

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 <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 A9-21
Doc ID	1735416

All Electric Logs Run

BHV
DIL
DUCP
MEL



# Sean P. Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT

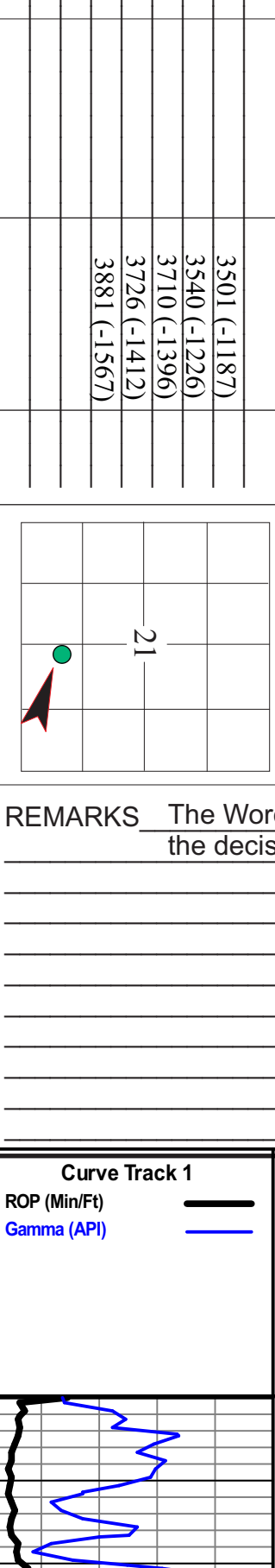
#### DRILLING TIME AND SAMPLE LOG

COMPANY Satchell Creek Petroleum, LLC  
 LEASE Worcester A #9-21  
 FIELD Wildcat  
 LOCATION 1186' FSL & 2534' FWL  
 SEC 21 TWPSP 7S RGE 22W  
 COUNTY Graham STATE Kansas  
 CONTRACTOR Feature Drilling  
 SPUD 6/26/23 COMP 7/2/23  
 RTD 3900' LTD 3914'  
 MUD UP 3300' TYPE MUD Chemical

ELEVATIONS  
 KB 2314'  
 DF \_\_\_\_\_  
 GL 2307'  
 Measurements Are All From Kelly Bushing

CASING  
 CONDUCTOR \_\_\_\_\_  
 SURFACE 8'-5/8" at 269'  
 PRODUCTION 5.5" at 1TD'  
 ELECTRICAL SURVEYS  
 MIDWEST  
 CND/DIL.  
 MIC/SON

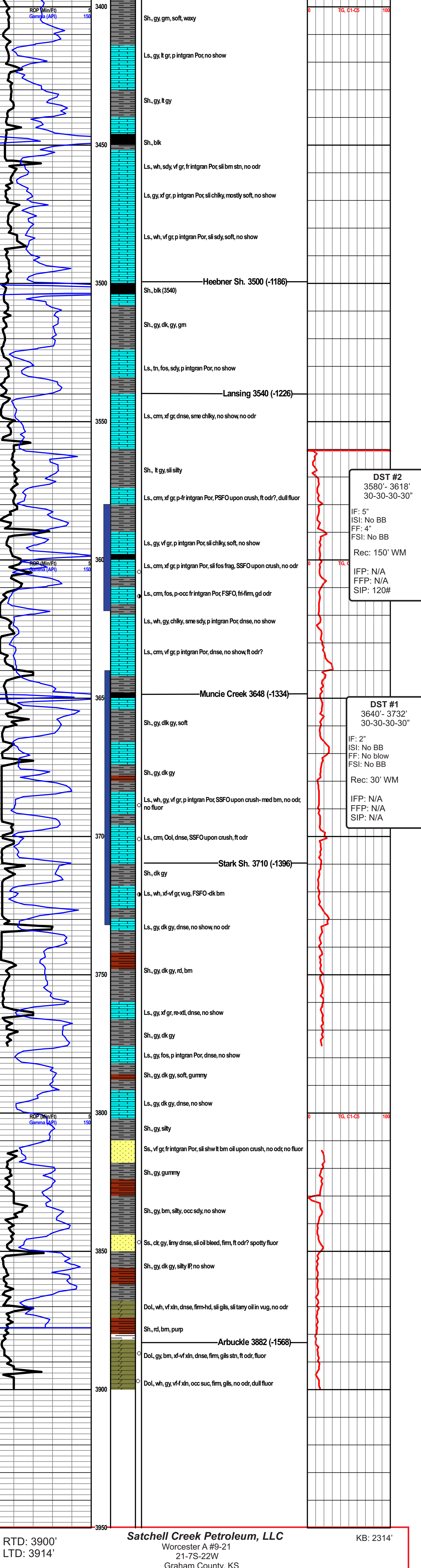
Formation	Sample Tops	E-log Tops	Structure
Heebner Sh.		3501 (-1187)	
Lansing		3540 (-1226)	
Stark Sh.		3710 (-1396)	
Hushpuckney Sh.		3726 (-1412)	
Arbuckle		3881 (-1567)	



REMARKS The Worcester A#9-21 had numerous oil shows. Therefore, the decision was made to complete this well for commercial oil production.

Respectfully Submitted,

Sean P. Deenihan



**DST #2**  
 3580' - 3618'  
 30-30-30-30"  
 IF: 5"  
 ISI: No BB  
 FF: 4"  
 FSI: No BB  
 Rec: 150' WM  
 IFP: N/A  
 FFP: N/A  
 SIP: 120#

**DST #1**  
 3640' - 3732'  
 30-30-30-30"  
 IF: 2"  
 ISI: No BB  
 FF: No blow  
 FSI: No BB  
 Rec: 30' WM  
 IFP: N/A  
 FFP: N/A  
 SIP: N/A

RTD: 3900'  
 LTD: 3914'

**Satchell Creek Petroleum, LLC**  
 Worcester A #9-21  
 21-7S-22W  
 Graham County, KS

KB: 2314'





Rig Tech LLC  
 Washington St. Ellis, KS  
 785 726-1968

Invoice

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 3734

Phone 785-483-1071  
 Fax 785-324-1041

Date	7-27-23	Sec.	28	Twp.	7	Range	22	County	Graham	State	Ks	On Location		Finish	
Location													Hill City E To Rd 310 3rd		

