



## DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company LLC**

8100 East 22nd Street North  
Building 1900  
Wichita, Kansas 667226

ATTN: Adam Kennedy

**Kuhn #1-17**

**17-19s-12w Barton**

Start Date: 2019.11.04 @ 19:09:00

End Date: 2019.11.04 @ 00:13:00

Job Ticket #: 01387                      DST #: 3

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

Printed: 2019.11.05 @ 00:32:34



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**DST#: 3**

Test Start: 2019.11.04 @ 19:09:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:49:00

Time Test Ended: 00:13:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

**Interval: 3410.00 ft (KB) To 3494.00 ft (KB) (TVD)**

Reference Elevations: 1882.00 ft (KB)

Total Depth: 3494.00 ft (KB) (TVD)

1874.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 9139 Outside**

Press@RunDepth: 1180.13 psig @ 3489.06 ft (KB)

Capacity: 5000.00 psig

Start Date: 2019.11.04

End Date: 2019.11.05

Last Calib.: 2019.11.05

Start Time: 19:09:14

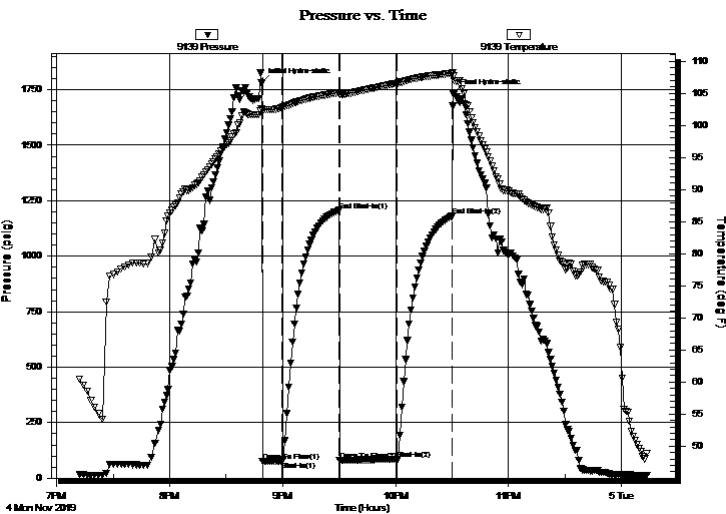
End Time: 00:13:14

Time On Btm: 2019.11.04 @ 20:48:44

Time Off Btm: 2019.11.04 @ 22:30:44

**TEST COMMENT:** 1st Opening 10 minutes weak blow for 8 minutes and died  
 1st Shuyt-in 30 Minurw a  
 2nd Opening 30 Minutes no blow  
 2nd Shut-In 30 Minutes

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.74	102.61	Initial Hydro-static
1	75.79	102.41	Open To Flow (1)
11	78.12	102.77	Shut-In(1)
41	1206.41	105.09	End Shut-In(1)
42	80.07	104.85	Open To Flow (2)
72	84.96	106.56	Shut-In(2)
101	1180.13	108.09	End Shut-In(2)
102	1731.08	107.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud	0.42

## Gas Rates

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



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Total Depth: 3494.00 ft (KB) (TVD)

1874.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 9119 Inside**

Press@RunDepth: 1170.58 psig @ 3489.06 ft (KB)

Capacity: 5000.00 psig

Start Date: 2019.11.04

End Date: 2019.11.05

Last Calib.: 2019.11.05

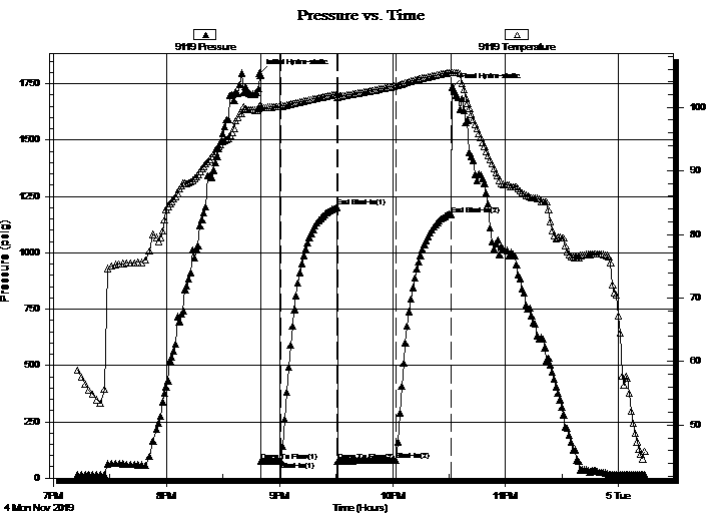
Start Time: 19:09:52

End Time: 00:14:22

Time On Btm: 2019.11.04 @ 20:49:22

Time Off Btm: 2019.11.04 @ 22:31:52

**TEST COMMENT:** 1st Opening 10 minutes weak blow for 8 minutes and died  
 1st Shuyt-in 30 Minurw a  
 2nd Opening 30 Minutes no blow  
 2nd Shut-In 30 Minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.86	100.17	Initial Hydro-static
1	73.56	99.96	Open To Flow (1)
12	75.72	100.14	Shut-In(1)
41	1201.81	102.03	End Shut-In(1)
42	76.12	101.49	Open To Flow (2)
73	80.66	103.36	Shut-In(2)
102	1170.58	105.46	End Shut-In(2)
103	1734.65	105.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud	0.42

