

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 Recompletion Date _____ 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 A8-21
Doc ID	1735402

All Electric Logs Run

BHV
DIL
DUCP
MEL

Sean Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **Satchell Creek Petroleum, LLC**
 LEASE **Worcester A #8-21**

ELEVATIONS
 KB 2347'

FIELD **Wildcat**
 LOCATION **2570' ENL & 414' FWL**
 SEC **21** TWPSP **7S** RGE **22W**
 COUNTY **Graham** STATE **Kansas**
 CONTRACTOR **Feature Drilling Rig #1**
 SPUD **7/2/23** COMP **7/9/23**
 RTD **3950'** LTD **3940'**
 MUD UP **3100'** TYPE MUD **Chemical**

MEASUREMENTS
 DF _____ GL **23.40'**
 Measurements Are All From Kelly Bushing

CASING
 CONDUCTOR _____
 SURFACE **8'-5/8"** at 22.3'
 PRODUCTION **5.5"**

SAMPLES SAVED FROM **3100'** TO **RTD**
 DRILLING TIME KEPT FROM **3100'** TO **RTD**
 SAMPLES EXAMINED FROM **3100'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3100'**
 REFERENCE WELL _____
 CND/DIL _____
 MIC/SON _____

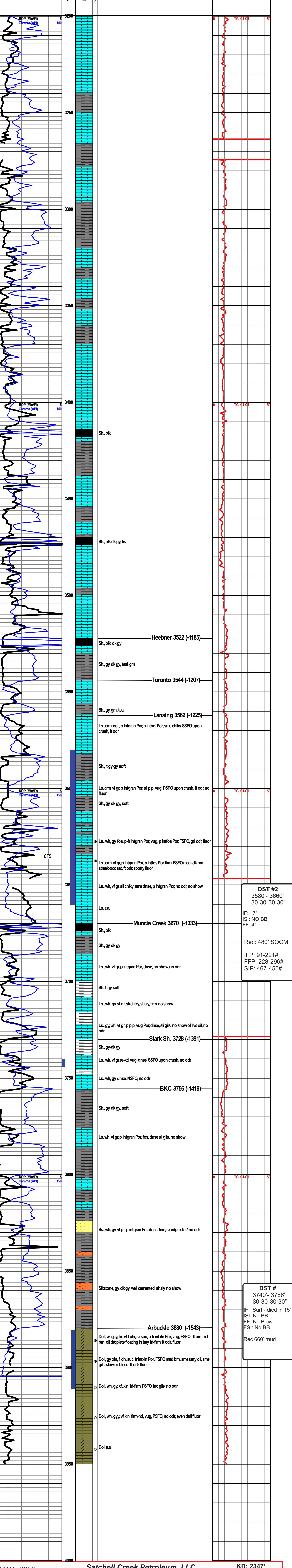
Formation	Sample Tops	E-log Tops	Struct. Foss.
Heebner Sh.	3544 (-1797)		
Lansing	3567 (-1215)		
Stark Shale	3728 (-1382)		
BKC	3755 (-1408)		



REMARKS The Worcester A #8-21 had shows of oil and will be further evaluated through casing.

