



## DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352  
Russell KS 67665

ATTN: Austin Klaus

### **McCall B #1**

### **16-9s-22w Graham,KS**

Start Date: 2015.02.01 @ 11:55:00

End Date: 2015.02.01 @ 17:15:00

Job Ticket #: 53842                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.02.05 @ 09:21:37





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53842

**DST#: 1**

ATTN: Austin Klaus

Test Start: 2015.02.01 @ 11:55:00

## Tool Information

Drill Pipe:	Length: 3492.00 ft	Diameter: 3.80 inches	Volume: 48.98 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	33000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3616.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3601.00	
Hydraulic tool	5.00			3606.00	
Packer	5.00			3611.00	20.00 Bottom Of Top Packer
Packer	5.00			3616.00	
Stubb	1.00			3617.00	
Recorder	0.00	8736	Inside	3617.00	
Recorder	0.00	8957	Outside	3617.00	
Perforations	1.00			3618.00	
Change Over Sub	1.00			3619.00	
Drill Pipe	31.00			3650.00	
Change Over Sub	1.00			3651.00	
Bullnose	3.00			3654.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53842

**DST#: 1**

ATTN: Austin Klaus

Test Start: 2015.02.01 @ 11:55:00

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	Mud	4.219

Total Length: 380.00 ft      Total Volume: 4.219 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Packer Failure

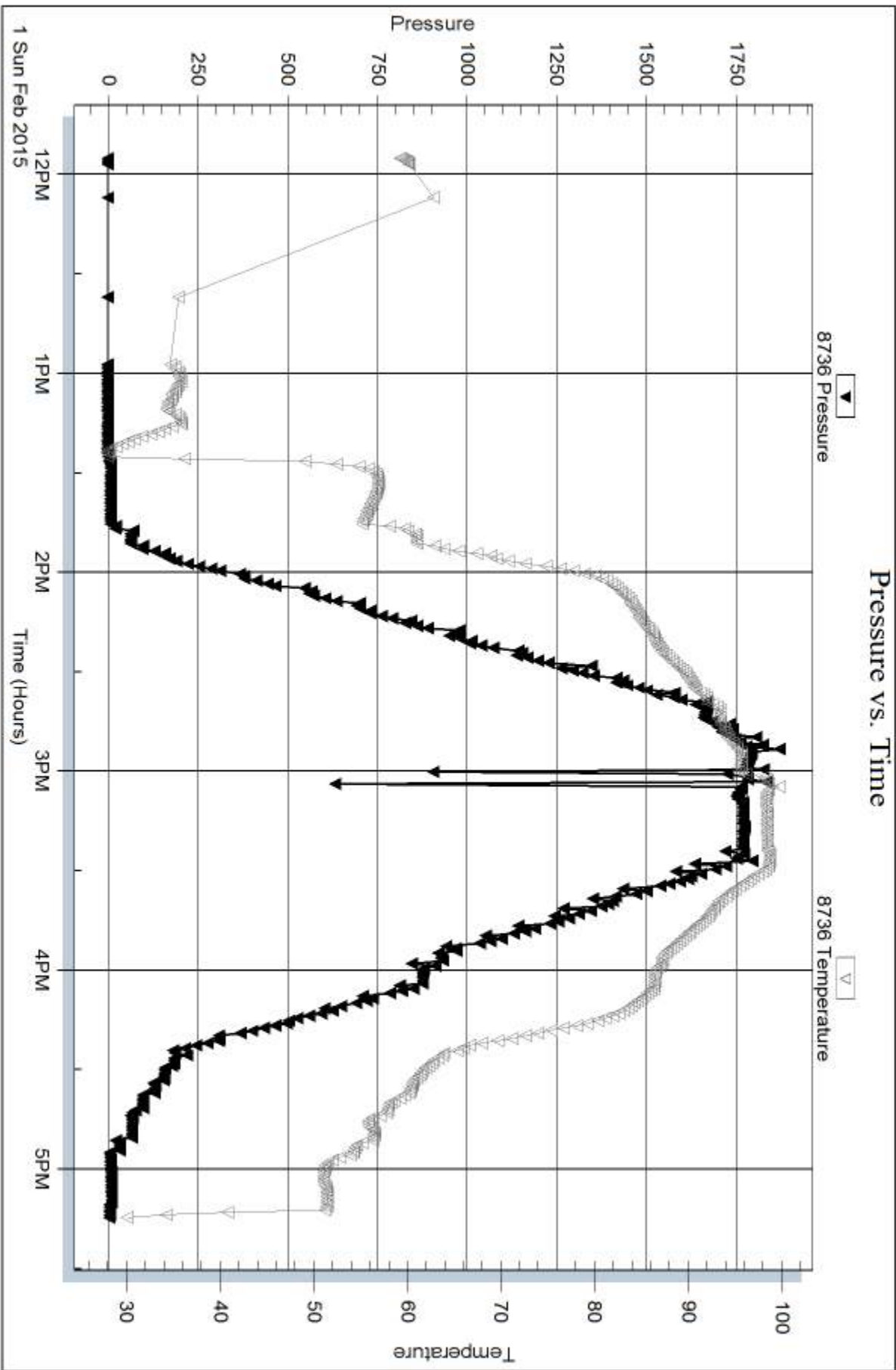
Serial #: 8736

Inside

John O Farmer

McCall B #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352  
Russell KS 67665

ATTN: Austin Klaus

### **McCall B #1**

### **16-9s-22w Graham,KS**

Start Date: 2015.02.01 @ 17:40:00

End Date: 2015.02.01 @ 21:59:45

Job Ticket #: 53843                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.02.05 @ 09:21:15

John O Farmer  
16-9s-22w Graham,KS  
McCall B #1  
DST # 2  
KC"C-D"  
2015.02.01









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53843

**DST#: 2**

ATTN: Austin Klaus

Test Start: 2015.02.01 @ 17:40:00

## Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	33000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3608.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3593.00	
Hydraulic tool	5.00			3598.00	
Packer	5.00			3603.00	20.00 Bottom Of Top Packer
Packer	5.00			3608.00	
Stubb	1.00			3609.00	
Recorder	0.00	8736	Inside	3609.00	
Recorder	0.00	8957	Outside	3609.00	
Perforations	9.00			3618.00	
Change Over Sub	1.00			3619.00	
Drill Pipe	31.00			3650.00	
Change Over Sub	1.00			3651.00	
Bullnose	3.00			3654.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53843

