



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: 2015.12.09 @ 01:20:00

End Date: 2015.12.09 @ 17:30:00

Job Ticket #: 01206 DST #: 2

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

Printed: 2015.12.09 @ 17:43:48



DRILL STEM TEST REPORT

MILLER BECKER ENTERPRISES L.L.C.

28-15S-15W RUSSELL

100 SOUTH MAIN STREET
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DUMBLER 1-28

Job Ticket: 01206

DST#: 2

ATTN: HERB DIENES

Test Start: 2015.12.09 @ 01:20:00

GENERAL INFORMATION:

Formation: **KANSAS CITY H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:34:00

Time Test Ended: 17:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1-70

Interval: 3298.00 ft (KB) To 3365.00 ft (KB) (TVD)

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9119

Inside

Press@RunDepth: 568.33 psia @ 3360.14 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.12.09

End Date:

2015.12.09

Last Calib.:

2015.12.09

Start Time: 13:20:00

End Time:

17:26:30

Time On Btm:

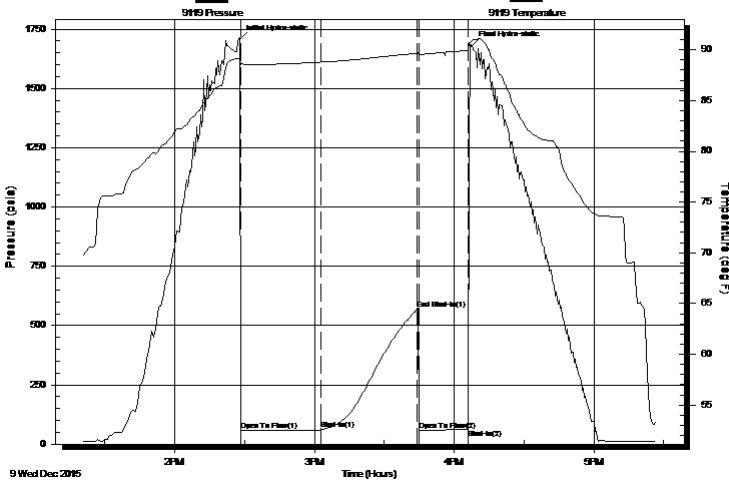
2015.12.09 @ 14:28:00

Time Off Btm:

2015.12.09 @ 16:07:30

TEST COMMENT: 1ST OPENING 30 MINUTES WEAK SURFACE BLOW FOR 6 MINUTES AND DIED
1ST SHUT-IN 45 MINUTES NO BLOW BACK
2ND OPENING 20 MINUTES NO BLOW FLUSHED TOOL GOOD SURGE NO HELP CAME OUT OF THE HOLE NO FINAL SHUT-IN TAKEN

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1707.08	89.04	Initial Hydro-static
1	57.31	88.55	Open To Flow (1)
35	61.03	88.79	Shut-In(1)
76	568.33	89.67	End Shut-In(1)
77	58.79	89.53	Open To Flow (2)
98	61.14	89.95	Shut-In(2)
100	1679.11	90.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	drilling mud	0.11

Gas Rates

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



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100 SOUTH MAIN STREET
RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01206

DST#: 2

ATTN: HERB DIENES

Test Start: 2015.12.09 @ 01:20:00

GENERAL INFORMATION:

Formation: **KANSAS CITY H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:34:00

Time Test Ended: 17:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1-70

Interval: **3298.00 ft (KB) To 3365.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9139 Outside

Press@RunDepth: 571.73 psia @ 3360.14 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.12.09

End Date: 2015.12.09

Last Calib.: 2015.12.09

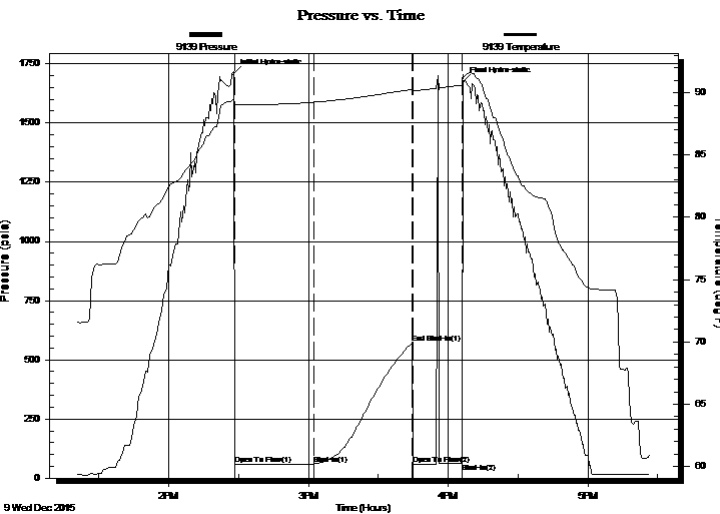
Start Time: 13:20:00

End Time: 17:26:30

Time On Btm: 2015.12.09 @ 14:28:00

Time Off Btm: 2015.12.09 @ 16:06:30

TEST COMMENT: 1ST OPENING 30 MINUTES WEAK SURFACE BLOW FOR 6 MINUTES AND DIED
1ST SHUT-IN 45 MINUTES NO BLOW BACK
2ND OPENING 20 MINUTES NO BLOW FLUSHED TOOL GOOD SURGE NO HELP CAME OUT OF THE HOLE NO FINAL SHUT-IN TAKEN



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1709.00	89.47	Initial Hydro-static
1	58.88	89.02	Open To Flow (1)
35	59.67	89.25	Shut-In(1)
77	571.73	90.26	End Shut-In(1)
77	59.83	90.14	Open To Flow (2)
99	61.01	90.62	Shut-In(2)
99	1673.53	91.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	drilling mud	0.11

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

MILLER BECKER ENTERPRISES L.L.C.

