

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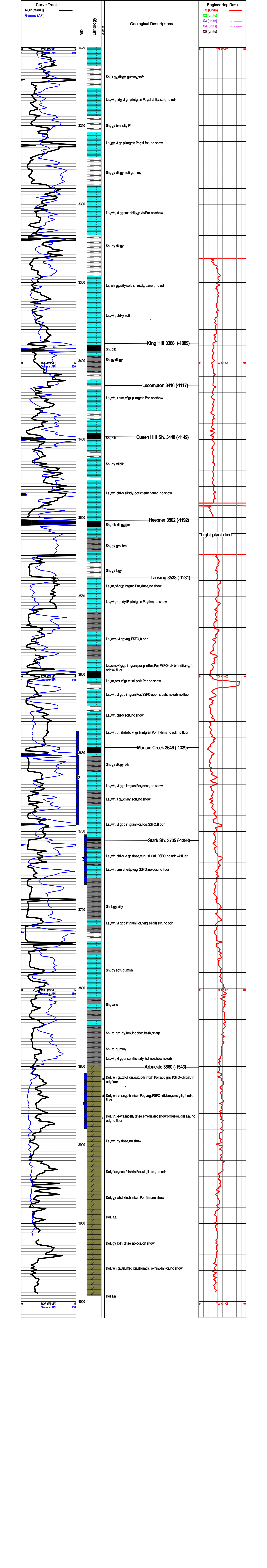
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	WORCESTER A 6-28
Doc ID	1737776

All Electric Logs Run

BHV
DIL
DUCP
MEL





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

Customer:

SATCHELL CREEK
C/O FEATURE DRILLING LLC
4320 VINE ST PMB 386
HAYS, KS 67601

Invoice Date: 6/21/2023
Invoice #: 0369224
Lease Name: Worcester 'A'
Well #: 6-28 (New)
County: Graham, Ks
Job Number: WP4428
District: Oakley

Date/Description	HRS/QTY	Rate	Total
2 Stage	0.000	0.000	0.00
H-Plug	430.000	14.000	6,020.00
H-LD Cement Blend	150.000	50.000	7,500.00
Calcium Chloride	740.000	0.750	555.00
Cement baskets 5 1/2"	2.000	300.000	600.00
5 1/2" Stop Ring	2.000	30.000	60.00
5 1/2" Turbolizers	10.000	125.000	1,250.00
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" 2 Stage DV Tool	1.000	5,000.000	5,000.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Liquid Defoamer	2.000	50.000	100.00
Mud flush	500.000	1.000	500.00
KCL-CS701	1.000	30.000	30.00
Light Eq Mileage	80.000	2.000	160.00
Heavy Eq Mileage	240.000	4.000	960.00
Ton Mileage	2,044.000	1.500	3,066.00
Depth Charge 3001'-4000'	1.000	2,250.000	2,250.00
Depth Charge 1001'-2000'	1.000	1,500.000	1,500.00
Casing Swivel	1.000	300.000	300.00
Cement plug container	1.000	250.000	250.00
Cement Blending & Mixing	580.000	1.400	812.00

Continued



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

Customer:

SATCHELL CREEK
C/O FEATURE DRILLING LLC
4320 VINE ST PMB 386
HAYS, KS 67601

Invoice Date: 6/21/2023
Invoice #: 0369224
Lease Name: Worcester 'A'
Well #: 6-28 (New)
County: Graham, Ks
Job Number: WP4428
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Service Supervisor	1.000	275.000	275.00

Total 31,913.00

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	Satchell Creek	Lease & Well #	Worcester A #6-28	Date	6/21/2023
Service District	Oakley KS	County & State	Graham KS	Legals S/T/R	28-7S-22W
Job Type	2 Stage	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	<input type="checkbox"/> New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
					Ticket #
					WP 4428

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
947	John	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
208	Jose V	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
205	Lupe	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
180-530	Lupe	<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
CP055	H-Plug A	sack	430.00	\$6,020.00
CP014	H-LD Cement Blend	sack	150.00	\$7,500.00
CP100	Calcium Chloride	lb	740.00	\$555.00
FE130	5 1/2" Cement Basket	ea	2.00	\$600.00
FE132	5 1/2" Stop Ring	ea	2.00	\$60.00
FE135	5 1/2 Turbolizer	ea	10.00	\$1,250.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$375.00
FE150	5 1/2" DV Tool - 2 Stage	ea	1.00	\$5,000.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$350.00
CP136	Liquid Defoamer	gal	2.00	\$100.00
CP170	Mud Flush	gal	500.00	\$500.00
AF055	Liquid KCL Substitute	gal	1.00	\$30.00
M015	Light Equipment Mileage	mi	80.00	\$160.00
M010	Heavy Equipment Mileage	mi	240.00	\$960.00
M020	Ton Mileage	tm	2,044.00	\$3,066.00
D014	Depth Charge: 3001'-4000'	job	1.00	\$2,250.00
D012	Depth Charge: 1001'-2000'	job	1.00	\$1,500.00
C040	Casing Swivel	job	1.00	\$300.00
C050	Cement Plug Container	job	1.00	\$250.00
C060	Cement Blending & Mixing Service	sack	580.00	\$812.00
R061	Service Supervisor	day	1.00	\$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?							Net:	\$31,913.00
		Total Taxable	\$ -	Tax Rate:				
Based on this job, how likely is it you would recommend HSI to a colleague?		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:			
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					Total:	\$ 31,913.00		
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely					HSI Representative: <i>John Polley</i>			

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: Satchell Creek	Well: Worcester A #6-28	Ticket: WP 4428
City, State: Hill City KS	County: Graham KS	Date: 6/21/2023
Field Rep: Jay Krier	S-T-R: 28-7S-22W	Service: 2 Stage

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	3995 ft
Casing Size:	5 1/2 in
Casing Depth:	3994 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	DV Tool
Tool Depth:	1918 ft
Displacement:	94.8 bbls

Calculated Slurry - Lead	
Blend:	H-LD
Weight:	14.8 ppg
Water / Sx:	6.5 gal / sx
Yield:	1.51 ft ³ / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	3994 ft
Annular Volume:	123.4 bbls
Excess:	
Total Slurry:	40.3 bbls
Total Sacks:	150 sx

Calculated Slurry - Tail	
Blend:	H-Plug A with 2% CC
Weight:	13.4 ppg
Water / Sx:	7.8 gal / sx
Yield:	1.56 ft ³ / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	3994 ft
Annular Volume:	123.4146 bbls
Excess:	
Total Slurry:	119.4 bbls
Total Sacks:	430 sx

