

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 <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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 <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <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: <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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	WORCESTER A 10-21
Doc ID	1735554

All Electric Logs Run

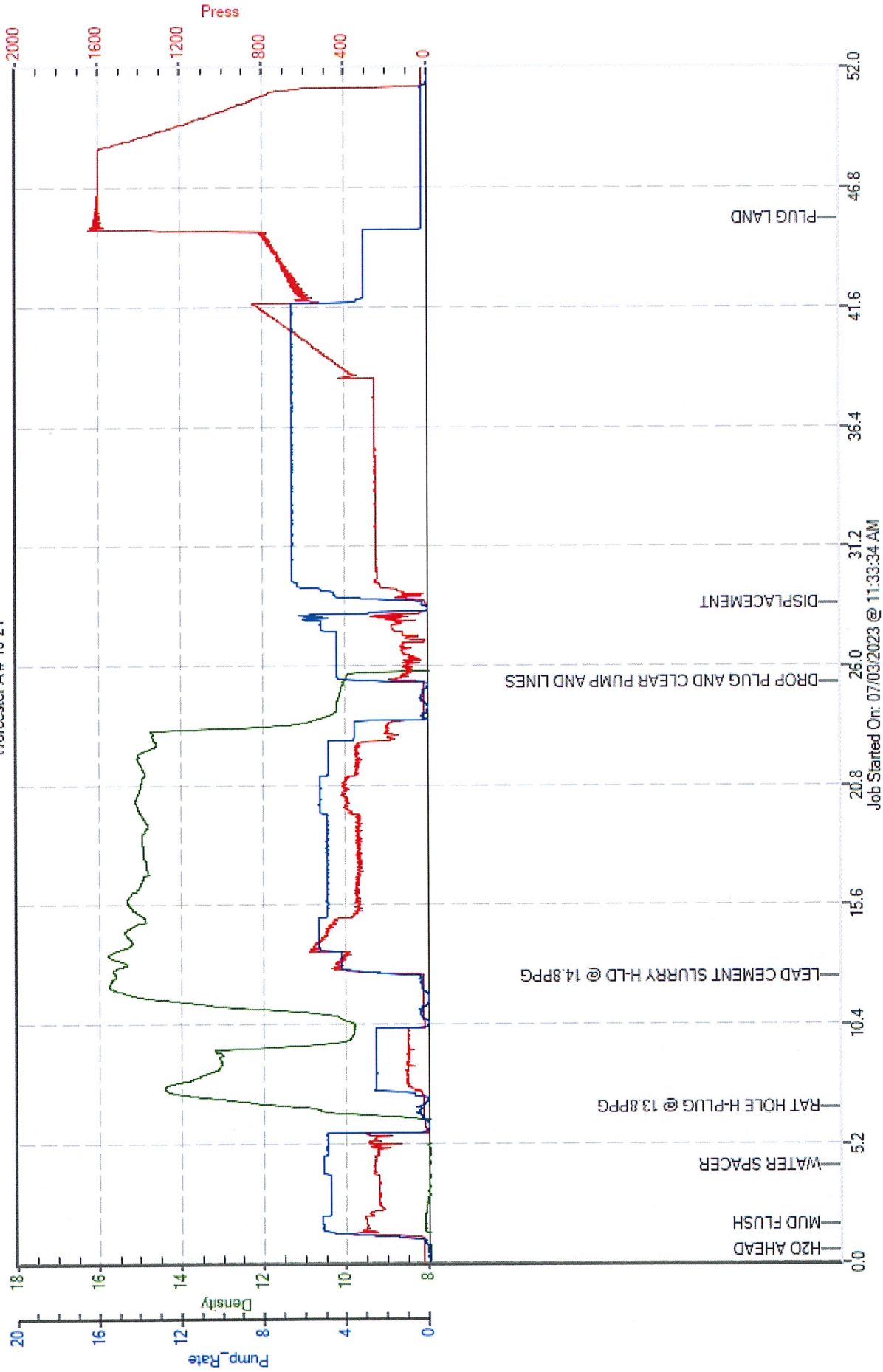
BHCS
BHV
DIL
DUCP
MEL

Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	WORCESTER A 10-21
Doc ID	1735554

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	3556	3560			62.5 gal 20% HCL
4	3570	3574			62.5 gal 20% HCL
4	3586	3590			62.5 gal 20% HCL
4	3594	3598			62.5 gal 20% HCL
4	3648	3652			62.5 gal 20% HCL
4	3683	3685			62.5 gal 20% HCL
4	3702	3706			62.5 gal 20% HCL
4	3789	3799			62.5 gal 20% HCL

Satchell Creek
Worcester A # 10-21



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 3733

785-483-1071
85-324-1041

Date <u>7-26-23</u>	Sec.	Twp.	Range	County <u>Graham</u>	State <u>Ks</u>	On Location	Finish
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Location MILL CITY TO 310RD 3N

Lease <u>Worcester</u>	Well No. <u>A10-21</u>	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.
Contractor <u>Professional</u>		Charge To <u>Satchell Creek Pet. LLC</u>
Type Job <u>P.C.</u>		
Hole Size <u>5 7/8</u>	T.D.	
Csg. <u>5 1/2</u>	Depth	Street
Tbg. Size <u>2 3/8</u>	Depth	City
Tool	Depth	State
Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
		Cement Amount Ordered <u>500y QmDC to FLO</u>

EQUIPMENT

Pumptrk <u>16</u>	No.	Cement Helper	<u>Bill</u>
Bulktrk	No.	Driver	<u>JORDAN</u>
Bulktrk <u>19</u>	No.	Driver	<u>BRYANT</u>

Common <u>250 QmDC 44P</u>
Poz. Mix
Gel.
Calcium

JOB SERVICES & REMARKS

Remarks:
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar
P.C. c 1859
pump @ 50y Cent
Cent Did CIRC

Hulls
Salt
Flowseal <u>75#</u>
Kol-Seal
Mud CLR 48
CFL-117 or CD110 CAF 38
Sand
Handling <u>500</u>
Mileage