Respectfully Submitted,

Sean P. Deenihan



DST #2
 3580' - 3660'
 30-30-30-30"
 IF: 7"
 ISI: No BB
 FF: 4"
 Rec: 480' SOCM

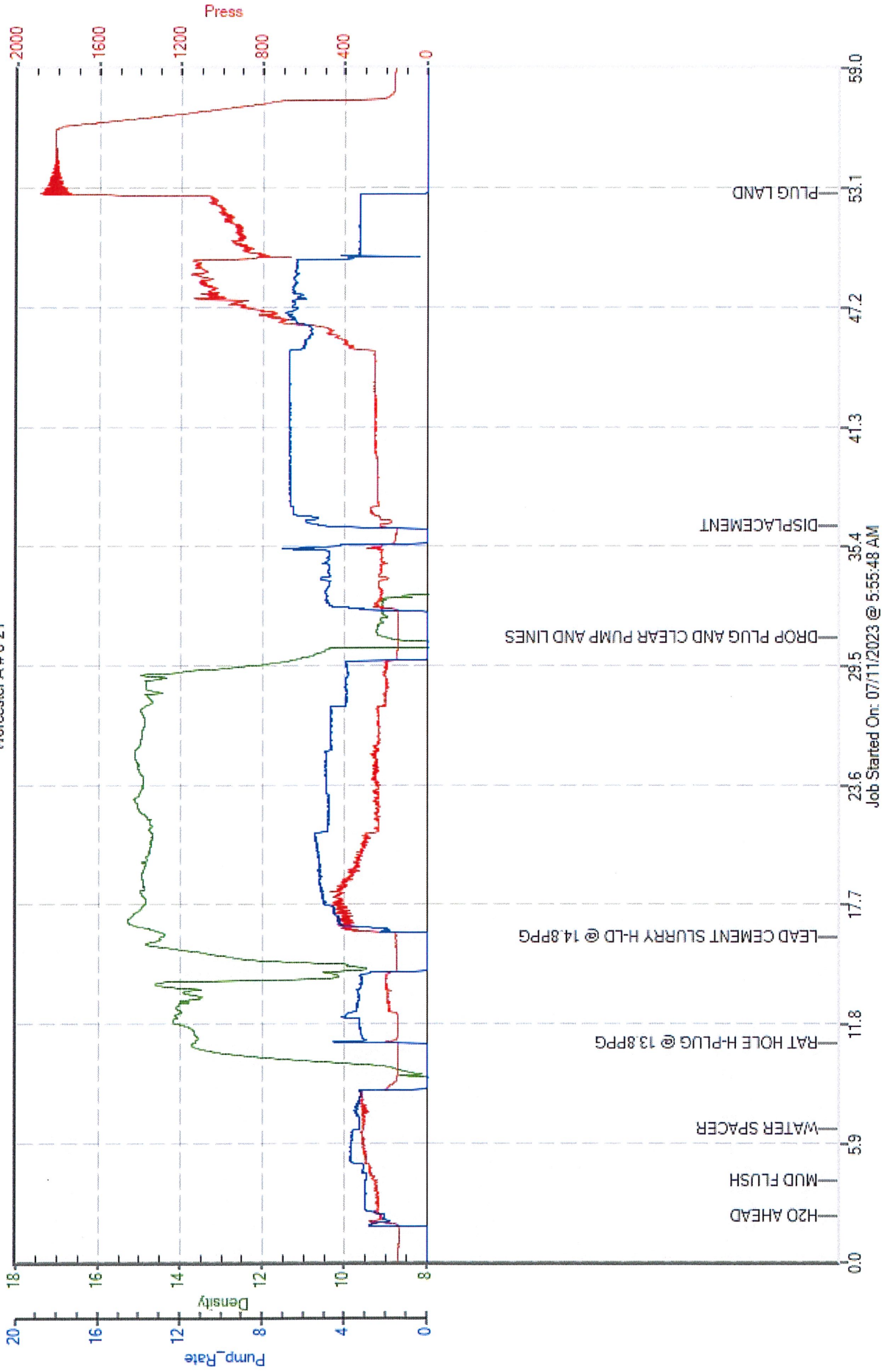
DST #
 3740' - 3786'
 30-30-30-30"
 IF: Surf - died in 15"
 ISI: No BB
 FF: No Blow
 FS: No BB
 Rec 660' mud

RTD: 3950'
 LTD: 3940'

Satchell Creek Petroleum, LLC
 Worcester A #8-21
 21-7S-22W
 Graham County, KS

KB: 2347'

