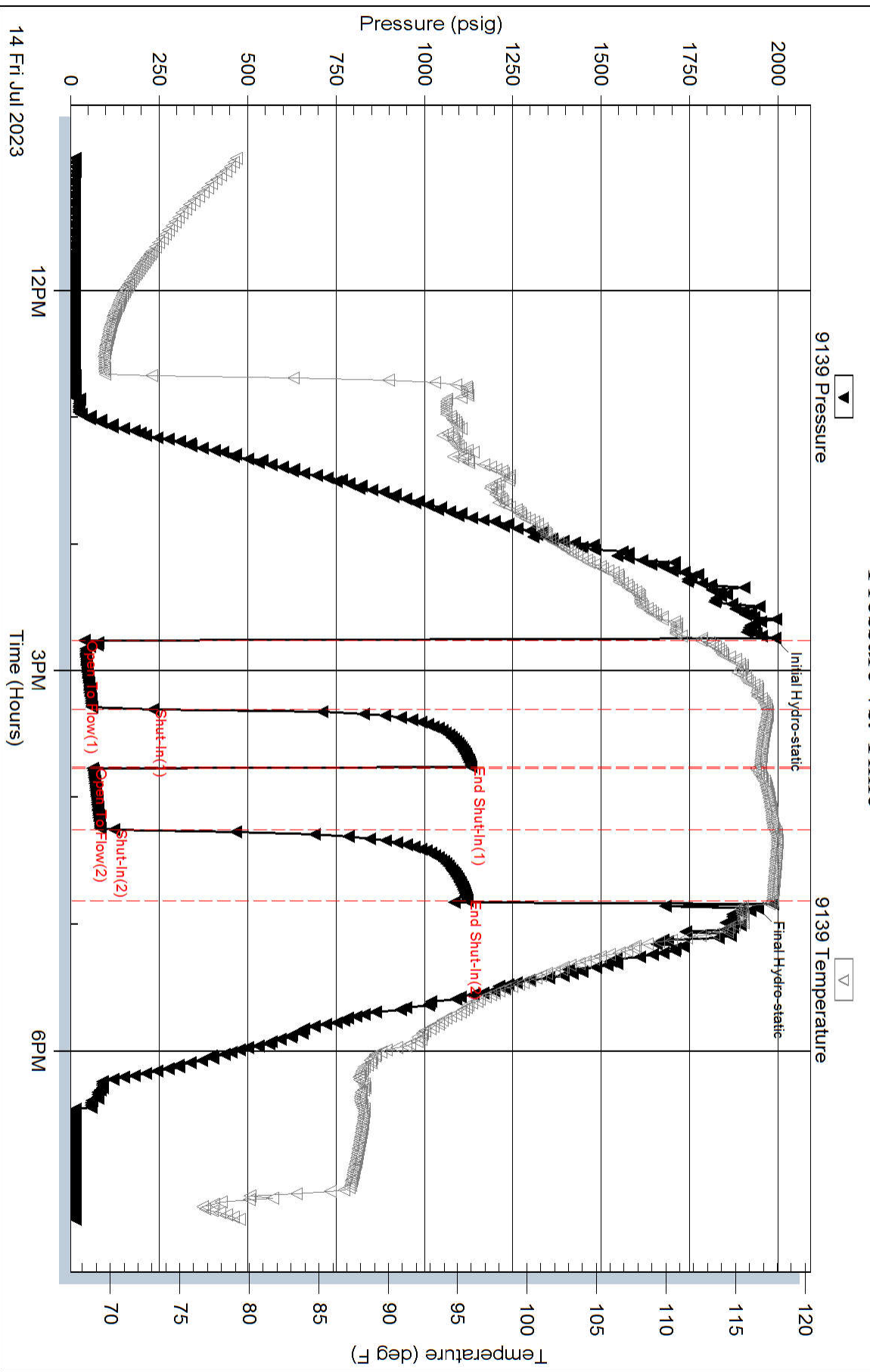
## Gas Rates Information

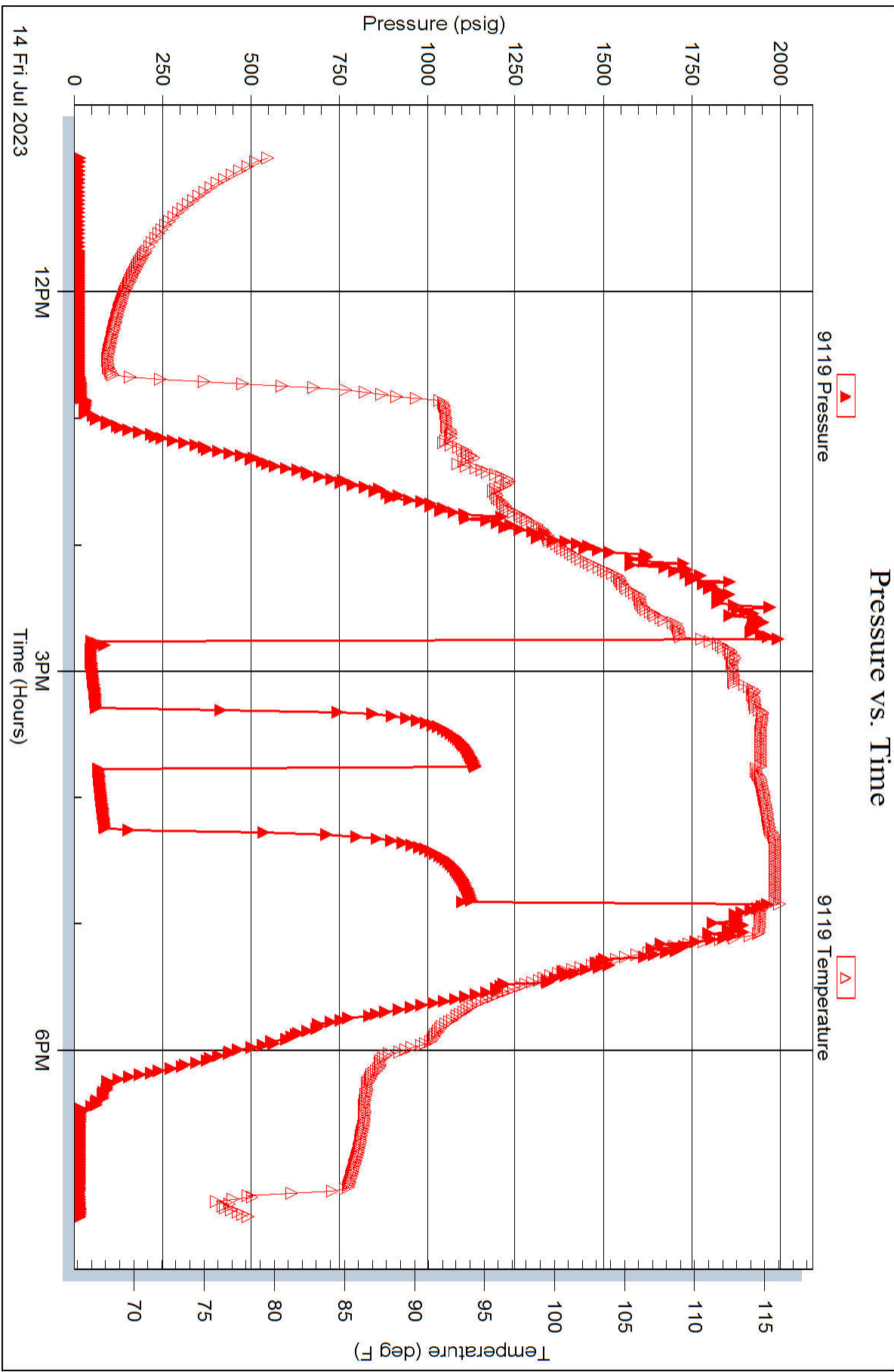
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
|             |              | 0.00           | 0.00            | 0.00             |

### Pressure vs. Time







# DRILL STEM TEST REPORT

Satchell Creek Petroleum

Graham County 21-7s-22w

3032 N Cortina  
Wichita, KS 67205

Worcester A11-21

ATTN: Chris Leiker

Job Ticket: 01545

DST#: 2

Test Start: 2023.07.15 @ 12:09:46

## GENERAL INFORMATION:

Formation: **Lansing C-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:55:46

Time Test Ended: 20:28:46

Test Type: Conventional Straddle (Initial)

Tester: Chad

Unit No: 1

Interval: ft (KB) To ft (KB) (TVD)

Total Depth: 3840.00 ft (KB) (TVD)

