



## DRILL STEM TEST REPORT

Prepared For: **RJM COMPANY**

P.O. BOX 256  
CLAFLIN, KANSAS 67525

ATTN: WYATT URBAN

**BARTON COUNTY 1**

**12-19S-12W BARTON**

Start Date: 2015.11.09 @ 02:37:26

End Date: 2015.11.09 @ 08:41:26

Job Ticket #: 01248                      DST #: 3

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

Printed: 2015.11.09 @ 09:07:10

RJM COMPANY  
12-19S-12W BARTON  
BARTON COUNTY 1  
DST # 3  
ARBUCKLE  
2015.11.09



# DRILL STEM TEST REPORT

RJM COMPANY  
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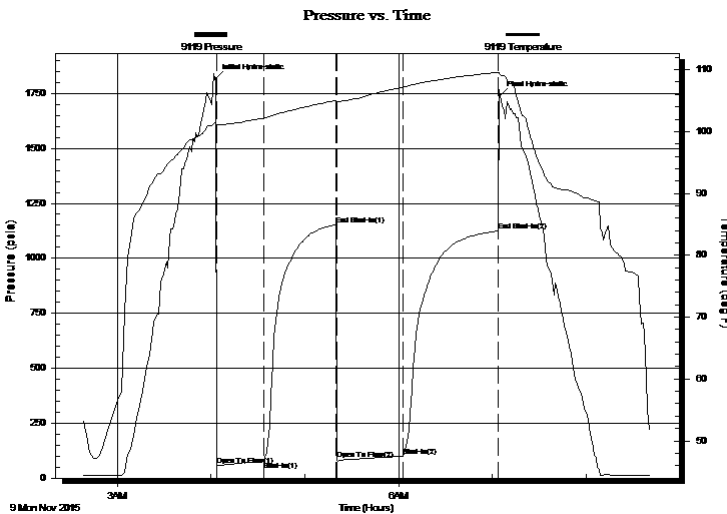
**12-19S-12W BARTON**  
**BARTON COUNTY 1**  
 Job Ticket: 01248 **DST#: 3**  
 Test Start: 2015.11.09 @ 02:37:26

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:03:26  
 Time Test Ended: 08:41:26  
 Interval: **3406.00 ft (KB) To 3463.00 ft (KB) (TVD)**  
 Total Depth: 3463.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: GKENE BUDIG  
 Unit No: 1-183406  
 Reference Elevations: 1877.00 ft (KB)  
 1872.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 9119 Inside**  
 Press@RunDepth: 101.11 psia @ 3458.32 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2015.11.09 End Date: 2015.11.09 Last Calib.: 2015.11.09  
 Start Time: 02:37:26 End Time: 08:41:26 Time On Btm: 2015.11.09 @ 04:02:56  
 Time Off Btm: 2015.11.09 @ 07:04:56

**TEST COMMENT:** 1ST OPENING 30 MINUTES= WEAK BUILDING BLOW BUILT TO 10 INCHES INTO THE WATER  
 1ST SHUT-IN 45 MINUTES-NO BLOW BACK  
 2ND OPENING 45 MINUTES- WEAK BUILDING BLOW BUILT TO 12 INCHES INTO THE WATER  
 2ND SHUT-IN 60 MINUTES-O BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1818.62	101.46	Initial Hydro-static
1	56.61	101.06	Open To Flow (1)
31	78.58	102.15	Shut-In(1)
77	1153.26	105.02	End Shut-In(1)
78	87.75	104.45	Open To Flow (2)
120	101.11	107.20	Shut-In(2)
181	1123.98	109.56	End Shut-In(2)
182	1738.99	109.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY OIL 85 15 MUD	1.68
0.00	120 GAS IN THE PIPE	0.00