**DST#: 2**

ATTN: Austin Klaus

Test Start: 2015.02.01 @ 17:40:00

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00		1.554

Total Length: 190.00 ft

Total Volume: 1.554 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

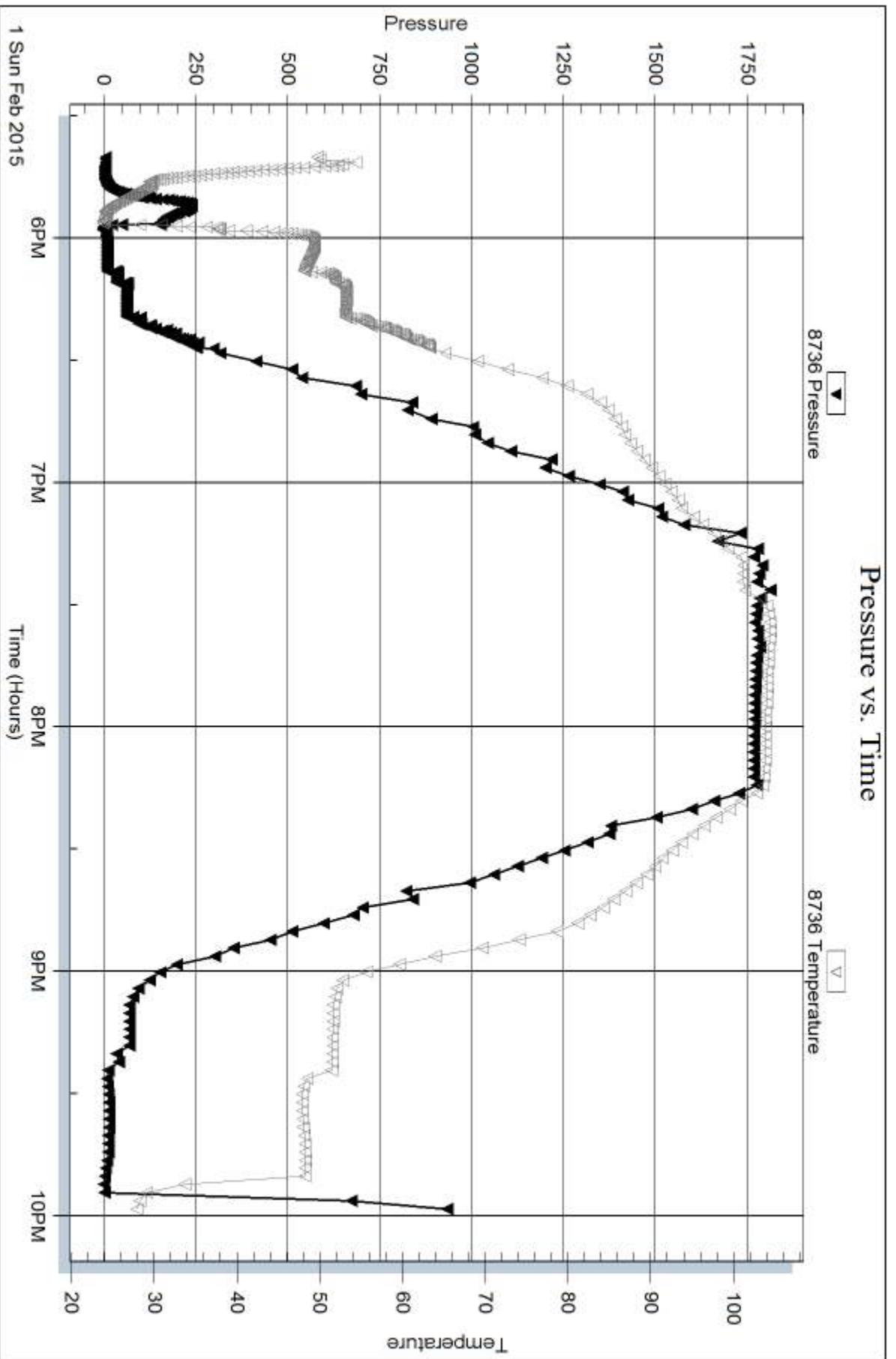
Serial #: 8736

Inside

John O Farmer

McCall B #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53843

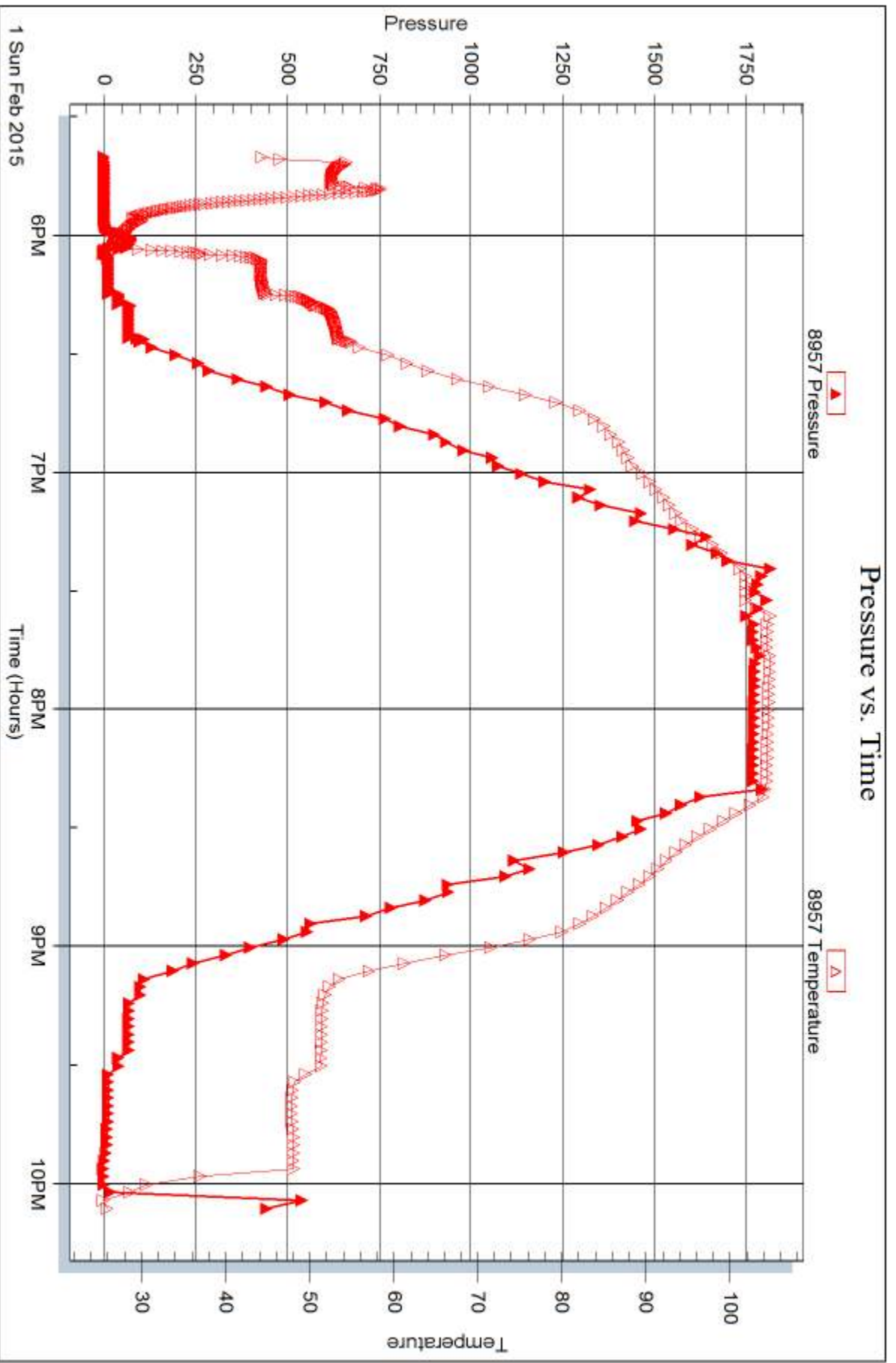
Printed: 2015.02.05 @ 09:21:16

Serial #: 8957

Outside John O Farmer

McCall B #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53843

Printed: 2015.02.05 @ 09:21:16



## DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352  
Russell KS 67665

ATTN: Austin Klaus

### **McCall B #1**

### **16-9s-22w Graham,KS**

Start Date: 2015.02.02 @ 07:40:00

End Date: 2015.02.02 @ 13:37:15

Job Ticket #: 53844                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.02.05 @ 09:20:50

John O Farmer  
16-9s-22w Graham,KS  
McCall B #1  
DST # 3  
KC "F"  
2015.02.02



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53844

**DST#: 3**

ATTN: Austin Klaus

Test Start: 2015.02.02 @ 07:40:00

## GENERAL INFORMATION:

Formation: **KC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:54:15

Time Test Ended: 13:37:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3665.00 ft (KB) To 3682.00 ft (KB) (TVD)**

Reference Elevations: 2333.00 ft (KB)

