



DRILL STEM TEST REPORT

Prepared For: **Younger Energy Company**

3415 E. Harry suite 403 bld400
Wichita, Kansas 67207

ATTN: Keith Reavis

Bauer Y #3-27

27-21s-15w Pawnee

Start Date: 2017.07.17 @ 12:18:00

End Date: 2017.07.17 @ 00:00:00

Job Ticket #: 01177 DST #: 2

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

Printed: 2017.07.17 @ 07:19:02



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Younger Energy Company

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Bauer Y #3-27

Job Ticket: 01177

DST#: 2

ATTN: Keith Reavis

Test Start: 2017.07.17 @ 12:18:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3899.00 ft (KB) To 3906.00 ft (KB) (TVD)**

Reference Elevations: 1976.00 ft (KB)

Total Depth: 3906.00 ft (KB) (TVD)

1968.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **91716** Inside

Press@RunDepth: 1355.29 psig @ 3901.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.07.17

End Date: 2017.07.17

Last Calib.: 2017.07.17

Start Time: 12:18:00

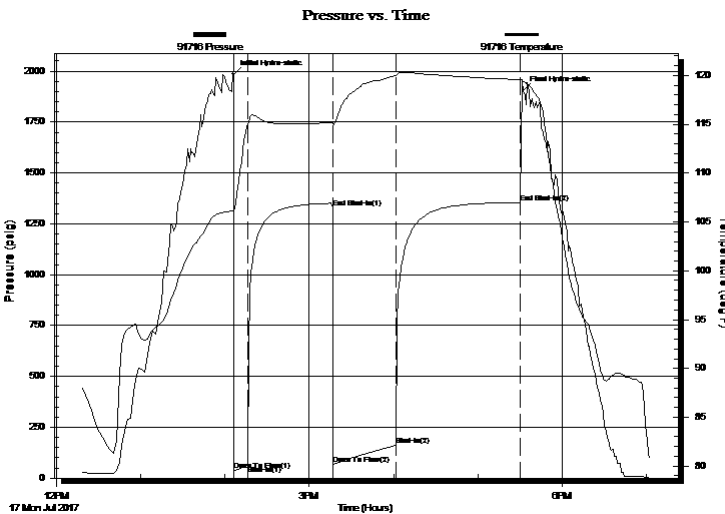
End Time: 19:02:30

Time On Btm: 2017.07.17 @ 14:06:00

Time Off Btm: 2017.07.17 @ 17:32:30

TEST COMMENT: 1st opening 10 minutes weak blow built to 6 inches into the water
1st Shut-In 60 Minutes no blow back
2nd opening 45 minutes weak blow built to the bottom of the bucket in 28 minutes
2nd shut in 90 minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1984.91	106.15	Initial Hydro-static
1	36.53	106.16	Open To Flow (1)
10	62.95	114.97	Shut-In(1)
71	1328.79	115.19	End Shut-In(1)
71	66.00	115.11	Open To Flow (2)
116	161.62	119.99	Shut-In(2)
205	1355.29	119.55	End Shut-In(2)
207	1905.52	119.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
275.00	slightly muddy w ater	3.86
0.00	Chlorides 18000	0.00

Gas Rates

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



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Formation: **Arbuckle**

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Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3899.00 ft (KB) To 3906.00 ft (KB) (TVD)

Reference Elevations: 1976.00 ft (KB)

Total Depth: 3906.00 ft (KB) (TVD)

1968.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 93335 Outside

Press@RunDepth: 1362.58 psig @ 3901.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.07.17

End Date: 2017.07.17

Last Calib.: 2017.07.17

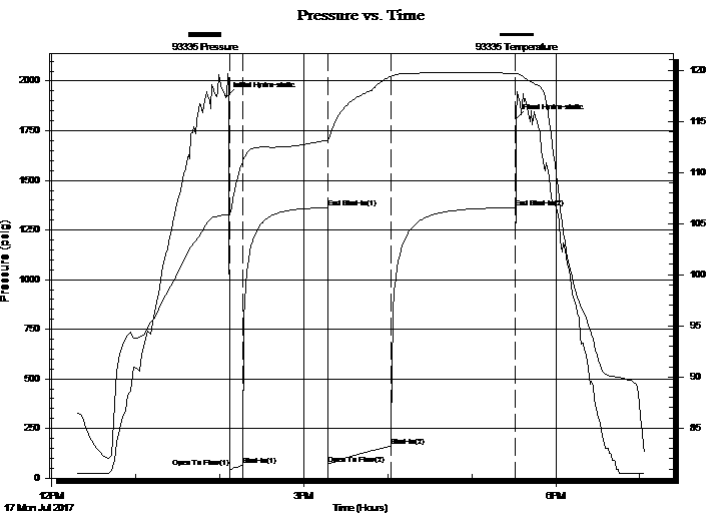
Start Time: 12:18:00

End Time: 19:03:29

Time On Btm: 2017.07.17 @ 14:05:00

Time Off Btm: 2017.07.17 @ 17:32:00

TEST COMMENT: 1st opening 10 minutes weak blow built to 6 inches into the water
1st Shut-In 60 Minutes no blow back
2nd opening 45 minutes weak blow built to the bottom of the bucket in 28 minutes
2nd shut in 90 minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.11	105.88	Initial Hydro-static
2	52.17	105.92	Open To Flow (1)
12	64.45	111.03	Shut-In(1)
72	1362.43	113.14	End Shut-In(1)
73	71.36	113.17	Open To Flow (2)
117	162.71	119.35	Shut-In(2)
206	1362.58	119.69	End Shut-In(2)
207	1812.57	119.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
275.00	slightly muddy water	3.86
0.00	Chlorides 18000	0.00

Gas Rates

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



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TOOL DIAGRAM

Younger Energy Company

27-21s-15w Pawnee

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Wichita, Kansas 67207

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DST#: 2

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Test Start: 2017.07.17 @ 12:18:00

Tool Information

Drill Pipe:	Length: 3902.00 ft	Diameter: 3.80 inches	Volume: 54.73 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:	72000.00 lb
			<u>Total Volume: 54.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3899.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	29.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3882.00	
Hydraulic tool	5.00			3887.00	
Jars	5.00			3892.00	
Safety Joint	2.00			3894.00	
Packer	5.00			3899.00	22.00 Bottom Of Top Packer
Anchor	2.00			3901.00	
Recorder	0.00	91716	Inside	3901.00	
Recorder	0.00	93335	Outside	3901.00	
Bullnose	5.00			3906.00	7.00 Anchor Tool
Total Tool Length:	29.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 8.20 in³
Resistivity: ohm.m
Salinity: 6000.00 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
275.00	slightly muddy water	3.858
0.00	Chlorides 18000	0.000

Total Length: 275.00 ft Total Volume: 3.858 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