Hole Diameter: 8.75 inches Hole Condition: Poor

Reference Elevations: 2277.00 ft (KB)

2269.00 ft (CF)

KB to GR/CF: 8.00 ft

## Serial #: 9139

Press@RunDepth: 159.33 psig @ ft (KB)

Start Date: 2023.07.15

End Date: 2023.07.15

Start Time: 12:09:46

End Time: 20:28:46

Capacity: 5000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2023.07.15 @ 14:54:46

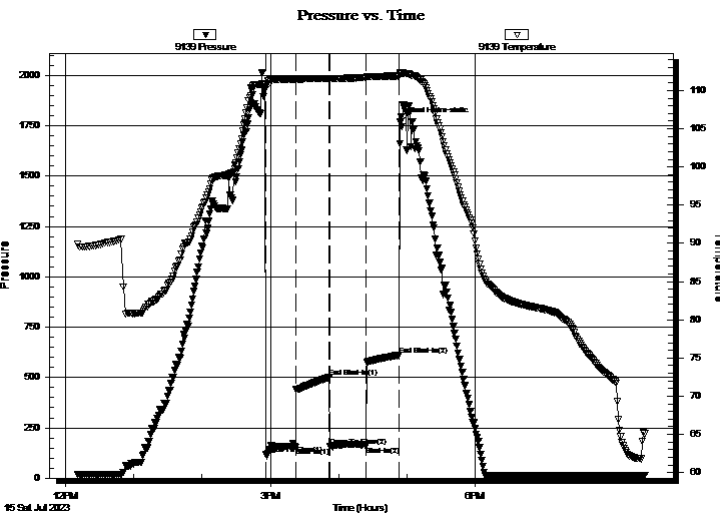
Time Off Btm: 2023.07.15 @ 16:54:16

TEST COMMENT: Initial Opening: Built to 7" and started to die off by 30 mins down to 4"

Shut In: N/A

Second Opening: Weak surface blow

Shut In: N/A



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1926.75         | 110.78       | Initial Hydro-static |
| 1           | 120.29          | 110.43       | Open To Flow (1)     |
| 28          | 151.84          | 111.43       | Shut-In(1)           |
| 57          | 501.39          | 111.61       | End Shut-In(1)       |
| 58          | 157.78          | 111.53       | Open To Flow (2)     |
| 89          | 159.33          | 111.69       | Shut-In(2)           |
| 118         | 611.31          | 111.91       | End Shut-In(2)       |
| 120         | 1770.70         | 112.20       | Final Hydro-static   |

## Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 90.00       | Drilling Mud |              |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

## Gas Rates

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







# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Satchell Creek Petroleum

**Graham County 21-7s-22w**

3032 N Cortina  
Wichita, KS 67205

**Worcester A11-21**

ATTN: Chris Leiker

Job Ticket: 01545

**DST#: 2**

Test Start: 2023.07.15 @ 12:09:46

## Tool Information

|                           |         |    |           |        |               |       |                        |             |
|---------------------------|---------|----|-----------|--------|---------------|-------|------------------------|-------------|
| Drill Pipe:               | Length: | ft | Diameter: | inches | Volume:       | - bbl | Tool Weight:           | 10000.00 lb |
| Heavy Wt. Pipe:           | Length: | ft | Diameter: | inches | Volume:       | - bbl | Weight set on Packer:  | 20000.00 lb |
| Drill Collar:             | Length: | ft | Diameter: | inches | Volume:       | - bbl | Weight to Pull Loose:  | 45000.00 lb |
|                           |         |    |           |        | Total Volume: | - bbl | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      |         | ft |           |        |               |       | String Weight: Initial | 32000.00 lb |
| Depth to Top Packer:      |         | ft |           |        |               |       | Final                  | 32000.00 lb |
| Depth to Bottom Packer:   |         | ft |           |        |               |       |                        |             |
| Interval between Packers: | 0.00    | ft |           |        |               |       |                        |             |
| Tool Length:              | 350.00  | ft |           |        |               |       |                        |             |
| Number of Packers:        | 3       |    | Diameter: | 6.75   | inches        |       |                        |             |
| Tool Comments:            |         |    |           |        |               |       |                        |             |