FLOAT EQUIPMENT

Used 250y
NO Gel

Pumptrk Charge	<u>port collar job</u>
Mileage	<u>55</u>

Thanks

Tax
Discount
Total Charge

EDGE MICRO PERFORMED FOR CLEAN TEAM



DRILL STEM TEST REPORT

Prepared For: **Satchell Creek Petroleum**

3032 N Cortina
Wichita, KS 67205

ATTN: Chris Leiker

Worcester A10-21

Start Date: 2023.06.27 @ 07:08:34

End Date: 2023.06.27 @ 15:30:34

Job Ticket #: 01542 DST #: 1

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

Printed: 2023.06.27 @ 07:19:25



DRILL STEM TEST REPORT

Satchell Creek Petroleum

3032 N Cortina
Wichita, KS 67205

ATTN: Chris Leiker

Worcester A10-21

Job Ticket: 01542

DST#: 1

Test Start: 2023.06.27 @ 07:08:34

GENERAL INFORMATION:

Formation: **Lansing H, I, J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:57:34

Time Test Ended: 15:30:34

Test Type: Conventional Bottom Hole (Initial)

Tester: Chad

Unit No: 1

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

Reference Elevations: 2287.00 ft (KB)

Total Depth: 3697.00 ft (KB) (TVD)

2279.00 ft (CF)

Hole Diameter: 8.50 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 112.99 psig @ ft (KB)

Capacity: psig

Start Date: 2023.06.27 End Date: 2023.06.27

Last Calib.: 1899.12.30

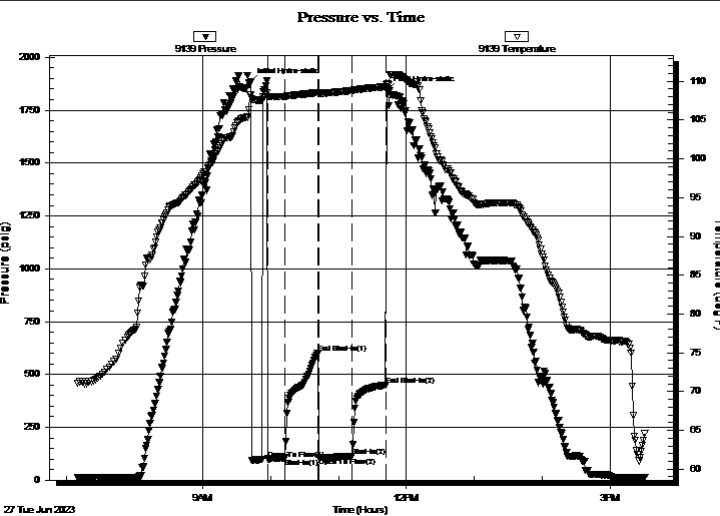
Start Time: 07:08:34 End Time: 15:30:34

Time On Btm: 2023.06.27 @ 09:42:04

Time Off Btm: 2023.06.27 @ 11:42:34

TEST COMMENT: 30-30-30-30

Tool opened prematurely due to a bridge. Tool slid about 8'. Tool was flushed and reset back on bottom with hole open.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1881.28	108.25	Initial Hydro-static
16	100.31	107.99	Open To Flow (1)
31	104.97	108.03	Shut-In(1)
60	599.32	108.54	End Shut-In(1)
61	106.59	108.43	Open To Flow (2)
90	112.99	108.80	Shut-In(2)
120	449.99	109.30	End Shut-In(2)
121	1843.85	109.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	Watery Drilling Mud	

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Satchell Creek Petroleum

3032 N Cortina
Wichita, KS 67205

ATTN: Chris Leiker

Worcester A10-21

Job Ticket: 01542

DST#: 1

Test Start: 2023.06.27 @ 07:08:34

Tool Information

Drill Pipe:	Length: 3626.00 ft	Diameter:	inches	Volume: 3522378 bbl	Tool Weight:	5000.00 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:	65000.00 lb
				<u>Total Volume: 3522378 bbl</u>	Tool Chased	8.00 ft
Drill Pipe Above KB:	24.50 ft				String Weight: Initial	49000.00 lb
Depth to Top Packer:	3630.00 ft				Final	50000.00 lb
Depth to Bottom Packer:	ft					
Interval between Packers:	67.00 ft					
Tool Length:	95.50 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3606.50	
Hydraulic tool	6.00			3612.50	
Jars	4.00			3616.50	
Safety Joint	2.50			3619.00	
Top Packer	6.50			3625.50	
Packer	4.50			3630.00	28.50 Bottom Of Top Packer
Anchor	62.00			3692.00	
Recorder	0.00	9119	Inside	3692.00	
Recorder	0.00	9139	Outside	3692.00	
Bullnose	5.00			3697.00	67.00 Anchor Tool
Total Tool Length:	95.50				



DRILL STEM TEST REPORT

FLUID SUMMARY

Satchell Creek Petroleum

3032 N Cortina
Wichita, KS 67205

ATTN: Chris Leiker

Worcester A10-21

Job Ticket: 01542

DST#: 1

Test Start: 2023.06.27 @ 07:08:34

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 6.80 in³
Resistivity: ohm.m
Salinity: 1100.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	Watery Drilling Mud	