Satchell Creek
Worcester A # 8-21



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 3735

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

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

Date	7/27/23	Sec.	28	Twp.	7	Range	22	County	Grgh cm	State	KS	On Location		Finish	
Location													Hill City ETO 310 RD 3N		

Lease	WORCESTER		Well No	A8-21	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	Professional				Charge To	Satchell Creek Pet LLC									
Type Job	P.C.				Street										
Hole Size	7 7/8	T.D.			City	State									
Csg.	55	Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Tbg. Size	2 7/8	Depth			Cement Amount Ordered	5000 Qm DC 1/4 FLO									
Tool		Depth													
Cement Left in Csg.		Shoe Joint													
Meas Line		Displace													

EQUIPMENT			
Pumptrk	16	No.	Cementor
			Helper
			Driver
Bulktrk		No.	Driver
			Driver
Bulktrk	21	No.	Driver
			Driver

Bill
JORDAN
TBOUS

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

P.C. c 1916

Pump 3000

Cent Did Circ.

used 3000

Bill is the Best!

Common	3000 U 300 Qm DC
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	2500#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	500
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Port collar Job
Mileage	55
Tax	
Discount	
Total Charge	

X Signature *Colt Jones*

Thanks



DRILL STEM TEST REPORT

Prepared For: **Satchell Creek Petroleum**

3032 N Cortina
Wichita, KS 67205

ATTN: Chris Leiker

Worcester A8-21

Graham 21-7s-22w

Start Date: 2023.07.10 @ 08:20:16

End Date: 2023.07.10 @ 18:10:16

Job Ticket #: 01544 DST #: 1

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

Printed: 2023.07.10 @ 12:42:17



DRILL STEM TEST REPORT

Satchell Creek Petroleum

Graham 21-7s-22w

3032 N Cortina
Wichita, KS 67205

Worcester A8-21

ATTN: ChrisLeiker

Job Ticket: 01544

DST#: 1

Test Start: 2023.07.10 @ 08:20:16

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:28:16

Time Test Ended: 18:10:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Chad

Unit No: 1

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

Reference Elevations: 2340.00 ft (KB)

Total Depth: 3950.00 ft (KB) (TVD)

2332.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9119

Inside

Press@RunDepth: 468.77 psig @ 3945.00 ft (KB)

Capacity: psig

Start Date: 2023.07.10

End Date:

2023.07.10

Last Calib.: 1899.12.30

Start Time: 08:20:16

End Time:

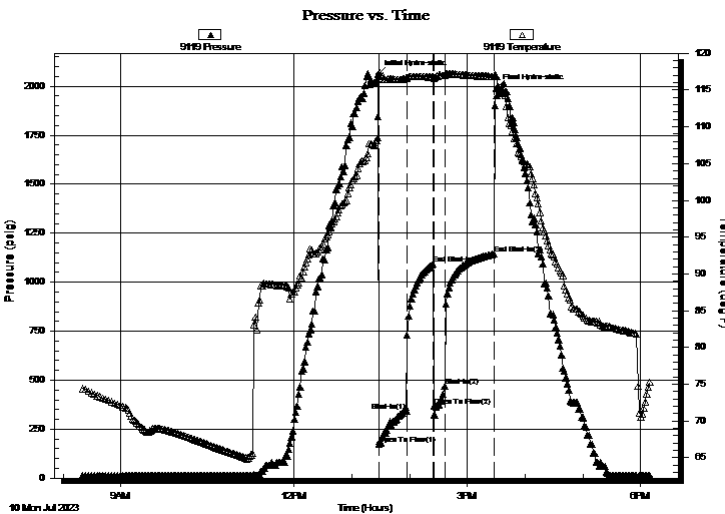
18:10:16

Time On Btm: 2023.07.10 @ 13:26:46

Time Off Btm: 2023.07.10 @ 15:29:46

TEST COMMENT: Initial Opening: Built to 7" after 30 mins
Shut-In: N/A
Second Opening: Built to 4" after 30 mins
Shut-In: N/A