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

|                    |        |      |         |        |             |
|--------------------|--------|------|---------|--------|-------------|
| Shut In Tool       | 5.00   |      |         | 5.00   |             |
| Hydraulic tool     | 5.00   |      |         | 10.00  |             |
| Jars               | 5.00   |      |         | 15.00  |             |
| Safety Joint       | 2.00   |      |         | 17.00  |             |
| top Packer - Shale | 5.00   |      |         | 22.00  |             |
| Packer - Shale     | 5.00   |      |         | 27.00  |             |
| Change Over Sub    | 0.75   |      |         | 27.75  |             |
| Drill Pipe         | 0.00   |      |         | 27.75  |             |
| Change Over Sub    | 0.75   |      |         | 28.50  |             |
| Anchor             | 139.00 |      |         | 167.50 |             |
| Recorder           | 0.00   |      | Inside  | 167.50 |             |
| Recorder           | 0.00   |      | Outside | 167.50 |             |
| Blank Off Sub      | 1.00   |      |         | 168.50 |             |
| Packer - Shale     | 5.00   |      |         | 173.50 |             |
| Change Over Sub    | 0.75   |      |         | 174.25 |             |
| Drill Pipe         | 0.00   | 9119 | Inside  | 174.25 |             |
| Change Over Sub    | 0.75   | 9139 | Outside | 175.00 |             |
| Anchor             | 170.00 |      |         | 345.00 |             |
| Recorder           | 0.00   |      |         | 345.00 |             |
| Bullnose           | 5.00   |      |         | 350.00 | 350.00      |
|                    |        |      |         |        | Anchor Tool |

**Total Tool Length: 350.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Satchell Creek Petroleum

**Graham County 21-7s-22w**

3032 N Cortina  
Wichita, KS 67205

**Worcester A11-21**

Job Ticket: 01545

**DST#: 2**

ATTN: Chris Leiker

Test Start: 2023.07.15 @ 12:09:46

### 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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 90.00        | Drilling Mud |               |

Total Length: 90.00 ft      Total Volume:                      bbl

Num Fluid Samples: 0                      Num Gas Bombs: 0                      Serial #:

Laboratory Name:                      Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