Total Length: 140.00 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

3032 N Cortina
Wichita, KS 67205

ATTN: Chris Leiker

Worcester A10-21

Job Ticket: 01542

DST#: 1

Test Start: 2023.06.27 @ 07:08:34

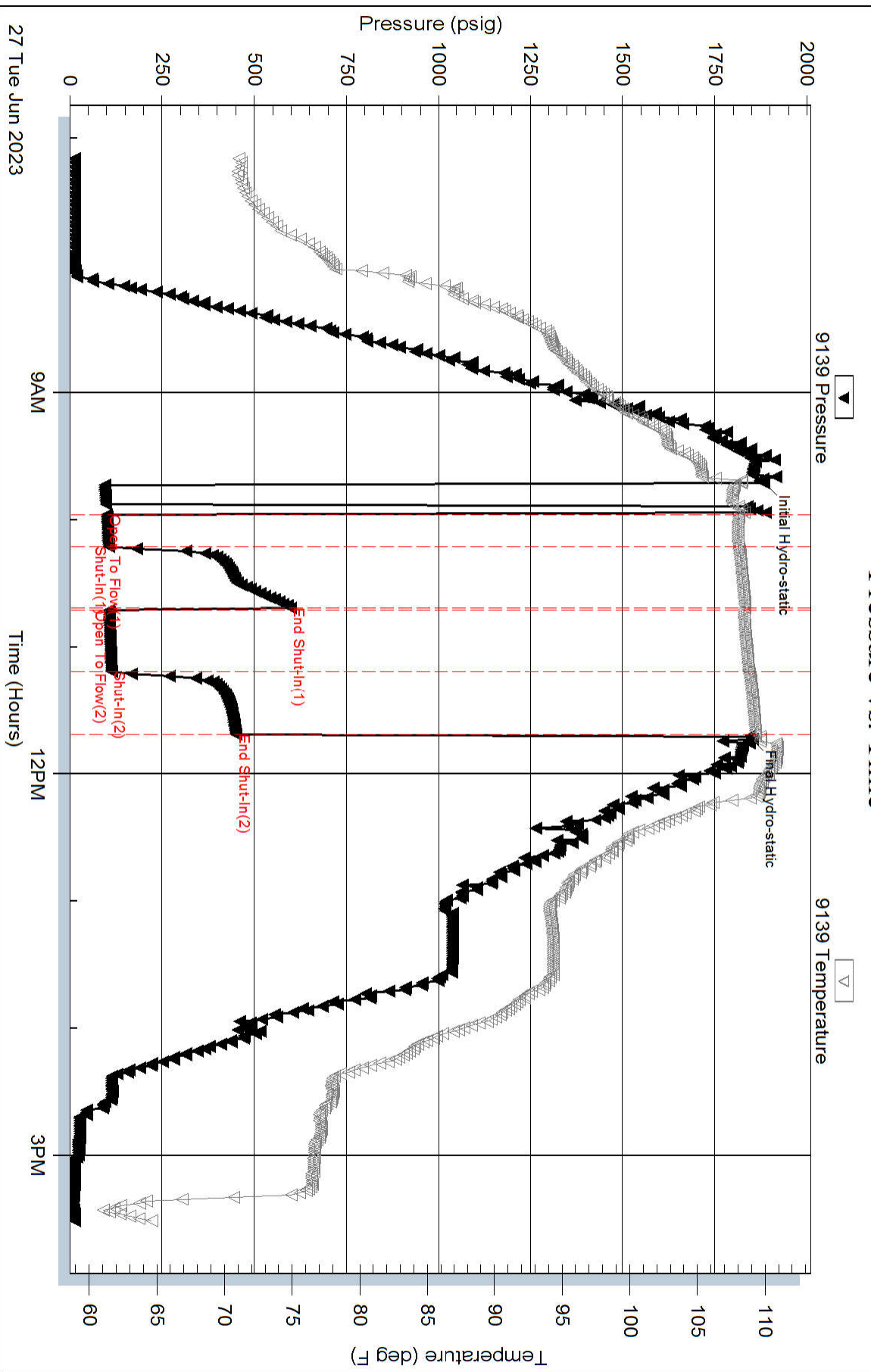
Gas Rates Information

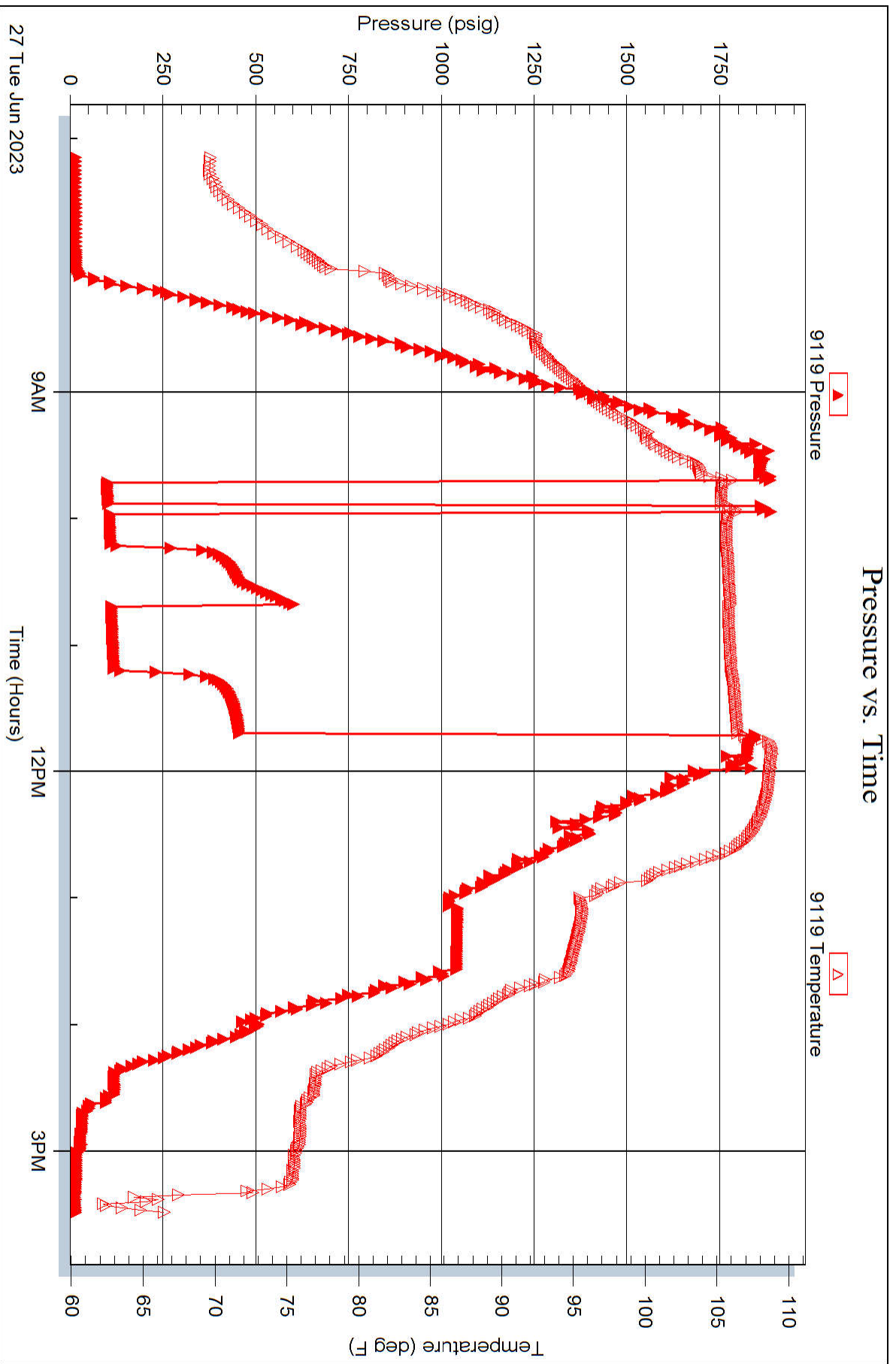
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

