



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: 2016.02.18 @ 14:02:00

End Date: 2016.02.18 @ 20:08:00

Job Ticket #: 1213 DST #: 3

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

Printed: 2016.02.18 @ 20:37:50

YOUNGER ENERGY COM;PANY

STRECKER B 8

DST # 3

REAGAN

2016.02.18



DRILL STEM TEST REPORT

YOUNGER ENERGY COMPANY

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

STRECKER B 8

Job Ticket: 1213

DST#: 3

Test Start: 2016.02.18 @ 14:02:00

GENERAL INFORMATION:

Formation: **REAGAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:42:00

Time Test Ended: 20:08:00

Test Type: Conventional Straddle (Initial)

Tester: GENE BUDIG

Unit No: 1=76

Interval: 3120.00 ft (KB) To 3154.00 ft (KB) (TVD)

Reference Elevations: 1753.00 ft (KB)

Total Depth: 3204.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.18

End Date: 2016.02.18

Last Calib.: 1899.12.30

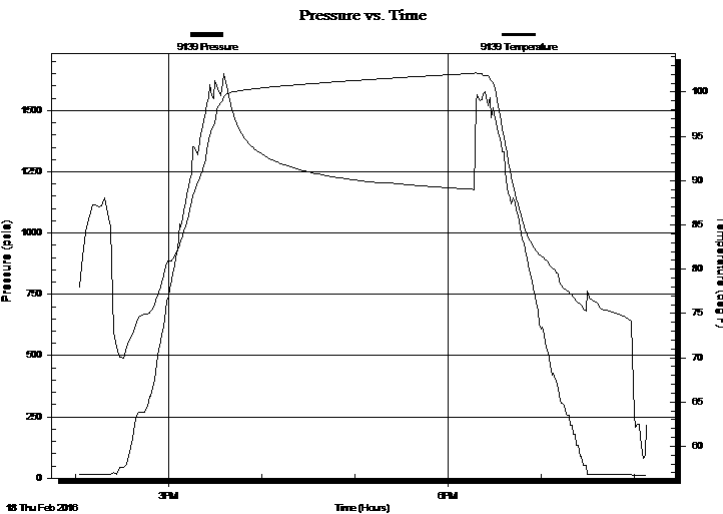
Start Time: 14:02:00

End Time: 20:08:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 1ST OPENING 10 MINUTES-WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 8 MINUTES
1ST SHUT-IN 45 MINUTES-NO BLOW BACK
2ND OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 8 MINUTES
2N SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60 feet of gas in the pipe	0.00
60.00	gassy slightlyu oil cut muddy w ate	0.84
0.00	50 gas 5 oil 20 mud 25 w ater	0.00
60.00	slightly oil cut muddy w ater	0.84
0.00	5 oil 35 mud 60 w ater	0.00
180.00	slightly muddy w ater w ith a trace of oil	2.52

Gas Rates

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



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Total Depth: 3204.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: 1555.96 psia @ ft (KB)

Capacity: psia

Start Date: 2016.02.18

End Date: 2016.02.18

Last Calib.: 1899.12.30

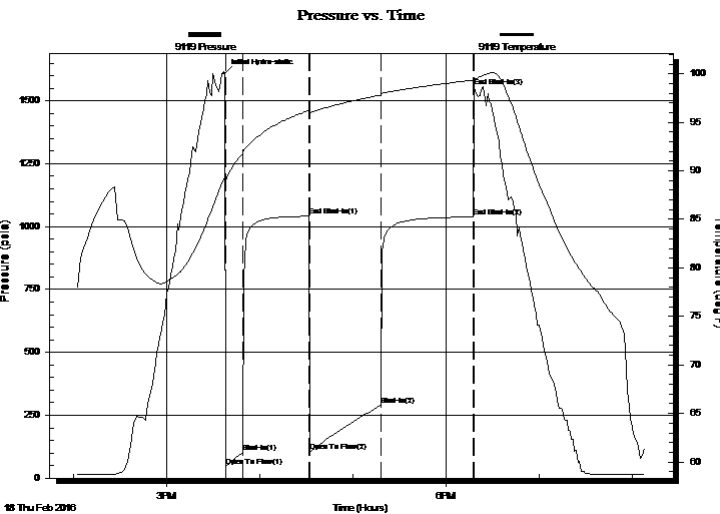
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1ST SHUT-IN 45 MINUTES-NO BLOW BACK
2ND OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT TO BOTTOM OF THE BUCKET IN 8 MINUTES
2N SHUT-IN 60 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1609.63	89.28	Initial Hydro-static
1	47.03	88.84	Open To Flow (1)
12	101.40	91.87	Shut-In(1)
55	1041.64	96.22	End Shut-In(1)
55	106.04	95.81	Open To Flow (2)
101	288.16	97.79	Shut-In(2)
160	1038.92	99.34	End Shut-In(2)
161	1555.96	99.47	End Shut-In(3)

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60 feet of gas in the pipe	0.00
60.00	gassy slightlyu oil cut muddy w ater	0.84
0.00	50 gas 5 oil 20 mud 25 w ater	0.00
60.00	slightly oil cut muddy w ater	0.84
0.00	5 oil 35 mud 60 w ater	0.00
180.00	slightly muddy w ater w ith a trace of oil	2.52

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: 1213

DST#: 3

Test Start: 2016.02.18 @ 14:02:00

Tool Information

Drill Pipe:	Length: 3126.00 ft	Diameter: 3.80 inches	Volume: 43.85 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: 43.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3120.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3154.00 ft			
Interval between Packers:	34.00 ft			
Tool Length:	112.72 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3101.00		
Hydraulic tool	5.00			3106.00		
Jars	7.00			3113.00		
Safety Joint	2.00		Fluid	3115.00		
Packer	5.00			3120.00	24.00	Bottom Of Top Packer
Anchor	33.00			3153.00		
Recorder	0.00		Inside	3153.00		
Blank Off Sub	1.00			3154.00		
Packer	5.00			3159.00	34.00	Tool Interval
Packer	7.00			3166.00		
Change Over Sub	0.75			3166.75		
Drill Pipe	31.22			3197.97		
Change Over Sub	0.75			3198.72		
Anchor	5.00			3203.72		
Recorder	0.00		Outside	3203.72		
Bullnose	5.00			3208.72	54.72	Bottom Packers & Anchor
Total Tool Length:	112.72					



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FLUID SUMMARY

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ATTN:

STRECKER B 8

Job Ticket: 1213

DST#: 3

Test Start: 2016.02.18 @ 14:02:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 8.80 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: 1400 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	60 feet of gas in the pipe	0.000
60.00	gassy slightly oil cut muddy water	0.842
0.00	50 gas 5 oil 20 mud 25 water	0.000
60.00	slightly oil cut muddy water	0.842
0.00	5 oil 35 mud 60 water	0.000
180.00	slightly muddy water with a trace of oil	2.525
0.00	6 mud 94 water	0.000
240.00	water with a trace of oil	3.367
0.00	99 water 1 mud chlorides 14000	0.000

Total Length: 540.00 ft Total Volume: 7.576 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

