



DRILL STEM TEST REPORT

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

9431 East Central suite 100
Wichita, Kansas 67206-2563

ATTN: Renee Hustain

Calcara #4-19

19-19s-14w Barton

Start Date: 2019.07.11 @ 04:57:00

End Date: 2019.07.11 @ 09:40:00

Job Ticket #: 01364 DST #: 1

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

Printed: 2019.07.11 @ 09:56:28



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Calcara #4-19

Job Ticket: 01364

DST#: 1

ATTN: Renee Hustean

Test Start: 2019.07.11 @ 04:57:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:48:00

Time Test Ended: 09:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3340.00 ft (KB) To 3365.00 ft (KB) (TVD)

Reference Elevations: 1911.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1903.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9139 Outside

Press@RunDepth: 41.41 psig @ 3360.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2019.07.11

End Date:

2019.07.11

Last Calib.:

2019.07.11

Start Time: 04:57:00

End Time:

09:37:59

Time On Btm:

2019.07.11 @ 06:48:30

Time Off Btm:

2019.07.11 @ 08:18:00

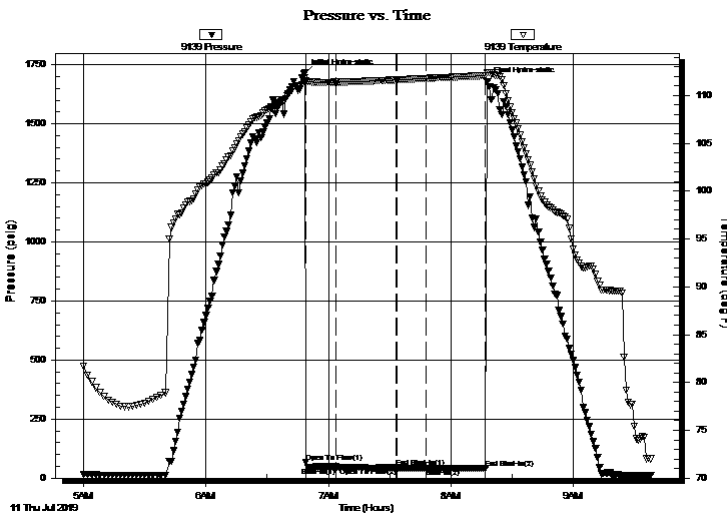
TEST COMMENT: 1st Opening 15 minutes weak surface blow for 15 minutes and died

1st Shut-in 30 Minutes

2nd opening 15 Minutes no blow

2nd Shut-In 30 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.08	111.83	Initial Hydro-static
1	67.44	111.50	Open To Flow (1)
15	47.49	111.39	Shut-In(1)
45	43.70	111.62	End Shut-In(1)
45	43.71	111.63	Open To Flow (2)
60	41.69	111.78	Shut-In(2)
89	41.41	112.07	End Shut-In(2)
90	1679.48	112.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Drilling mud	0.01

Gas Rates

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



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Tester: Gene Budig

Unit No: 1

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Reference Elevations: 1911.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1903.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9119

Inside

Press@RunDepth: 45.95 psig @ 3360.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2019.07.11

End Date:

2019.07.11

Last Calib.:

2019.07.11

Start Time: 04:57:00

End Time:

09:37:59

Time On Btm:

2019.07.11 @ 06:48:30

Time Off Btm:

2019.07.11 @ 08:18:00

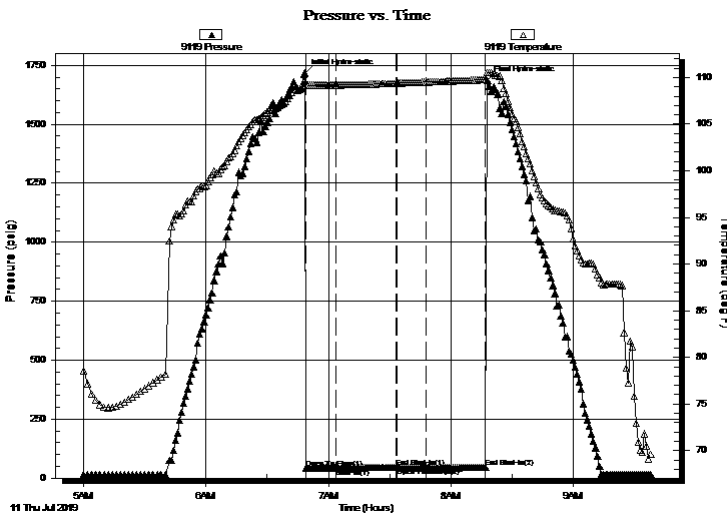
TEST COMMENT: 1st Opening 15 minutes weak surface blow for 15 minutes and died

1st Shut-in 30 Minutes

2nd opening 15 Minutes no blow

2nd Shut-In 30 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.86	109.68	Initial Hydro-static
1	41.43	109.19	Open To Flow (1)
15	43.02	109.19	Shut-In(1)
45	47.30	109.39	End Shut-In(1)
45	47.34	109.39	Open To Flow (2)
60	44.47	109.52	Shut-In(2)
89	45.95	109.77	End Shut-In(2)
90	1685.65	110.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Drilling mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company LLC