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

Prepared For: **Satchell Creek Petroleum**

3032 N Cortina
Wichita, KS 67205

ATTN: Chris Leiker

Worcester A10-21

Graham County 21-7S-22W

Start Date: 2023.06.28 @ 02:44:56

End Date: 2023.06.28 @ 09:36:26

Job Ticket #: 01542 DST #: 2

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

Printed: 2023.06.28 @ 02:55:10



DRILL STEM TEST REPORT

Satchell Creek Petroleum

Graham County 21-7S-22W

3032 N Cortina
Wichita, KS 67205

Worcester A10-21

ATTN: Chris Leiker

Job Ticket: 01542

DST#: 2

Test Start: 2023.06.28 @ 02:44:56

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:11:26

Time Test Ended: 09:36:26

Test Type: Conventional Bottom Hole (Initial)

Tester: Chad

Unit No: 1

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

Reference Elevations: 2287.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2279.00 ft (CF)

Hole Diameter: 8.50 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 112.17 psig @ ft (KB)

Capacity: psig

Start Date: 2023.06.28

End Date: 2023.06.28

Last Calib.: 1899.12.30

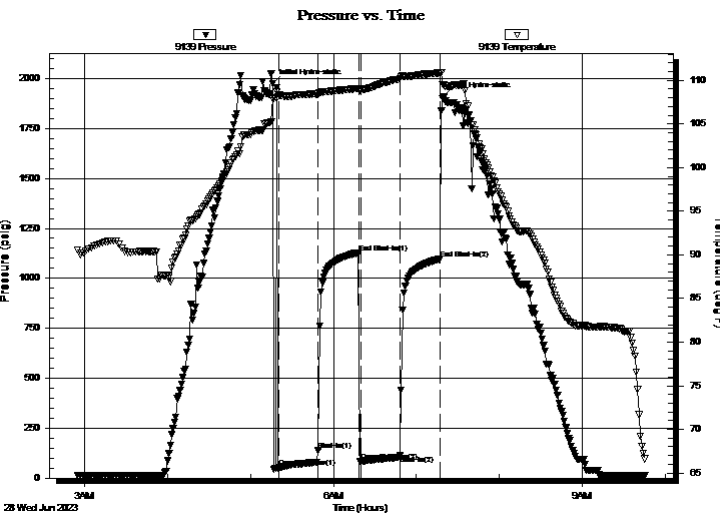
Start Time: 02:53:56

End Time: 09:45:26

Time On Btm: 2023.06.28 @ 05:15:56

Time Off Btm: 2023.06.28 @ 07:19:26

TEST COMMENT:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.33	107.92	Initial Hydro-static
5	51.81	108.34	Open To Flow (1)
33	140.91	108.42	Shut-In(1)
62	1128.73	109.07	End Shut-In(1)
64	83.20	108.87	Open To Flow (2)
92	112.17	110.19	Shut-In(2)
121	1096.72	110.84	End Shut-In(2)
124	1909.84	109.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Mainly Water with some 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 A10-21

ATTN: Chris Leiker

Job Ticket: 01542

DST#: 2

Test Start: 2023.06.28 @ 02:44:56

Tool Information

Drill Pipe:	Length: 3842.00 ft	Diameter:	inches	Volume: 3732205 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:	65000.00 lb
				<u>Total Volume: 3732205 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	14.50 ft				String Weight: Initial	lb
Depth to Top Packer:	3856.00 ft				Final	lb
Depth to Bottom Packer:	ft					
Interval between Packers:	24.00 ft					
Tool Length:	52.50 ft					
Number of Packers:	2	Diameter:	6.75 inches			
Tool Comments:						

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3832.50	
Hydraulic tool	6.00			3838.50	
Jars	4.00			3842.50	
Safety Joint	2.50			3845.00	
Top Packer	6.50			3851.50	
Packer	4.50			3856.00	28.50 Bottom Of Top Packer
Anchor	19.00			3875.00	
Recorder	0.00	9119	Inside	3875.00	
Recorder	0.00	9139	Outside	3875.00	
Bullnose	5.00			3880.00	24.00 Anchor Tool
Total Tool Length:	52.50				



DRILL STEM TEST REPORT

FLUID SUMMARY

Satchell Creek Petroleum

Graham County 21-7S-22W

3032 N Cortina
Wichita, KS 67205

Worcester A10-21

Job Ticket: 01542

DST#: 2

ATTN: Chris Leiker

Test Start: 2023.06.28 @ 02:44:56

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: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Mainly Water with some drilling mud	

Total Length: 150.00 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 A10-21