TIME	RATE	PSI	BBLs	STAGE TOTAL BBLs	REMARKS
6:15 PM			-	-	Arrived on location casing was on bottom and rig was circulating on arrival
6:25 PM				-	Safety meeting
6:35 PM				-	Rigged up
7:00 PM				-	Dropped ball
8:02 PM	4.0	250.0	10.0	10.0	Water ahead
8:05 PM	4.0	300.0	12.0	22.0	Pumped 500 gallons mud flush
8:09 PM	4.0	350.0	10.0	32.0	Water behind
8:14 PM	4.5	425.0	40.3	72.3	Mixed 150 sacks H-LD Lead cement @ 14.8 mud scale verified
8:23 PM				72.3	Shut down, loaded plug, cleared pump and lines
8:32 PM	6.5	375.0	50.0	122.3	Begin water displacement with 2% KCL in first 20 bbls
8:41 PM	6.5	375.0	34.8	157.1	Begin mud displacement
8:46 PM	3.0	500.0	10.0		Slowed down to 3 bpm 10 bbls to go
8:49 PM		1,600.0			Plug down @ 750 landing psi and 1600 bump psi
8:51 PM					Released pressure plug held with .5 bbl back to tank
8:59 PM					Dropped bomb
9:16 PM	2.0	1,000.0	0.5		Opened tool @ 1000 psi
10:34 PM	3.0	200.0	10.0		Water ahead
10:39 PM	2.0	200.0	8.8		Mixed 30 sacks H-Plug A with 2% CC for rathole plug @ 13.4 ppg
10:47 PM	5.0	550.0	111.1		Mixed 400 sacks H-Plug A Tail cement with 2% CC @ 13.4 ppg mud scale verified
11:09 PM					Shut down and released top stage plug
11:10 PM	6.5	500.0	35.6		Begin water displacement
11:17 PM	3.0	500.0	10.0		Slowed down to 3 bpm 10 bbls to go
11:20 PM		1,900.0			Plug down @ 750 landing psi and 1900 bump psi cement did not come to surface
11:22 PM					Released pressure plug held with .5 bbl back to tank
11:24 PM					Washed up and rigged down
12:00 AM					Left location

CREW		UNIT	SUMMARY		
Cementer:	John	947	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jose V	208	4.2 bpm	602 psi	343 bbls
Bulk #1:	Lupe	205			
Bulk #2:	Lupe	180-530			



DRILL STEM TEST REPORT

Prepared For: **Satchell Creek Petroleum**

3032 N Cortina St
Wichita, KS 67205

ATTN: Sean Dennihan & Chri

Worcester A6-28

28-7-22 Graham County

Start Date: 2023.06.18 @ 18:33:25

End Date: 2023.06.19 @ 02:39:55

Job Ticket #: 01592 DST #: 1

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

Printed: 2023.06.18 @ 18:51:48



DRILL STEM TEST REPORT

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

ATTN: Sean Dennihan & Chri

Job Ticket: 01592

DST#: 1

Test Start: 2023.06.18 @ 18:33:25

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:16:55

Time Test Ended: 02:39:55

Test Type: Conventional Straddle (Initial)

Tester: Chad F Geist

Unit No: 1

Interval: **3854.00 ft (KB) To 3890.00 ft (KB) (TVD)**

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3995.00 ft (KB) (TVD)

2299.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 148.58 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2023.06.18

End Date: 2023.06.19

Last Calib.: 1899.12.30

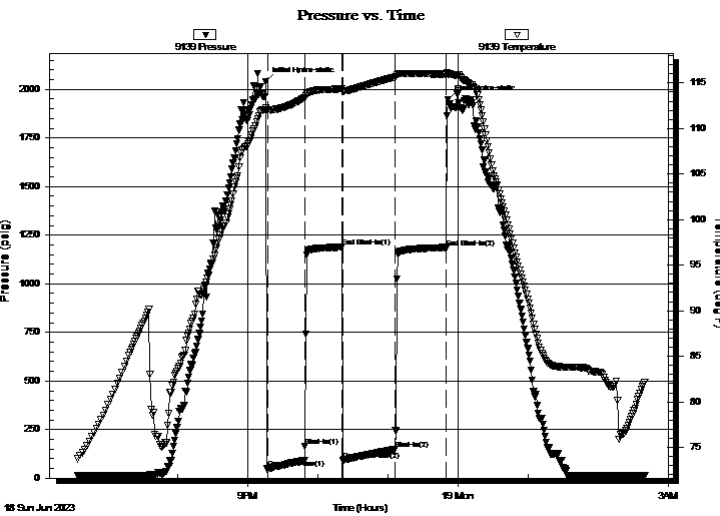
Start Time: 18:33:25

End Time: 02:39:55

Time On Btm: 2023.06.18 @ 21:15:25

Time Off Btm: 2023.06.18 @ 23:51:25

TEST COMMENT: Initial Opening: Weak building blow 1.5" in 30 mins
Blow back: N/A
Second Opening: Fair building blow 7" in 45mins
Blow back: N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2041.47	112.22	Initial Hydro-static
2	49.03	112.04	Open To Flow (1)
34	164.13	113.41	Shut-In(1)
65	1188.56	114.36	End Shut-In(1)
66	93.08	114.08	Open To Flow (2)
111	148.58	115.63	Shut-In(2)
155	1186.97	115.94	End Shut-In(2)
156	1948.38	115.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	
120.00	Water	

Gas Rates

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



DRILL STEM TEST REPORT

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

ATTN: Sean Dennihan & Chri

Job Ticket: 01592

DST#: 1

Test Start: 2023.06.18 @ 18:33:25

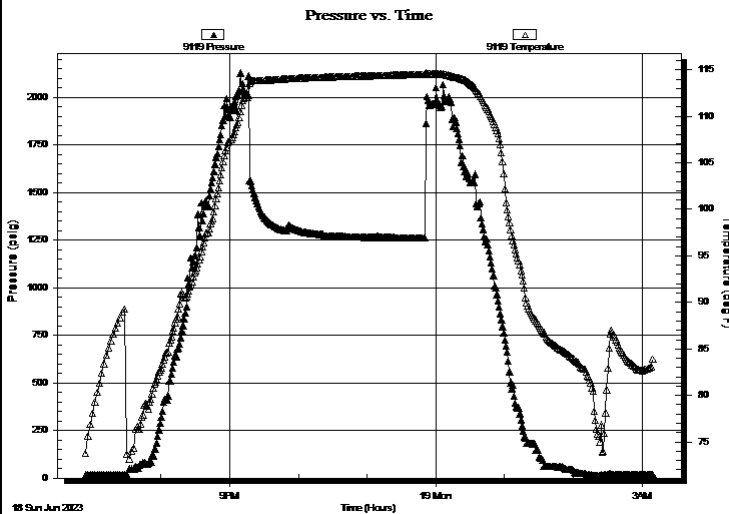
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:16:55
 Time Test Ended: 02:39:55
 Interval: **3854.00 ft (KB) To 3890.00 ft (KB) (TVD)**
 Total Depth: 3995.00 ft (KB) (TVD)
 Hole Diameter: 8.75 inches Hole Condition: Poor
 Test Type: Conventional Straddle (Initial)
 Tester: Chad F Geist
 Unit No: 1
 Reference Elevations: 2307.00 ft (KB)
 2299.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2023.06.18 End Date: 2023.06.19 Last Calib.: 1899.12.30
 Start Time: 18:53:16 End Time: 03:09:46 Time On Btm:
 Time Off Btm:

