



DRILL STEM TEST REPORT

Prepared For: **YOUNGER ENERGY COMPANY**

9415 EAST HARRY SUITE 403
WICHITA, KANSAS 67207-5083

ATTN: KEITH REAVIS

ZACKARY 1-2

2-29S-1W SEDGWICK

Start Date: 2017.02.04 @ 08:36:00

End Date: 2017.02.04 @ 14:00:00

Job Ticket #: 01145 DST #: 1

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

Printed: 2017.02.04 @ 14:24:16



DRILL STEM TEST REPORT

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ZACKARY 1-2

Job Ticket: 01145

DST#: 1

ATTN: KEITH REAVIS

Test Start: 2017.02.04 @ 08:36:00

GENERAL INFORMATION:

Formation: **SIMPSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:50:00

Time Test Ended: 14:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1 135

Interval: **3613.00 ft (KB) To 3711.00 ft (KB) (TVD)**

Reference Elevations: 1302.00 ft (KB)

Total Depth: 3711.00 ft (KB) (TVD)

1292.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9139

Inside

Press@RunDepth: 134.55 psia @ 3706.03 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.04

End Date: 2017.02.04

Last Calib.: 2017.02.04

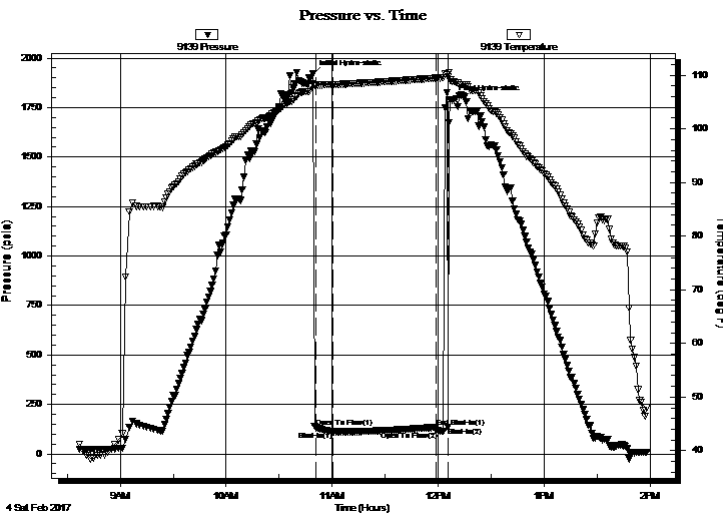
Start Time: 08:37:00

End Time: 13:58:00

Time On Btm: 2017.02.04 @ 10:49:00

Time Off Btm: 2017.02.04 @ 12:08:00

TEST COMMENT: 1ST OPENING 10 MINUTES VERY WEAK SURFACE BLOW FOR 8 MINUTES AND DIED
1ST SHUT-IN 60 MINUTES NNO BLOW BACK
2ND OPENING 15 MINUTES NO BLOW-FLUSHED TOOL-GOOD SURGE-NO HELP
2ND SHUT-IN NONE TAKEN



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1918.58	108.35	Initial Hydro-static
2	135.76	108.12	Open To Flow (1)
12	112.03	108.23	Shut-In(1)
70	134.55	109.42	End Shut-In(1)
71	116.33	109.45	Open To Flow (2)
77	135.54	109.66	Shut-In(2)
79	1788.48	108.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	DRILLING MUD	0.14

Gas Rates

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



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Tester: GENE E BUDIG

Unit No: 1 135

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Reference Elevations: 1302.00 ft (KB)

Total Depth: 3711.00 ft (KB) (TVD)

1292.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **91716** Outside

Press@RunDepth: 117.38 psia @ 3706.03 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.04

End Date: 2017.02.04

Last Calib.: 2017.02.04

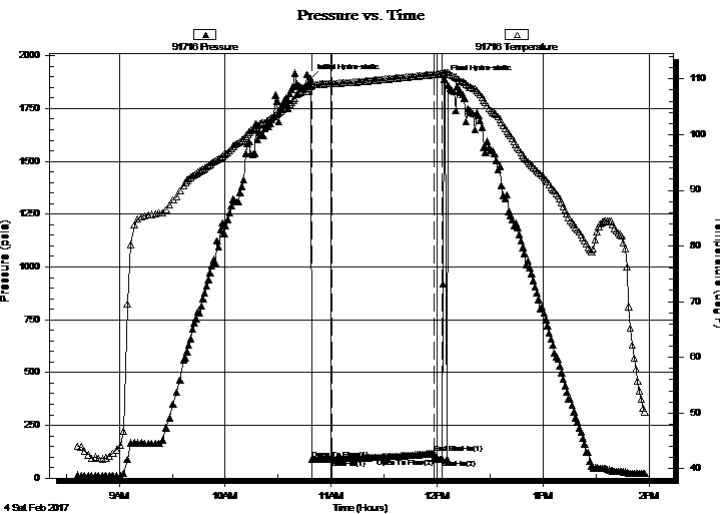
Start Time: 08:36:30

End Time: 13:57:30

Time On Btm: 2017.02.04 @ 10:48:30

Time Off Btm: 2017.02.04 @ 12:04:00

TEST COMMENT: 1ST OPENING 10 MINUTES VERY WEAK SURFACE BLOW FOR 8 MINUTES AND DIED
1ST SHUT-IN 60 MINUTES NNO BLOW BACK
2ND OPENING 15 MINUTES NO BLOW-FLUSHED TOOL-GOOD SURGE-NO HELP
2ND SHUT-IN NONE TAKEN



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1891.79	108.72	Initial Hydro-static
1	88.20	108.89	Open To Flow (1)
12	89.54	109.16	Shut-In(1)
70	117.38	110.77	End Shut-In(1)
70	96.11	110.79	Open To Flow (2)
75	89.65	110.89	Shut-In(2)
76	1886.23	111.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	DRILLING MUD	0.14

Gas Rates

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



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TOOL DIAGRAM

YOUNGER ENERGY COMPANY

2-29S-1W SEDGWICK

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DST#: 1

ATTN: KEITH REAVIS

Test Start: 2017.02.04 @ 08:36:00

Tool Information

Drill Pipe:	Length: 3604.00 ft	Diameter: 3.80 inches	Volume: 50.55 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: 73000.00 lb
			<u>Total Volume: 50.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3613.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.03 ft			
Tool Length:	127.03 ft			
Number of Packers:	2	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			3589.00	
Hydraulic tool	5.00			3594.00	
Jars	7.00			3601.00	
Safety Joint	2.00		Fluid	3603.00	
Top Packer	5.00			3608.00	
Packer	5.00			3613.00	29.00 Bottom Of Top Packer
Anchor	5.00			3618.00	
Change Over Sub	0.75			3618.75	
Drill Pipe	61.53			3680.28	
Change Over Sub	0.75			3681.03	
Anchor	25.00			3706.03	
Recorder	0.00	9139	Inside	3706.03	
Recorder	0.00	91716	Outside	3706.03	
Bullnose	5.00			3711.03	98.03 Anchor Tool

Total Tool Length: 127.03



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 69.00 sec/qt
Water Loss: 6.20 in³
Resistivity: ohm.m
Salinity: 1000.00 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
10.00	DRILLING MUD	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