Lease	WORCESTER		Well No.	A-9-21		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	Sutchell Creek Pt LLC								
Type Job	P.C.					Street									
Hole Size	7 7/8		T.D.			City	State								
Csg.	5 1/2		Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Tbg. Size	2 3/8		Depth			Cement Amount Ordered	500# QMAC # F16								
Tool			Depth			800' Gel									
Cement Left in Csg.			Shoe Joint			Common	500 QMAC								
Meas Line			Displace			Poz. Mix									

**EQUIPMENT**

Pumptrk	16	No.	Cementer		Bill
			Helper		
Bulktrk		No.	Driver		JORDAN
			Driver		
Bulktrk	21	No.	Driver		Byant
			Driver		

**JOB SERVICES & REMARKS**

Remarks:  
 Rat Hole  
 Mouse Hole  
 Centralizers  
 Baskets  
 D/V or Port Collar  
 P.C.C.  
 mix 800 # of Gel  
 Cement w/ 500#  
 Cement Did not Circ.

Calcium	
Hulls	
Salt	
Flowseal	250 #
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	510
Mileage	

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	port collar Job
Mileage	55

Tax  
 Discount  
 Total Charge

Thanks

Signature *[Handwritten Signature]*

*[Handwritten Signature]*



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 3415

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

Date	8/18/23	Sec.	21	Twp.	75	Range	22W	County	Grattan	State	KS	On Location		Finish	5:30pm
------	---------	------	----	------	----	-------	-----	--------	---------	-------	----	-------------	--	--------	--------

Lease	Worcester	Well No.	A9-21	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 Petroleum
Type Job	1 inch			Street	
Hole Size		T.D.		City	State
Csg.	5 1/2	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size	2 7/8	Depth		Cement Amount Ordered	300SKS Qmdc 1/4 Fl <sub>2</sub>
Tool		Depth			
Cement Left in Csg.		Shoe Joint			
Meas Line		Displace		Common	130 Qmdc

EQUIPMENT			
Pumptrk	18	No.	Cementer Helper Bryant
Bulktrk	9	No.	Driver Corey
Bulktrk	PV	No.	Driver Nick

**JOB SERVICES & REMARKS**

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Ran 1 inch hooked up, pumped 130# SKS Cement did Circulate!

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Thanks!

Pumptrk Charge Cir Cement

Mileage 55

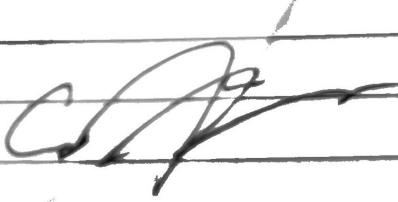
Thanks

Tax

Discount

Total Charge

Signature





## DRILL STEM TEST REPORT

Prepared For: **SATCHELL CREEK PETROLEUM**

3032 N CORTINA  
WICHITA, KS 67205

ATTN: CHRIS LEIKER

### **WORCESTER A9-21**

### **GRAHAM COUNTY 21-7s-22w**

Start Date: 2023.07.02 @ 20:50:26

End Date: 2023.07.03 @ 08:18:26

Job Ticket #: 01543                      DST #: 1

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

Printed: 2023.07.02 @ 21:22:15



# DRILL STEM TEST REPORT

SATCHELL CREEK PETROLEUM

GRAHAM COUNTY 21-7s-22w

3032 N CORTINA  
WICHITA, KS 67205

WORCESTER A9-21

ATTN: CHRIS LEIKER

Job Ticket: 01543

DST#: 1

Test Start: 2023.07.02 @ 20:50:26

## GENERAL INFORMATION:

Formation: **LANSING H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:31:56

Time Test Ended: 08:18:26

Test Type: Conventional Straddle (Initial)

Tester: CHAD

Unit No: 1

Interval: **3640.00 ft (KB) To 3732.00 ft (KB) (TVD)**

Reference Elevations: 2304.00 ft (KB)

Total Depth: 3914.00 ft (KB) (TVD)

2296.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

## Serial #: 9139

Press@RunDepth: 86.01 psig @ ft (KB)

Capacity: psig

Start Date: 2023.07.02

End Date: 2023.07.03

Last Calib.: 1899.12.30

Start Time: 20:50:26

End Time: 08:18:26

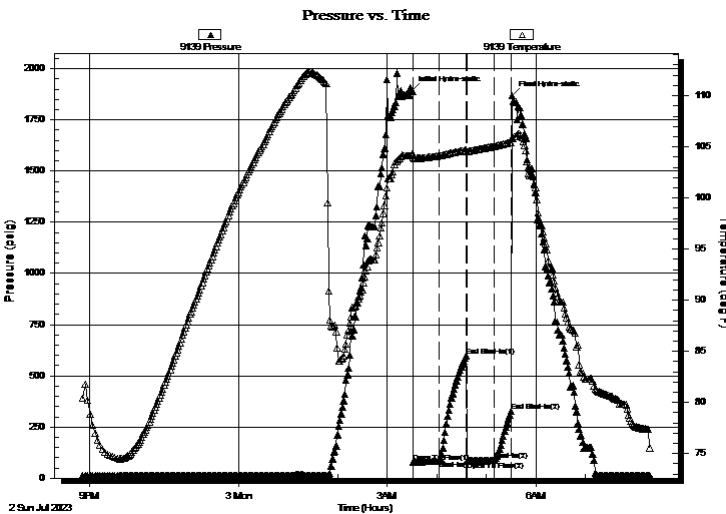
Time On Btm: 2023.07.03 @ 03:30:26

Time Off Btm: 2023.07.03 @ 05:31:26

TEST COMMENT: 30-30-30-30

7/2 @ 4:00pm - 6:00pm

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.82	104.30	Initial Hydro-static
2	77.65	103.90	Open To Flow (1)
33	85.68	104.11	Shut-In(1)
66	597.93	104.68	End Shut-In(1)
67	83.39	104.54	Open To Flow (2)
100	86.01	105.06	Shut-In(2)
120	326.45	105.42	End Shut-In(2)
121	1867.09	105.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Watery 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 A9-21**