Satchell Creek Petroleum

**Graham County 21-7s-22w**

3032 N Cortina  
Wichita, KS 67205

**Worcester A11-21**

ATTN: Chris Leiker

Job Ticket: 01545

**DST#: 2**

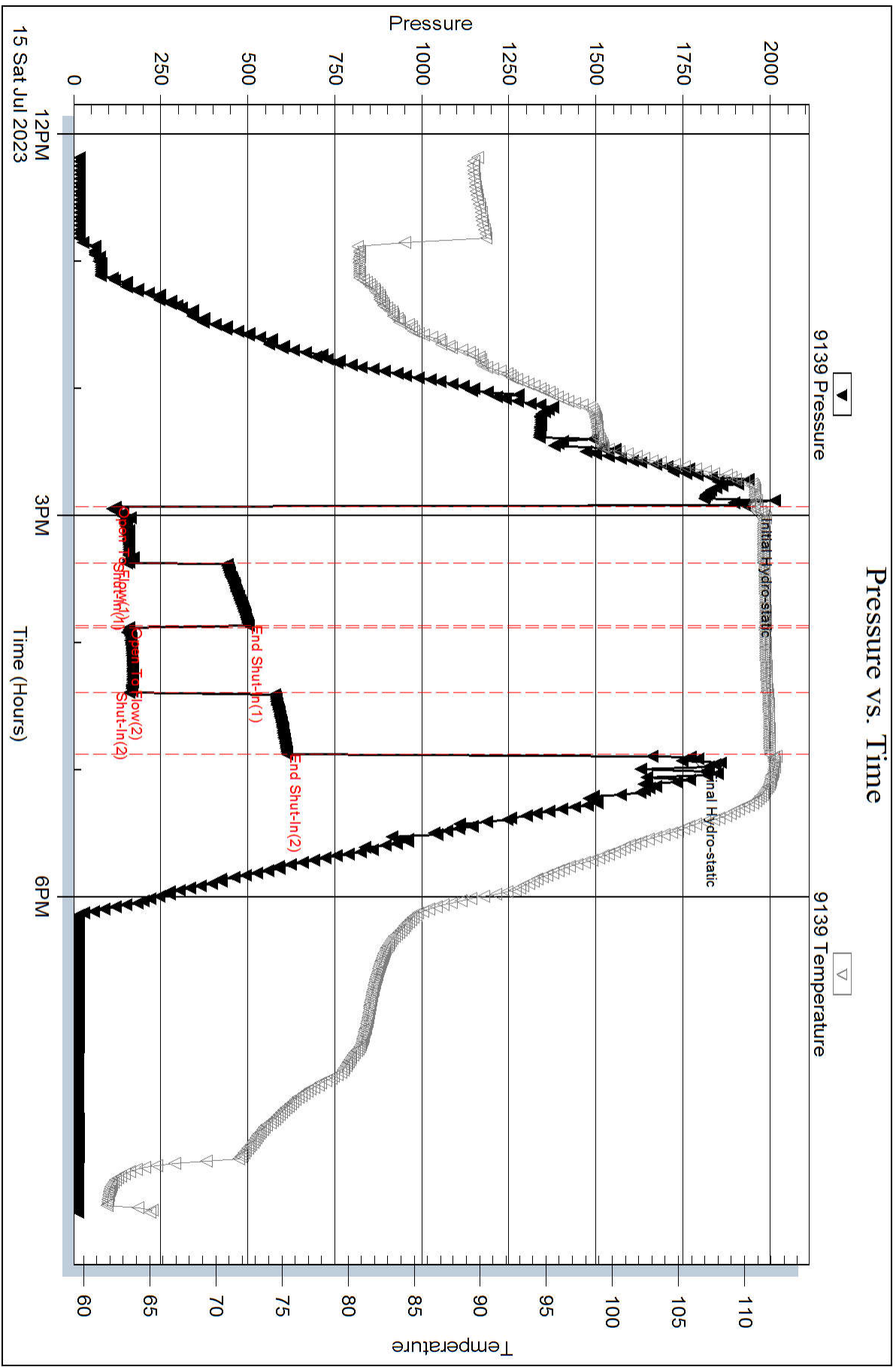
Test Start: 2023.07.15 @ 12:09:46

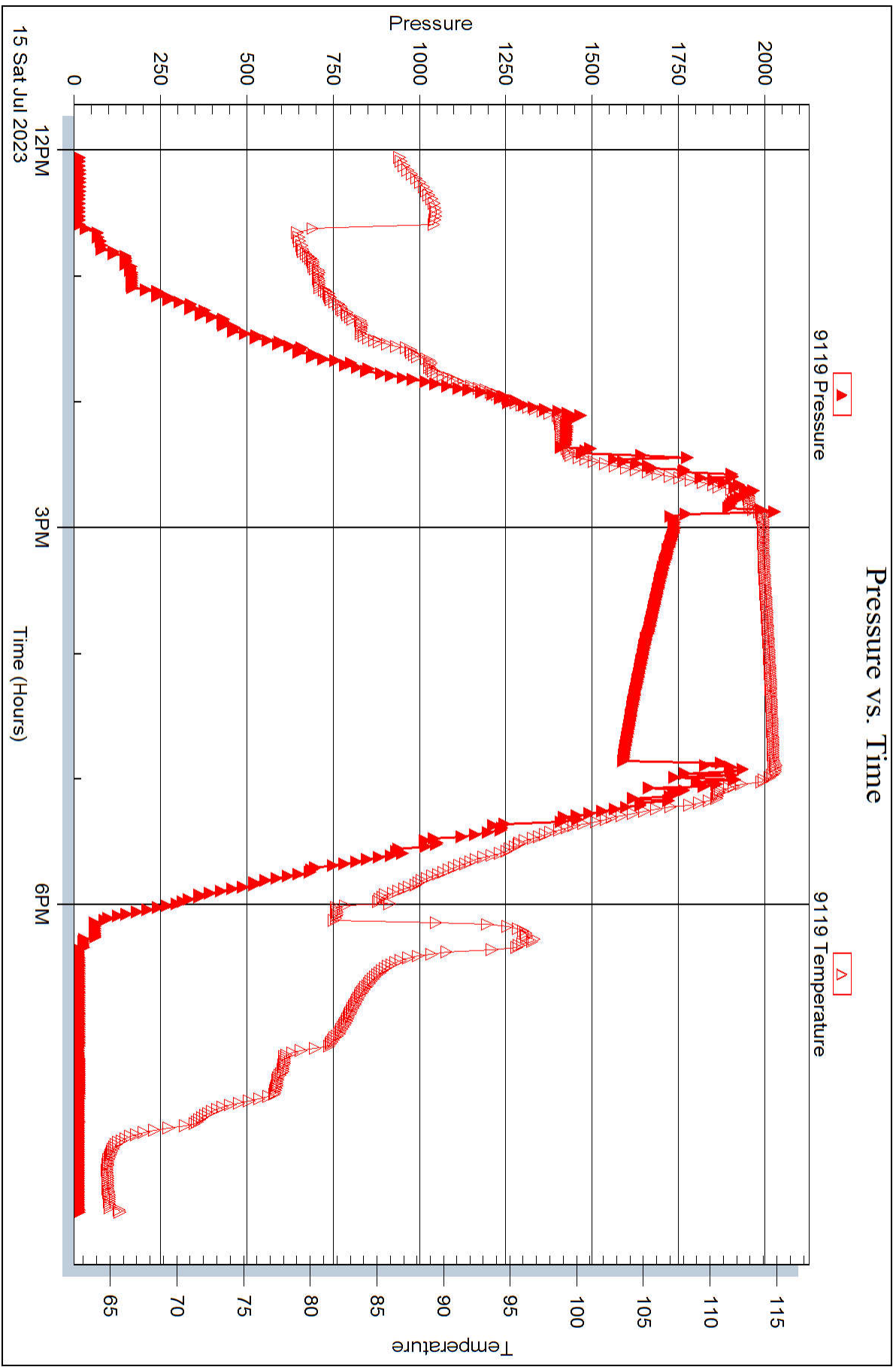
## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
|             |              | 0.00           | 0.00            | 0.00             |