Total Depth: 3682.00 ft (KB) (TVD)

2328.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8736**

**Inside**

Press@RunDepth: 136.61 psig @ 3666.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.02

End Date:

2015.02.02

Last Calib.:

2015.02.02

Start Time: 07:40:05

End Time:

13:37:14

Time On Btm:

2015.02.02 @ 09:53:15

Time Off Btm:

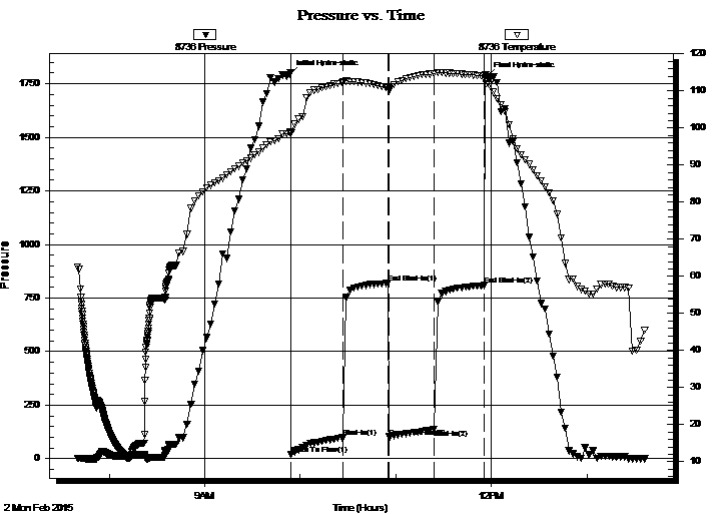
2015.02.02 @ 11:57:00

TEST COMMENT: IF-BOB in 29 min

ISI-No blow

FF-8in blow

FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.92	98.81	Initial Hydro-static
1	20.80	98.72	Open To Flow (1)
34	98.61	112.39	Shut-In(1)
62	818.59	110.80	End Shut-In(1)
63	102.06	110.47	Open To Flow (2)
91	136.61	114.74	Shut-In(2)
123	808.72	114.08	End Shut-In(2)
124	1785.30	112.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	VSMCW 5%M 95%W	0.12

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53844

**DST#: 3**

ATTN: Austin Klaus

Test Start: 2015.02.02 @ 07:40:00

## Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	35000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	33000.00 lb
Drill Pipe Above KB:	29.00 ft			Final	34000.00 lb
Depth to Top Packer:	3665.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3650.00	
Hydraulic tool	5.00			3655.00	
Packer	5.00			3660.00	20.00 Bottom Of Top Packer
Packer	5.00			3665.00	
Packer - Shale	0.00			3665.00	
Stubb	1.00			3666.00	
Recorder	0.00	8736	Inside	3666.00	
Recorder	0.00	8957	Outside	3666.00	
Perforations	13.00			3679.00	
Bullnose	3.00			3682.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>37.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53844

