



DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company LLC**

8100 E 22nd str n Bldg 1900
Wichita, Kansas 67226

ATTN: Derek Patterson

Wild Turkey #1-7

7-24s-12w Stafford

Start Date: 2018.08.13 @ 19:46:00

End Date: 2018.08.13 @ 02:07:00

Job Ticket #: 01092 DST #: 1

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

Printed: 2018.08.13 @ 02:28:49



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ATTN: Derek Patterson

Test Start: 2018.08.13 @ 19:46:00

GENERAL INFORMATION:

Formation: **Lansing "B & D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:00:00

Time Test Ended: 02:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3518.00 ft (KB) To 3563.00 ft (KB) (TVD)**

Reference Elevations: 1897.00 ft (KB)

Total Depth: 3563.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 9119

Inside

Press@RunDepth: 252.82 psig @ 3558.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.08.12

End Date: 2018.08.13

Last Calib.: 2018.08.13

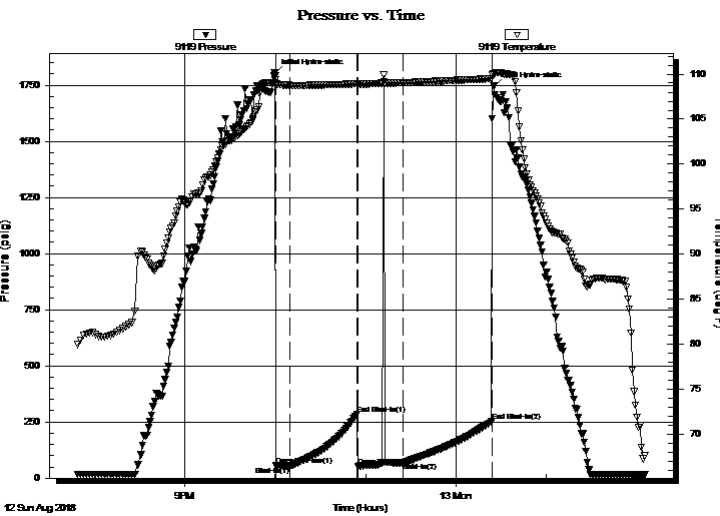
Start Time: 19:46:00

End Time: 02:05:00

Time On Btm: 2018.08.12 @ 21:59:30

Time Off Btm: 2018.08.13 @ 00:25:00

TEST COMMENT: 1st Opening 10 Minutes weak surface blow
1st Shut-In 45 Minutes no blow back
2nd Opening 30 Minutes 3 inch surging blow flushed tool 4 times
2nd Shut-In 60 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1803.44	109.09	Initial Hydro-static
1	55.85	108.91	Open To Flow (1)
11	54.15	108.76	Shut-In(1)
55	284.58	108.93	End Shut-In(1)
56	50.82	108.89	Open To Flow (2)
86	68.57	109.05	Shut-In(2)
144	252.82	109.50	End Shut-In(2)
146	1745.47	110.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gas in the pipe	0.84
30.00	drilling mud	0.42

Gas Rates

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



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Total Depth: 3563.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: **9139** Outside

Press@RunDepth: 259.17 psig @ 3558.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.08.12

End Date: 2018.08.13

Last Calib.: 2018.08.13

Start Time: 19:46:00

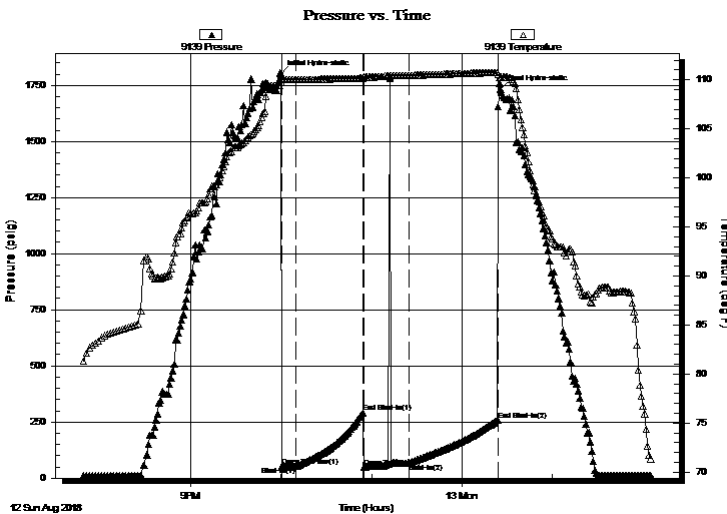
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PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1799.97	109.74	Initial Hydro-static
1	53.24	110.13	Open To Flow (1)
10	52.27	110.00	Shut-In(1)
54	291.56	110.17	End Shut-In(1)
55	48.76	110.28	Open To Flow (2)
85	67.76	110.45	Shut-In(2)
144	259.17	110.76	End Shut-In(2)
146	1731.06	110.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gas in the pipe	0.84
30.00	drilling mud	0.42