## Gas Rates

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



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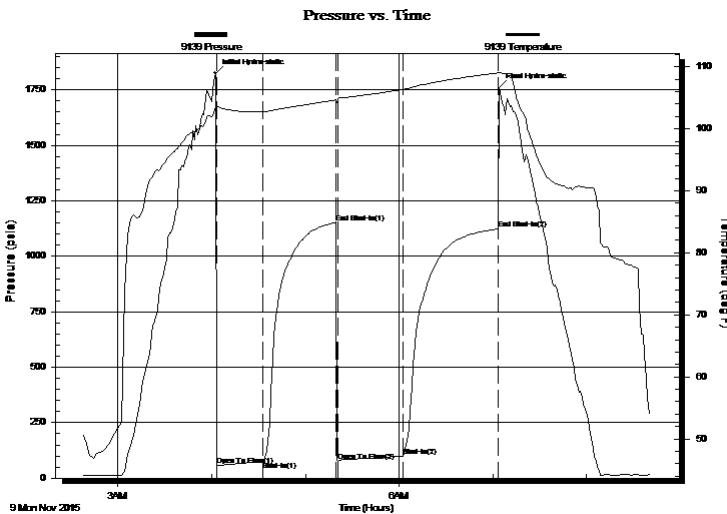
**12-19S-12W BARTON**  
**BARTON COUNTY 1**  
 Job Ticket: 01248 **DST#: 3**  
 Test Start: 2015.11.09 @ 02:37:26

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:03:26  
 Time Test Ended: 08:41:26  
 Interval: **3406.00 ft (KB) To 3463.00 ft (KB) (TVD)**  
 Total Depth: 3463.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: GKENE BUDIG  
 Unit No: 1-183406  
 Reference Elevations: 1877.00 ft (KB)  
 1872.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 9139 Outside**  
 Press@RunDepth: 1123.09 psia @ 3458.32 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2015.11.09 End Date: 2015.11.09 Last Calib.: 2015.11.09  
 Start Time: 02:37:00 End Time: 08:41:00 Time On Btm: 2015.11.09 @ 04:02:30  
 Time Off Btm: 2015.11.09 @ 07:04:00

**TEST COMMENT:** 1ST OPENING 30 MINUTES= WEAK BUILDING BLOW BUILT TO 10 INCHES INTO THE WATER  
 1ST SHUT-IN 45 MINUTES-NO BLOW BACK  
 2ND OPENING 45 MINUTES- WEAK BUILDING BLOW BUILT TO 12 INCHES INTO THE WATER  
 2ND SHUT-IN 60 MINUTES-O BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1825.55	103.27	Initial Hydro-static
1	57.68	103.52	Open To Flow (1)
30	74.24	102.75	Shut-In(1)
77	1152.52	104.66	End Shut-In(1)
78	76.66	104.63	Open To Flow (2)
120	100.16	106.34	Shut-In(2)
181	1123.09	109.01	End Shut-In(2)
182	1758.78	109.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY OIL 85 15 MUD	1.68
0.00	120 GAS IN THE PIPE	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM COMPANY  
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12-19S-12W BARTON  
 BARTON COUNTY 1  
 Job Ticket: 01248      **DST#: 3**  
 Test Start: 2015.11.09 @ 02:37:26

## Tool Information

Drill Pipe:	Length: 3392.00 ft	Diameter: 3.80 inches	Volume: 47.58 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: 52000.00 lb
			<u>Total Volume: 47.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3406.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.32 ft			
Tool Length:	77.32 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3391.00	
Hydraulic tool	5.00			3396.00	
Top Packer	5.00			3401.00	
Packer	5.00			3406.00	20.00      Bottom Of Top Packer
Anchor	10.00			3416.00	
Change Over Sub	0.75			3416.75	
Drill Pipe	31.82			3448.57	
Change Over Sub	0.75			3449.32	
Anchor	9.00			3458.32	
Recorder	0.00	9119	Inside	3458.32	
Recorder	0.00	9139	Outside	3458.32	
Bullnose	5.00			3463.32	57.32      Anchor Tool

**Total Tool Length: 77.32**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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**BARTON COUNTY 1**  
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### 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.85 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MUDDY OIL 85 15 MUD	1.683
0.00	120 GAS IN THE PIPE	0.000

Total Length: 120.00 ft      Total Volume: 1.683 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time