**DST#: 3**

ATTN: Austin Klaus

Test Start: 2015.02.02 @ 07:40:00

## 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:

43000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	VSMCW 5%M 95%W	0.123

Total Length: 25.00 ft      Total Volume: 0.123 bbl

Num Fluid Samples: 0

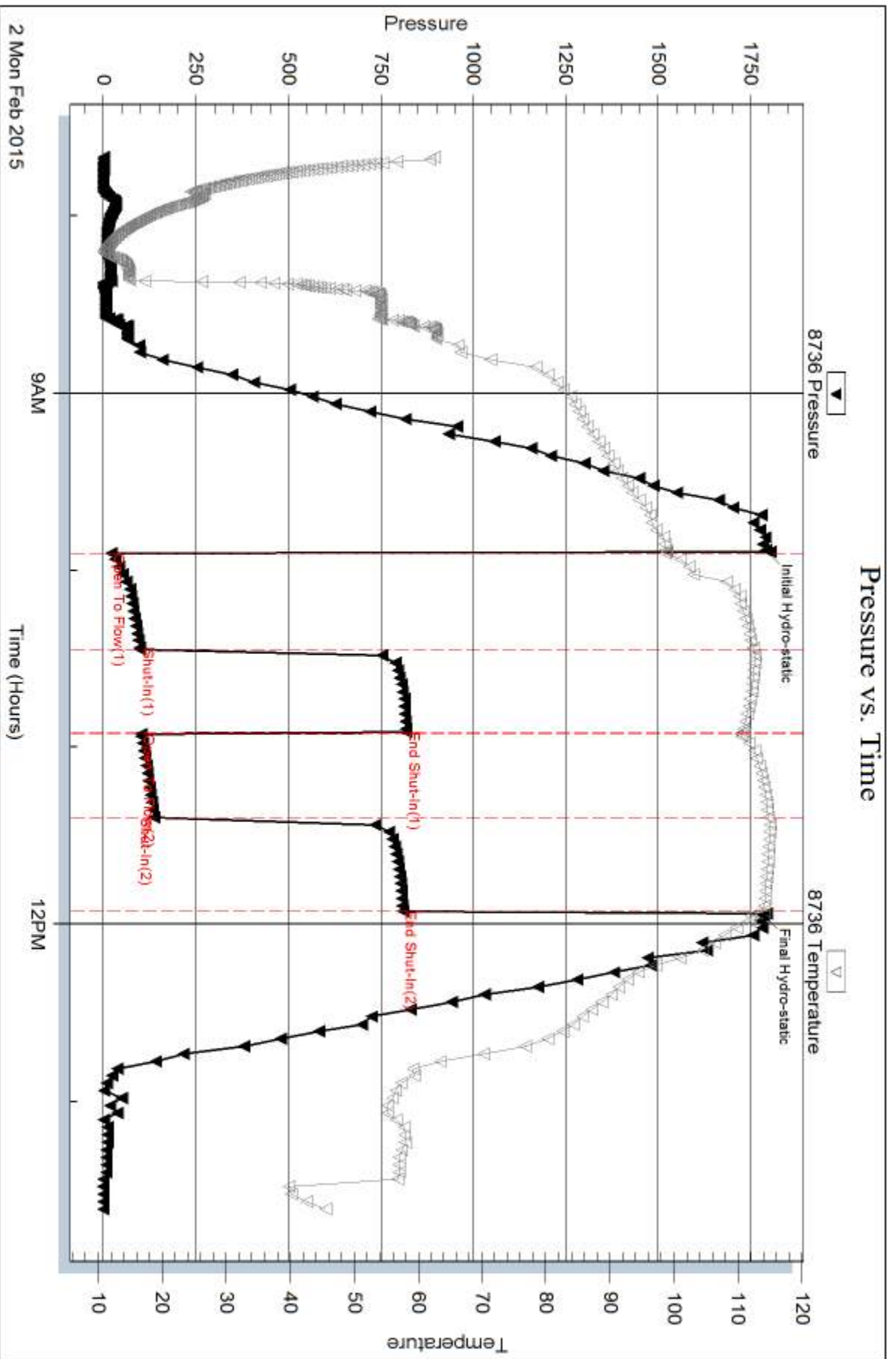
Num Gas Bombs: 0

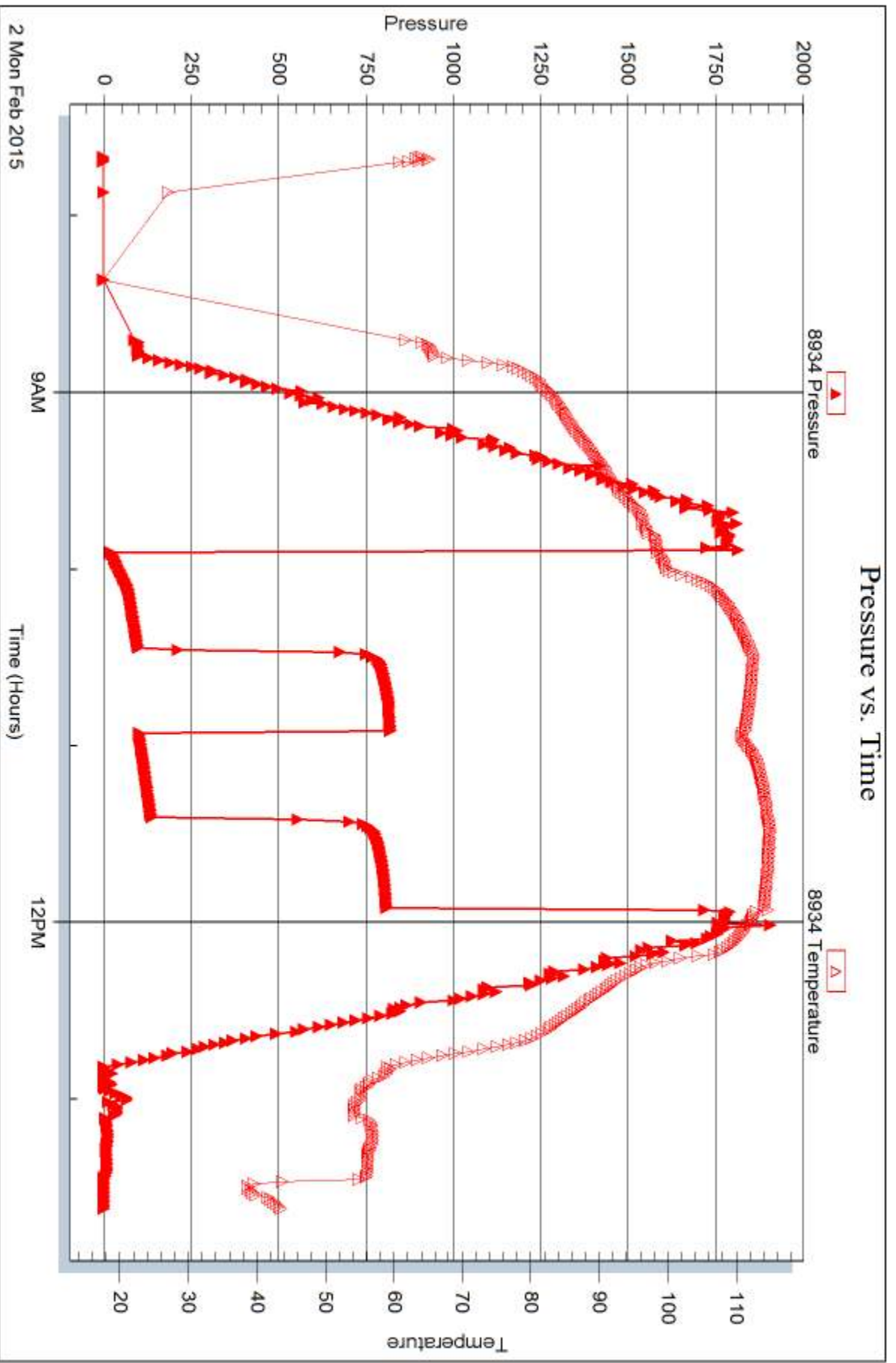
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352  
Russell KS 67665

ATTN: Austin Klaus

### **McCall B #1**

### **16-9s-22w Graham,KS**

Start Date: 2015.02.03 @ 03:10:00

End Date: 2015.02.03 @ 09:38:15

Job Ticket #: 53845                      DST #: 4

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.02.05 @ 09:20:20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53845

**DST#: 4**

ATTN: Austin Klaus

Test Start: 2015.02.03 @ 03:10:00

## GENERAL INFORMATION:

Formation: **KC"H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:00:15

Time Test Ended: 09:38:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3708.00 ft (KB) To 3806.00 ft (KB) (TVD)**

Reference Elevations: 2333.00 ft (KB)

Total Depth: 3806.00 ft (KB) (TVD)

2328.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8736**

**Inside**

Press@RunDepth: 57.61 psig @ 3709.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.03

End Date:

2015.02.03

Last Calib.:

2015.02.03

Start Time: 03:10:05

End Time:

09:38:14

Time On Btm:

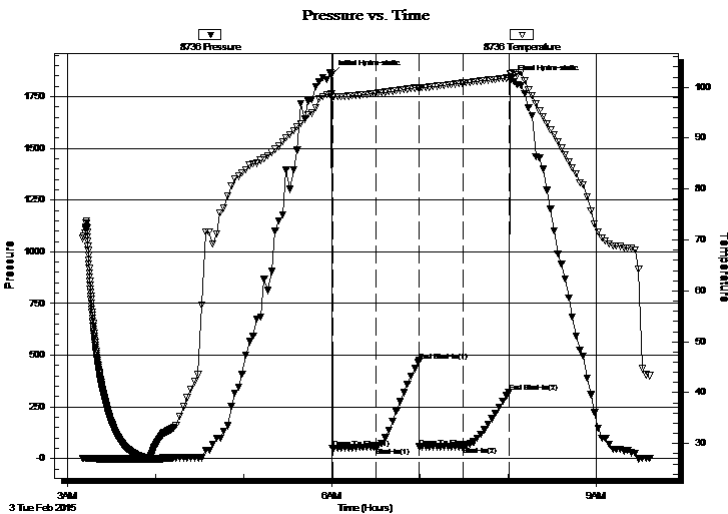
2015.02.03 @ 05:59:30

Time Off Btm:

2015.02.03 @ 08:02:00

TEST COMMENT: IF-1 3/4" blow  
IS-No blow  
FF-Vey w eak surace blow  
FS-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.15	98.63	Initial Hydro-static
1	50.52	98.19	Open To Flow (1)
31	54.00	98.82	Shut-In(1)
60	473.51	99.95	End Shut-In(1)
60	56.13	99.79	Open To Flow (2)
90	57.61	100.82	Shut-In(2)
121	320.34	101.88	End Shut-In(2)
123	1834.69	102.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.07

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53845

**DST#: 4**

ATTN: Austin Klaus

Test Start: 2015.02.03 @ 03:10:00

## Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3708.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3693.00	
Hydraulic tool	5.00			3698.00	
Packer	5.00			3703.00	20.00 Bottom Of Top Packer
Packer	5.00			3708.00	
Stubb	1.00			3709.00	
Recorder	0.00	8736	Inside	3709.00	
Recorder	0.00	8934	Outside	3709.00	
Perforations	5.00			3714.00	
Change Over Sub	1.00			3715.00	
Drill Pipe	64.00			3779.00	
Change Over Sub	1.00			3780.00	
Perforations	23.00			3803.00	
Bullnose	3.00			3806.00	98.00 Bottom Packers & Anchor