Job Ticket: 01543

**DST#: 1**

ATTN: CHRIS LEIKER

Test Start: 2023.07.02 @ 20:50:26

## 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	33000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:	0.00	ft						
Tool Length:	301.00	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	63.00			90.75	
Change Over Sub	0.75			91.50	
Anchor	22.00			113.50	
Recorder	0.00		Inside	113.50	
Recorder	0.00		Outside	113.50	
Blank Off Sub	1.00			114.50	
Packer - Shale	5.00			119.50	
Change Over Sub	0.75			120.25	
Drill Pipe	155.00	9119	Inside	275.25	
Anchor	20.00			295.25	
Change Over Sub	0.75	9139	Outside	296.00	
Recorder	0.00			296.00	
Bullnose	5.00			301.00	301.00
					Anchor Tool

**Total Tool Length: 301.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SATCHELL CREEK PETROLEUM

GRAHAM COUNTY 21-7s-22w

3032 N CORTINA  
WICHITA, KS 67205

WORCESTER A9-21

Job Ticket: 01543

DST#: 1

ATTN: CHRIS LEIKER

Test Start: 2023.07.02 @ 20:50:26

### 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: 0.06 in<sup>3</sup>

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
30.00	Watery 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 A9-21**

Job Ticket: 01543

**DST#: 1**

ATTN: CHRIS LEIKER

Test Start: 2023.07.02 @ 20:50:26

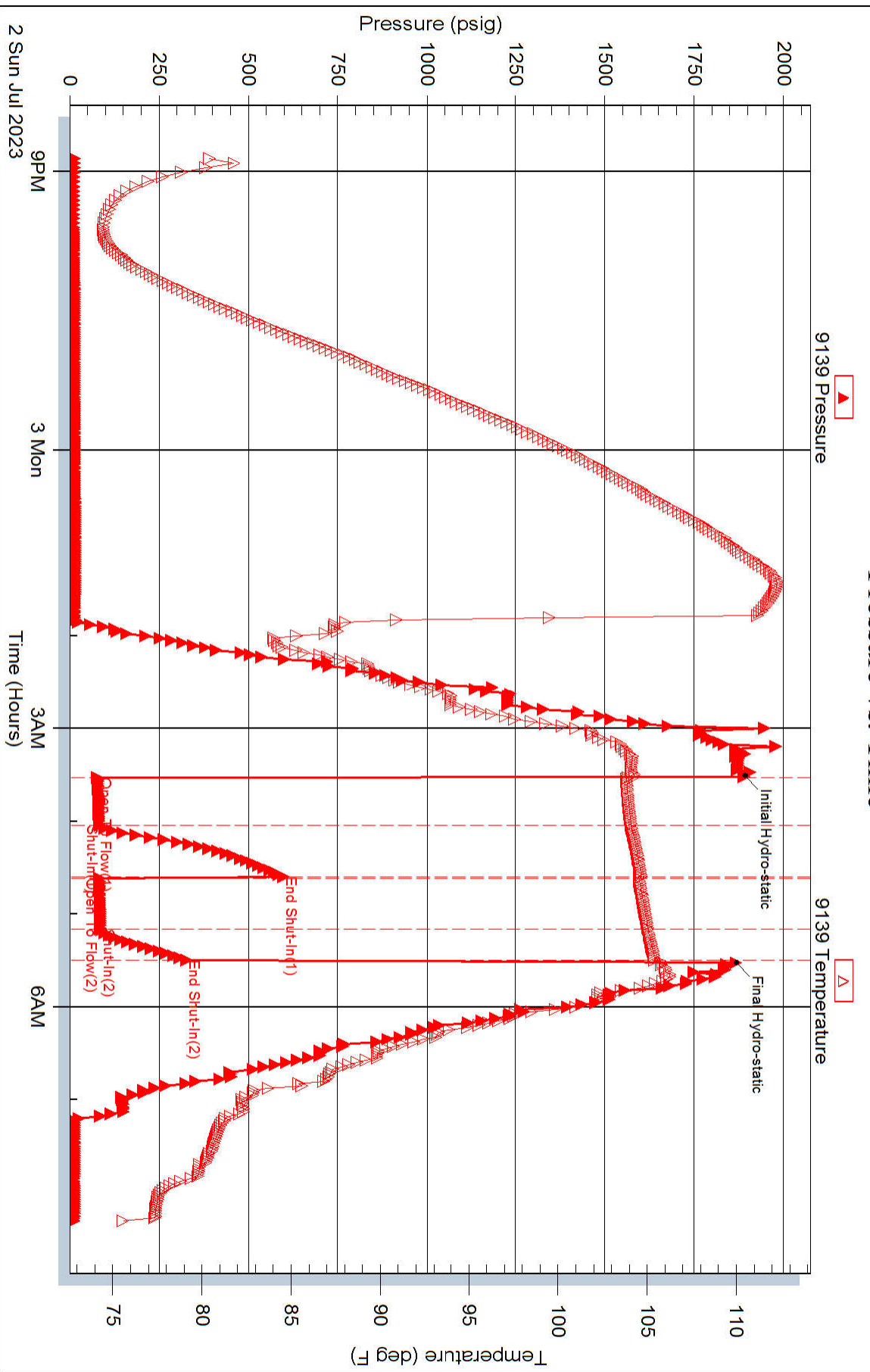
## Gas Rates Information

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

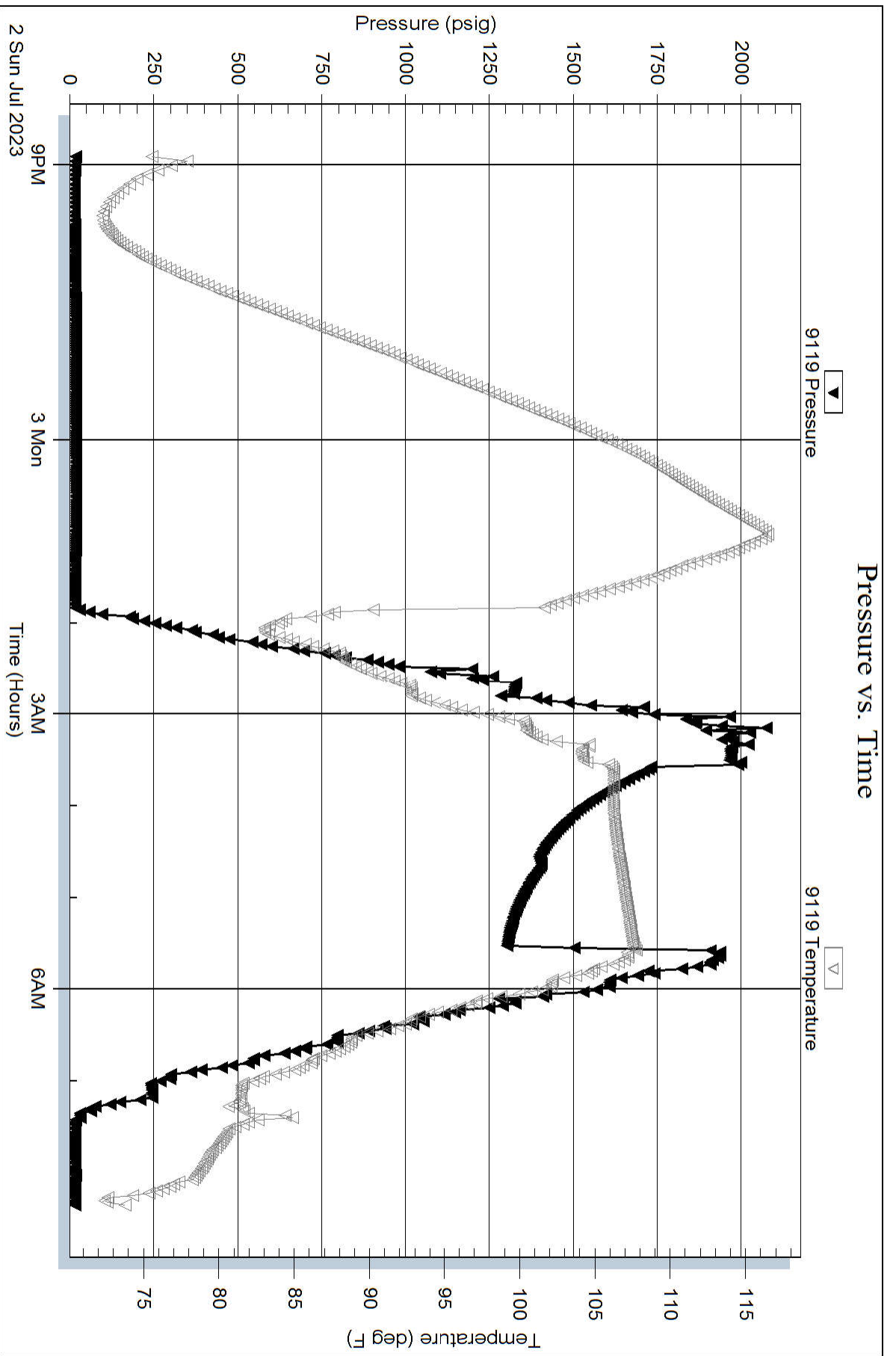
Gas Rates Table

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