Gas Rates

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



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TOOL DIAGRAM

Edison Operating Company LLC

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DST#: 1

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Tool Information

Drill Pipe:	Length: 3513.00 ft	Diameter: 3.80 inches	Volume: 49.28 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: 62000.00 lb
			<u>Total Volume: 49.28 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3518.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3493.00	
Hydraulic tool	5.00			3498.00	
Jars	5.00			3503.00	
Safety Joint	5.00			3508.00	
Packer	5.00			3513.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3518.00	
Anchor	40.00			3558.00	
Recorder	0.00	9119	Inside	3558.00	
Recorder	0.00	9139	Outside	3558.00	
Bullnose	5.00			3563.00	45.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 8.40 in³
Resistivity: ohm.m
Salinity: 5200.00 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
60.00	gas in the pipe	0.842
30.00	drilling mud	0.421

Total Length: 90.00 ft Total Volume: 1.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

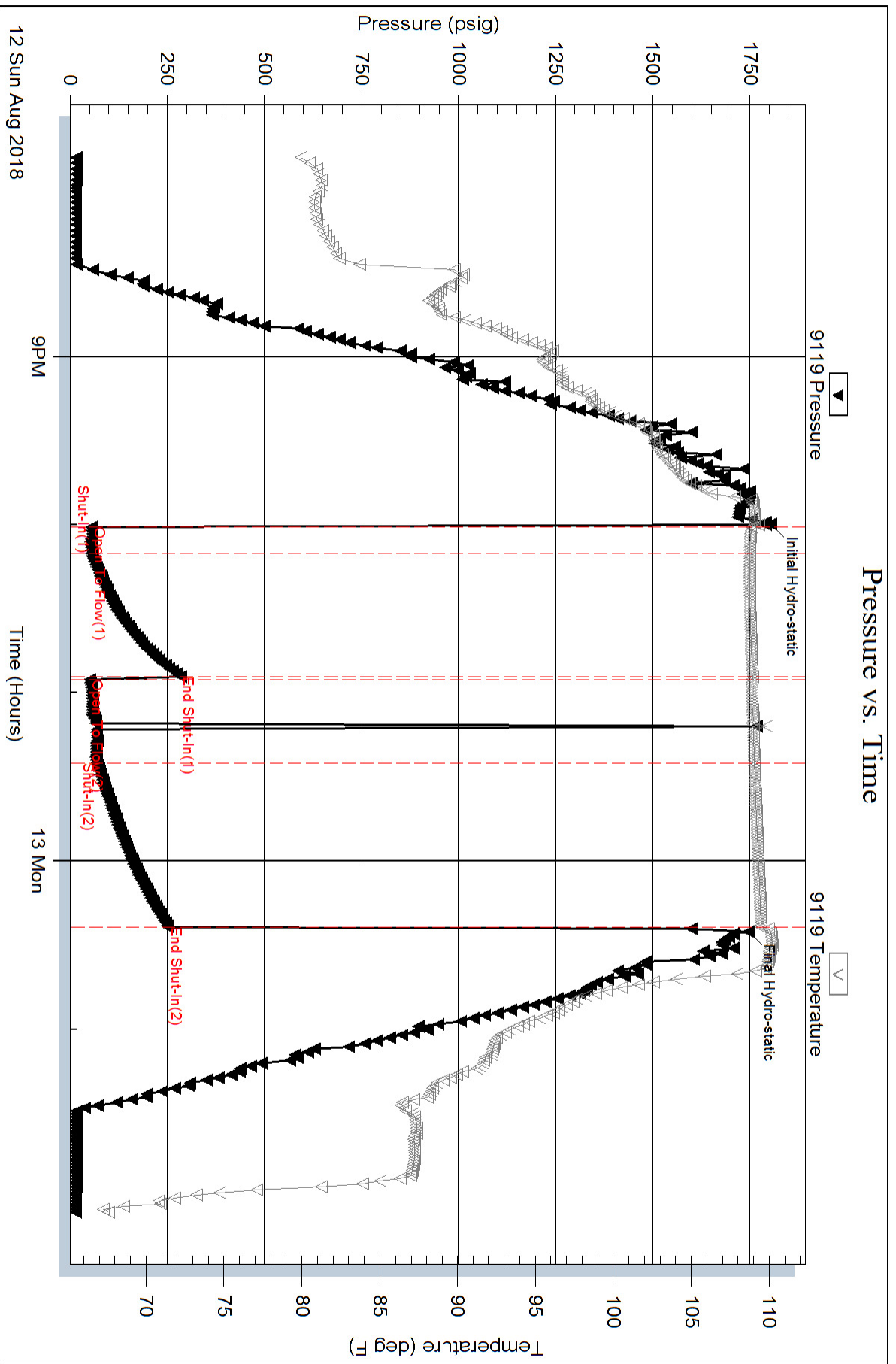
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