**Total Tool Length: 118.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53845

**DST#: 4**

ATTN: Austin Klaus

Test Start: 2015.02.03 @ 03:10:00

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

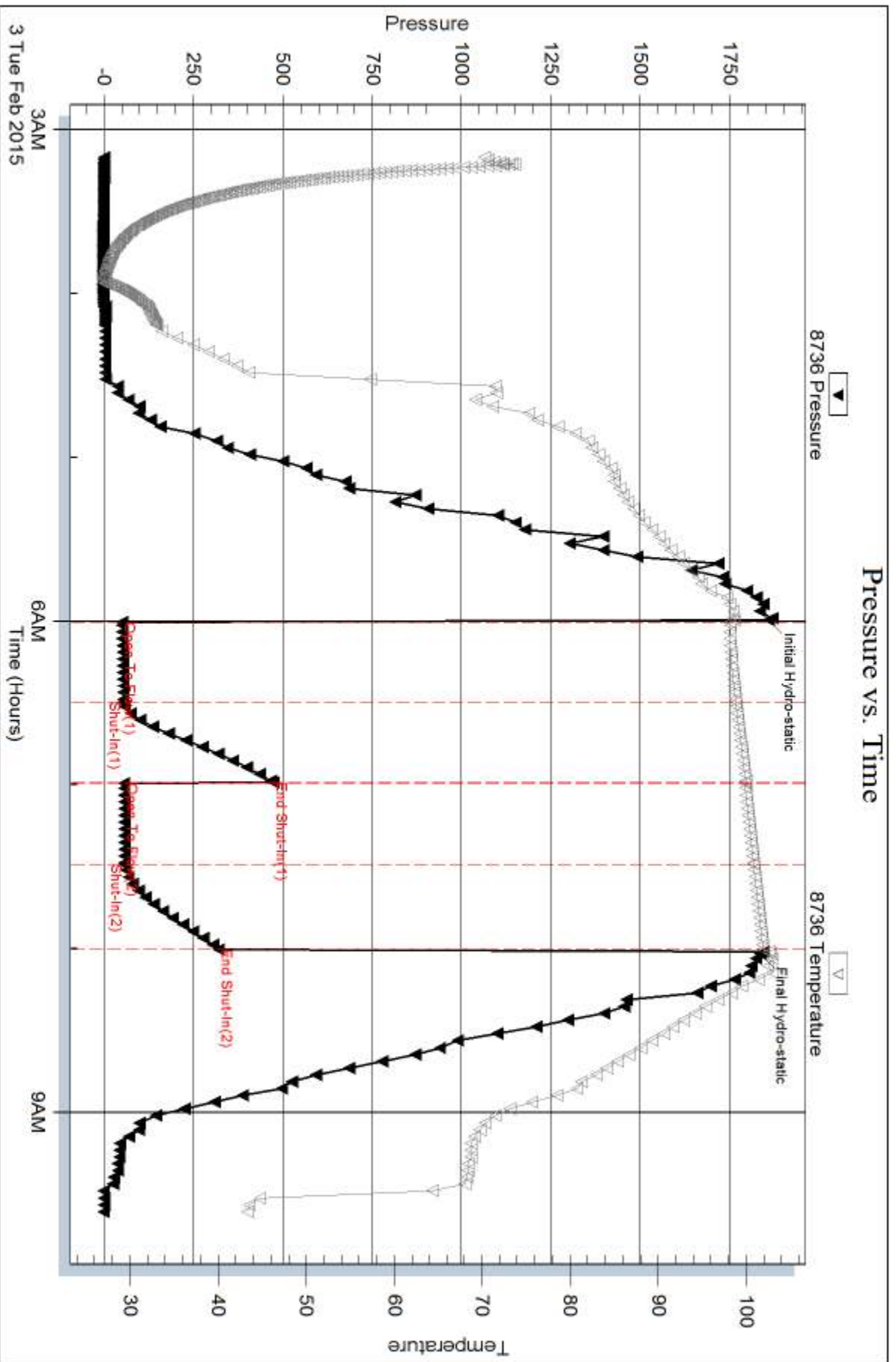
Laboratory Name:

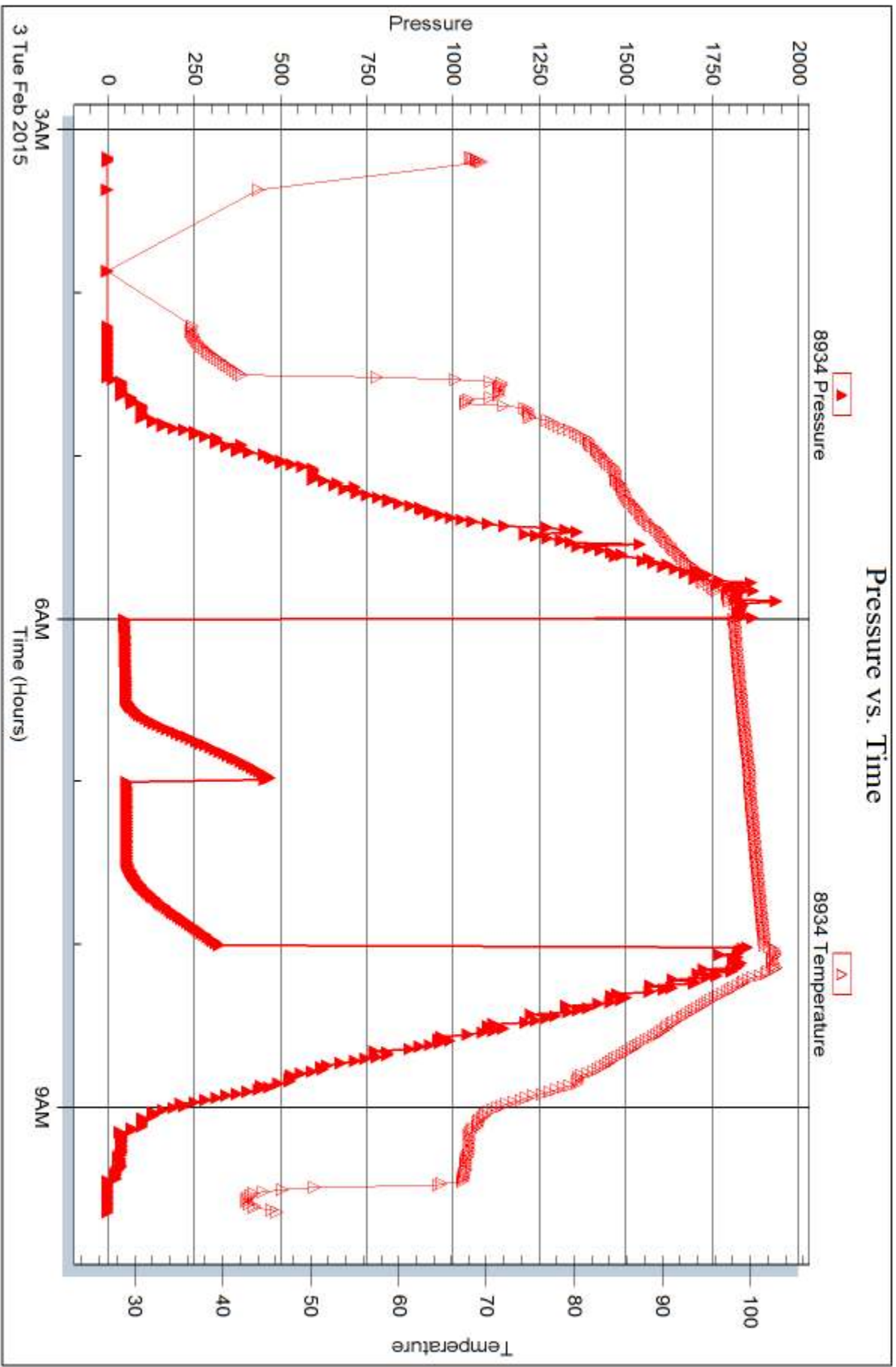
Laboratory Location:

Recovery Comments:



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352  
Russell KS 67665

ATTN: Austin Klaus

### **McCall B #1**

### **16-9s-22w Graham,KS**

Start Date: 2015.02.04 @ 06:45:00

End Date: 2015.02.04 @ 13:26:45

Job Ticket #: 53846                      DST #: 5

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.02.05 @ 09:19:32

John O Farmer  
16-9s-22w Graham,KS  
McCall B #1  
DST # 5  
Arbuckle  
2015.02.04



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53846

**DST#: 5**

ATTN: Austin Klaus

Test Start: 2015.02.04 @ 06:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:14:00