### Pressure vs. Time









# DRILL STEM TESTING - DATA LISTING

SATCHELL CREEK PETROLEUM

GRAHAM COUNTY 21-7s-22w

3032 N CORTINA  
WICHITA, KS 67205

WORCESTER A9-21

Job Ticket: 01543

DST#: 1

ATTN: CHRIS LEIKER

Test Start: 2023.07.02 @ 20:50:26

Serial # 9139				Serial # 9139			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	1.0	13.59	80.4		89.0	12.74	79.5
	5.0	13.08	81.3		91.0	12.78	79.9
	9.0	13.01	79.2		93.0	12.82	80.3
	13.0	12.38	77.8		95.0	12.86	80.7
	17.0	12.29	76.7		97.0	12.90	81.1
	21.0	12.22	75.9		99.0	12.93	81.6
	25.0	12.18	75.4		101.0	12.98	82.0
	29.0	12.16	75.1		103.0	13.05	82.4
	33.0	12.11	74.8		105.0	13.10	82.7
	37.0	12.07	74.7		107.0	13.14	83.2
	41.0	12.06	74.6		109.0	13.17	83.7
	45.0	12.06	74.5		111.0	13.21	84.1
	47.0	12.06	74.5		113.0	13.23	84.5
	49.0	12.08	74.5		115.0	13.29	84.9
	51.0	12.10	74.5		117.0	13.34	85.4
	53.0	12.12	74.6		119.0	13.40	85.8
	55.0	12.14	74.7		121.0	13.44	86.3
	57.0	12.16	74.8		123.0	13.46	86.8
	59.0	12.17	75.0		125.0	13.50	87.2
	61.0	12.19	75.2		127.0	13.54	87.7
	63.0	12.18	75.4		129.0	13.56	88.1
	65.0	12.22	75.6		131.0	13.59	88.6
	67.0	12.26	75.8		133.0	13.64	89.0
	69.0	12.32	76.1		135.0	13.67	89.4
	71.0	12.38	76.3		137.0	13.71	89.8
	73.0	12.43	76.7		139.0	13.73	90.2
	75.0	12.48	77.0		141.0	13.77	90.6
	77.0	12.51	77.3		143.0	13.80	91.0
	79.0	12.54	77.6		145.0	13.83	91.5
	81.0	12.58	78.0		147.0	13.85	91.9
	83.0	12.64	78.4		149.0	13.88	92.4
	85.0	12.68	78.7		151.0	13.93	92.9
	87.0	12.73	79.1		153.0	13.98	93.3

