



DRILL STEM TEST REPORT

Prepared For: **MILLER BECKER ENTERPRISES L.L.C.**

100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

ATTN: HERB DIENES

DUMBLER 1-28

28-15S-15W RUSSELL

Start Date: 2015.12.08 @ 04:11:00

End Date: 2015.12.08 @ 00:00:00

Job Ticket #: 01205 DST #: 1

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

Printed: 2015.12.08 @ 22:13:56



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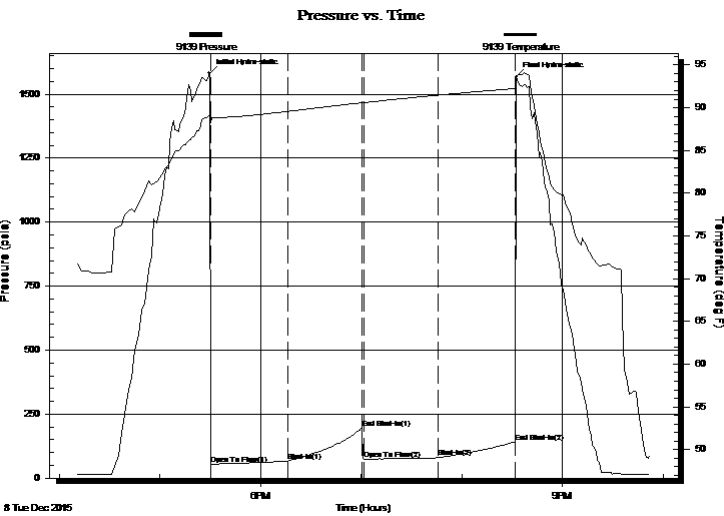
Test Start: 2015.12.08 @ 04:11:00

GENERAL INFORMATION:

Formation: **KANSAS CITY A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:33:00
 Time Test Ended: 00:00:00
 Interval: **3141.00 ft (KB) To 3200.00 ft (KB) (TVD)**
 Total Depth: 3200.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1934.00 ft (KB)
 1924.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 142.03 psia @ 3195.65 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.12.08 End Date: 2015.12.08 Last Calib.: 2015.12.08
 Start Time: 16:10:00 End Time: 21:52:30 Time On Btm: 2015.12.08 @ 17:29:30
 Time Off Btm: 2015.12.08 @ 20:32:30

TEST COMMENT: 1ST OPENING 45 MINUTES WEAK BUILDING BLOW BUILT TO 7 INCHES INTO THE WATER
 1ST SHUT-IN 45 MINUTES NO BLOW BACK
 2ND OPENING 45 MINUTES WEAK BUILDING BLOW BUILT TO 7 1/2 INCHES INTO THE WATER
 2ND SHUT-IN 45 MINUTES NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1581.80	89.22	Initial Hydro-static
1	53.11	88.22	Open To Flow (1)
47	66.69	89.56	Shut-In(1)
91	196.51	90.59	End Shut-In(1)
92	73.25	90.58	Open To Flow (2)
137	79.83	91.46	Shut-In(2)
183	142.03	92.24	End Shut-In(2)
183	1567.34	93.42	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	120 FEET OF GAS IN THE PIPE	0.00
60.00	OIL CUT MUD 20 OIL 80 MUD	0.84

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



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Job Ticket: 01205

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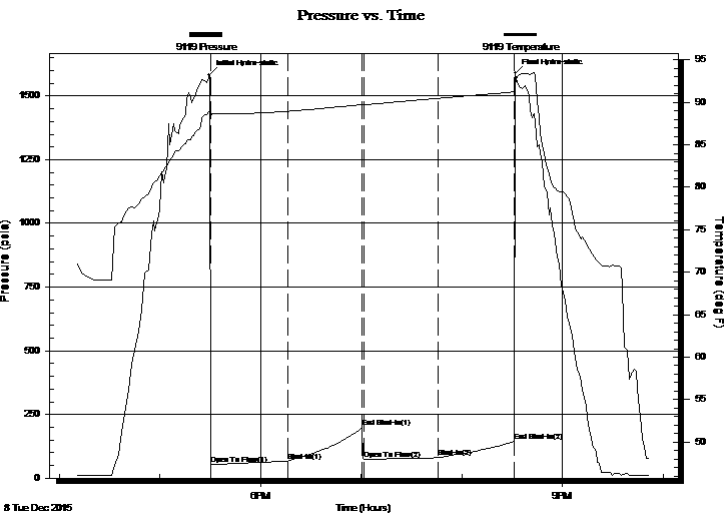
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 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1934.00 ft (KB)
 1924.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 144.25 psia @ 3195.65 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.12.08 End Date: 2015.12.08 Last Calib.: 2015.12.08
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 2ND SHUT-IN 45 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1582.35	88.94	Initial Hydro-static
1	52.77	88.17	Open To Flow (1)
47	67.71	88.94	Shut-In(1)
91	199.41	89.73	End Shut-In(1)
92	72.47	89.71	Open To Flow (2)
137	80.63	90.47	Shut-In(2)
182	144.25	91.22	End Shut-In(2)
183	1589.32	92.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 FEET OF GAS IN THE PIPE	0.00
60.00	OIL CUT MUD 20 OIL 80 MUD	0.84

Gas Rates

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



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TOOL DIAGRAM

MILLER BECKER ENTERPRISES L.L.C.

