



## 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 @ 17:10:00

End Date: 2019.07.11 @ 23:56:00

Job Ticket #: 01365                      DST #: 2

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

Printed: 2019.07.12 @ 00:17:28



# DRILL STEM TEST REPORT

F G Holl Company LLC

**19-19s-14w Barton**

9431 East Central suite 100  
Wichita, Kansas 67206-2563

**Calcara #4-19**

Job Ticket: 01365

**DST#: 2**

ATTN: Renee Hustean

Test Start: 2019.07.11 @ 17:10:00

## GENERAL INFORMATION:

Formation: **Kansas City "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:28:00

Time Test Ended: 23:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

**Interval: 3365.00 ft (KB) To 3380.00 ft (KB) (TVD)**

Reference Elevations: 1911.00 ft (KB)

Total Depth: 3380.00 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: 539.85 psig @ 3375.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2019.07.11

End Date:

2019.07.11

Last Calib.:

2019.07.12

Start Time: 17:10:00

End Time:

23:54:00

Time On Btm:

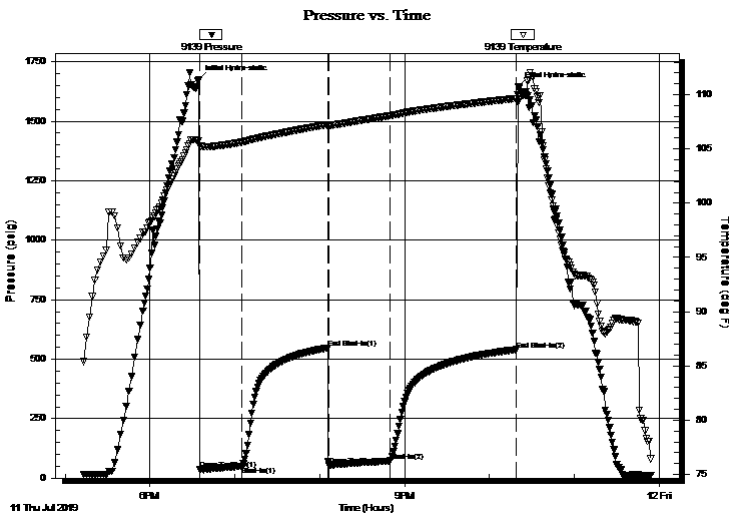
2019.07.11 @ 18:34:30

Time Off Btm:

2019.07.11 @ 22:20:30

**TEST COMMENT:** 1st Opening 30 Minutes weak building blow built to 9 inches into the water  
1st Shut-In 60 Minutes no blow back  
2nd Opening 45 Minutes weak building blow built to 5 inches into the water  
2nd Shut-In 90 Minutes no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.68	105.74	Initial Hydro-static
1	35.68	105.31	Open To Flow (1)
31	49.97	105.63	Shut-In(1)
91	547.24	107.26	End Shut-In(1)
92	52.40	107.15	Open To Flow (2)
135	71.59	108.05	Shut-In(2)
225	539.85	109.65	End Shut-In(2)
226	1645.31	109.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	100 FEET OF GAS IN THE PIPE	0.00
1.00	Clean Oil	0.01
20.00	Mud with a trace of oil	0.28
60.00	Muddy water with a trace of oil	0.84
0.00	1% Oil 38% Mud 61% water	0.00
0.00	Chlorides 72000	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

F G Holl Company LLC

19-19s-14w Barton

9431 East Central suite 100  
Wichita, Kansas 67206-2563

Calcara #4-19

Job Ticket: 01365

DST#: 2

ATTN: Renee Hustean

Test Start: 2019.07.11 @ 17:10:00

## GENERAL INFORMATION:

Formation: **Kansas City "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:28:00

Time Test Ended: 23:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3365.00 ft (KB) To 3380.00 ft (KB) (TVD)**

Reference Elevations: 1911.00 ft (KB)

Total Depth: 3380.00 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: 542.95 psig @ 3375.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2019.07.11

End Date:

2019.07.11

Last Calib.:

2019.07.12

Start Time: 17:10:00

End Time:

23:55:00

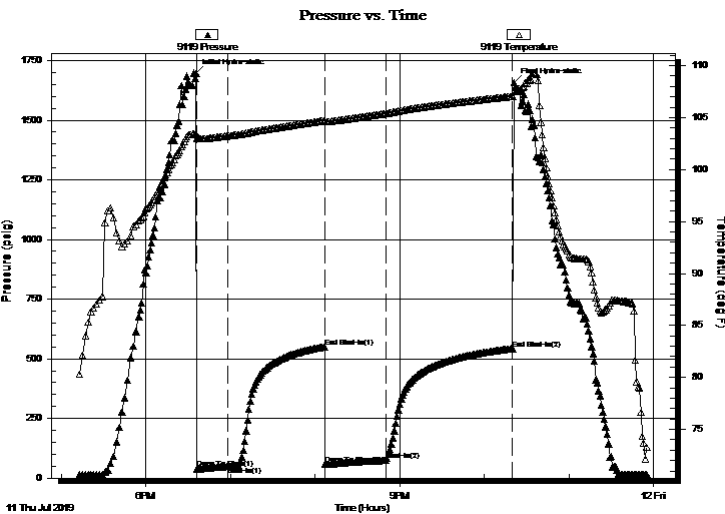
Time On Btm:

2019.07.11 @ 18:35:30

Time Off Btm:

2019.07.11 @ 22:21:00

TEST COMMENT: 1st Opening 30 Minutes weak building blow built to 9 inches into the water  
1st Shut-In 60 Minutes no blow back  
2nd Opening 45 Minutes weak building blow built to 5 inches into the water  
2nd Shut-In 90 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.14	103.47	Initial Hydro-static
1	39.66	102.99	Open To Flow (1)
23	49.59	103.23	Shut-In(1)
91	550.35	104.71	End Shut-In(1)
92	56.67	104.60	Open To Flow (2)
135	74.64	105.39	Shut-In(2)
225	542.95	107.05	End Shut-In(2)
226	1657.11	107.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	100 FEET OF GAS IN THE PIPE	0.00
1.00	Clean Oil	0.01
20.00	Mud with a trace of oil	0.28
60.00	Muddy water with a trace of oil	0.84
0.00	1% Oil 38% Mud 61% water	0.00
0.00	Chlorides 72000	0.00

## 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: 01365

**DST#: 2**

ATTN: Renee Hustean

Test Start: 2019.07.11 @ 17:10:00

## Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 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: 46.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3365.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	45.00 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			3340.00	
Hydraulic tool	5.00			3345.00	
Jars	5.00			3350.00	
Safety Joint	5.00			3355.00	
Packer	5.00			3360.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3365.00	
Anchor	10.00			3375.00	
Recorder	0.00	9119	Inside	3375.00	
Recorder	0.00	9139	Outside	3375.00	
Bullnose	5.00			3380.00	15.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F G Holl Company LLC

**19-19s-14w Barton**

9431 East Central suite 100  
Wichita, Kansas 67206-2563

**Calcara #4-19**

Job Ticket: 01365

**DST#: 2**

ATTN: Renee Hustean

Test Start: 2019.07.11 @ 17:10:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 9.59 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8000.00 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
0.00	100 FEET OF GAS IN THE PIPE	0.000
1.00	Clean Oil	0.014
20.00	Mud with a trace of oil	0.281
60.00	Muddy water with a trace of oil	0.842
0.00	1% Oil 38% Mud 61% water	0.000
0.00	Chlorides 72000	0.000

Total Length: 81.00 ft      Total Volume: 1.137 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