Printing every 4 samples

Serial # 9139				Serial # 9139			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	155.0	14.04	93.7		237.0	15.36	108.1
	157.0	14.08	94.1		239.0	15.38	108.3
	159.0	14.13	94.5		241.0	15.38	108.5
	161.0	14.15	94.9		243.0	15.37	108.9
	163.0	14.19	95.4		245.0	15.37	109.2
	165.0	14.24	95.8		247.0	15.41	109.4
	167.0	14.28	96.2		249.0	15.42	109.6
	169.0	14.32	96.6		251.0	15.44	109.8
	171.0	14.36	97.0		253.0	15.45	110.0
	173.0	14.39	97.5		255.0	15.45	110.2
	175.0	14.43	97.8		257.0	15.46	110.5
	177.0	14.46	98.2		259.0	15.49	110.8
	179.0	14.49	98.6		261.0	15.50	111.1
	181.0	14.52	99.0		263.0	15.54	111.2
	183.0	14.55	99.4		265.0	15.51	111.5
	185.0	14.56	99.7		267.0	15.50	111.8
	187.0	14.61	100.1		269.0	15.44	111.9
	189.0	14.64	100.4		271.0	15.42	112.1
	191.0	14.68	100.8		273.0	15.39	112.2
	193.0	14.71	101.2		275.0	15.33	112.3
	195.0	14.75	101.5		277.0	15.29	112.3
	197.0	14.77	101.8		279.0	15.21	112.2
	199.0	14.81	102.1		281.0	15.15	112.2
	201.0	14.82	102.5		283.0	15.10	112.1
	203.0	14.85	102.8		285.0	15.06	112.0
	205.0	14.89	103.1		287.0	15.01	111.9
	207.0	14.95	103.4		289.0	14.99	111.7
	209.0	14.96	103.7		291.0	14.95	111.6
	211.0	14.95	104.0		293.0	14.97	111.4
	213.0	14.98	104.4		295.0	14.94	111.3
	215.0	14.99	104.7		297.0	13.82	105.4
	217.0	15.02	104.9		299.0	16.93	90.9
	219.0	15.05	105.2		301.0	26.69	87.7
	221.0	15.09	105.5		303.0	93.90	87.4
	223.0	15.12	105.8		305.0	126.00	87.4
	225.0	15.17	106.1		307.0	162.96	87.6
	227.0	15.19	106.5		309.0	189.68	85.5
	229.0	15.21	106.8		311.0	251.87	84.0
	231.0	15.23	107.1		313.0	281.26	84.1
	233.0	15.28	107.4		315.0	346.37	84.3
	235.0	15.33	107.7		317.0	378.57	84.5

Printing every 4 samples

Serial # 9139				Serial # 9139			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	319.0	440.84	85.5		399.5	1890.66	104.3
	321.0	468.36	85.9	Initial Hydro-static	400.0	1890.82	104.3
	323.0	536.80	87.0		400.5	1889.60	104.3
	325.0	585.90	87.9		401.0	1888.91	104.3
	327.0	709.77	88.9	Open To Flow (1)	401.5	77.65	103.9
	329.0	725.89	89.3		402.0	77.80	103.9
	331.0	789.61	89.4		402.5	78.17	103.8
	333.0	820.11	89.6		403.0	78.74	103.8
	335.0	883.64	90.1		405.0	79.07	103.9
	337.0	1077.23	90.5		407.0	79.36	103.9
	339.0	977.91	91.0		409.0	79.70	103.9
	341.0	1042.02	91.7		411.0	80.02	103.9
	343.0	1105.25	92.5		413.0	80.57	103.9
	345.0	1169.02	93.2		415.0	80.81	103.9
	347.0	1235.46	93.8		417.0	81.30	103.9
	349.0	1229.27	94.0		419.0	81.45	104.0
	351.0	1227.76	94.0		421.0	81.31	104.0
	353.0	1227.48	94.0		423.0	81.77	104.0
	355.0	1229.39	94.0		425.0	81.60	104.0
	357.0	1330.85	94.9		427.0	82.06	104.0
	359.0	1425.77	95.7		429.0	82.17	104.1
	361.0	1457.31	96.6		431.0	82.28	104.1
	363.0	1517.50	97.5		431.5	82.32	104.1
	365.0	1580.40	98.5		432.0	82.45	104.1
	367.0	1644.64	99.7	Shut-In(1)	432.5	85.68	104.1
	369.0	1707.72	100.8		433.0	89.31	104.1
	371.0	1770.86	101.9		433.5	93.56	104.1
	373.0	1765.60	101.9		434.0	98.89	104.1
	375.0	1786.33	102.2		436.0	127.85	104.2
	377.0	1800.19	102.5		438.0	171.89	104.2
	379.0	1867.27	103.3		440.0	224.61	104.3
	381.0	1849.66	103.5		442.0	276.76	104.3
	383.0	1864.59	103.8		444.0	322.58	104.3
	385.0	1878.40	103.8		446.0	362.18	104.4
	387.0	1877.81	104.2		448.0	397.09	104.4
	389.0	1874.26	104.1		450.0	428.58	104.4
	391.0	1872.05	104.1		452.0	456.95	104.5
	393.0	1873.43	104.1		454.0	482.39	104.5
	395.0	1871.37	104.1		456.0	505.63	104.5
	397.0	1869.09	104.1		458.0	527.24	104.6
	399.0	1893.21	104.2		460.0	546.75	104.6

Printing every 4 samples

Serial # 9139				Serial # 9139			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
End Shut-In(1)	462.0	567.79	104.6	Final Hydro-static	520.5	1802.88	105.8
	464.0	585.39	104.7		521.0	1867.09	105.9
	464.5	589.50	104.7		521.5	1803.53	105.8
	465.0	593.70	104.7		522.0	1657.34	105.8
	465.5	597.93	104.7		522.5	1840.21	105.8
	466.0	83.54	104.5		524.5	1842.19	106.0
Open To Flow (2)	466.5	83.39	104.5	526.5	1831.91	106.1	
	467.0	83.44	104.5	528.5	1813.79	106.3	
	469.0	83.81	104.6	530.5	1811.32	106.3	
	471.0	84.03	104.6	532.5	1710.17	106.0	
	473.0	84.19	104.6	534.5	1727.14	105.5	
	475.0	84.31	104.7	536.5	1642.15	105.0	
	477.0	84.44	104.7	538.5	1530.78	103.9	
	479.0	84.58	104.7	540.5	1515.02	102.4	
	481.0	84.41	104.8	542.5	1511.22	102.2	
	483.0	84.81	104.8	544.5	1511.43	102.2	
	485.0	84.93	104.8	546.5	1475.99	102.1	
	487.0	85.05	104.9	548.5	1435.15	101.1	
	489.0	85.17	104.9	550.5	1355.77	100.0	
	491.0	85.33	104.9	552.5	1273.73	98.5	
	493.0	85.38	105.0	554.5	1232.67	97.5	
Shut-In(2)	495.0	85.45	105.0	556.5	1179.50	97.5	
	497.0	85.52	105.0	558.5	1154.28	96.7	
	498.5	85.44	105.0	560.5	1065.58	96.0	
	499.0	85.38	105.0	562.5	1051.61	95.0	
	499.5	86.01	105.1	564.5	987.31	93.9	
	500.0	88.76	105.1	566.5	955.52	93.2	
	500.5	91.50	105.1	568.5	920.29	93.2	
	501.0	94.79	105.1	570.5	891.53	92.4	
	503.0	109.80	105.1	572.5	807.25	91.9	
	505.0	130.03	105.2	574.5	760.42	90.7	
	507.0	155.29	105.2	576.5	723.22	90.3	
	509.0	183.40	105.2	578.5	699.61	89.9	
	511.0	213.21	105.3	580.5	699.72	89.8	
	513.0	242.45	105.3	582.5	668.35	89.8	
	515.0	270.08	105.3	584.5	608.68	89.2	
End Shut-In(2)	517.0	296.29	105.4	586.5	570.02	88.5	
	518.5	314.26	105.4	588.5	543.54	87.8	
	519.0	320.36	105.4	590.5	481.39	87.3	
	519.5	326.45	105.4	592.5	450.72	87.2	
	520.0	1761.42	105.8	594.5	451.50	87.1	