TEST COMMENT: Intital Opening: Weak building blow 1.5" in 30 mins
 Blow back: N/A
 Second Opening: Fair building blow 7" in 45mins
 Blow back: N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	
120.00	Water	

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01592

DST#: 1

ATTN: Sean Dennihan & Chri

Test Start: 2023.06.18 @ 18:33:25

Tool Information

Drill Pipe:	Length:	ft	Diameter:	inches	Volume:	- bbl	Tool Weight:	20000.00 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:	70000.00 lb
					Total Volume:	- bbl	Tool Chased	5.00 ft
Drill Pipe Above KB:		ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		ft					Final	53000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:	0.00	ft						
Tool Length:	175.25	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	0.00			27.75	
Change Over Sub	0.75			28.50	
Anchor	36.00			64.50	
Recorder	0.00		Inside	64.50	
Recorder	0.00		Outside	64.50	
Blank Off Sub	1.00			65.50	
Packer - Shale	5.00			70.50	
Change Over Sub	0.00			70.50	
Drill Pipe	94.00	9119	Inside	164.50	
Change Over Sub	0.75	9139	Outside	165.25	
Anchor	5.00			170.25	
Recorder	0.00			170.25	
Bullnose	5.00			175.25	175.25
					Anchor Tool

Total Tool Length: 175.25



DRILL STEM TEST REPORT

FLUID SUMMARY

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01592

DST#: 1

ATTN: Sean Dennihan & Chri

Test Start: 2023.06.18 @ 18:33:25

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: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drilling Mud	
120.00	Water	