ATTN: Chris Leiker

Job Ticket: 01542

DST#: 2

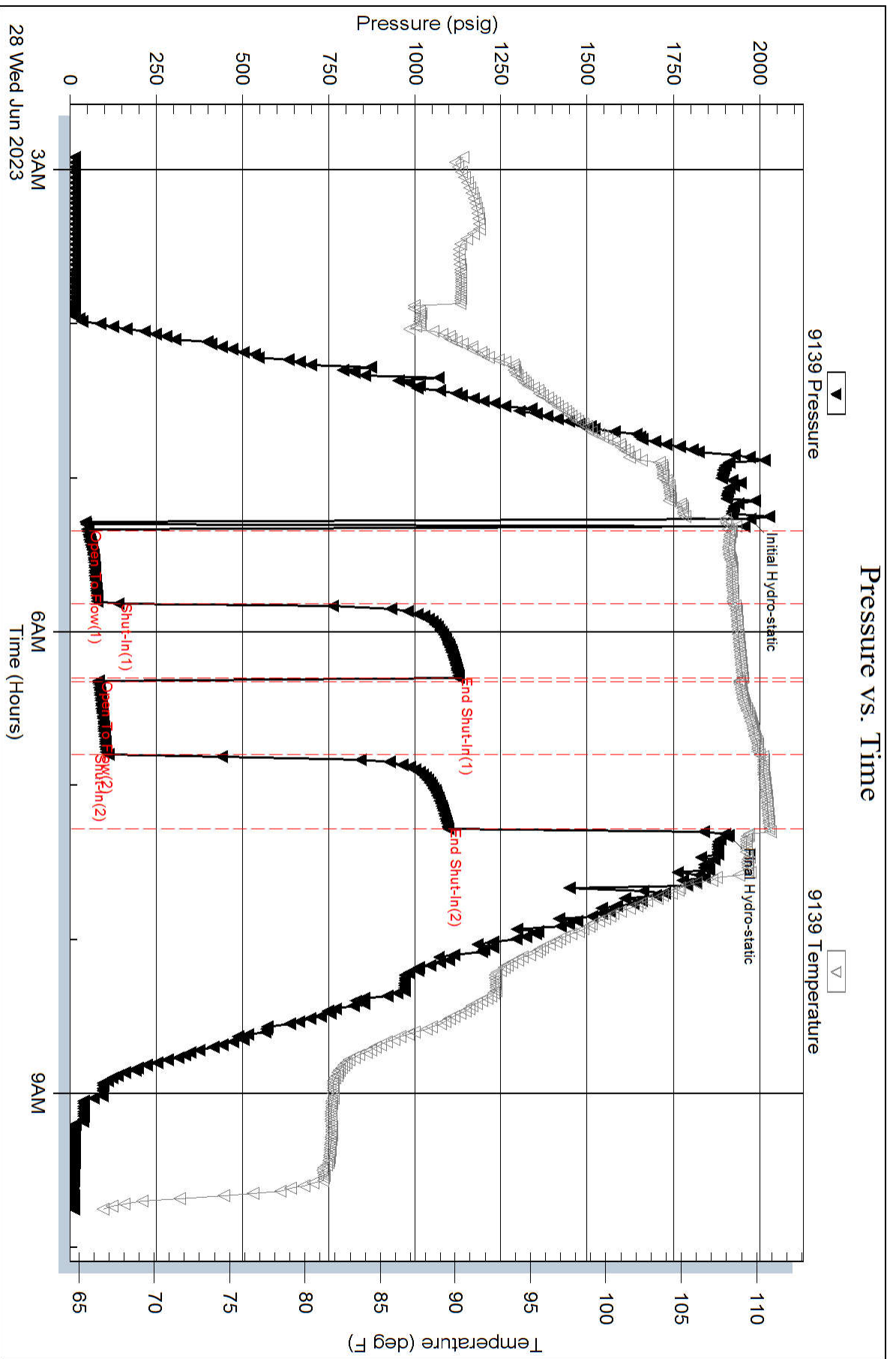
Test Start: 2023.06.28 @ 02:44:56

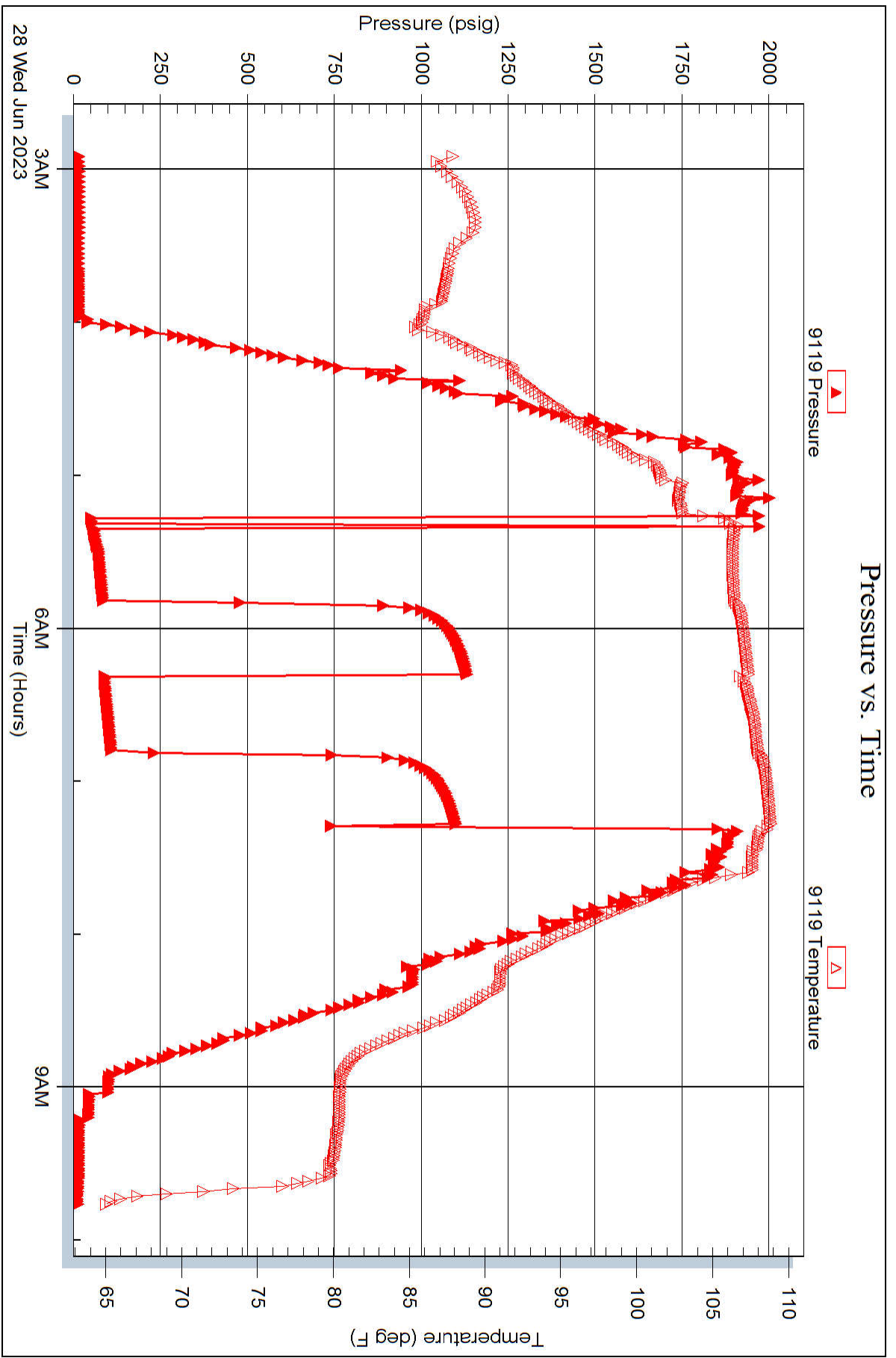
Gas Rates Information

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







DRILL STEM TEST REPORT

Prepared For: **Satchell Creek Petroleum**

3032 N Cortina
Wichita, KS 67205

ATTN: Chris Leiker

Worcester A10-21

Graham County 21-7S-22W

Start Date: 2023.06.28 @ 15:07:05

End Date: 2023.06.28 @ 22:12:35

Job Ticket #: 01542 DST #: 3

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

Printed: 2023.06.28 @ 15:41:03



DRILL STEM TEST REPORT

Satchell Creek Petroleum

Graham County 21-7S-22W

3032 N Cortina
Wichita, KS 67205

Worcester A10-21

ATTN: Chris Leiker

Job Ticket: 01542

DST#: 3

Test Start: 2023.06.28 @ 15:07:05

GENERAL INFORMATION:

Formation: **Simpson SS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:16:05

Time Test Ended: 22:12:35

Test Type: Conventional Straddle (Initial)

Tester: Chad

Unit No: 1

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

Reference Elevations: 2287.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2279.00 ft (CF)

Hole Diameter: 8.50 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 89.55 psig @ ft (KB)

Capacity: psig

Start Date: 2023.06.28

End Date: 2023.06.28

Last Calib.: 1899.12.30

Start Time: 15:07:05

End Time: 22:12:35

Time On Btm: 2023.06.28 @ 17:15:05

Time Off Btm: 2023.06.28 @ 19:21:35

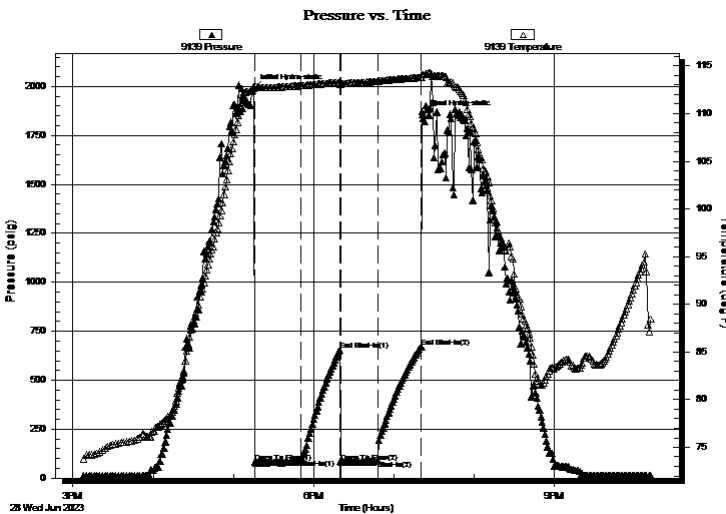
TEST COMMENT: Initial Blow: 1" and died after 25 mins

Blow back: N/A

Second Opening: N/A

Blow back: N/A

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.28	112.84	Initial Hydro-static