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DUMBLER 1-28

Job Ticket: 01205

DST#: 1

ATTN: HERB DIENES

Test Start: 2015.12.08 @ 04:11:00

Tool Information

Drill Pipe:	Length: 3146.00 ft	Diameter: 3.80 inches	Volume: 44.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 44.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3141.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.65 ft			
Tool Length:	79.65 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			3126.00	
Hydraulic tool	5.00			3131.00	
Top Packer	5.00			3136.00	
Packer	5.00			3141.00	20.00 Bottom Of Top Packer
Anchor	5.00			3146.00	
Change Over Sub	0.75			3146.75	
Drill Pipe	31.15			3177.90	
Change Over Sub	0.75			3178.65	
Anchor	17.00			3195.65	
Recorder	0.00	9119	Inside	3195.65	
Recorder	0.00	9139	Outside	3195.65	
Bullnose	5.00			3200.65	59.65 Anchor Tool

Total Tool Length: 79.65



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FLUID SUMMARY

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Test Start: 2015.12.08 @ 04:11:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 7500.00 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
0.00	120 FEET OF GAS IN THE PIPE	0.000
60.00	OIL CUT MUD 20 OIL 80 MUD	0.842

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

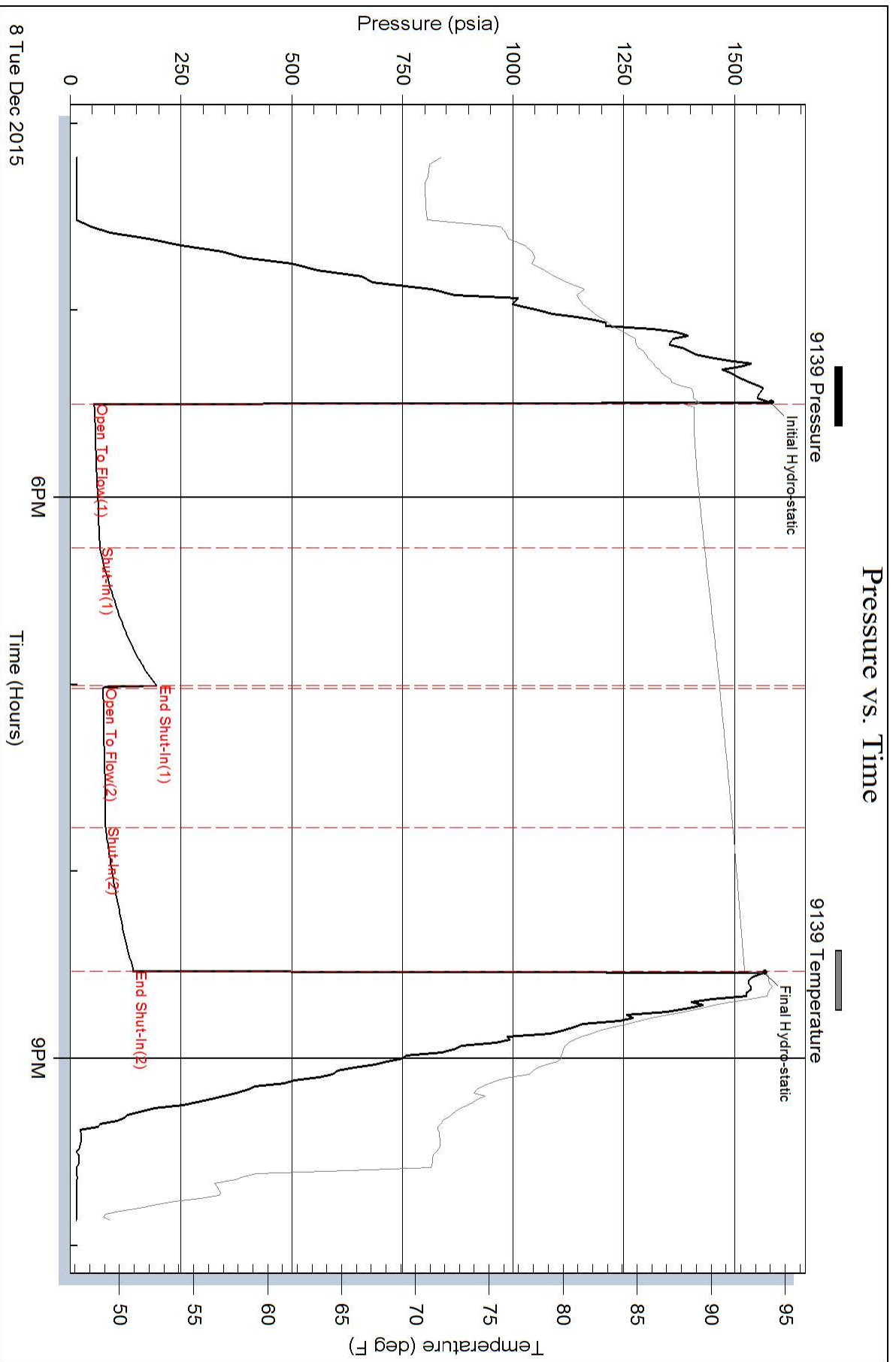
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