Total Length: 160.00 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

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01592

DST#: 1

ATTN: Sean Dennihan & Chri

Test Start: 2023.06.18 @ 18:33:25

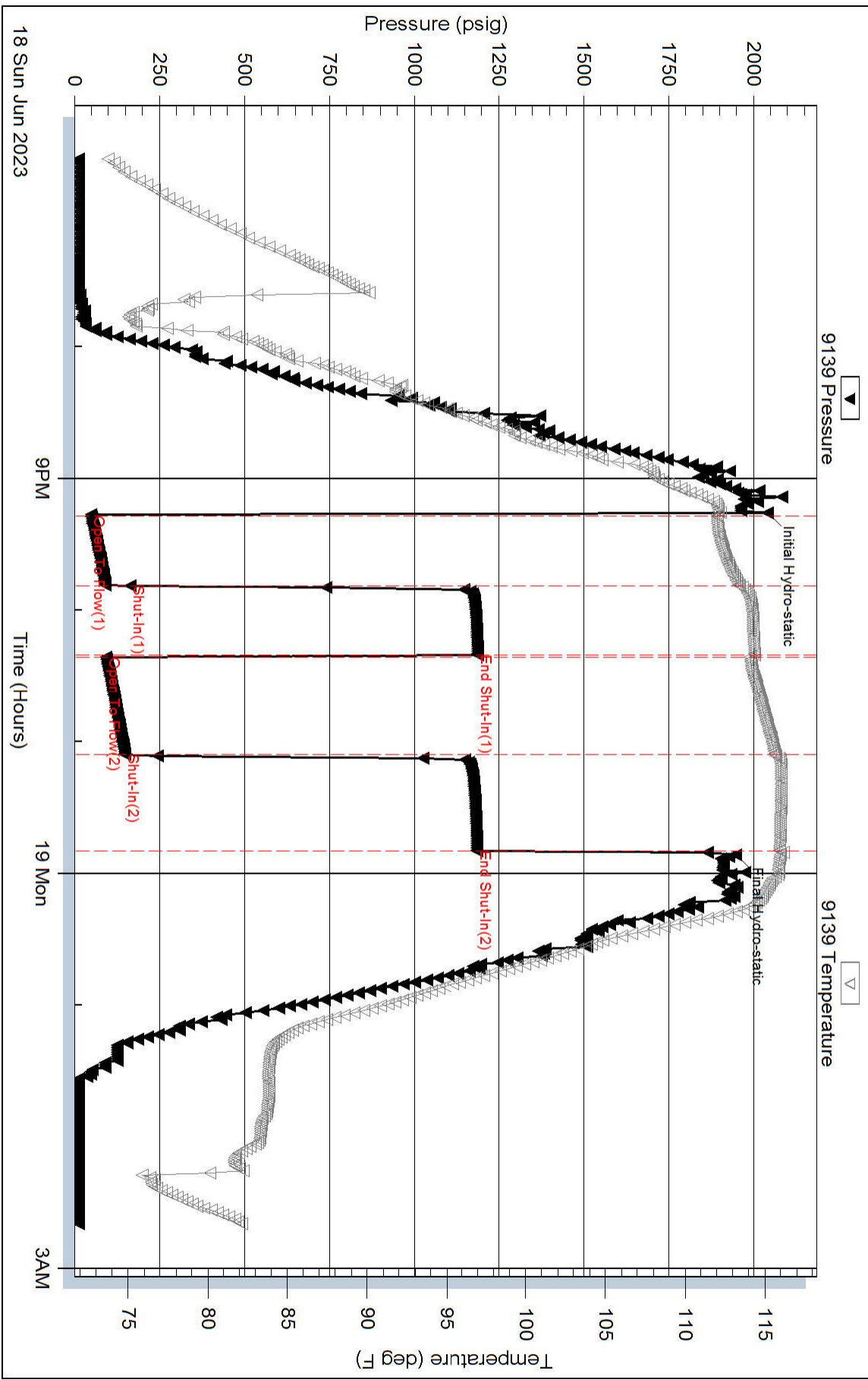
Gas Rates Information

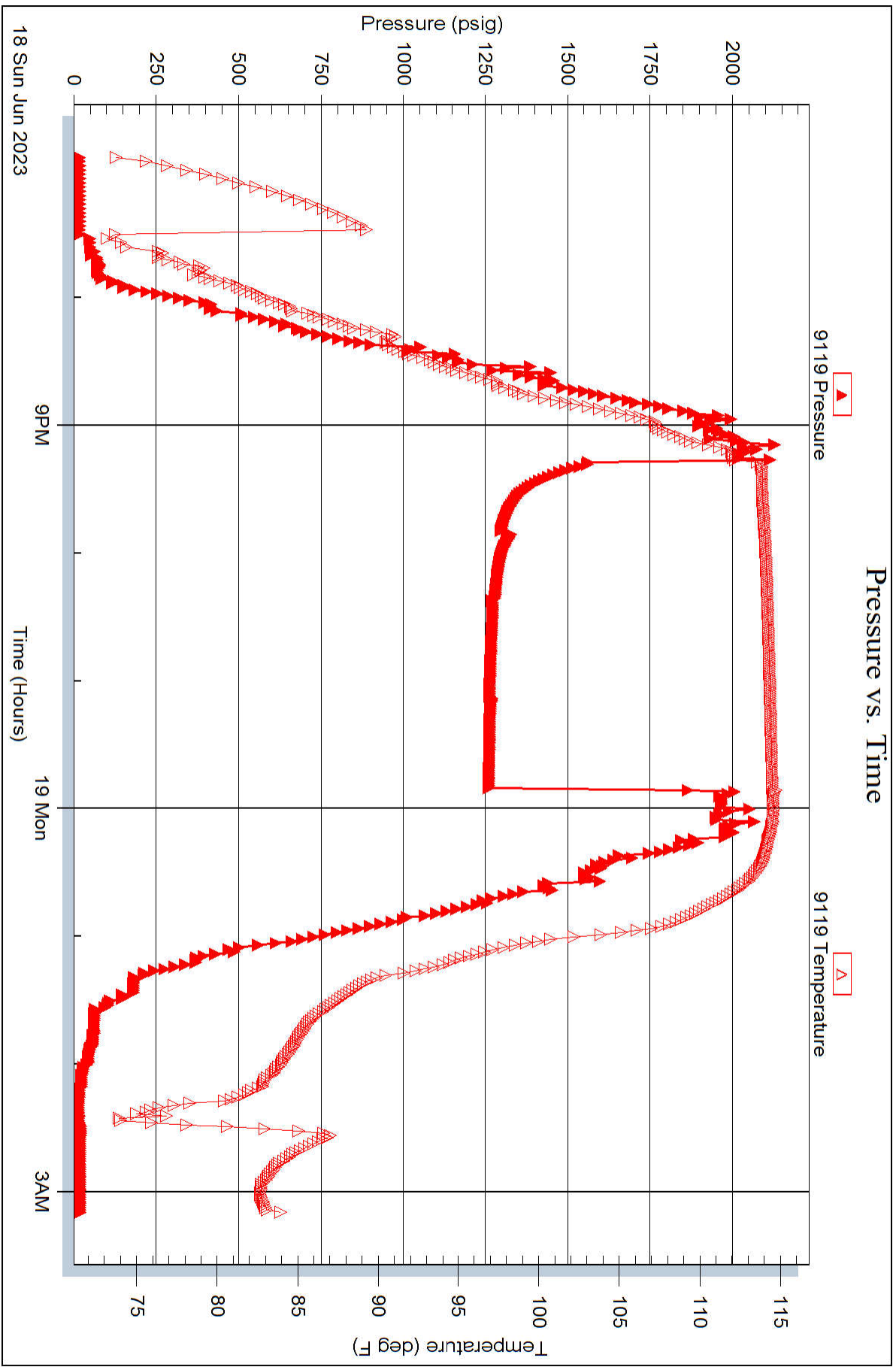
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

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 St
Wichita, KS 67205

ATTN: Sean Dennihan & Chri

Worcester A6-28

28-7-22 Graham County

Start Date: 2023.06.19 @ 03:13:58

End Date: 2023.06.19 @ 10:23:58

Job Ticket #: 01593 DST #: 2

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

Printed: 2023.06.19 @ 12:42:30



DRILL STEM TEST REPORT

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

ATTN: Sean Dennihan & Chri

Job Ticket: 01593

DST#: 2

Test Start: 2023.06.19 @ 03:13:58

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:09:58

Time Test Ended: 10:23:58

Test Type: Conventional Straddle (Initial)

Tester: Chad F Geist

Unit No: 1

Interval: **3635.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3995.00 ft (KB) (TVD)

2299.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 400.76 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2023.06.19

End Date: 2023.06.19

Last Calib.: 1899.12.30

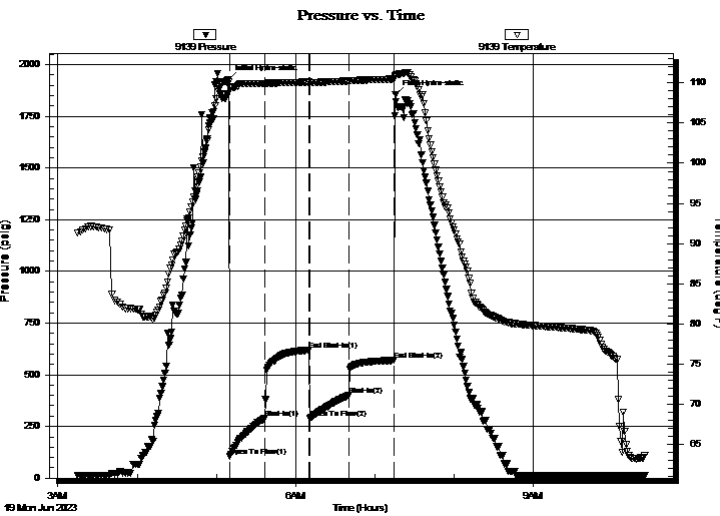
Start Time: 03:13:58

End Time: 10:23:58

Time On Btm: 2023.06.19 @ 05:08:58

Time Off Btm: 2023.06.19 @ 07:15:28

TEST COMMENT: Initial Opening: Bottom of bucket in 10 mins
Blow back: N/A
Second Opening: Bottom of bucket in 17 mins
Blow back: N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.09	110.12	Initial Hydro-static
1	105.48	109.37	Open To Flow (1)
28	288.64	109.90	Shut-In(1)
61	619.38	110.11	End Shut-In(1)
62	290.63	110.03	Open To Flow (2)
91	400.76	110.24	Shut-In(2)
125	569.79	110.48	End Shut-In(2)
127	1854.65	110.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling Mud	
660.00	Water w with slight drilling mud mix	

Gas Rates

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



DRILL STEM TEST REPORT

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01593

DST#: 2

ATTN: Sean Dennihan & Chri

Test Start: 2023.06.19 @ 03:13:58

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:09:58

Time Test Ended: 10:23:58

Test Type: Conventional Straddle (Initial)

Tester: Chad F Geist

Unit No: 1

Interval: 3635.00 ft (KB) To 3995.00 ft (KB) (TVD)

Total Depth: 3995.00 ft (KB) (TVD)

Hole Diameter: 8.75 inches Hole Condition: Poor

Reference Elevations: 2307.00 ft (KB)

2299.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: psig @ ft (KB)