Time Test Ended: 13:26:45

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3922.00 ft (KB) To 3980.00 ft (KB) (TVD)**

Reference Elevations: 2333.00 ft (KB)

Total Depth: 4010.00 ft (KB) (TVD)

2328.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8736 Outside**

Press@RunDepth: 739.54 psig @ 3923.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.04

End Date:

2015.02.04

Last Calib.:

2015.02.04

Start Time: 06:45:05

End Time:

13:26:44

Time On Btm:

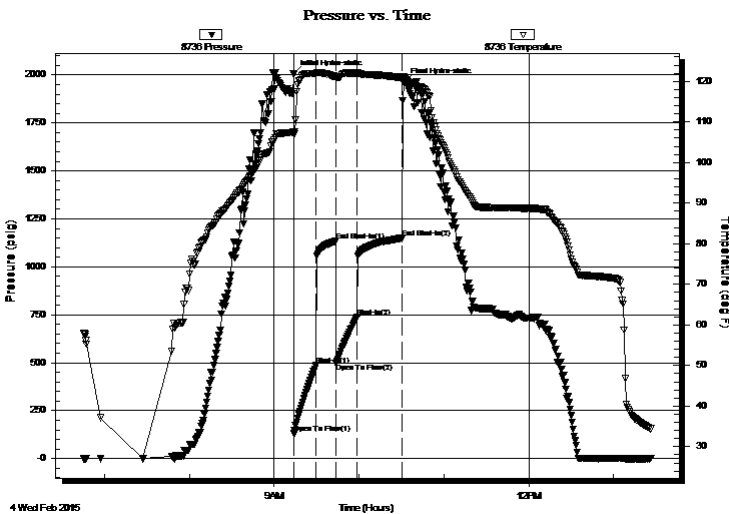
2015.02.04 @ 09:13:30

Time Off Btm:

2015.02.04 @ 10:31:30

**TEST COMMENT:** IF-BOB in 1 1/2 min  
IS-Very weak surface blow  
FF-BoB in 1 1/2 min  
FS-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.59	107.66	Initial Hydro-static
1	129.59	106.99	Open To Flow (1)
16	485.91	121.95	Shut-In(1)
30	1134.77	121.14	End Shut-In(1)
31	497.67	120.84	Open To Flow (2)
46	739.54	121.93	Shut-In(2)
77	1149.28	120.86	End Shut-In(2)
78	1961.19	121.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1325.00	MCW 30%M 70%W	17.47

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53846

**DST#: 5**

ATTN: Austin Klaus

Test Start: 2015.02.04 @ 06:45:00

## Tool Information

Drill Pipe:	Length: 3806.00 ft	Diameter: 3.80 inches	Volume: 53.39 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3922.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	3980.00 ft			
Interval between Packers:	58.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	4	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3907.00	
Hydraulic tool	5.00			3912.00	
Packer	5.00			3917.00	20.00 Bottom Of Top Packer
Packer	5.00			3922.00	
Packer - Shale	0.00			3922.00	
Stubb	1.00			3923.00	
Recorder	0.00	8934	Inside	3923.00	
Recorder	0.00	8736	Outside	3923.00	
Perforations	15.00			3938.00	
Change Over Sub	1.00			3939.00	
Drill Pipe	31.00			3970.00	
Change Over Sub	1.00			3971.00	
Perforations	5.00			3976.00	
Blank Off Sub	4.00			3980.00	58.00 Tool Interval
Packer	5.00			3985.00	
Blank Spacing	5.00			3990.00	
Perforations	20.00			4010.00	
Recorder	0.00	8957	Below	4010.00	
Bullnose	3.00			4013.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 111.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer

**16-9s-22w Graham,KS**

PO Box 352  
Russell KS 67665

**McCall B #1**

Job Ticket: 53846

**DST#: 5**

ATTN: Austin Klaus

Test Start: 2015.02.04 @ 06:45:00

## 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:

25000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1325.00	MCW 30%M 70%W	17.475

Total Length: 1325.00 ft      Total Volume: 17.475 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

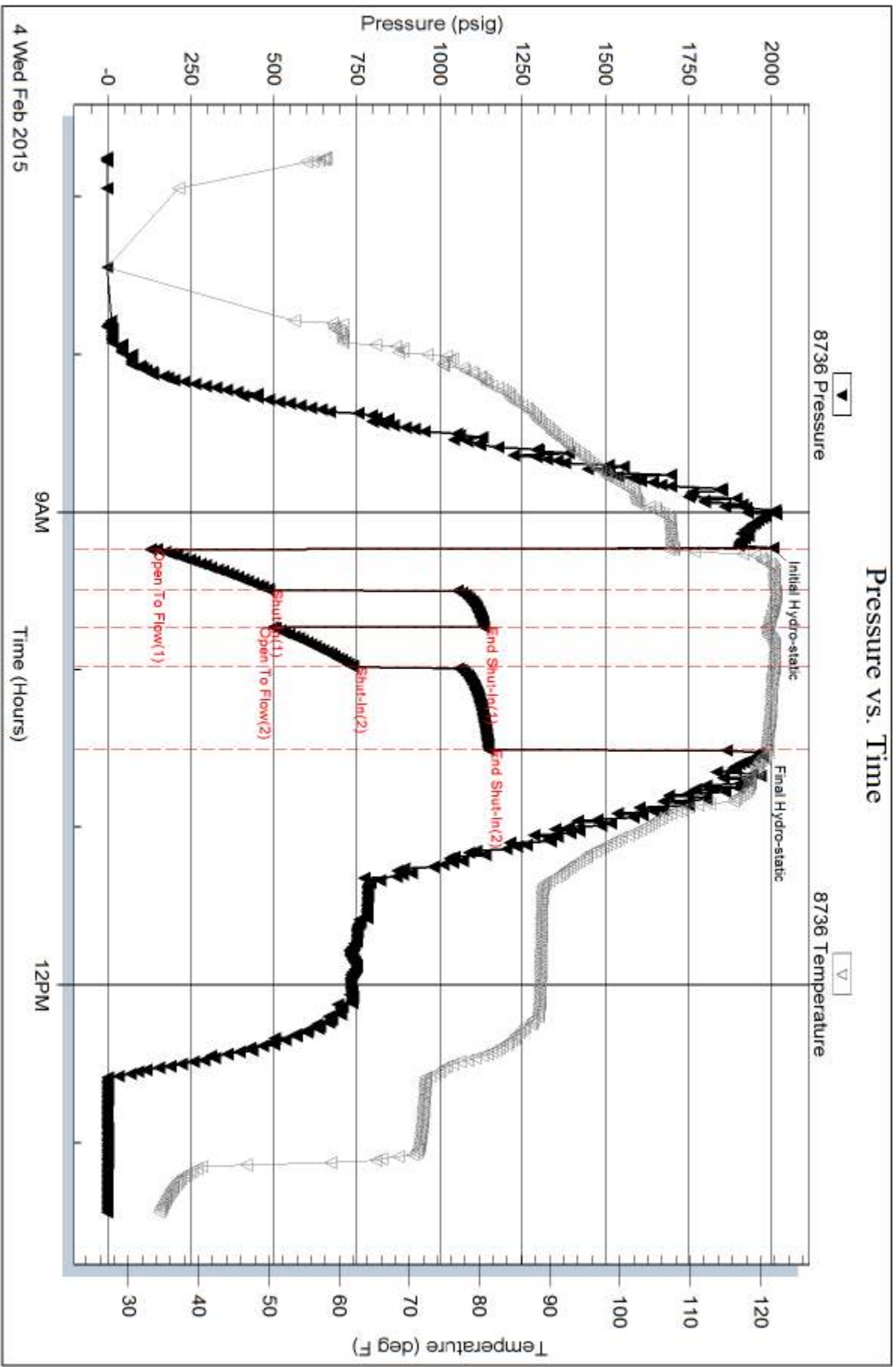
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