19-19s-14w Barton

9431 East Central suite 100
Wichita, Kansas 67206-2563

Calcara #4-19

Job Ticket: 01364

DST#: 1

ATTN: Renee Hustean

Test Start: 2019.07.11 @ 04:57:00

Tool Information

Drill Pipe:	Length: 3315.00 ft	Diameter: 3.80 inches	Volume: 46.50 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: 9.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 46.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3340.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3315.00	
Hydraulic tool	5.00			3320.00	
Jars	5.00			3325.00	
Safety Joint	5.00			3330.00	
Packer	5.00			3335.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3340.00	
Anchor	20.00			3360.00	
Recorder	0.00	9119	Inside	3360.00	
Recorder	0.00	9139	Outside	3360.00	
Bullnose	5.00			3365.00	25.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



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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: 67.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5300.00 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
1.00	Drilling mud	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

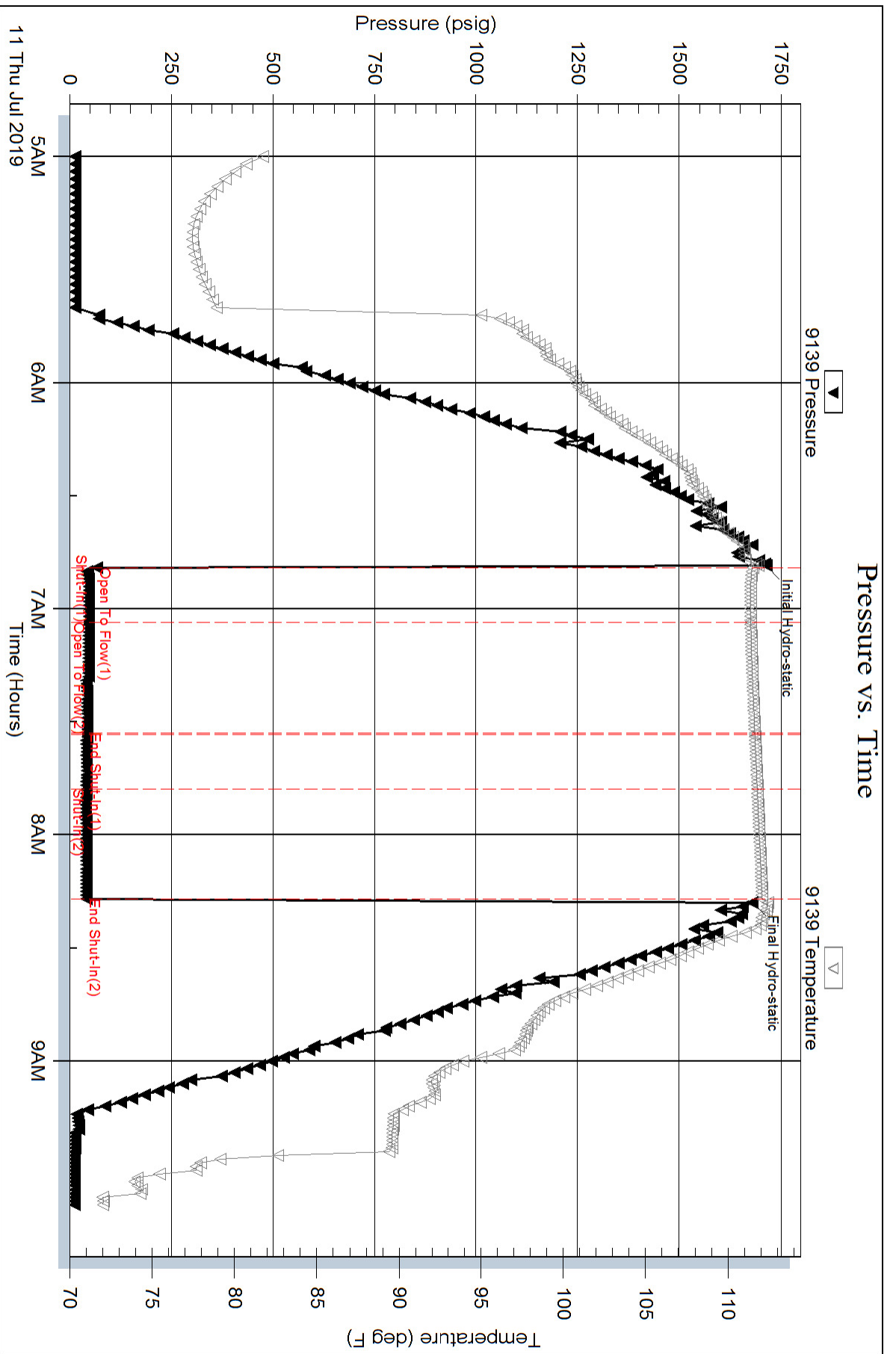
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time

