



DRILL STEM TEST REPORT

Prepared For: **RJM COMPANY**

P.O. BOX 256
CLAFLIN, KANSAS 67525-0256

ATTN: KURT TALBOTT

FELTES 1

34-16S-12W BARTON

Start Date: 2015.07.23 @ 13:43:00

End Date: 2015.07.23 @ 00:00:00

Job Ticket #: 01047 DST #: 4

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

Printed: 2015.07.23 @ 19:50:45

RJM COMPANY
34-16S-12W BARTON
FELTES 1
DST # 4
ARBUCKLE
2015.07.23



DRILL STEM TEST REPORT

RJM COMPANY
 P.O. BOX 256
 CLAFLIN, KANSAS 67525-0256
 ATTN: KURT TALBOTT

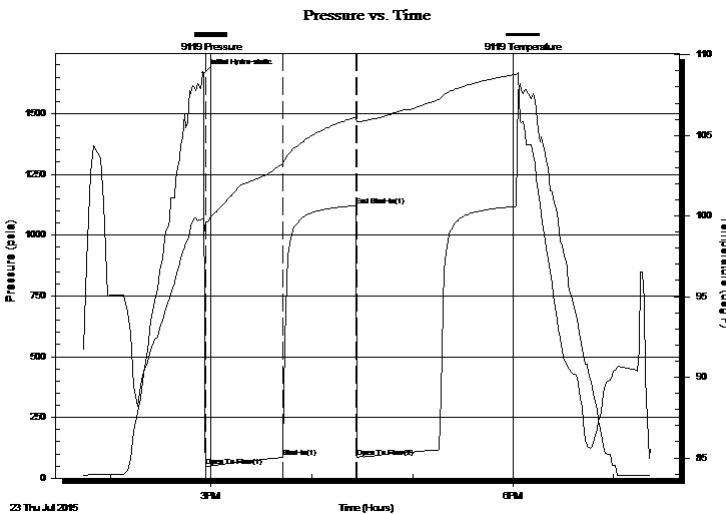
34-16S-12W BARTON
FELTES 1
 Job Ticket: 01047 **DST#: 4**
 Test Start: 2015.07.23 @ 13:43:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3303.00 ft (KB) To 3346.00 ft (KB) (TVD)**
 Total Depth: 3346.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1885.00 ft (KB)
 1880.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 1121.90 psia @ 3341.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.07.23 End Date: 2015.07.23 Last Calib.: 2015.07.23
 Start Time: 13:43:00 End Time: 19:22:30 Time On Btm: 2015.07.23 @ 14:55:30
 Time Off Btm:

TEST COMMENT: 1ST OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT TO 11 INCHES INTO THE WATER
 1ST SHUT-IN 45 MINUTES-NO BLOW BACK
 2ND OPENING 50 MINUTES-no blow for 3 minutes then w weak building blow built to 8 inches into the water
 2ND SHUT-IN 45 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1666.32	99.90	Initial Hydro-static
1	47.26	99.62	Open To Flow (1)
47	84.94	103.22	Shut-In(1)
91	1121.90	106.13	End Shut-In(1)
92	85.71	105.83	Open To Flow (2)

Recovery

Length (ft)	Description	Volume (bbl)
60.00	clean oil gravity 40 corrected	0.84
50.00	oil cut mud 25 oil 75 mud	0.70
60.00	heavy oil cut mud 80 oil 15 mud 5 w ater	0.84

Gas Rates

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



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 ATTN: KURT TALBOTT

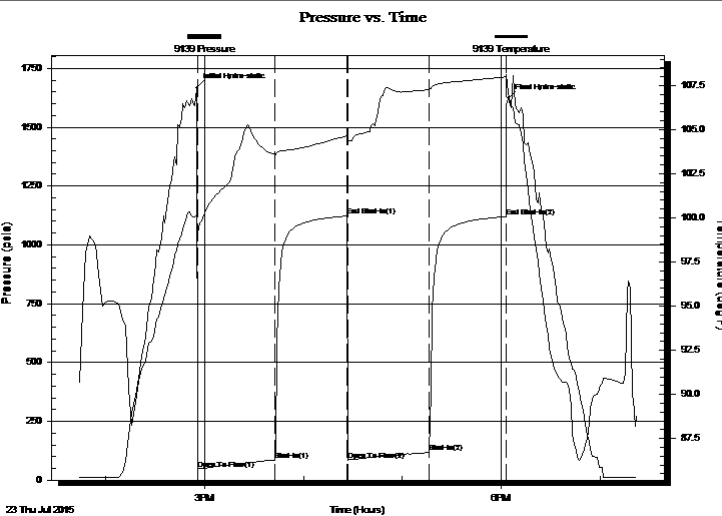
34-16S-12W BARTON
FELTES 1
 Job Ticket: 01047 **DST#: 4**
 Test Start: 2015.07.23 @ 13:43:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3303.00 ft (KB) To 3346.00 ft (KB) (TVD)**
 Total Depth: 3346.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1885.00 ft (KB)
 1880.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 1119.96 psia @ 3341.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.07.23 End Date: 2015.07.23 Last Calib.: 2015.07.23
 Start Time: 13:43:00 End Time: 19:22:30 Time On Btm: 2015.07.23 @ 14:55:30
 Time Off Btm: 2015.07.23 @ 18:04:00

TEST COMMENT: 1ST OPENING 45 MINUTES-WEAK BUILDING BLOW BUILT TO 11 INCHES INTO THE WATER
 1ST SHUT-IN 45 MINUTES-NO BLOW BACK
 2ND OPENING 50 MINUTES-no blow for 3 minutes then w weak building blow built to 8 inches into the water
 2ND SHUT-IN 45 MINUTES-NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1667.12	100.12	Initial Hydro-static
1	47.26	99.14	Open To Flow (1)
47	85.61	103.59	Shut-In(1)
91	1122.47	104.66	End Shut-In(1)
92	86.17	104.34	Open To Flow (2)
141	118.32	107.25	Shut-In(2)
187	1119.96	107.98	End Shut-In(2)
189	1622.99	107.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	clean oil gravity 40 corrected	0.84
50.00	oil cut mud 25 oil 75 mud	0.70
60.00	heavy oil cut mud 80 oil 15 mud 5 w ater	0.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM COMPANY

34-16S-12W BARTON

P.O. BOX 256
CLAFLIN, KANSAS 67525-0256

FELTES 1

Job Ticket: 01047

DST#: 4

ATTN: KURT TALBOTT

Test Start: 2015.07.23 @ 13:43:00

Tool Information

Drill Pipe:	Length: 3293.00 ft	Diameter: 3.80 inches	Volume: 46.19 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:	67000.00 lb
			<u>Total Volume: 46.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3303.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	63.00 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			3288.00	
Hydraulic tool	5.00			3293.00	
Top Packer	5.00			3298.00	
Packer	5.00			3303.00	20.00 Bottom Of Top Packer
Anchor	38.00			3341.00	
Recorder	0.00	9119	Inside	3341.00	
Recorder	0.00	9139	Outside	3341.00	
Bullnose	5.00			3346.00	43.00 Anchor Tool

Total Tool Length: 63.00



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FLUID SUMMARY

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Job Ticket: 01047

DST#: 4

ATTN: KURT TALBOTT

Test Start: 2015.07.23 @ 13:43:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 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: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	clean oil gravity 40 corrected	0.842
50.00	oil cut mud 25 oil 75 mud	0.701
60.00	heavy oil cut mud 80 oil 15 mud 5 w ater	0.842

Total Length: 170.00 ft Total Volume: 2.385 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