Start Date: 2023.06.19

End Date: 2023.06.19

Capacity: psig

Last Calib.: 1899.12.30

Start Time: 02:51:59

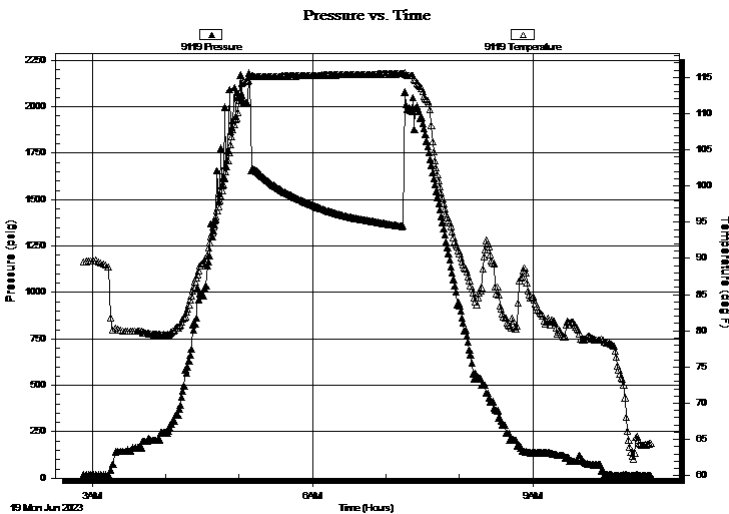
End Time: 10:35:59

Time On Btm:

Time Off Btm:

TEST COMMENT: Initial Opening: Bottom of bucket in 10 mins
Blow back: N/A
Second Opening: Bottom of bucket in 17 mins
Blow back: N/A

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling Mud	
660.00	Water w ith slight drilling mud mix	

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01593

DST#: 2

ATTN: Sean Dennihan & Chri

Test Start: 2023.06.19 @ 03:13:58

Tool Information

Drill Pipe:	Length:	ft	Diameter:	inches	Volume:	- bbl	Tool Weight:	20000.00 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:	65000.00 lb
					<u>Total Volume:</u>	- bbl	Tool Chased	5.00 ft
Drill Pipe Above KB:		ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		ft					Final	56000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:	0.00	ft						
Tool Length:	498.00	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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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	101.00			129.50	
Recorder	0.00		Inside	129.50	
Recorder	0.00		Outside	129.50	
Blank Off Sub	1.00			130.50	
Packer - Shale	5.00			135.50	
Change Over Sub	0.75			136.25	
Drill Pipe	346.00	9119	Inside	482.25	
Change Over Sub	0.75	9139	Outside	483.00	
Anchor	10.00			493.00	
Recorder	0.00			493.00	
Bullnose	5.00			498.00	498.00

Total Tool Length: 498.00

Anchor Tool



DRILL STEM TEST REPORT

FLUID SUMMARY

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01593

DST#: 2

ATTN: Sean Dennihan & Chri

Test Start: 2023.06.19 @ 03:13:58

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:

dbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume dbl
60.00	Drilling Mud	
660.00	Water with slight drilling mud mix	