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Edison Operating Company LLC

**17-19s-12w Barton**

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**Kuhn #1-17**

Job Ticket: 01387

**DST#: 3**

Test Start: 2019.11.04 @ 19:09:00

## Tool Information

Drill Pipe:	Length: 3387.00 ft	Diameter: 3.80 inches	Volume: 47.51 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 49000.00 lb
			<u>Total Volume: 47.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3410.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.06 ft			
Tool Length:	114.06 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			3385.00	
Hydraulic tool	5.00			3390.00	
Jars	5.00			3395.00	
Safety Joint	5.00			3400.00	
Packer	5.00			3405.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3410.00	
Anchor	5.00			3415.00	
Change Over Sub	0.75			3415.75	
Drill Pipe	63.56			3479.31	
Change Over Sub	0.75		Inside	3480.06	
Anchor	9.00			3489.06	
Recorder	0.00	9119	Inside	3489.06	
Recorder	0.00	9139	Outside	3489.06	
Bullnose	5.00			3494.06	84.06 Bottom Packers & Anchor

**Total Tool Length: 114.06**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 45.00 sec/qt  
 Water Loss: 12.40 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 10000.00 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
30.00	Drilling Mud	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

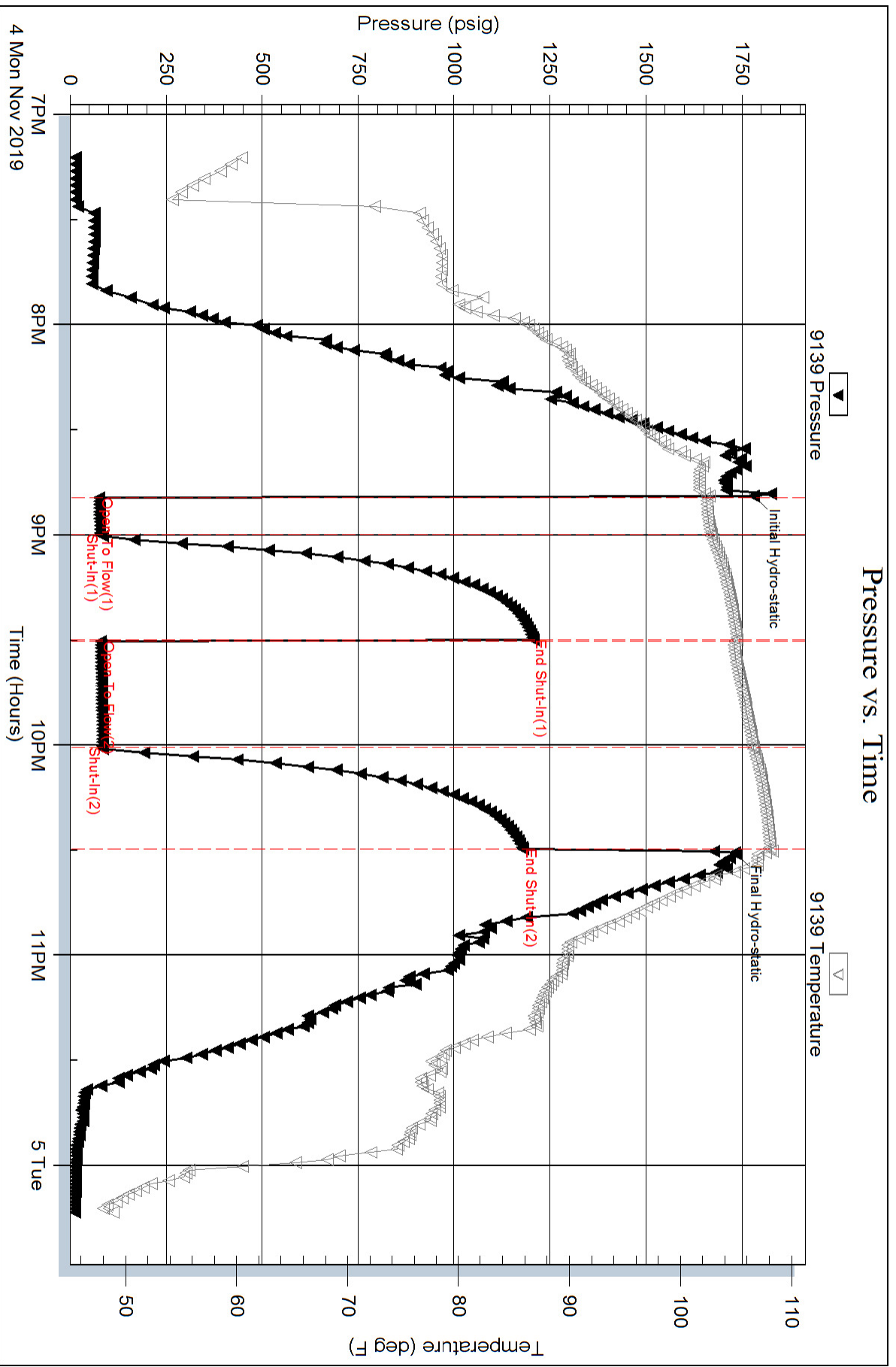
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# Pressure vs. Time