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.10	108.48	Initial Hydro-static
2	172.91	117.07	Open To Flow (1)
30	341.58	116.61	Shut-In(1)
58	1092.53	116.78	End Shut-In(1)
59	369.18	116.61	Open To Flow (2)
70	468.77	117.02	Shut-In(2)
121	1143.69	116.85	End Shut-In(2)
123	1986.93	117.00	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Satchell Creek Petroleum

Graham 21-7s-22w

3032 N Cortina
Wichita, KS 67205

Worcester A8-21

ATTN: ChrisLeiker

Job Ticket: 01544

DST#: 1

Test Start: 2023.07.10 @ 08:20:16

Tool Information

Drill Pipe:	Length: 3815.00 ft	Diameter:	inches	Volume: 3705977 bbl	Tool Weight:	10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter:	inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: ft	Diameter:	inches	Volume: - bbl	Weight to Pull Loose:	60000.00 lb
				Total Volume: - bbl	Tool Chased	11.00 ft
Drill Pipe Above KB:	13.50 ft				String Weight: Initial	49000.00 lb
Depth to Top Packer:	3830.00 ft				Final	52000.00 lb
Depth to Bottom Packer:	ft					
Interval between Packers:	120.00 ft					
Tool Length:	148.50 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			3806.50	
Hydraulic tool	6.00			3812.50	
Jars	4.00			3816.50	
Safety Joint	2.50			3819.00	
Top Packer	6.50			3825.50	
Packer	4.50			3830.00	28.50 Bottom Of Top Packer
Anchor	115.00			3945.00	
Recorder	0.00	9119	Inside	3945.00	
Recorder	0.00	9139	Outside	3945.00	
Bullnose	5.00			3950.00	120.00 Anchor Tool
Total Tool Length:	148.50				



DRILL STEM TEST REPORT

FLUID SUMMARY

Satchell Creek Petroleum

Graham 21-7s-22w

3032 N Cortina
Wichita, KS 67205

Worcester A8-21

Job Ticket: 01544

DST#: 1

ATTN: ChrisLeiker

Test Start: 2023.07.10 @ 08:20:16

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: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
660.00	Watery Drilling Mud	

Total Length: 660.00 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 21-7s-22w