Total Length: 720.00 ft

Total Volume: dbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01593

DST#: 2

ATTN: Sean Dennihan & Chri

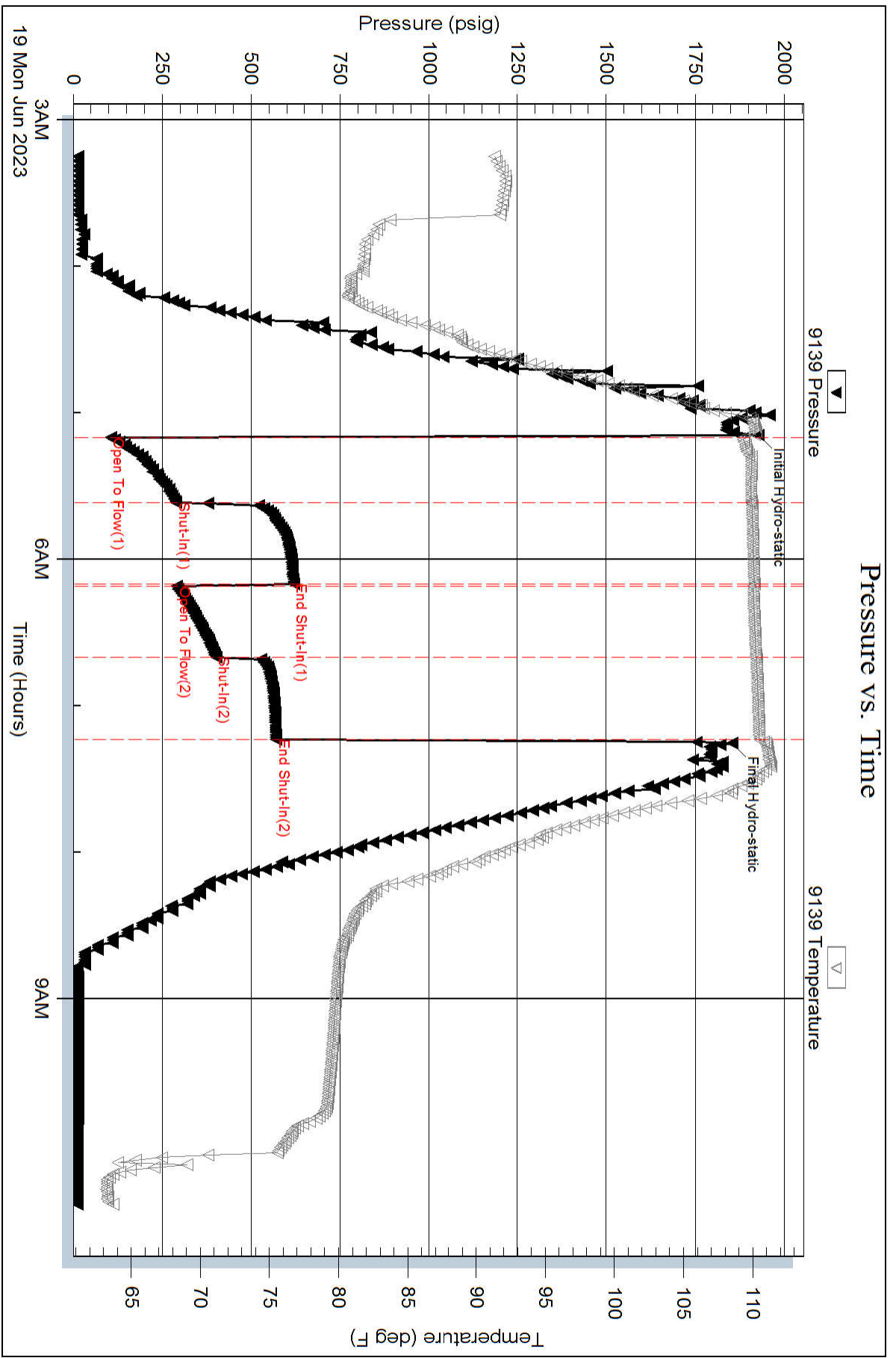
Test Start: 2023.06.19 @ 03:13:58

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

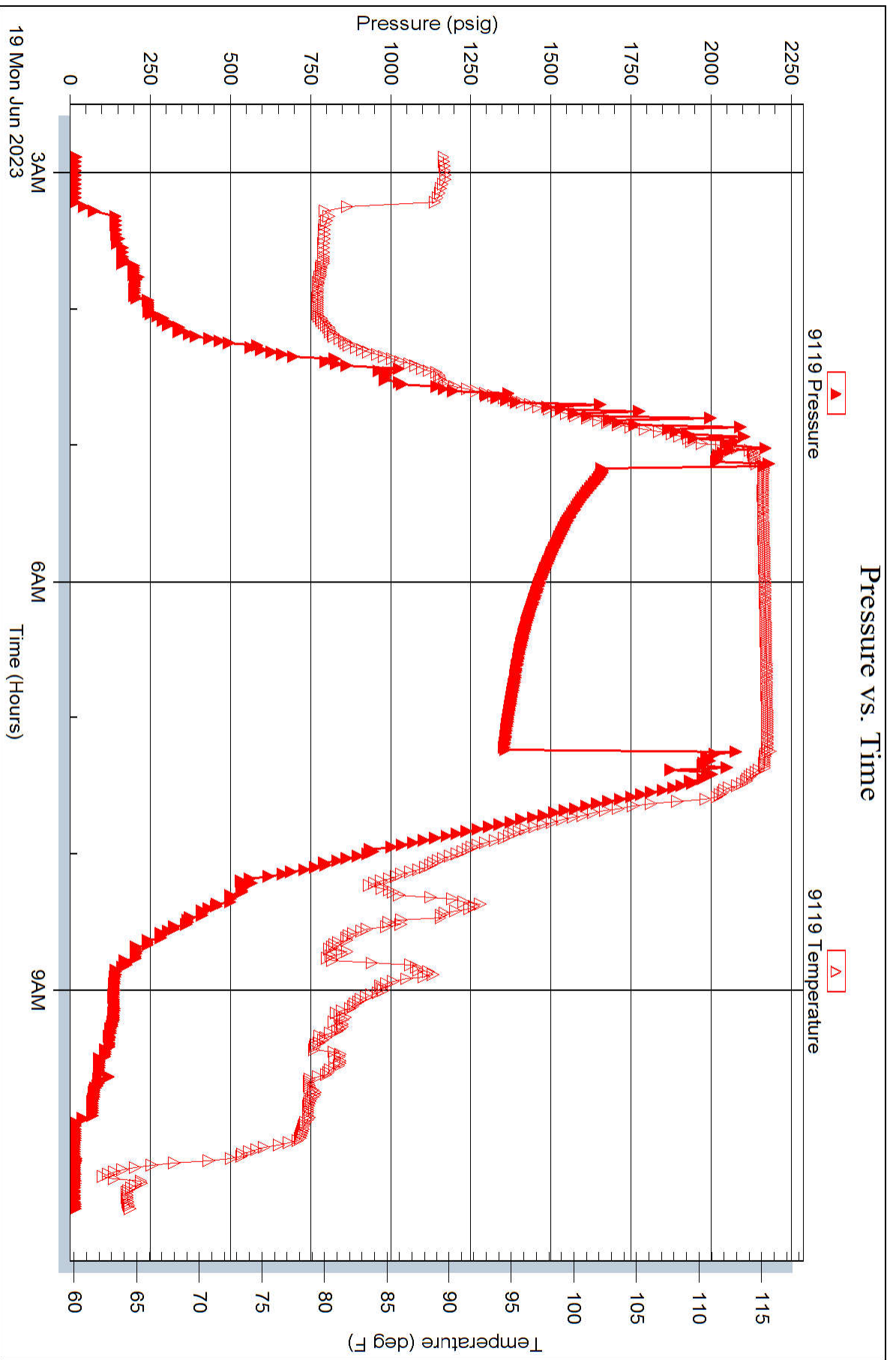


Serial #: 9119

Satchell Creek Petroleum

Worcester A6-28

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Satchell Creek Petroleum**

3032 N Cortina St
Wichita, KS 67205

ATTN: Sean Dennihan & Chri

Worcester A6-28

28-7-22 Graham County

Start Date: 2023.06.19 @ 18:13:35

End Date: 2023.06.20 @ 02:15:05

Job Ticket #: 01541 DST #: 3

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

Printed: 2023.06.19 @ 21:59:36



DRILL STEM TEST REPORT

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

ATTN: Sean Dennihan & Chri

Job Ticket: 01541

DST#: 3

Test Start: 2023.06.19 @ 18:13:35

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:34:35

Time Test Ended: 02:15:05

Test Type: Conventional Straddle (Initial)

Tester: Chad F Geist

Unit No: 1

Interval: **3733.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3995.00 ft (KB) (TVD)

2299.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 76.68 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2023.06.19

End Date: 2023.06.20

Last Calib.: 1899.12.30

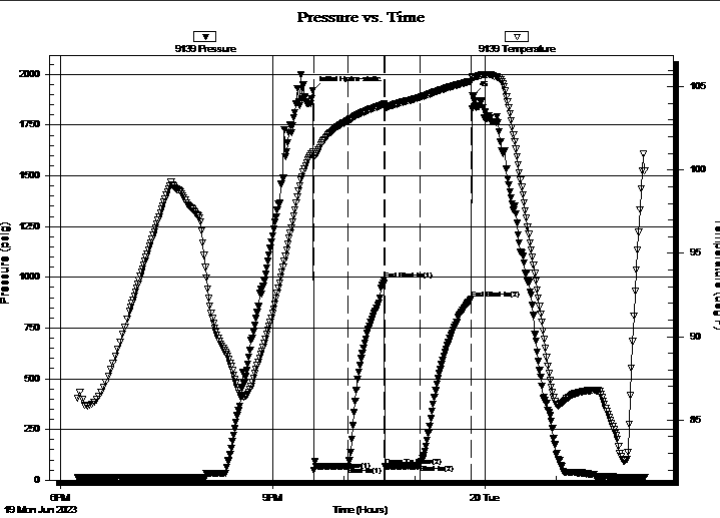
Start Time: 18:13:35

End Time: 02:15:05

Time On Btm: 2023.06.19 @ 21:33:35

Time Off Btm:

