



DRILL STEM TEST REPORT

Prepared For: **Darrah John Jay Jr.**

P.O.Box 2786
Wichita, Kansas 67201

ATTN: Seth Evenson

Gaunt 32 B # 1

32-20s-13w Barton

Start Date: 2017.09.11 @ 12:00:00

End Date: 2017.09.11 @ 00:00:00

Job Ticket #: 01188 DST #: 4

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

Printed: 2017.09.11 @ 18:01:46

Darrah John Jay Jr.
32-20s-13w Barton
Gaunt 32 B # 1
DST # 4
Kansas City
2017.09.11



DRILL STEM TEST REPORT

Darrah John Jay Jr.
 P.O.Box 2786
 Wichita, Kansas 67201
 ATTN: Seth Evenson

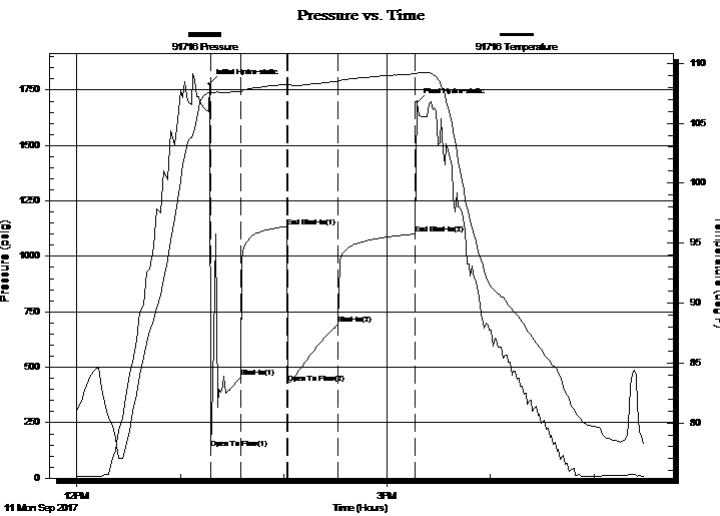
32-20s-13w Barton
Gaunt 32 B # 1
 Job Ticket: 01188 **DST#: 4**
 Test Start: 2017.09.11 @ 12:00:00

GENERAL INFORMATION:

Formation: **Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3473.00 ft (KB) To 3540.00 ft (KB) (TVD)**
 Total Depth: 3540.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No:
 Reference Elevations: 1901.00 ft (KB)
 1895.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 91716 Outside
 Press@RunDepth: 1100.71 psig @ 3534.77 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.09.11 End Date: 2017.09.11 Last Calib.: 2017.09.11
 Start Time: 12:00:00 End Time: 17:29:30 Time On Btm: 2017.09.11 @ 13:17:00
 Time Off Btm: 2017.09.11 @ 15:17:30

TEST COMMENT: 1st opening 15 minutes good blow built to the bottom of a 5 gallon bucket in 2 1/2 minutes
 1st shut-in 30 minutes noblow back
 2nd opening 30 minutes good blow built to the bottom of a 5 gallon bucket in 2 1/4 minutes
 2nd shut-in 45 minutes slight blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1778.20	107.55	Initial Hydro-static
1	132.96	107.62	Open To Flow (1)
18	454.64	107.65	Shut-In(1)
45	1132.46	108.27	End Shut-In(1)
46	426.64	108.26	Open To Flow (2)
75	694.84	108.50	Shut-In(2)
120	1100.71	109.11	End Shut-In(2)
121	1693.70	109.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	5%Gas 15% Oil 30%Mud 50%Water	1.26
180.00	5%Gas 15%Oil 40%Mud 40%Water	2.52
180.00	15%Gas 15%Oil 20%Mud 50%Water	2.52
180.00	8%Gas 22%Oil 10%Mud 60%Water	2.52
180.00	12%Gas 12%Oil 6%Mud70%Water	2.52
180.00	5%Gas 10%Oil 3%Mud82%Water	2.52