1	82.98	112.69	Open To Flow (1)
36	94.95	112.92	Shut-In(1)
65	654.42	113.28	End Shut-In(1)
66	82.61	113.14	Open To Flow (2)
93	89.55	113.38	Shut-In(2)
126	670.65	113.78	End Shut-In(2)
127	1856.24	114.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	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 A10-21

Job Ticket: 01542

DST#: 3

ATTN: Chris Leiker

Test Start: 2023.06.28 @ 15:07:05

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:	100000.0 lb
					Total Volume:	- bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		ft					Final	52000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:	0.00	ft						
Tool Length:	140.50	ft						
Number of Packers:	3		Diameter:	6.75	inches			
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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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	62.00			89.75	
Change Over Sub	0.75			90.50	
Anchor	20.00			110.50	
Recorder	0.00		Inside	110.50	
Recorder	0.00		Outside	110.50	
Blank Off Sub	1.00			111.50	
Packer - Shale	5.00			116.50	
Change Over Sub	0.00			116.50	
Drill Pipe	0.00	9119	Inside	116.50	
Change Over Sub	0.00	9139	Outside	116.50	
Anchor	19.00			135.50	
Recorder	0.00			135.50	
Bullnose	5.00			140.50	140.50

Total Tool Length: 140.50

Anchor Tool



DRILL STEM TEST REPORT

FLUID SUMMARY

Satchell Creek Petroleum

Graham County 21-7S-22W

3032 N Cortina
Wichita, KS 67205

Worcester A10-21

Job Ticket: 01542

DST#: 3

ATTN: Chris Leiker

Test Start: 2023.06.28 @ 15:07:05

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: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling Mud	