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RUSSELL, KANSAS 67665

DUMBLER 1-28

Job Ticket: 01206

DST#: 2

ATTN: HERB DIENES

Test Start: 2015.12.09 @ 01:20:00

Tool Information

Drill Pipe:	Length: 3303.00 ft	Diameter: 3.80 inches	Volume: 46.33 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: 50000.00 lb
			<u>Total Volume: 46.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3298.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.14 ft			
Tool Length:	87.14 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			3283.00	
Hydraulic tool	5.00			3288.00	
Top Packer	5.00			3293.00	
Packer	5.00			3298.00	20.00 Bottom Of Top Packer
Anchor	5.00			3303.00	
Change Over Sub	0.75			3303.75	
Drill Pipe	30.64			3334.39	
Change Over Sub	0.75			3335.14	
Anchor	25.00			3360.14	
Recorder	0.00	9119	Inside	3360.14	
Recorder	0.00	9139	Outside	3360.14	
Bullnose	5.00			3365.14	67.14 Anchor Tool

Total Tool Length: 87.14



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FLUID SUMMARY

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Test Start: 2015.12.09 @ 01:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.20 in³

Resistivity: ohm.m

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	drilling mud	0.112

Total Length: 8.00 ft Total Volume: 0.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

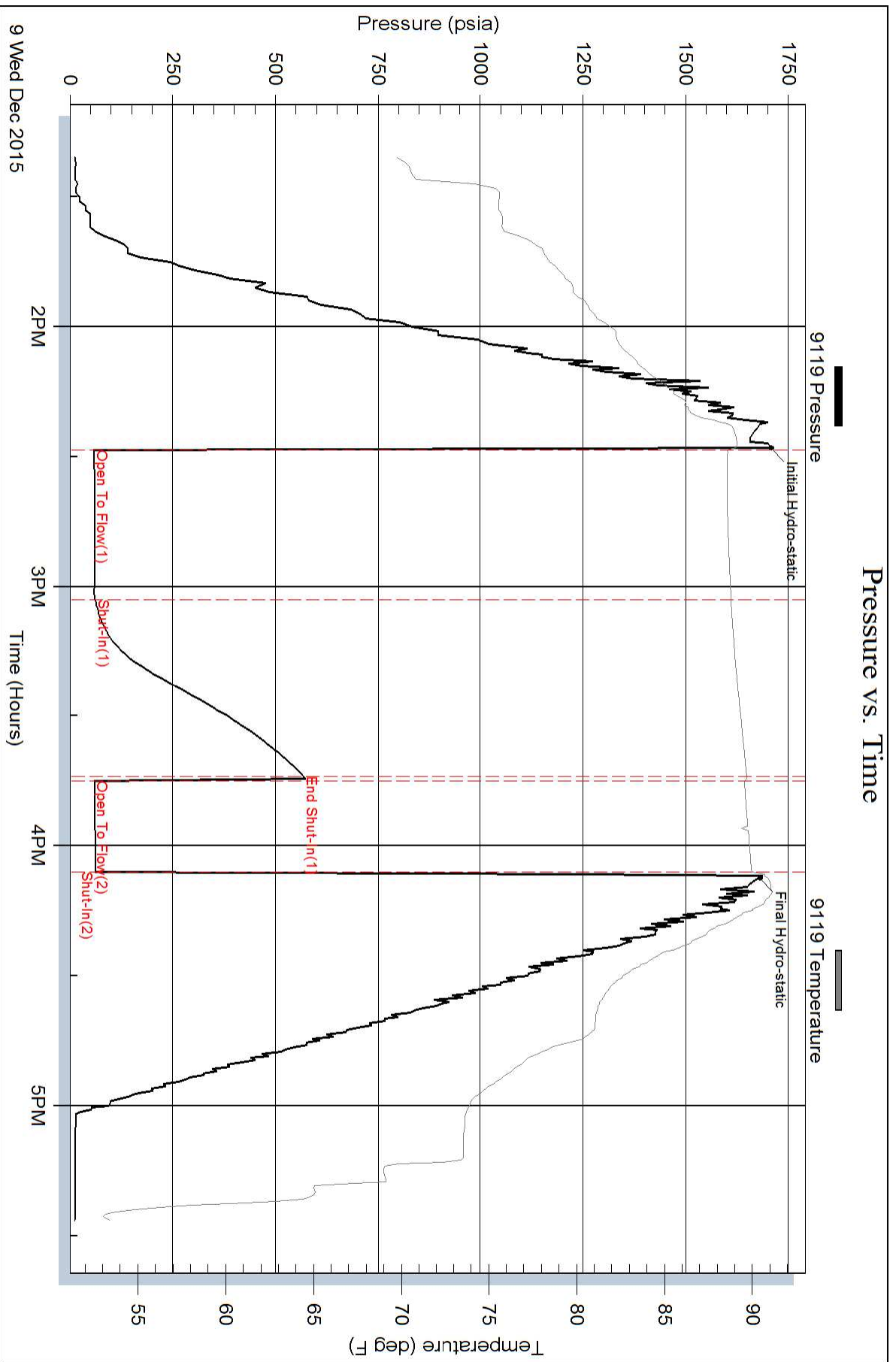
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