3032 N Cortina
Wichita, KS 67205

Worcester A8-21

Job Ticket: 01544

DST#: 1

ATTN: ChrisLeiker

Test Start: 2023.07.10 @ 08:20:16

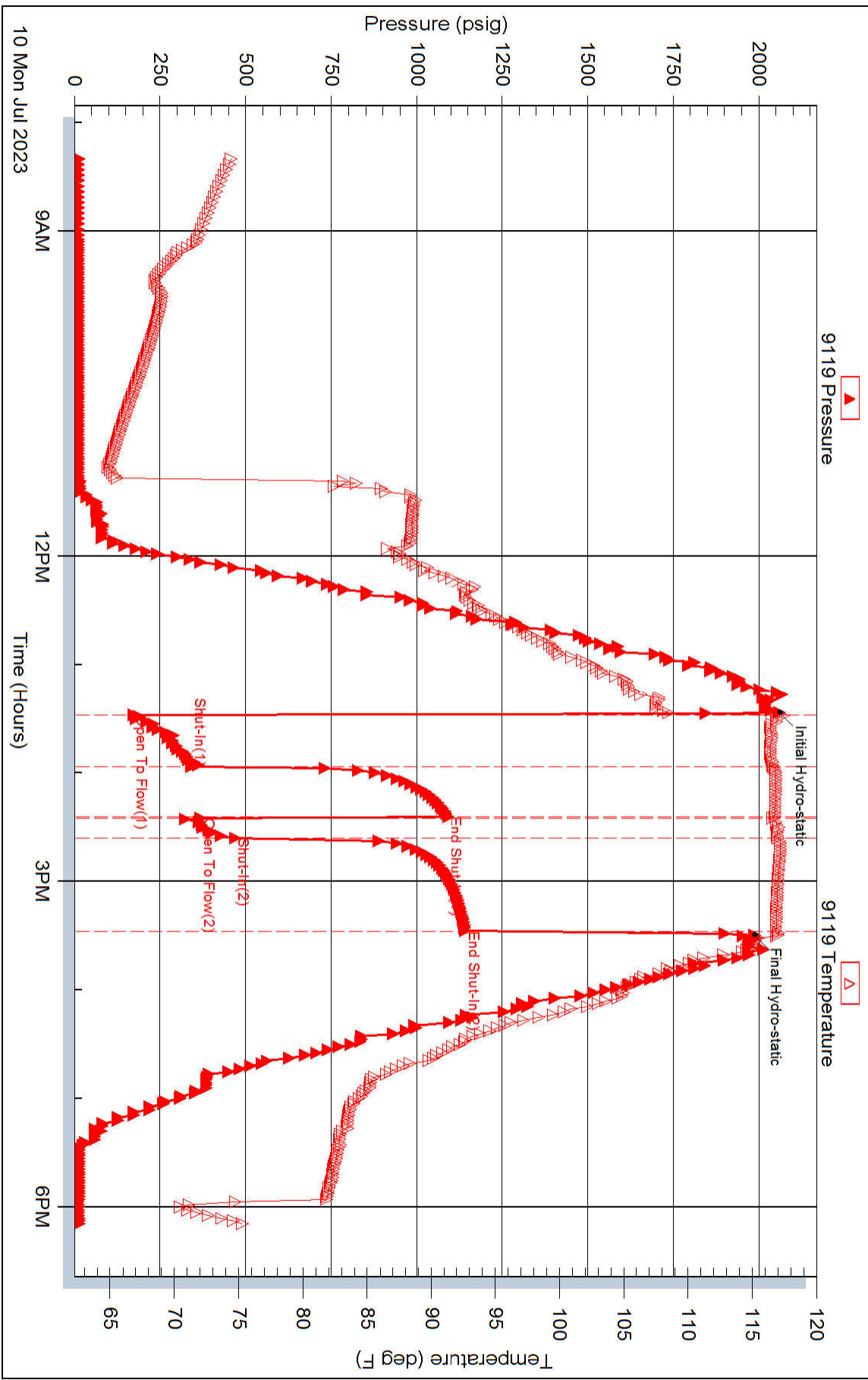
Gas Rates Information

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

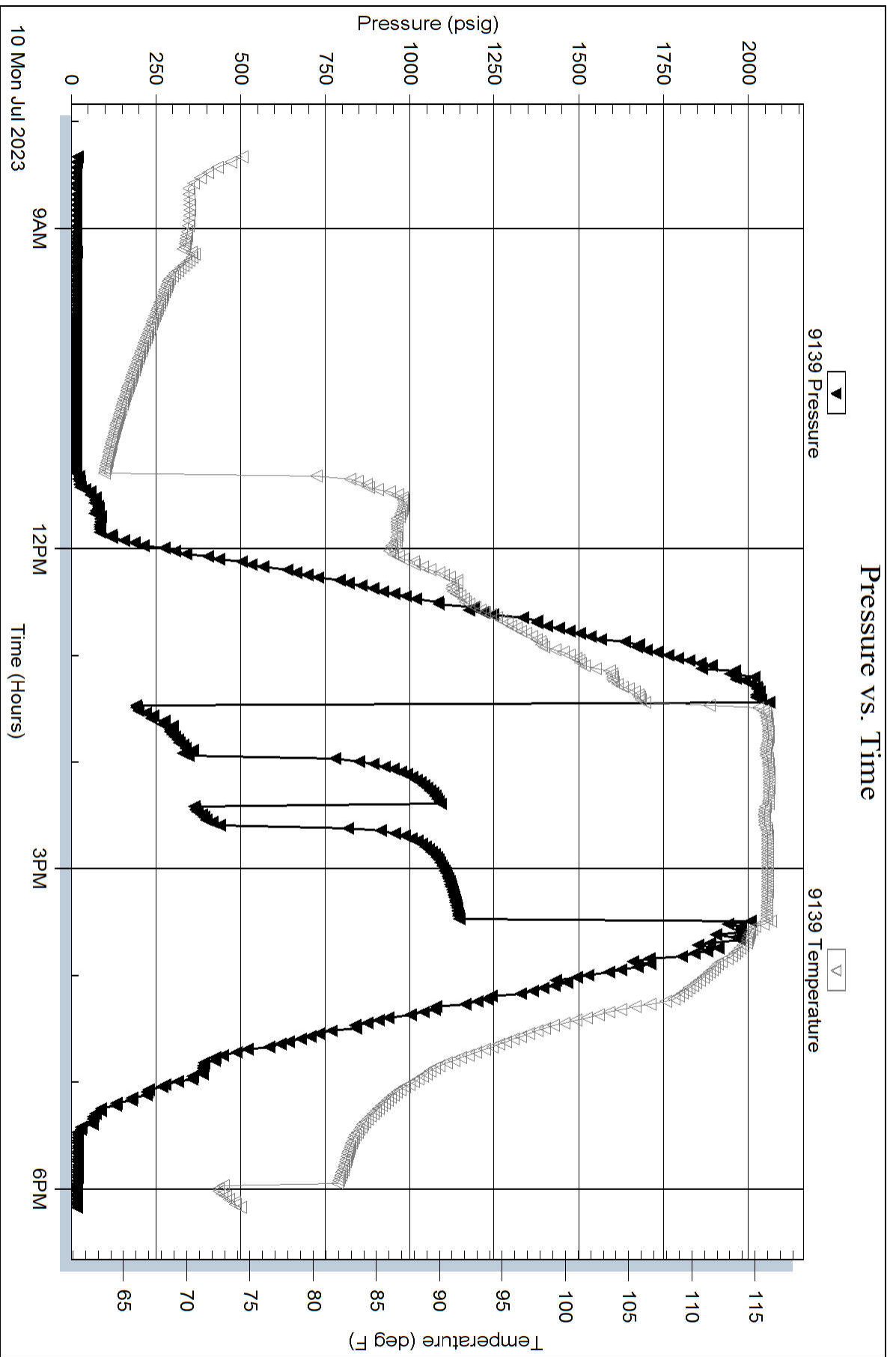


Serial #: 9139

Outside Satchell Creek Petroleum

Worcester A8-21

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Satchell Creek Petroleum**

3032 N Cortina
Wichita, KS 67205

ATTN: Chris Leiker

Worcester A8-21

Graham 21-7s-22w

Start Date: 2023.07.10 @ 16:16:01

End Date: 2023.07.10 @ 23:29:31

Job Ticket #: 01544 DST #: 2

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

Printed: 2023.07.11 @ 12:14:58



DRILL STEM TEST REPORT

Satchell Creek Petroleum

Graham 21-7s-22w

3032 N Cortina
Wichita, KS 67205

Worcester A8-21

ATTN: ChrisLeiker

Job Ticket: 01544

DST#: 2

Test Start: 2023.07.10 @ 16:16:01

GENERAL INFORMATION:

Formation: **Lansing C-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:46:31

Time Test Ended: 23:29:31

Test Type: Conventional Straddle (Initial)

Tester: Chad

Unit No: 1

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

Reference Elevations: 2340.00 ft (KB)

Total Depth: 3950.00 ft (KB) (TVD)

2332.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 296.45 psig @ ft (KB)

