



DRILL STEM TEST REPORT

Prepared For: **F G Holl Company LLC**

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Renee Husted

Leroy Farm #2-30

30-19s-14w Barton

Start Date: 2019.11.12 @ 20:20:00

End Date: 2019.11.12 @ 03:55:00

Job Ticket #: 01392 DST #: 5

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

Printed: 2019.11.12 @ 04:18:41



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DST#: 5

Test Start: 2019.11.12 @ 20:20:00

GENERAL INFORMATION:

Formation: **Arbuckle Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:18:00

Time Test Ended: 03:55:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3438.00 ft (KB) To 3541.00 ft (KB) (TVD)

Total Depth: 3541.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1915.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 9139 Outside

Press@RunDepth: 1214.63 psig @ 3536.06 ft (KB)

Capacity: 5000.00 psig

Start Date: 2019.11.11

End Date: 2019.11.12

Last Calib.: 2019.11.12

Start Time: 20:20:00

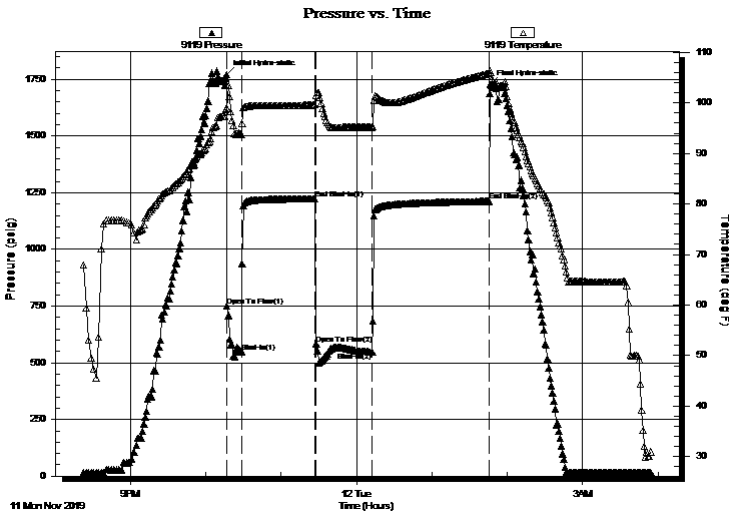
End Time: 03:54:30

Time On Btm: 2019.11.11 @ 22:16:30

Time Off Btm: 2019.11.12 @ 01:46:30

TEST COMMENT: 1st Opening 10 Minutes strong blow Gas to surface in 2 minutes
1st Shut-In 60 Minutes good blow back
2nd Opening 45 Minutes strong blow see gas flow report
2nd Shut-In 90 Minutes good blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate			
Last Gas Rate			
Max. Gas Rate			



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TOOL DIAGRAM

F G Holl Company LLC

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Tool Information

Drill Pipe:	Length: 3439.00 ft	Diameter: 3.80 inches	Volume: 48.24 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: 48.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3438.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.06 ft			
Tool Length:	133.06 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			3413.00	-999999.00
Hydraulic tool	5.00			3418.00	-999999.00
Jars	5.00			3423.00	-999999.00
Safety Joint	5.00			3428.00	-999999.00
Packer	5.00			3433.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3438.00	-999999.00
Anchor	5.00			3443.00	-999999.00
Change Over Sub	0.75			3443.75	-999999.00
Drill Pipe	63.56			3507.31	-999999.00
Change Over Sub	0.75		Inside	3508.06	-999999.00
Anchor	28.00			3536.06	-999999.00
Recorder	0.00	9119	Inside	3536.06	-999999.00
Recorder	0.00	9139	Outside	3536.06	-999999.00
Bullnose	5.00			3541.06	103.06 Bottom Packers & Anchor

Total Tool Length: 133.06



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FLUID SUMMARY

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DST#: 5

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Test Start: 2019.11.12 @ 20:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 7.60 in³
Resistivity: ohm.m
Salinity: 6700.00 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
135.00	Drilling Mud	1.894