Gas Rates

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



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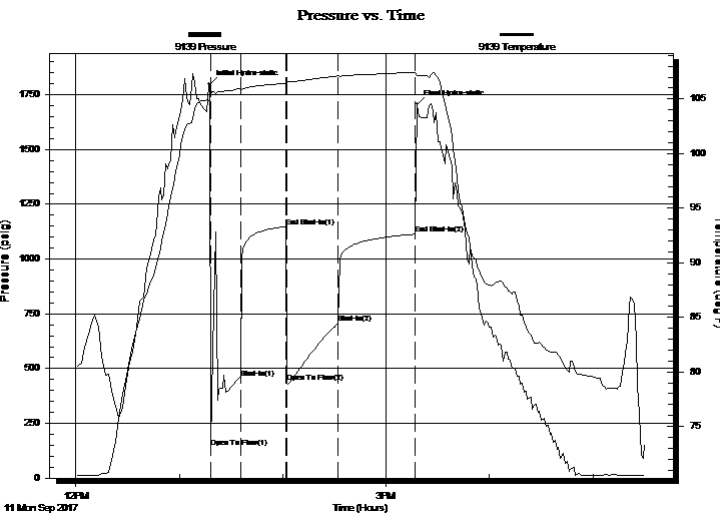
32-20s-13w Barton
Gaunt 32 B # 1
 Job Ticket: 01188 **DST#: 4**
 Test Start: 2017.09.11 @ 12:00:00

GENERAL INFORMATION:

Formation: **Kansas City**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No:
 Interval: **3473.00 ft (KB) To 3540.00 ft (KB) (TVD)** Reference Elevations: 1901.00 ft (KB)
 Total Depth: 3540.00 ft (KB) (TVD) 1895.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

Serial #: 9139 Inside
 Press@RunDepth: 1113.65 psig @ 3534.77 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.09.11 End Date: 2017.09.11 Last Calib.: 2017.09.11
 Start Time: 12:00:00 End Time: 17:30:00 Time On Btm: 2017.09.11 @ 13:17:30
 Time Off Btm: 2017.09.11 @ 15:18:00

TEST COMMENT: 1st opening 15 minutes good blow built to the bottom of a 5 gallon bucket in 2 1/2 minutes
 1st shut-in 30 minutes noblow back
 2nd opening 30 minutes good blow built to the bottom of a 5 gallon bucket in 2 1/4 minutes
 2nd shut-in 45 minutes slight blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.00	104.93	Initial Hydro-static
1	140.16	105.39	Open To Flow (1)
18	458.46	105.97	Shut-In(1)
45	1148.26	106.45	End Shut-In(1)
45	438.01	106.56	Open To Flow (2)
75	706.99	107.11	Shut-In(2)
120	1113.65	107.44	End Shut-In(2)
121	1706.21	107.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	5%Gas 15% Oil 30%Mud 50%Water	1.26
180.00	5%Gas 15%Oil 40%Mud 40%Water	2.52
180.00	15%Gas 15%Oil 20%Mud 50%Water	2.52
180.00	8%Gas 22%Oil 10%Mud 60%Water	2.52
180.00	12%Gas 12%Oil 6%Mud70%Water	2.52
180.00	5%Gas 10%Oil 3%Mud82%Water	2.52

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Darrah John Jay Jr.

32-20s-13w Barton

P.O.Box 2786
Wichita, Kansas 67201

Gaunt 32 B # 1

Job Ticket: 01188

DST#: 4

ATTN: Seth Evenson

Test Start: 2017.09.11 @ 12:00:00

Tool Information

Drill Pipe:	Length: 3483.00 ft	Diameter: 3.80 inches	Volume: 48.86 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: 36000.00 lb
			<u>Total Volume: 48.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3473.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.77 ft			
Tool Length:	86.77 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			3458.00	
Hydraulic tool	5.00			3463.00	
Packer	5.00			3468.00	20.00 Bottom Of Top Packer
Packer	5.00		Fluid	3473.00	
Anchor	5.00			3478.00	
Change Over Sub	0.75			3478.75	
Drill Pipe	31.27			3510.02	
Change Over Sub	0.75		Inside	3510.77	
Anchor	24.00			3534.77	
Recorder	0.00	9139	Inside	3534.77	
Recorder	0.00	91716	Outside	3534.77	
Bullnose	5.00			3539.77	66.77 Bottom Packers & Anchor