Total Length: 30.00 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 A10-21

ATTN: Chris Leiker

Job Ticket: 01542

DST#: 3

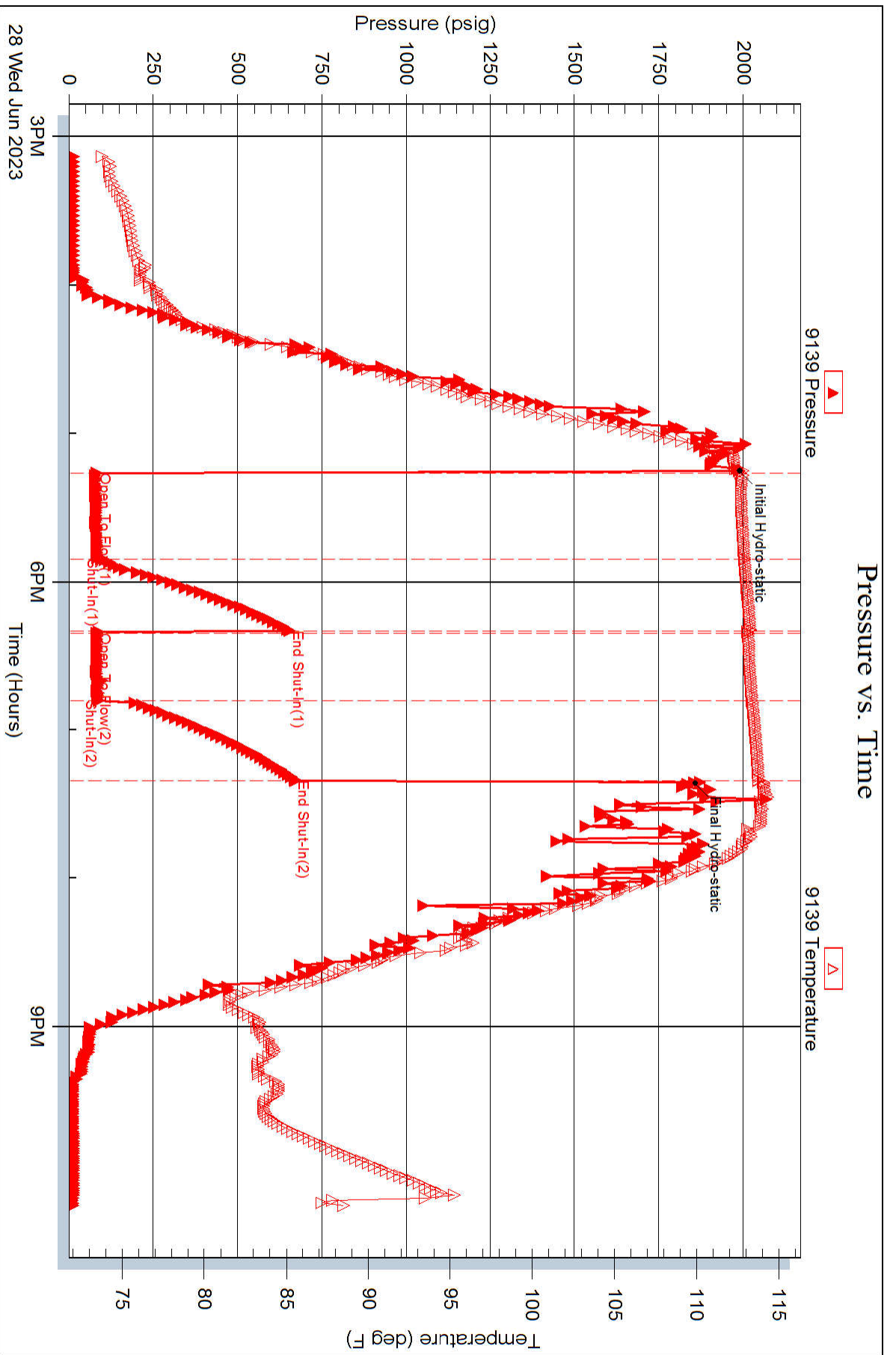
Test Start: 2023.06.28 @ 15:07:05

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

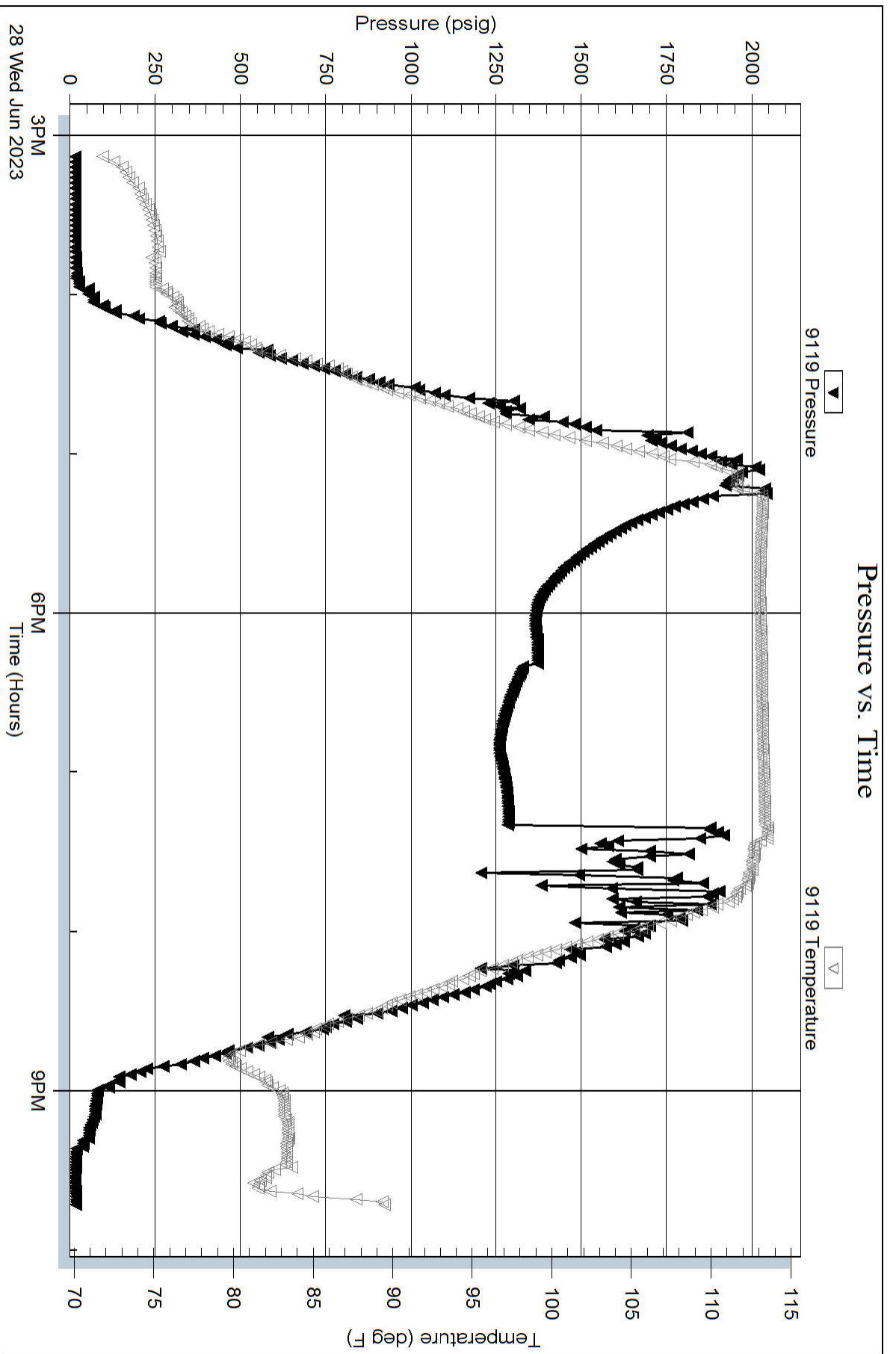


Serial #: 9119

Satchell Creek Petroleum

Worcester A10-21

DST Test Number: 3



Eagle Testers

Ref. No: 01542

Printed: 2023.06.28 @ 15:41:08

Sean P. Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Satchell Creek Petroleum, LLC
 LEASE Worcester A #10-21

ELEVATIONS
 KB 2287'

FIELD Wildcat
 LOCATION 1318 FSL & 1721' FEL

SEC 21 TWPSP 7S RGE 22W

COUNTY Graham STATE Kansas

CONTRACTOR Feature Drilling Rig #3
 SPUD 6/20/23 COMP 6/26/23

RTD 3880' LTD 3880'

MUD UP 3300' TYPE MUD Chemical

SAMPLES SAVED FROM 3600' TO RTD
 DRILLING TIME KEPT FROM 3600' TO RTD
 SAMPLES EXAMINED FROM 3400' TO RTD

GEOLOGICAL SUPERVISION FROM 3400'

REFERENCE WELL CND/DIL. Midwest

CASING
 CONDUCTOR 8-5/8" at 269'