Printing every 4 samples

Serial # 9139				Serial # 9139			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	596.5	387.80	86.9		678.5	12.65	77.4
	598.5	322.79	85.7		680.5	12.63	77.4
	600.5	267.09	85.6		682.5	12.62	77.4
	602.5	205.95	83.3		684.5	12.70	77.4
	604.5	207.87	82.9		686.5	12.71	77.3
	606.5	176.19	82.9		688.0	12.46	76.5
	608.5	146.19	82.3				
	610.5	147.96	82.2				
	612.5	149.01	82.3				
	614.5	149.68	82.3				
	616.5	150.27	82.3				
	618.5	115.61	82.1				
	620.5	51.53	81.5				
	622.5	13.22	81.5				
	624.5	13.05	81.1				
	626.5	13.10	81.0				
	628.5	13.07	80.9				
	630.5	13.06	80.9				
	632.5	13.06	80.8				
	634.5	13.05	80.8				
	636.5	13.04	80.7				
	638.5	13.02	80.7				
	640.5	12.98	80.6				
	642.5	12.95	80.6				
	644.5	12.90	80.4				
	646.5	12.92	80.3				
	648.5	12.93	80.3				
	650.5	12.94	80.2				
	652.5	12.94	79.9				
	654.5	12.85	79.8				
	656.5	12.74	79.8				
	658.5	12.63	79.8				
	660.5	12.52	79.4				
	662.5	12.55	78.7				
	664.5	12.59	78.3				
	666.5	12.63	78.0				
	668.5	12.65	77.8				
	670.5	12.67	77.6				
	672.5	12.68	77.5				
	674.5	12.68	77.5				
	676.5	12.67	77.5				

Printing every 4 samples



# DRILL STEM TESTING - DATA LISTING

SATCHELL CREEK PETROLEUM

GRAHAM COUNTY 21-7s-22w

3032 N CORTINA  
WICHITA, KS 67205

WORCESTER A9-21

Job Ticket: 01543

DST#: 1

ATTN: CHRIS LEIKER

Test Start: 2023.07.02 @ 20:50:26

Serial # 9119				Serial # 9119			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	1.0	18.46	75.6		89.0	17.77	80.1
	5.0	17.35	77.6		91.0	17.83	80.6
	9.0	15.90	76.2		93.0	17.90	81.2
	13.0	15.63	75.2		95.0	17.97	81.7
	17.0	15.51	74.4		97.0	18.02	82.2
	21.0	15.45	73.8		99.0	18.05	82.8
	25.0	15.43	73.3		101.0	18.13	83.3
	29.0	15.44	72.9		103.0	18.18	83.9
	33.0	15.52	72.6		105.0	18.24	84.4
	37.0	15.62	72.4		107.0	18.28	85.0
	41.0	15.73	72.3		109.0	18.30	85.6
	45.0	15.84	72.4		111.0	18.36	86.1
	47.0	15.92	72.5		113.0	18.41	86.7
	49.0	16.00	72.6		115.0	18.48	87.2
	51.0	16.11	72.8		117.0	18.52	87.8
	53.0	16.21	73.0		119.0	18.56	88.4
	55.0	16.32	73.1		121.0	18.60	89.0
	57.0	16.46	73.4		123.0	18.62	89.5
	59.0	16.60	73.7		125.0	18.64	90.1
	61.0	16.69	74.0		127.0	18.65	90.6
	63.0	16.77	74.3		129.0	18.67	91.1
	65.0	16.82	74.7		131.0	18.71	91.7
	67.0	16.90	75.0		133.0	18.75	92.2
	69.0	16.99	75.4		135.0	18.79	92.7
	71.0	17.07	75.8		137.0	18.84	93.2
	73.0	17.15	76.2		139.0	18.88	93.7
	75.0	17.24	76.7		141.0	18.91	94.2
	77.0	17.33	77.1		143.0	18.95	94.8
	79.0	17.40	77.5		145.0	18.98	95.3
	81.0	17.44	78.0		147.0	19.03	95.8
	83.0	17.50	78.5		149.0	19.06	96.3
	85.0	17.59	79.0		151.0	19.09	96.9
	87.0	17.68	79.6		153.0	19.11	97.4