TEST COMMENT:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.77	101.10	Initial Hydro-static
1	49.61	100.76	Open To Flow (1)
30	69.65	102.97	Shut-In(1)
61	988.15	103.96	End Shut-In(1)
62	69.34	103.74	Open To Flow (2)
91	76.68	104.36	Shut-In(2)
134	891.84	105.33	End Shut-In(2)
136	1894.60	105.59	45

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Oil Cut Drilling Mud	
	3% Oil 97% Drilling Mud	

Gas Rates

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



DRILL STEM TEST REPORT

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

ATTN: Sean Dennihan & Chri

Job Ticket: 01541

DST#: 3

Test Start: 2023.06.19 @ 18:13:35

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:34:35

Time Test Ended: 02:15:05

Test Type: Conventional Straddle (Initial)

Tester: Chad F Geist

Unit No: 1

Interval: 3733.00 ft (KB) To 3995.00 ft (KB) (TVD)

Reference Elevations: 2307.00 ft (KB)

Total Depth: 3995.00 ft (KB) (TVD)

2299.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2023.06.19 End Date: 2023.06.20

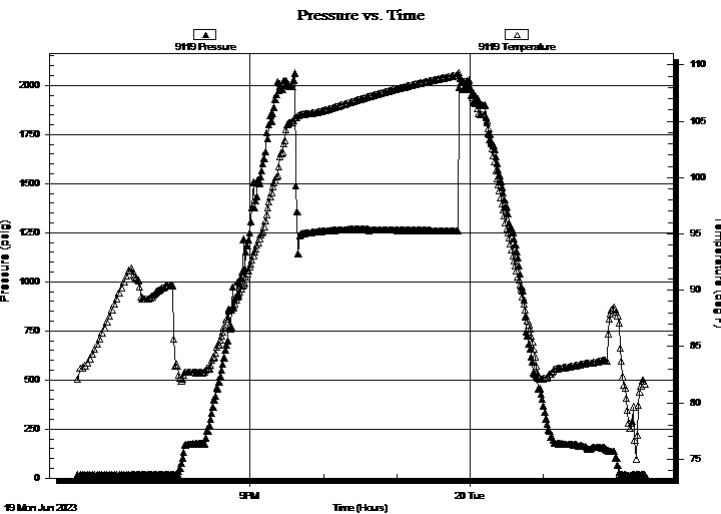
Last Calib.: 1899.12.30

Start Time: 18:37:26 End Time: 02:23:56

Time On Btm:

Time Off Btm:

TEST COMMENT:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Oil Cut Drilling Mud	
	3% Oil 97% Drilling Mud	

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01541

DST#: 3

ATTN: Sean Dennihan & Chri

Test Start: 2023.06.19 @ 18:13:35

Tool Information

Drill Pipe:	Length:	ft	Diameter:	inches	Volume:	- bbl	Tool Weight:	20000.00 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:	65000.00 lb
					Total Volume:	- bbl	Tool Chased	8.00 ft
Drill Pipe Above KB:		ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		ft					Final	52500.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:	0.00	ft						
Tool Length:	327.00	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	29.00			57.50	
Recorder	0.00		Inside	57.50	
Recorder	0.00		Outside	57.50	
Blank Off Sub	1.00			58.50	
Packer - Shale	5.00			63.50	
Change Over Sub	0.75			64.25	
Drill Pipe	248.00	9119	Inside	312.25	
Change Over Sub	0.75	9139	Outside	313.00	
Anchor	9.00			322.00	
Recorder	0.00			322.00	
Bullnose	5.00			327.00	327.00
					Anchor Tool

Total Tool Length: 327.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Satchell Creek Petroleum

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01541

DST#: 3

ATTN: Sean Dennihan & Chri

Test Start: 2023.06.19 @ 18:13:35

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 6.00 in³
Resistivity: ohm.m
Salinity: 1000.00 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
45.00	Oil Cut Drilling Mud	
	3% Oil 97% Drilling Mud	