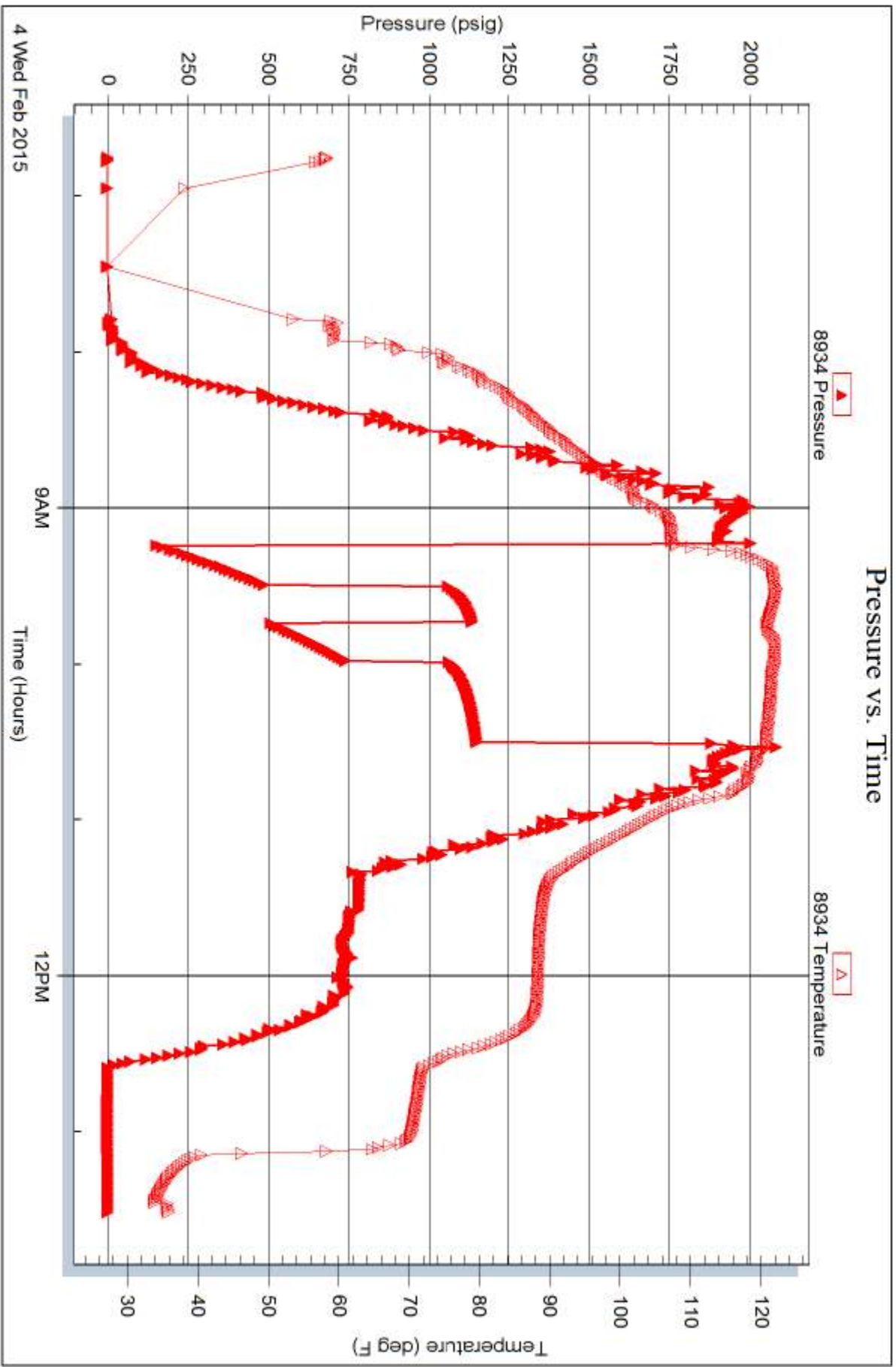
Serial #: 8934

Inside

John O Farmer

McCall B #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 53846

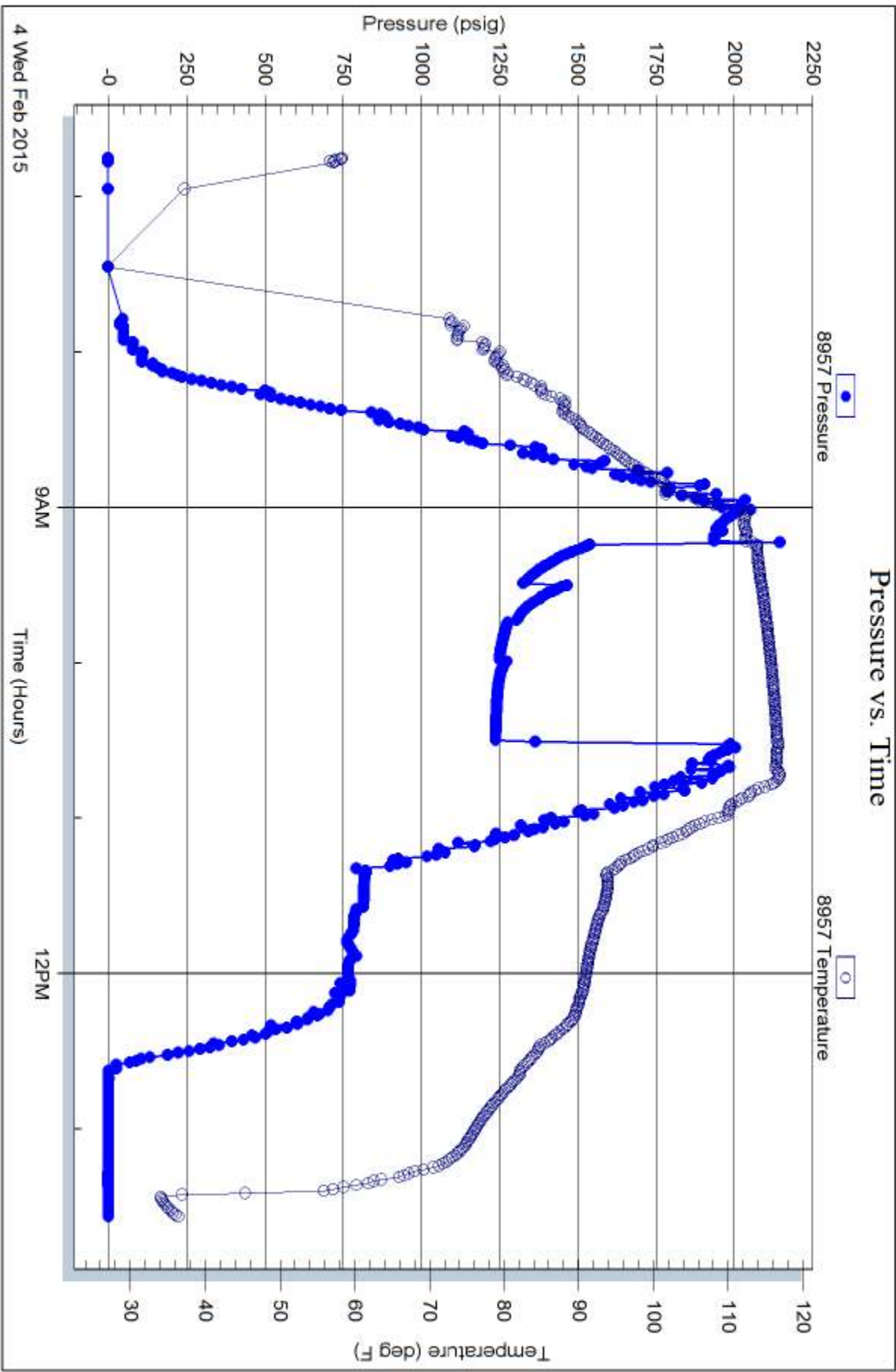
Printed: 2015.02.05 @ 09:19:34

Serial #: 8957

Below (Straddled) Farmer

McCall B #1

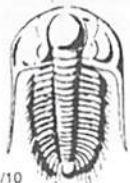
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 53846