Printing every 4 samples

Serial # 9119				Serial # 9119			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	155.0	19.14	97.9		237.0	19.68	114.7
	157.0	19.18	98.5		239.0	19.67	115.0
	159.0	19.21	98.9		241.0	19.66	115.4
	161.0	19.24	99.5		243.0	19.53	115.7
	163.0	19.26	100.0		245.0	19.62	116.1
	165.0	19.29	100.5		247.0	19.57	116.4
	167.0	19.32	101.0		249.0	19.20	116.4
	169.0	19.36	101.5		251.0	18.39	116.0
	171.0	19.38	102.0		253.0	18.27	115.5
	173.0	19.40	102.5		255.0	18.16	115.0
	175.0	19.42	103.0		257.0	18.04	114.5
	177.0	19.44	103.5		259.0	17.88	114.1
	179.0	19.44	104.0		261.0	17.74	113.5
	181.0	19.47	104.5		263.0	17.64	112.9
	183.0	19.48	105.0		265.0	17.61	112.2
	185.0	19.48	105.4		267.0	17.63	111.4
	187.0	19.48	105.9		269.0	17.64	110.8
	189.0	19.49	106.3		271.0	17.60	110.2
	191.0	19.48	106.8		273.0	17.49	109.7
	193.0	19.48	107.2		275.0	17.35	109.2
	195.0	19.48	107.6		277.0	17.24	108.6
	197.0	19.49	108.0		279.0	17.13	107.8
	199.0	19.51	108.3		281.0	17.05	107.1
	201.0	19.53	108.7		283.0	16.95	106.4
	203.0	19.52	109.1		285.0	16.88	105.5
	205.0	19.50	109.4		287.0	16.86	104.8
	207.0	19.48	109.8		289.0	16.88	104.0
	209.0	19.48	110.1		291.0	16.91	103.2
	211.0	19.49	110.4		293.0	16.97	102.5
	213.0	19.50	110.7		295.0	16.98	101.9
	215.0	19.51	111.0		297.0	18.61	94.4
	217.0	19.51	111.3		299.0	58.63	87.7
	219.0	19.54	111.6		301.0	111.25	87.1
	221.0	19.57	111.9		303.0	187.85	84.7
	223.0	19.58	112.3		305.0	220.60	84.2
	225.0	19.60	112.6		307.0	252.91	83.6
	227.0	19.63	113.0		309.0	306.66	83.1
	229.0	19.63	113.3		311.0	364.30	83.0
	231.0	19.64	113.7		313.0	410.45	83.2
	233.0	19.63	114.0		315.0	442.27	83.9
	235.0	19.63	114.3		317.0	474.51	84.5

Printing every 4 samples



Serial # 9119				Serial # 9119			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	319.0	538.72	85.3		401.0	1730.74	106.1
	321.0	601.32	86.1		403.0	1719.93	106.2
	323.0	664.88	86.9		405.0	1700.14	106.3
	325.0	728.05	87.8		407.0	1680.45	106.3
	327.0	790.21	88.1		409.0	1661.76	106.3
	329.0	821.15	88.2		411.0	1643.58	106.2
	331.0	884.43	88.3		413.0	1626.43	106.2
	333.0	962.51	88.6		415.0	1610.09	106.2
	335.0	979.04	89.1		417.0	1594.49	106.2
	337.0	1042.71	89.5		419.0	1579.73	106.2
	339.0	1073.57	90.0		421.0	1565.54	106.2
	341.0	1262.37	90.7		423.0	1552.25	106.2
	343.0	1200.75	91.3		425.0	1539.39	106.2
	345.0	1263.91	92.0		427.0	1527.15	106.2
	347.0	1326.94	92.7		429.0	1515.49	106.3
	349.0	1325.04	92.8		431.0	1504.09	106.3
	351.0	1323.40	92.8		433.0	1493.37	106.3
	353.0	1323.09	92.8		435.0	1483.44	106.3
	355.0	1358.80	93.0		437.0	1474.08	106.3
	357.0	1422.79	93.7		439.0	1465.19	106.3
	359.0	1486.22	94.4		441.0	1456.95	106.4
	361.0	1549.64	95.2		443.0	1448.65	106.4
	363.0	1612.54	95.8		445.0	1440.98	106.4
	365.0	1675.34	96.9		447.0	1433.62	106.4
	367.0	1715.20	98.1		449.0	1426.35	106.5
	369.0	2049.72	99.0		451.0	1419.55	106.5
	371.0	1865.90	100.3		453.0	1413.36	106.5
	373.0	1861.82	100.4		455.0	1407.84	106.5
	375.0	1880.88	100.4		457.0	1402.79	106.6
	377.0	1895.49	100.4		459.0	1399.09	106.6
	379.0	1930.23	100.7		461.0	1400.37	106.6
	381.0	2079.23	101.0		463.0	1403.80	106.7
	383.0	1942.54	101.5		465.0	1406.52	106.7
	385.0	1992.37	102.9		467.0	1398.86	106.7
	387.0	1983.35	105.2		469.0	1391.98	106.8
	389.0	1968.40	104.2		471.0	1385.44	106.8
	391.0	1967.91	104.1		473.0	1379.02	106.8
	393.0	1969.93	104.2		475.0	1372.98	106.9
	395.0	1967.61	104.2		477.0	1367.29	106.9
	397.0	1965.56	104.3		479.0	1362.11	106.9
	399.0	1990.87	105.6		481.0	1357.15	107.0

Printing every 4 samples

Serial # 9119				Serial # 9119			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	483.0	1352.29	107.0		565.0	1052.17	93.0
	485.0	1347.74	107.0		567.0	1051.92	92.7
	487.0	1343.33	107.1		569.0	1020.91	92.4
	489.0	1339.19	107.1		571.0	955.84	91.6
	491.0	1335.27	107.1		573.0	864.12	90.8
	493.0	1331.60	107.2		575.0	860.34	89.9
	495.0	1328.11	107.2		577.0	796.08	88.9
	497.0	1324.74	107.2		579.0	796.06	88.8
	499.0	1321.65	107.2		581.0	796.26	88.8
	501.0	1318.87	107.3		583.0	734.72	88.5
	503.0	1316.15	107.3		585.0	701.15	88.1
	505.0	1313.54	107.3		587.0	670.56	87.7
	507.0	1311.59	107.4		589.0	609.29	87.2
	509.0	1310.11	107.4		591.0	539.16	86.4
	511.0	1308.37	107.4		593.0	548.01	86.2
	513.0	1306.95	107.5		595.0	515.41	86.0
	515.0	1305.56	107.5		597.0	448.03	85.4
	517.0	1304.48	107.5		599.0	392.16	85.0
	519.0	1303.49	107.6		601.0	332.59	84.1
	521.0	1907.75	107.8		603.0	298.69	83.2
	523.0	1932.40	107.2		605.0	299.73	82.7
	525.0	1932.36	107.2		607.0	244.04	81.9
	527.0	1914.91	106.9		609.0	243.13	81.5
	529.0	1905.30	106.5		611.0	244.46	81.5
	531.0	1868.99	105.5		613.0	245.28	81.5
	533.0	1823.45	104.9		615.0	246.17	81.5
	535.0	1779.05	104.7		617.0	246.44	81.5
	537.0	1660.55	104.1		619.0	183.20	81.4
	539.0	1644.41	102.9		621.0	123.65	81.1
	541.0	1608.67	102.2		623.0	76.26	80.6
	543.0	1608.15	102.1		625.0	63.17	81.6
	545.0	1608.30	102.1		627.0	63.21	81.7
	547.0	1478.30	101.4		629.0	32.44	84.4
	549.0	1491.26	100.3		631.0	20.96	84.8
	551.0	1410.21	98.8		633.0	17.80	82.1
	553.0	1330.17	97.4		635.0	17.89	81.6
	555.0	1327.98	97.1		637.0	17.30	80.9
	557.0	1290.71	96.6		639.0	17.70	80.6
	559.0	1213.48	95.9		641.0	17.75	80.4
	561.0	1129.38	94.9		643.0	17.70	80.3
	563.0	1116.22	93.9		645.0	17.63	80.1