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3735

|      |         |      |    |      |   |       |    |        |        |       |    |             |  |        |  |
|------|---------|------|----|------|---|-------|----|--------|--------|-------|----|-------------|--|--------|--|
| Date | 7/27/23 | Sec. | 18 | Twp. | 7 | Range | 22 | County | Graham | State | Ks | On Location |  | Finish |  |
|------|---------|------|----|------|---|-------|----|--------|--------|-------|----|-------------|--|--------|--|

Lease Worcester Well No. A-11-21 Location Hill City B70310R3 3N

Contractor Professional Owner To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job PC Charge To Satchell Creek Pet LLC

Hole Size 7 7/8 T.D. \_\_\_\_\_  
Csg. 5 1/2 Depth \_\_\_\_\_

Tbg. Size 2 7/8 Depth \_\_\_\_\_  
Tool \_\_\_\_\_ Depth \_\_\_\_\_

Cement Left in Csg. \_\_\_\_\_ Shoe Joint \_\_\_\_\_  
The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line \_\_\_\_\_ Displace \_\_\_\_\_  
Cement Amount Ordered 5000 Qm DC to Flo

**EQUIPMENT**

|                   |     |               |               |          |                   |
|-------------------|-----|---------------|---------------|----------|-------------------|
| Pumptrk <u>16</u> | No. | Cement Helper | <u>BH</u>     | Common   | <u>3000 Qm DC</u> |
| Bulktrk           | No. | Driver        | <u>JORDAN</u> | Poz. Mix |                   |
| Bulktrk <u>21</u> | No. | Driver        | <u>DAUG</u>   | Gel.     |                   |
|                   | No. | Driver        |               | Calcium  |                   |

**JOB SERVICES & REMARKS**

|                       |                         |
|-----------------------|-------------------------|
| Remarks:              | Salt                    |
| Rat Hole              | Flowseal <u>250#</u>    |
| Mouse Hole            | Kol-Seal                |
| Centralizers          | Mud CLR 48              |
| Baskets               | CFL-117 or CD110 CAF 38 |
| D/V or Port Collar    | Sand                    |
| <u>P.C. e 1916</u>    | Handling                |
| <u>pump 3000#</u>     | Mileage                 |
| <u>Cent Did Circ.</u> |                         |

**FLOAT EQUIPMENT**

|                   |             |
|-------------------|-------------|
|                   | Guide Shoe  |
|                   | Centralizer |
|                   | Baskets     |
|                   | AFU Inserts |
| <u>used 3000#</u> | Float Shoe  |
|                   | Latch Down  |

Bill is the Best!

Pumptrk Charge part collar Job  
Mileage 53

Thanks

X Signature [Signature]

Tax \_\_\_\_\_  
Discount \_\_\_\_\_  
Total Charge \_\_\_\_\_