Capacity: psig

Start Date: 2023.07.10 End Date: 2023.07.10

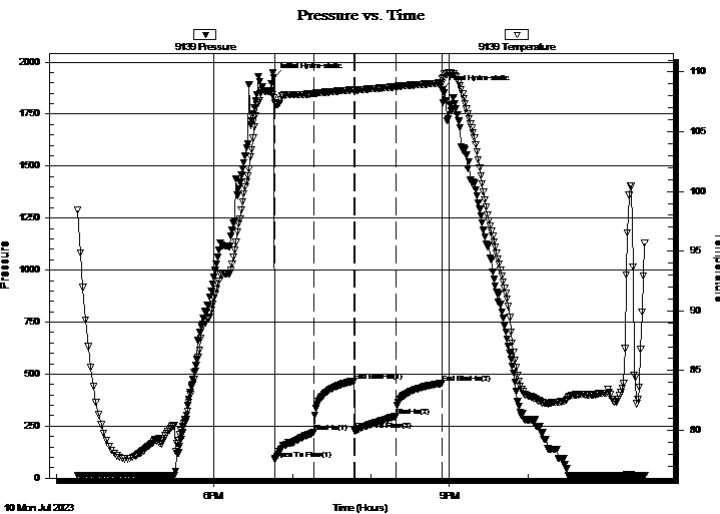
Last Calib.: 1899.12.30

Start Time: 16:16:01 End Time: 23:29:31

Time On Btm: 2023.07.10 @ 18:46:01

Time Off Btm: 2023.07.10 @ 20:54:31

TEST COMMENT:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1926.83	107.83	Initial Hydro-static
1	91.11	107.39	Open To Flow (1)
31	220.95	108.19	Shut-In(1)
61	467.50	108.52	End Shut-In(1)
62	228.17	108.43	Open To Flow (2)
93	296.45	108.77	Shut-In(2)
128	455.71	109.09	End Shut-In(2)
129	1866.29	109.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	LIGHTLY OIL CUT DRILLING MUD	
0.00	GOOD SHOW OF OIL IN TOOL JOINT	

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Satchell Creek Petroleum

Graham 21-7s-22w

3032 N Cortina
Wichita, KS 67205

Worcester A8-21

ATTN: ChrisLeiker

Job Ticket: 01544

DST#: 2

Test Start: 2023.07.10 @ 16:16:01

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:	30000.00 lb
Drill Collar:	Length:	ft	Diameter:	inches	Volume:	- bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	- bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		ft					String Weight: Initial	49000.00 lb
Depth to Top Packer:		ft					Final	56000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:	0.00	ft						
Tool Length:	399.00	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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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	74.00			102.50	
Recorder	0.00		Inside	102.50	
Recorder	0.00		Outside	102.50	
Blank Off Sub	1.00			103.50	
Packer - Shale	5.00			108.50	
Change Over Sub	0.75			109.25	
Drill Pipe	279.00	9119	Inside	388.25	
Change Over Sub	0.75	9139	Outside	389.00	
Anchor	5.00			394.00	
Recorder	0.00			394.00	
Bullnose	5.00			399.00	399.00

Total Tool Length: 399.00

Anchor Tool



DRILL STEM TEST REPORT

FLUID SUMMARY

Satchell Creek Petroleum

Graham 21-7s-22w

3032 N Cortina
Wichita, KS 67205

Worcester A8-21

Job Ticket: 01544

DST#: 2

ATTN: ChrisLeiker

Test Start: 2023.07.10 @ 16:16:01

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: 7.90 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	LIGHTLY OIL CUT DRILLING MUD	
0.00	GOOD SHOW OF OIL IN TOOL JOINT	

Total Length: 480.00 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 21-7s-22w