Total Tool Length: 86.77



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FLUID SUMMARY

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Job Ticket: 01188

DST#: 4

ATTN: Seth Evenson

Test Start: 2017.09.11 @ 12:00:00

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	5%Gas 15% Oil 30%Mud 50%Water	1.262
180.00	5%Gas 15%Oil 40%MUd 40%Water	2.525
180.00	15%Gas 15%Oil 20%Mud 50%Water	2.525
180.00	8%Gas 22%Oil 10%Mud 60%Water	2.525
180.00	12%Gas 12%Oil 6%Mud70%Water	2.525
180.00	5%Gas 10%Oil 3%Mud82%Water	2.525
180.00	10%Oil 3%Mud 87%Water	2.525
120.00	1%Oil 10%Mud 89%Water	1.683
0.00	250 gas in the pipe	0.000
0.00	Chlorides 58000	0.000

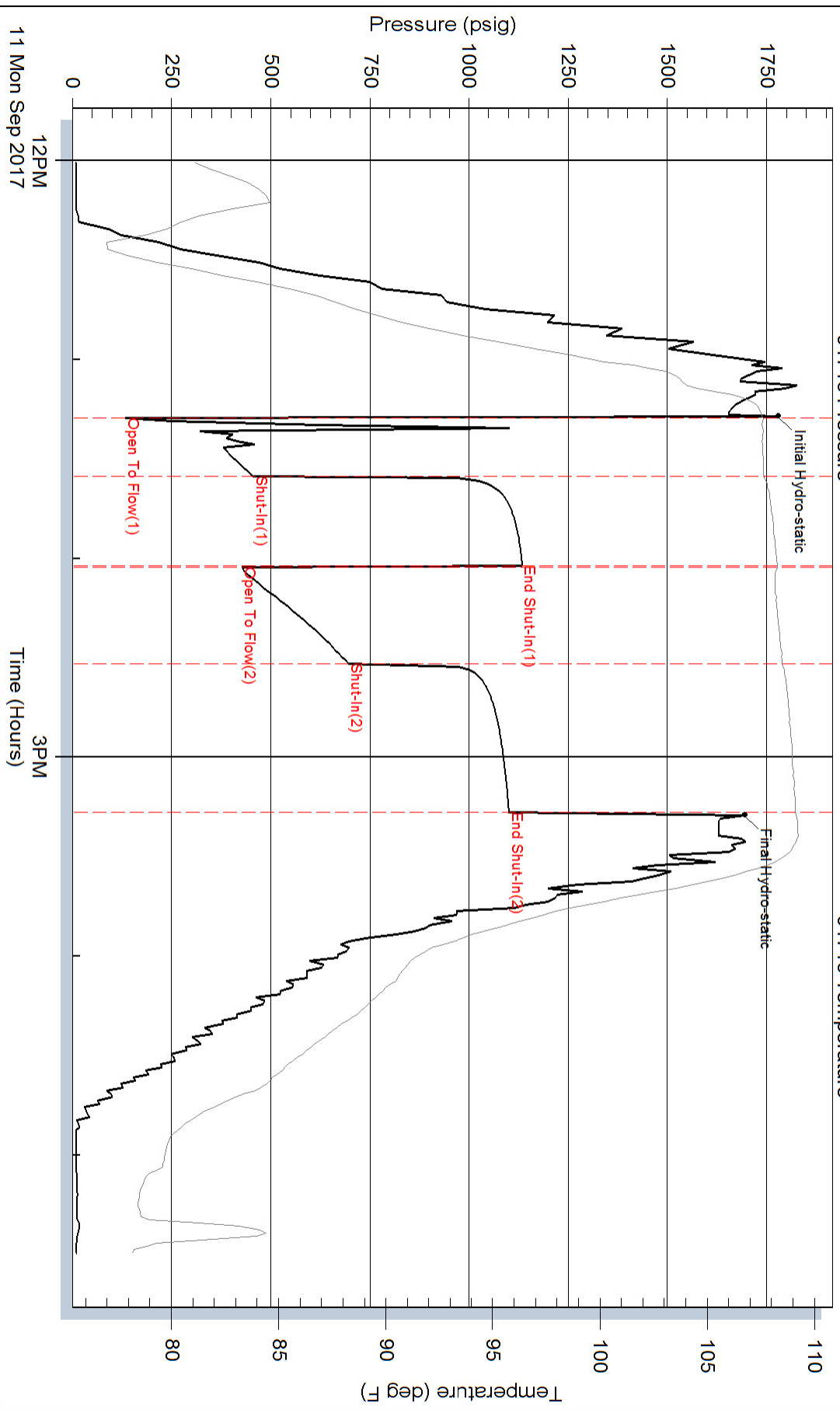
Total Length: 1290.00 ft Total Volume: 18.095 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

