



DRILL STEM TEST REPORT

Prepared For: **YOUNGER ENERGY COM;PANY**

9415 EAST HARRY STREET SUITE 403
BUILDING 400
WICHITA, KANSAS 67207-5083

ATTN:

STRECKER B 8

Start Date: 2016.02.17 @ 04:00:00

End Date: 2016.02.17 @ 10:03:00

Job Ticket #: 01212 DST #: 2

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

Printed: 2016.02.17 @ 10:17:50



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ATTN:

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Job Ticket: 01212

DST#: 2

Test Start: 2016.02.17 @ 04:00:00

GENERAL INFORMATION:

Formation: **KANSAS CITY**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:58:00

Time Test Ended: 10:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIGF

Unit No: 1-76

Interval: 2898.00 ft (KB) To 2936.00 ft (KB) (TVD)

Reference Elevations: 1753.00 ft (KB)

Total Depth: 2936.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: 180.68 psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.17

End Date: 2016.02.17

Last Calib.: 1899.12.30

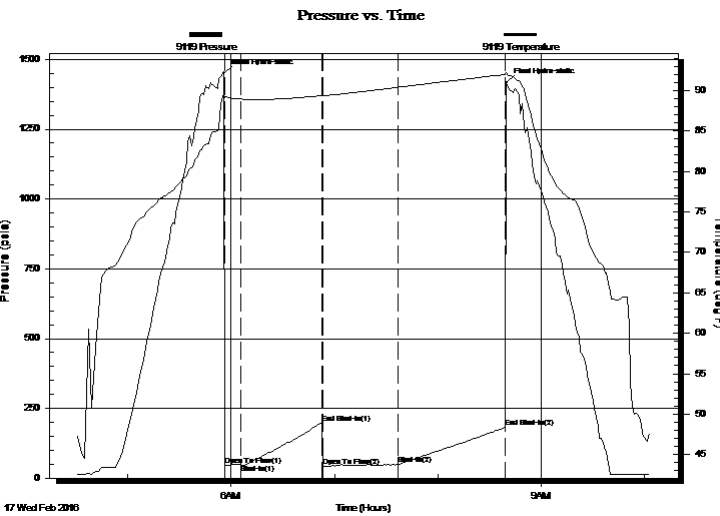
Start Time: 04:30:00

End Time: 10:03:00

Time On Btm: 2016.02.17 @ 05:56:00

Time Off Btm: 2016.02.17 @ 08:40:00

TEST COMMENT: 1ST OPENING 10 MINUTES-WEAK BUILDING BLOW BUILT TO 1 1/2 INCHES INTO THE WATER
1ST SHUT-IN 45 MINUTES-NO BLOW BACK
2ND OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT BOTTOM OF THE BUCKET IN 28 MINUTE
2ND SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1450.42	89.61	Initial Hydro-static
1	45.85	89.08	Open To Flow (1)
10	48.55	88.93	Shut-In(1)
57	196.65	89.36	End Shut-In(1)
58	41.36	89.34	Open To Flow (2)
101	48.49	90.38	Shut-In(2)
163	180.68	91.96	End Shut-In(2)
164	1416.26	92.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180 feet of gas in the pipe	0.00
15.00	slightly oil cut mud 10 oil 90 mud	0.21

Gas Rates

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



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Tester: GENE BUDIGF

Unit No: 1-76

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Reference Elevations: 1753.00 ft (KB)

Total Depth: 2936.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: 179.50 psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.17

End Date: 2016.02.17

Last Calib.: 1899.12.30

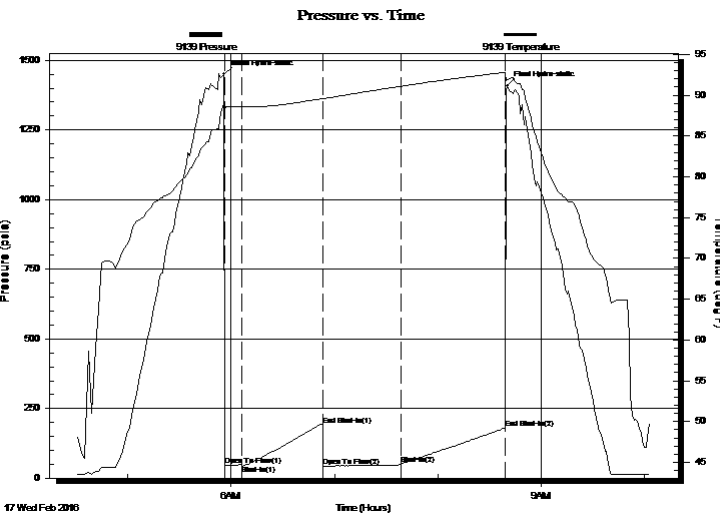
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2ND SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1449.53	88.91	Initial Hydro-static
1	45.65	88.11	Open To Flow (1)
10	46.89	88.58	Shut-In(1)
57	191.85	89.59	End Shut-In(1)
58	43.21	89.57	Open To Flow (2)
103	50.44	91.10	Shut-In(2)
163	179.50	92.80	End Shut-In(2)
165	1408.57	91.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180 feet of gas in the pipe	0.00
15.00	slightly oil cut mud 10 oil 90 mud	0.21

Gas Rates

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



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TOOL DIAGRAM

YOUNGER ENERGY COMPANY

9415 EAST HARRY STREET SUITE 403 BUILDING
400
WICHITA, KANSAS 67207-5083
ATTN:

STRECKER B 8

Job Ticket: 01212

DST#: 2

Test Start: 2016.02.17 @ 04:00:00

Tool Information

Drill Pipe:	Length: 2876.00 ft	Diameter: 3.80 inches	Volume: 40.34 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: 40.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	2898.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	67.00 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			2874.00	
Hydraulic tool	5.00			2879.00	
Jars	7.00			2886.00	
Safety Joint	2.00		Fluid	2888.00	
Top Packer	5.00			2893.00	
Packer	5.00			2898.00	29.00 Bottom Of Top Packer
Anchor	33.00			2931.00	
Recorder	0.00	9119	Inside	2931.00	
Recorder	0.00	9139	Outside	2931.00	
Bullnose	5.00			2936.00	38.00 Anchor Tool
Total Tool Length:	67.00				



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FLUID SUMMARY

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STRECKER B 8

Job Ticket: 01212

DST#: 2

Test Start: 2016.02.17 @ 04:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	180 feet of gas in the pipe	0.000
15.00	slightly oil cut mud 10 oil 90 mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