Printed: 2015.02.05 @ 09:19:34



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53842

Well Name & No. John O. Farmer, Inc. McColl B#1 Test No. 1 Date 2-1-15  
 Company John O. Farmer, Inc. Elevation 2328 KB 2333 GL  
 Address PO Box 352 Russell KS 67665  
 Co. Rep / Geo. Austin Klaus Rig WW #6  
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3616-3654 Zone Tested KC<sup>1</sup> C-D  
 Anchor Length 38 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.9  
 Top Packer Depth 3611 Drill Collars Run \_\_\_\_\_ Vis 61  
 Bottom Packer Depth 3616 Wt. Pipe Run — WL 7.2  
 Total Depth 3654 Chlorides 1,300 ppm System LCM 1  
 Blow Description IF - packer failure

Rec	Feet of	%gas	%oil	%water	%mud
<u>380</u>	<u>Mad</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 380 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

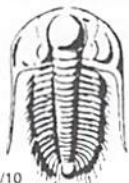
(A) Initial Hydrostatic  Test 850 T-On Location 11:15  
 (B) First Initial Flow  Jars \_\_\_\_\_ T-Started 11:55  
 (C) First Final Flow  Safety Joint \_\_\_\_\_ T-Open 15:00  
 (D) Initial Shut-In  Circ Sub \_\_\_\_\_ T-Pulled 17:15  
 (E) Second Initial Flow  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow  Mileage 110-7 110 Comments \_\_\_\_\_  
 (G) Final Shut-In  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  
 Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_

Sub Total 960  
 Total 960  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Beth D...

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53843

4/10

Well Name & No. McLell B #1 Test No. 2 Date 2-1-15  
 Company John O Farmer, Inc. Elevation 2328 KB 2333 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Austin Klaus Rig WW # 6  
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3608-3654 Zone Tested KC" C-D "  
 Anchor Length 46 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.9  
 Top Packer Depth 3603 Drill Collars Run 122 Vis 61  
 Bottom Packer Depth 3608 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 3654 Chlorides 1,300 ppm System LCM 1  
 Blow Description IF - packer failure

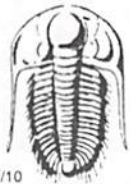
Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 850 T-On Location 17:30  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 17:30  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 19:30  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 22:00  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 22:00  
 (F) Second Final Flow \_\_\_\_\_  Mileage 110 RT Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 850  
 Final Flow \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 850

Approved By \_\_\_\_\_ Our Representative Burt D...

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53844

Well Name & No. McCall B#1 Test No. 3 Date 2-2-10  
 Company John O Farmer, Inc. Elevation 2328 KB 2833 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Austin Klaus Rig Ww #6  
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State Ks

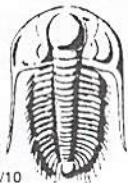
Interval Tested 3665 - 3682 Zone Tested KC 11' "  
 Anchor Length 17 Drill Pipe Run \_\_\_\_\_ Mud Wt. \_\_\_\_\_  
 Top Packer Depth 3660 Drill Collars Run 122 Vis \_\_\_\_\_  
 Bottom Packer Depth 3665 Wt. Pipe Run \_\_\_\_\_ WL \_\_\_\_\_  
 Total Depth 3682 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_  
 Blow Description IF - BOB in 29 min  
FSI - No blow  
FP - 8 in blow  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>vs mcn</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 250 BHT 114 Gravity \_\_\_\_\_ API RW .35 @ 35 °F Chlorides 43000 ppm  
 (A) Initial Hydrostatic 1,792  Test 1050 T-On Location 7:35  
 (B) First Initial Flow 21  Jars \_\_\_\_\_ T-Started 7:40  
 (C) First Final Flow 99  Safety Joint \_\_\_\_\_ T-Open 9:55  
 (D) Initial Shut-In 819  Circ Sub \_\_\_\_\_ T-Pulled 11:55  
 (E) Second Initial Flow 102  Hourly Standby \_\_\_\_\_ T-Out 13:40  
 (F) Second Final Flow 137  Mileage 110 Comments \_\_\_\_\_  
 (G) Final Shut-In 809  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,785  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1410  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1410

Approved By \_\_\_\_\_ Our Representative Burt

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53845

Well Name & No. McCall B #1 Test No. 4 Date 2-3-15  
 Company John O Farmer, Inc. Elevation 2328 KB 2333 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Austin Klaus Rig Ww #6  
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3708-3806 Zone Tested Kc "H-K"  
 Anchor Length 98 Drill Pipe Run \_\_\_\_\_ Mud Wt. \_\_\_\_\_  
 Top Packer Depth 3703 Drill Collars Run 122 Vis \_\_\_\_\_  
 Bottom Packer Depth 3708 Wt. Pipe Run — WL \_\_\_\_\_  
 Total Depth 3806 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_

Blow Description IF - 1 3/4  
ISF - No blow  
FF - very weak surface blow  
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>				
____	____				
____	____				
____	____				

Rec Total 15 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1857</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1:00</u>
(B) First Initial Flow <u>51</u>	<input type="checkbox"/> Jars _____	T-Started <u>3:10</u>
(C) First Final Flow <u>54</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>5:58</u>
(D) Initial Shut-In <u>474.</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:58</u>
(E) Second Initial Flow <u>56</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:40</u>
(F) Second Final Flow <u>58</u>	<input checked="" type="checkbox"/> Mileage <u>110</u>	Comments _____
(G) Final Shut-In <u>320.34</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1,835</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1410</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1410</u>	

Approved By \_\_\_\_\_ Our Representative Burt Duce

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53846

4/10

Well Name & No. McCall B #1 Test No. 5 Date 2-4-15  
 Company John O Farmer, Inc. Elevation 2328 KB 2333 GL  
 Address \_\_\_\_\_  
 Co. Rep/Geo. Austin Klaus Rig WW #6  
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3922 - 3980 Zone Tested KC "H-K"  
 Anchor Length 58 Drill Pipe Run \_\_\_\_\_ Mud Wt. \_\_\_\_\_  
 Top Packer Depth 3917, 3922 Drill Collars Run 122 Vis \_\_\_\_\_  
 Bottom Packer Depth 3980 Wt. Pipe Run \_\_\_\_\_ WL \_\_\_\_\_  
 Total Depth 4010 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_  
 Blow Description FF-BOB in 1 1/2 min  
JSL - Very weak surface blow  
FF-BOB in 1 1/2 min  
FSL - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1325</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 1325 BHT 121 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 25000 ppm  
 (A) Initial Hydrostatic 2,005  Test 1150 T-On Location 6:30  
 (B) First Initial Flow 130  Jars \_\_\_\_\_ T-Started 6:45  
 (C) First Final Flow 486  Safety Joint \_\_\_\_\_ T-Open 9:13  
 (D) Initial Shut-In 1,135  Circ Sub 50 T-Pulled 10:28  
 (E) Second Initial Flow 498  Hourly Standby \_\_\_\_\_ T-Out 13:30  
 (F) Second Final Flow 740  Mileage 110 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,149  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,961  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 15  Day Standby \_\_\_\_\_ Total 2160  
 Final Flow 15  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 2160

Approved By \_\_\_\_\_ Our Representative Butt

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