Printing every 4 samples

**Serial # 9119**

Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	647.0	17.59	80.0
	649.0	17.59	79.9
	651.0	17.58	79.6
	653.0	17.58	79.5
	655.0	17.53	79.4
	657.0	17.47	79.3
	659.0	17.45	79.1
	661.0	17.42	79.0
	663.0	17.44	78.9
	665.0	17.43	78.7
	667.0	17.41	78.6
	669.0	17.74	78.4
	671.0	17.64	78.3
	673.0	16.34	77.1
	675.0	16.70	76.9
	677.0	16.84	76.3
	679.0	16.15	75.7
	681.0	16.05	75.2
	683.0	14.91	72.7
	685.0	15.57	72.4
	687.0	16.41	72.8
	688.0	17.38	74.4

Printing every 4 samples



## DRILL STEM TEST REPORT

Prepared For: **SATCHELL CREEK PETROLEUM**

3032 N CORTINA  
WICHITA, KS 67205

ATTN: CHRIS LEIKER

### **WORCESTER A9-21**

### **GRAHAM COUNTY 21-7s-22w**

Start Date: 2023.07.04 @ 03:20:08

End Date: 2023.07.04 @ 12:07:38

Job Ticket #: 01543                      DST #: 2

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

Printed: 2023.07.04 @ 17:14:29



# DRILL STEM TEST REPORT

SATCHELL CREEK PETROLEUM

GRAHAM COUNTY 21-7s-22w

3032 N CORTINA  
WICHITA, KS 67205

WORCESTER A9-21

ATTN: CHRIS LEIKER

Job Ticket: 01543

DST#: 2

Test Start: 2023.07.04 @ 03:20:08

## GENERAL INFORMATION:

Formation: **Lansing D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:17:38

Time Test Ended: 12:07:38

Test Type: Conventional Straddle (Initial)

Tester: Chad

Unit No: 1

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

Reference Elevations: 2304.00 ft (KB)

Total Depth: 3914.00 ft (KB) (TVD)

2296.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition:

KB to GR/CF: 8.00 ft

## Serial #: 9139

Press@RunDepth: psig @ ft (KB)

Capacity: psig

Start Date: 2023.07.04 End Date: 2023.07.04

Last Calib.: 1899.12.30

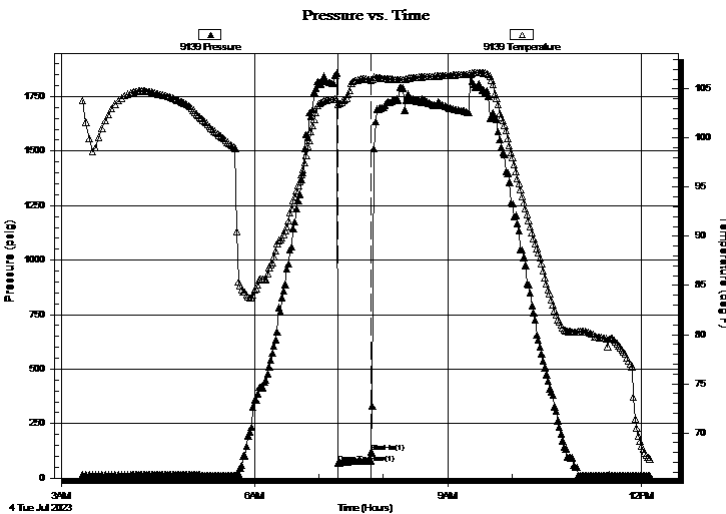
Start Time: 03:20:08 End Time: 12:07:38

Time On Btm:

Time Off Btm:

TEST COMMENT: Initial Opening: Blow quickly built to 3" and died off by 30 mins  
Shut-In: No blow back  
Second Opening: Misrun  
Shut-In: Misrun

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	70.17	103.46	Open To Flow (1)
31	120.08	105.91	Shut-In(1)

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	Watery 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 A9-21**

Job Ticket: 01543

**DST#: 2**

ATTN: CHRIS LEIKER

Test Start: 2023.07.04 @ 03:20:08

## 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:	18000.00 lb
Drill Collar:	Length:	ft	Diameter:	inches	Volume:	- bbl	Weight to Pull Loose:	43000.00 lb
					<u>Total Volume:</u>	- bbl	Tool Chased	ft
Drill Pipe Above KB:		ft					String Weight: Initial	lb
Depth to Top Packer:		ft					Final	lb
Depth to Bottom Packer:		ft						
Interval between Packers:	0.00	ft						
Tool Length:	368.50	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	0.00			27.75	
Change Over Sub	0.75			28.50	
Anchor	56.00			84.50	
Recorder	0.00		Inside	84.50	
Recorder	0.00		Outside	84.50	
Blank Off Sub	1.00			85.50	
Packer - Shale	5.00			90.50	
Change Over Sub	0.75			91.25	
Drill Pipe	250.50	9119	Inside	341.75	
Change Over Sub	0.75	9139	Outside	342.50	
Anchor	21.00			363.50	
Recorder	0.00			363.50	
Bullnose	5.00			368.50	368.50
					Anchor Tool

**Total Tool Length: 368.50**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SATCHELL CREEK PETROLEUM

GRAHAM COUNTY 21-7s-22w

3032 N CORTINA  
WICHITA, KS 67205

WORCESTER A9-21

Job Ticket: 01543

DST#: 2

ATTN: CHRIS LEIKER

Test Start: 2023.07.04 @ 03:20:08

### 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: 0.06 in<sup>3</sup>

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
150.00	Watery 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 A9-21**

ATTN: CHRIS LEIKER

Job Ticket: 01543

**DST#: 2**

Test Start: 2023.07.04 @ 03:20:08

## 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