 SURFACE 8-5/8" at 1TD*
 PRODUCTION 5.5" at 1TD*

ELECTRICAL SURVEYS

Formation MICROSON

Sample Tops

E-log Tops

Structure

Feas.

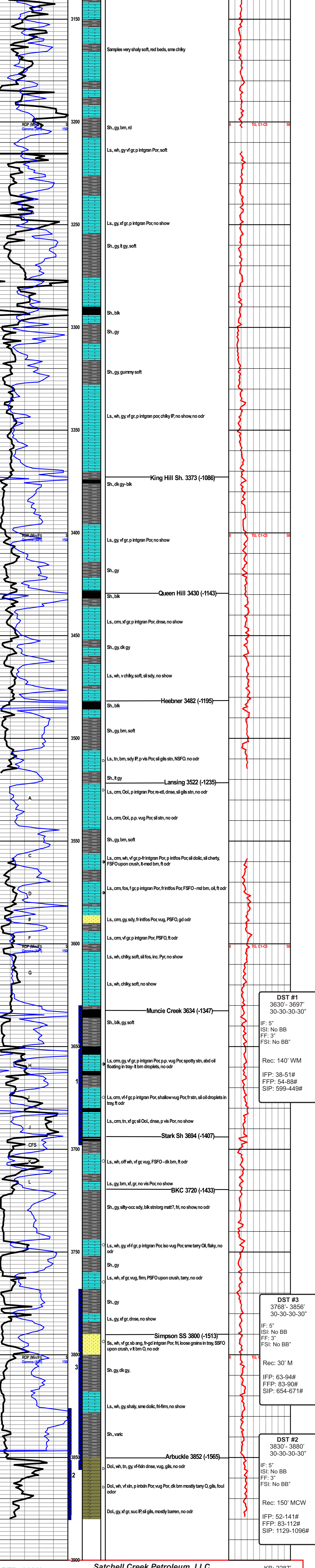
Heebner Sh 3482 (-1195)
 Lamisor 3522 (-1235)
 Stark Shale 3693 (-1406)
 BKC 3866 (-1429)
 Arbuckle 3792 (-1498)



REMARKS The Worcester A#10-21 had several oil shows in the samples. Therefore, the decision was made to complete this well for commercial oil production.

Respectfully Submitted,

Sean P. Deenihan



DST #1
 3630' - 3697'
 30-30-30-30"
 IF: 5"
 ISI: No BB
 FF: 3"
 FSI: No BB"
 Rec: 140' WM
 IFP: 38-51#
 FFP: 54-88#
 SIP: 599-449#

DST #3
 3768' - 3856'
 30-30-30-30"
 IF: 5"
 ISI: No BB
 FF: 3"
 FSI: No BB"
 Rec: 30' M
 IFP: 63-94#
 FFP: 83-90#
 SIP: 654-671#

DST #2
 3830' - 3880'
 30-30-30-30"
 IF: 5"
 ISI: No BB
 FF: 3"
 FSI: No BB"
 Rec: 150' MCW
 IFP: 52-141#
 FFP: 83-112#
 SIP: 1129-1096#

RTD: 3880'
 LTD: 3880'

Satchell Creek Petroleum, LLC
 Worcester A #10-21
 21-7S-22W
 Graham County, KS

KB: 2287'