Total Length: 135.00 ft Total Volume: 1.894 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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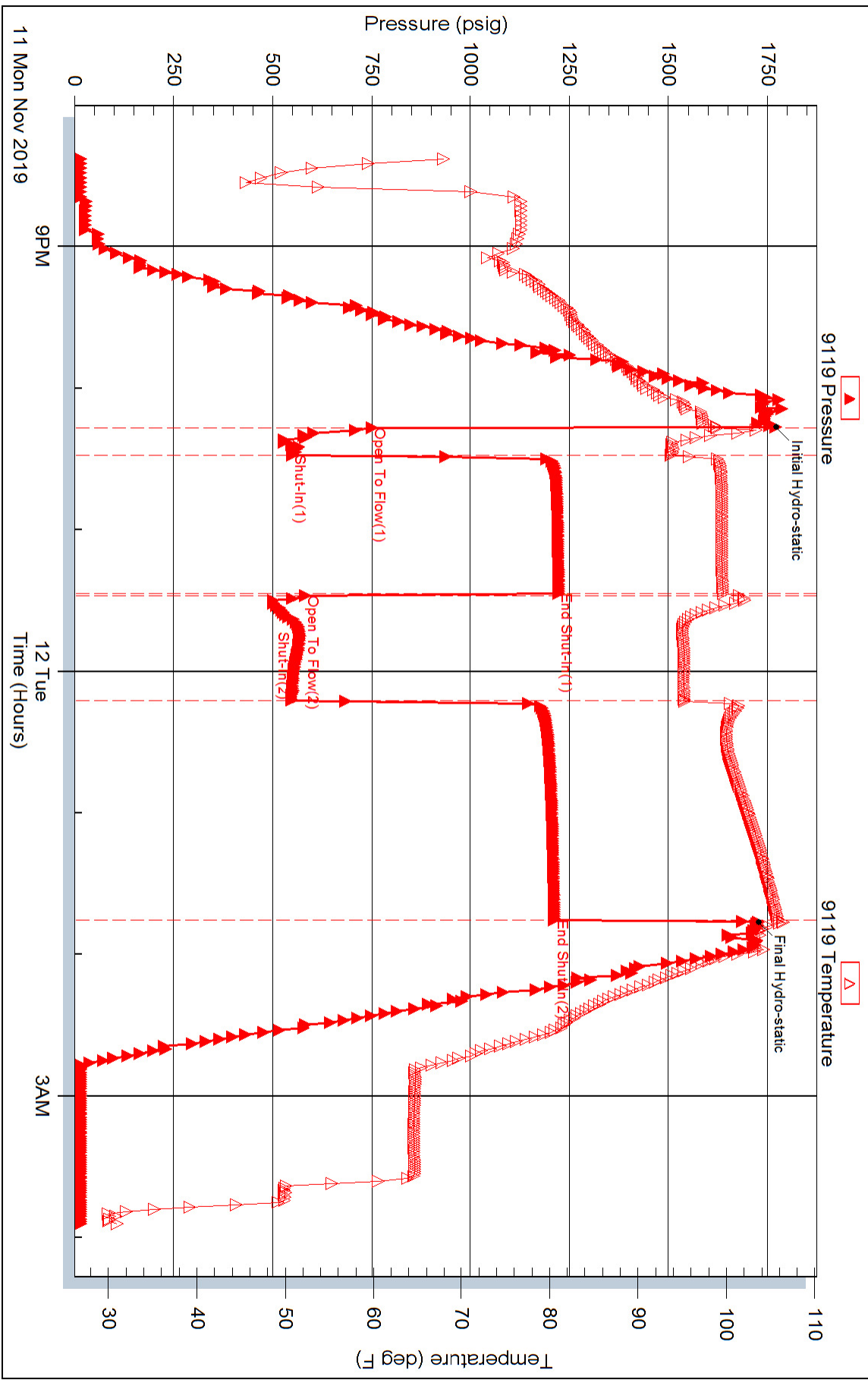
Gas Rates Information

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)
2	5	1.00	22.61	1064.14
2	15	1.50	17.50	1950.32
2	25	1.50	17.50	1950.32
2	35	1.50	17.50	1950.32
2	45	1.50	17.50	1950.32

Pressure vs. Time



Pressure vs. Time