Total Length: 45.00 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

28-7-22 Graham County

3032 N Cortina St
Wichita, KS 67205

Worcester A6-28

Job Ticket: 01541

DST#: 3

ATTN: Sean Dennihan & Chri

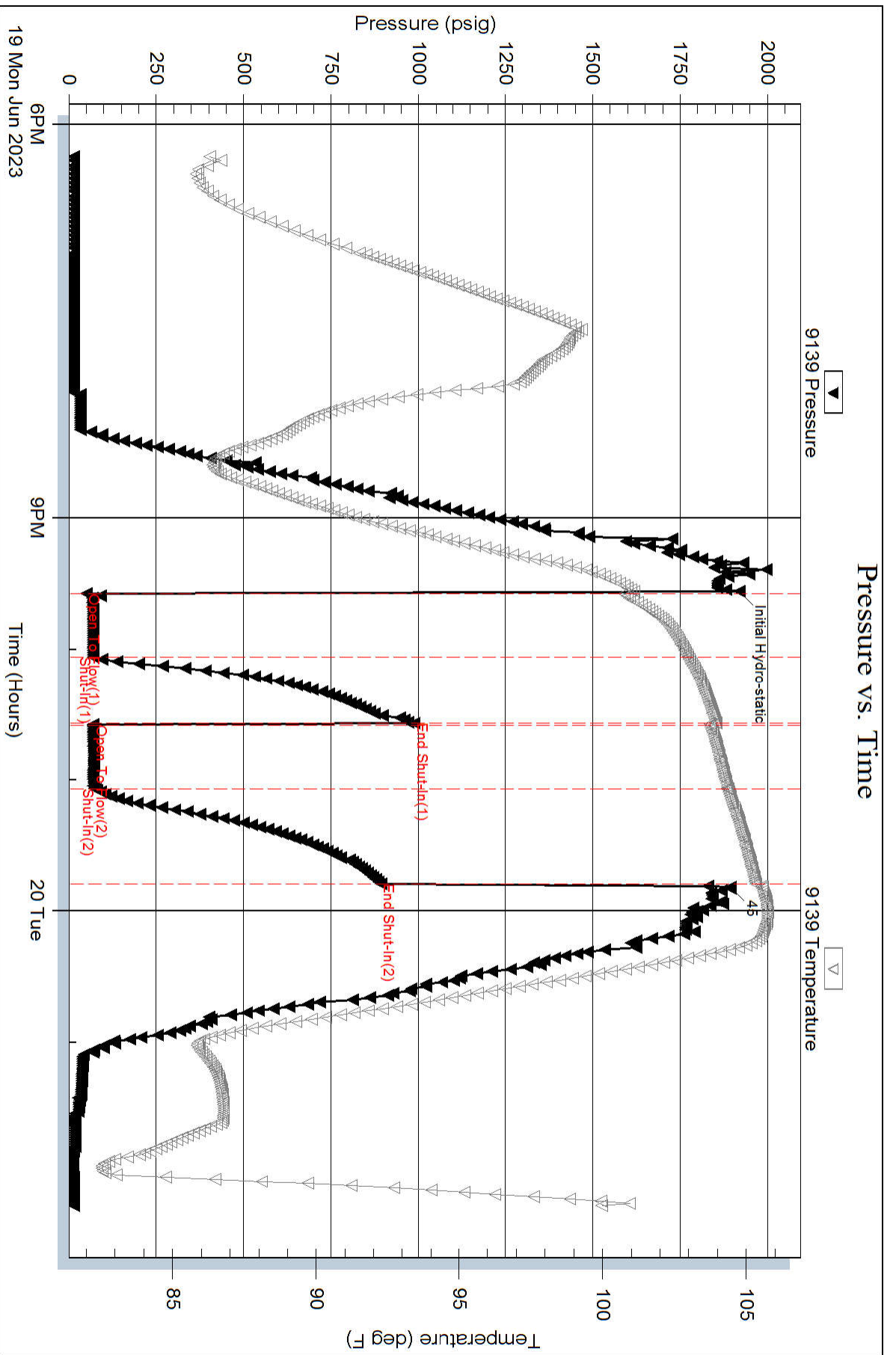
Test Start: 2023.06.19 @ 18:13:35

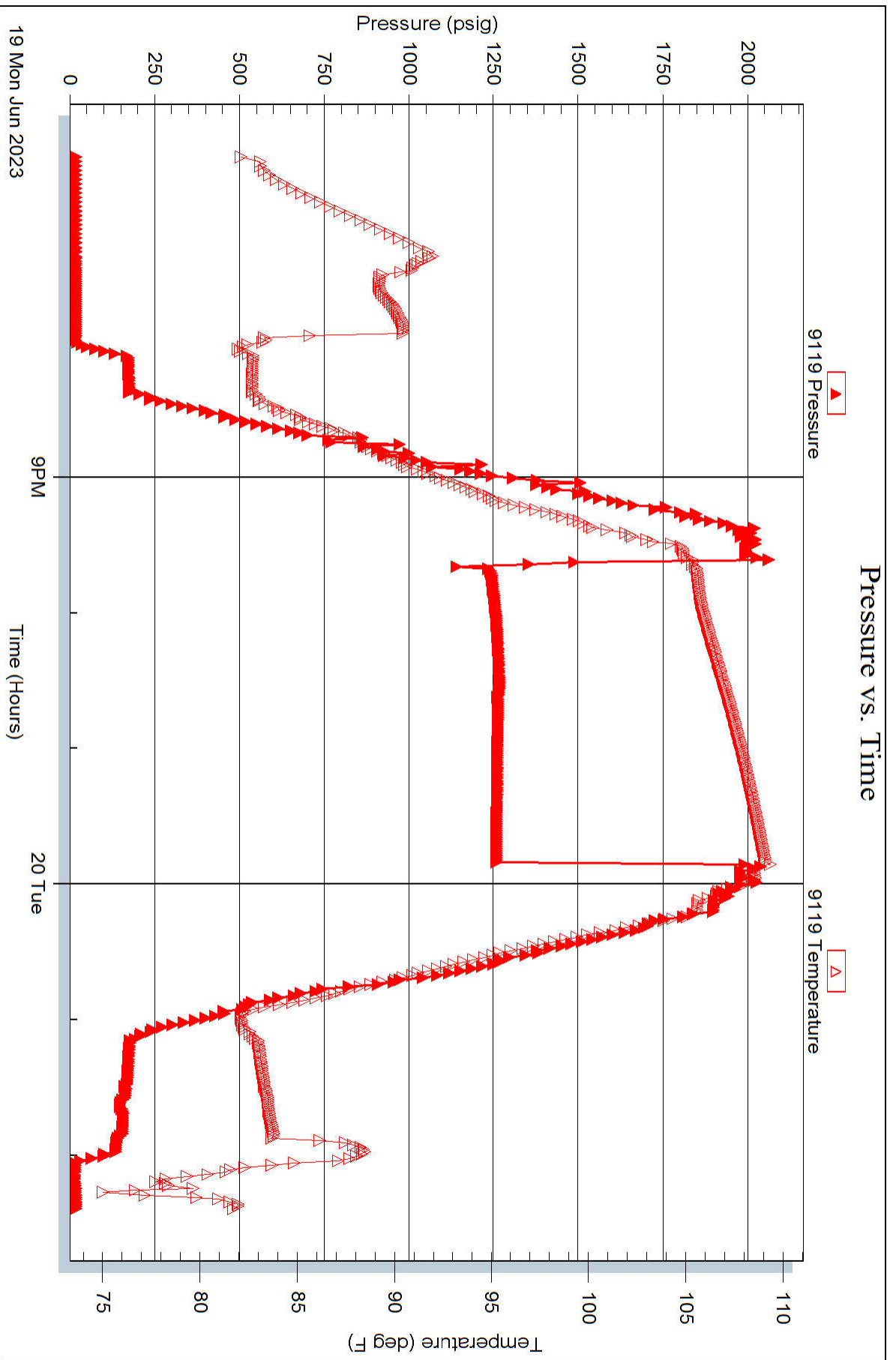
Gas Rates Information

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







CEMENT TREATMENT REPORT

Customer:	Satchell Creek	Well:	Worcester A 6-28	Ticket:	WP 4382
City, State:	Hill City KS	County:	Graham KS	Date:	6/11/2023
Field Rep:	Randy	S-T-R:	28-7S-22W	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	270 ft
Casing Size:	8 5/8 in
Casing Depth:	268 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	15.7 bbls

Calculated Slurry - Lead	
Blend:	HXH-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	0.0735 bbls / ft.
Depth:	268 ft
Annular Volume:	19.7 bbls
Excess:	
Total Slurry:	46.4 bbls
Total Sacks:	185 sx

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

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
8:40 AM			-	-	Arrived on location
8:50 AM				-	Safety meeting
8:55 AM				-	Casing on bottom
9:02 AM				-	Circulated mud
9:05 AM				-	Rigged up
9:35 AM	3.0	100.0	5.0	5.0	Water ahead
9:37 AM	4.7	375.0	46.4	51.4	Mixed 185 sacks HXH-325 cement @ 14.8 ppg
9:48 AM	4.5	250.0	15.7	67.1	Begin displacement
9:53 AM		100.0		67.1	Plug down and shut in with 5 bbls/20 sacks cement circulated to pit
9:55 AM				67.1	Washed up and rigged down
10:25 AM				67.1	Left location

CREW	UNIT	SUMMARY		
		Average Rate	Average Pressure	Total Fluid
Cementer:	John	947		
Pump Operator:	Jake	208	4.1 bpm	206 psi
Bulk #1:	Lupe	205		67 bbls
Bulk #2:				