3032 N Cortina
Wichita, KS 67205

Worcester A8-21

Job Ticket: 01544

DST#: 2

ATTN: ChrisLeiker

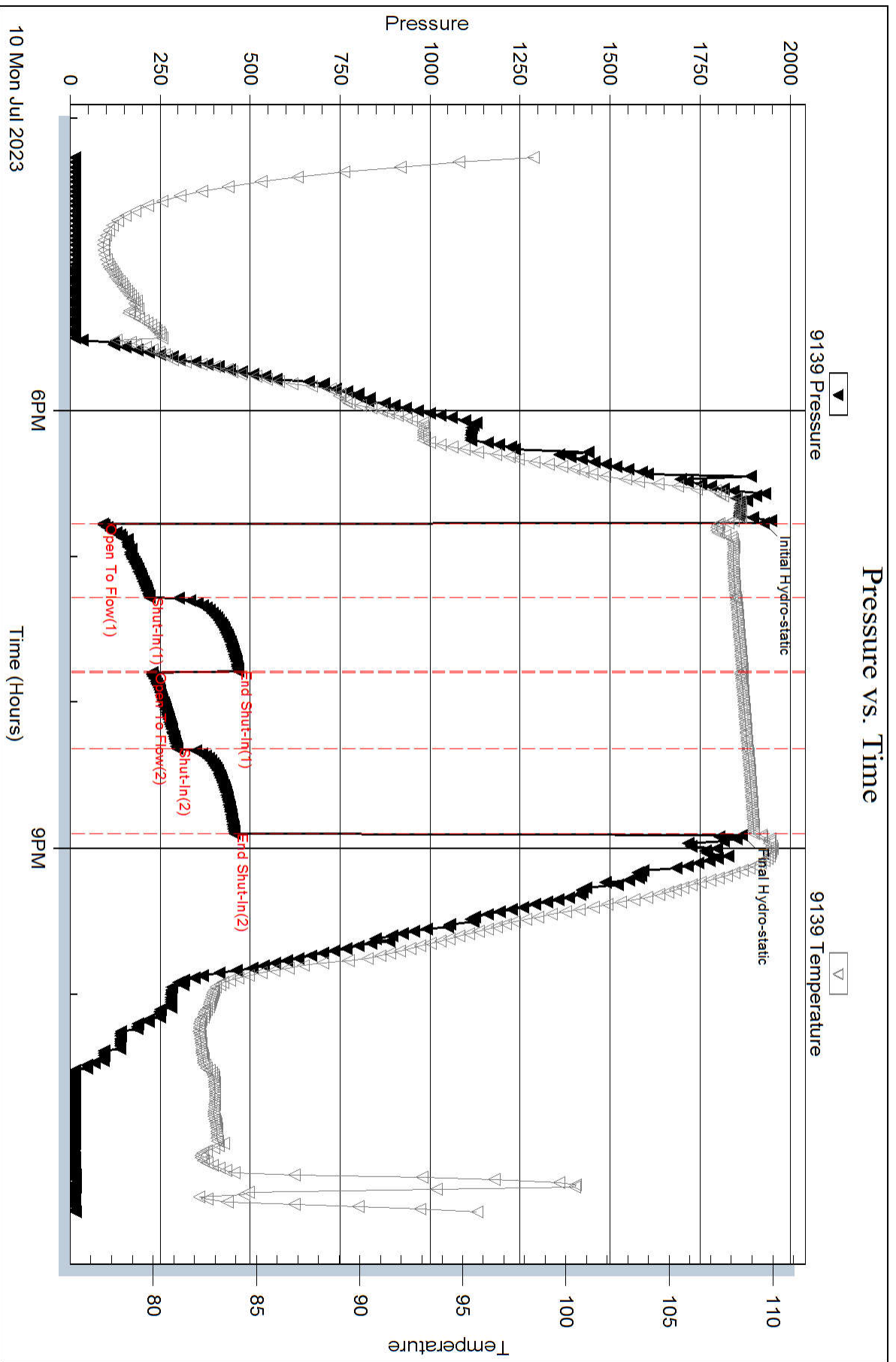
Test Start: 2023.07.10 @ 16:16:01

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 A8-21

DST Test Number: 2

