



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: 2019.11.09 @ 15:32:00

End Date: 2019.11.09 @ 22:00:00

Job Ticket #: 01389 DST #: 2

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

Printed: 2019.11.09 @ 22:16:08



DRILL STEM TEST REPORT

F G Holl Company LLC
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 ATTN: Renee Husted

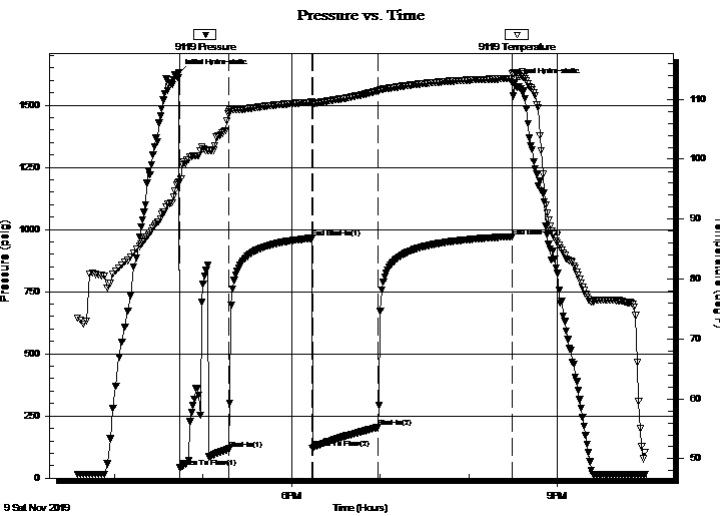
30-19s-14w Barton
Leroy Farm #2-30
 Job Ticket: 01389 **DST#: 2**
 Test Start: 2019.11.09 @ 15:32:00

GENERAL INFORMATION:

Formation: **Kansas City "G"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:44:00 Tester: Gene Budig
 Time Test Ended: 22:00:00 Unit No: 1
 Interval: **3278.00 ft (KB) To 3290.00 ft (KB) (TVD)** Reference Elevations: 1915.00 ft (KB)
 Total Depth: 3290.00 ft (KB) (TVD) 1907.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 971.63 psig @ 3285.00 ft (KB) Capacity: psig
 Start Date: 2019.11.09 End Date: 2019.11.09 Last Calib.: 1899.12.30
 Start Time: 15:32:00 End Time: 21:59:29 Time On Btm: 2019.11.09 @ 16:43:30
 Time Off Btm: 2019.11.09 @ 20:29:30

TEST COMMENT: 1st Opening 30 Minutes weak building blow built to the bottom of the bucket in 12 minutes
 1st Shut-In 60 Minutes no blow back
 2nd Opening 45 built to the bottom of the bucket in 29 minutes
 2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.05	96.24	Initial Hydro-static
1	42.10	96.25	Open To Flow (1)
34	117.58	107.97	Shut-In(1)
90	965.19	109.52	End Shut-In(1)
91	120.92	109.26	Open To Flow (2)
135	204.93	111.43	Shut-In(2)
226	971.63	113.46	End Shut-In(2)
226	1589.06	114.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
425.00	Water Chlorides 58000	5.96

Gas Rates

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



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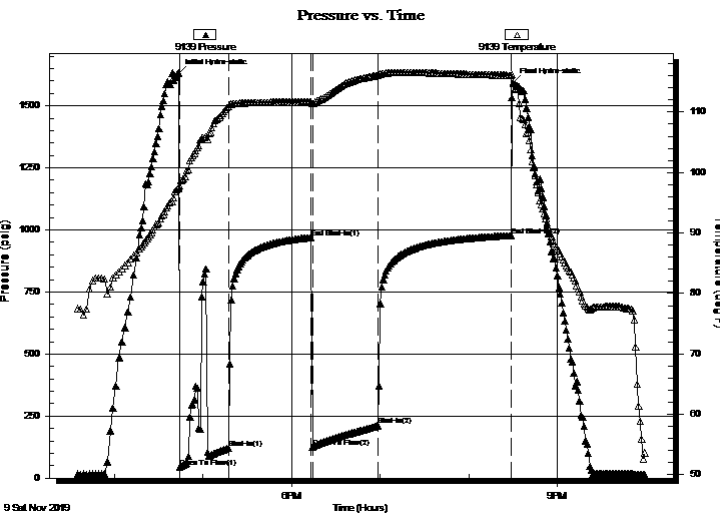
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 Interval: **3278.00 ft (KB) To 3290.00 ft (KB) (TVD)**
 Total Depth: 3290.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 977.63 psig @ 3285.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2019.11.09 End Date: 2019.11.09 Last Calib.: 2019.11.09
 Start Time: 15:32:00 End Time: 21:59:29 Time On Btm: 2019.11.09 @ 16:43:30
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 1st Shut-In 60 Minutes no blow back
 2nd Opening 45 built to the bottom of the bucket in 29 minutes
 2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.70	97.55	Initial Hydro-static
1	45.12	97.83	Open To Flow (1)
34	121.23	110.94	Shut-In(1)
90	969.69	111.69	End Shut-In(1)
91	126.33	111.37	Open To Flow (2)
135	211.56	116.09	Shut-In(2)
225	977.63	116.07	End Shut-In(2)
227	1595.07	114.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
425.00	Water Chlorides 58000	5.96

Gas Rates

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



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TOOL DIAGRAM

F G Holl Company LLC

30-19s-14w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Leroy Farm #2-30

ATTN: Renee Husted

Job Ticket: 01389

DST#: 2

Test Start: 2019.11.09 @ 15:32:00

Tool Information

Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 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: 58000.00 lb
			<u>Total Volume: 45.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3278.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	42.00 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			3253.00	
Hydraulic tool	5.00			3258.00	
Jars	5.00			3263.00	
Safety Joint	5.00			3268.00	
Packer	5.00			3273.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3278.00	
Anchor	7.00			3285.00	
Recorder	0.00	9119	Inside	3285.00	
Recorder	0.00	9139	Outside	3285.00	
Bullnose	5.00			3290.00	12.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



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FLUID SUMMARY

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DST#: 2

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Test Start: 2019.11.09 @ 15:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 50.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 4700.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
425.00	Water Chlorides 58000	5.962

Total Length: 425.00 ft Total Volume: 5.962 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

