



## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc**

PO Box 351  
Russell, KS. 67665-2635

ATTN: John Farmer/Austin K

### **Finney #1**

### **6-17S-10E Lyon,KS**

Start Date: 2018.04.29 @ 12:51:00

End Date: 2018.04.29 @ 16:56:20

Job Ticket #: 63386                      DST #: 1

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

Printed: 2018.05.02 @ 15:38:43

John O. Farmer, Inc  
6-17S-10E Lyon,KS  
Finney #1  
DST # 1  
Hunton  
2018.04.29



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O. Farmer, Inc

**6-17S-10E Lyon,KS**

PO Box 351  
Russell, KS. 67665-2635

**Finney #1**

Job Ticket: 63386

**DST#: 1**

ATTN: John Farmer/Austin K

Test Start: 2018.04.29 @ 12:51:00

## GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:58:20

Time Test Ended: 16:56:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

**Interval: 2837.00 ft (KB) To 2853.00 ft (KB) (TVD)**

Reference Elevations: 1294.00 ft (KB)

Total Depth: 2853.00 ft (KB) (TVD)

1286.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 262.88 psig @ 2838.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.04.29

End Date:

2018.04.29

Last Calib.:

1899.12.30

Start Time:

12:51:01

End Time:

16:56:20

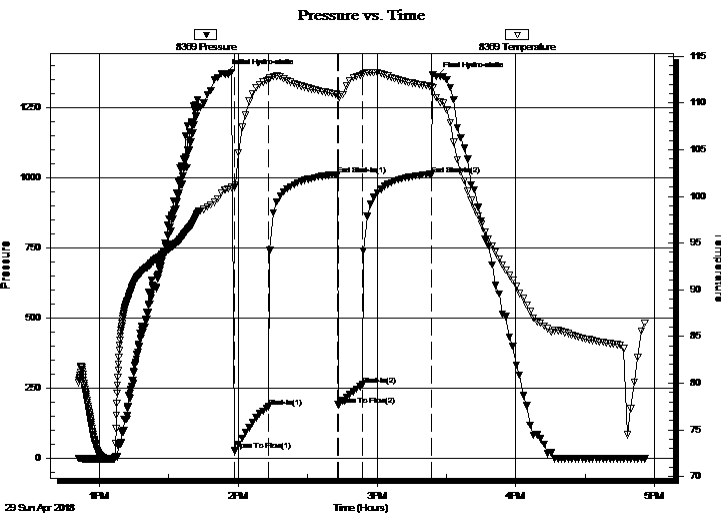
Time On Btm:

2018.04.29 @ 13:54:30

Time Off Btm:

2018.04.29 @ 15:25:40

**TEST COMMENT:** IF - Weak blow buildig to strong blow 4 minutes into initial flow period.  
FF - Weak blow building to strong blow 4 minutes into final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1368.41	100.72	Initial Hydro-static
4	28.37	100.96	Open To Flow (1)
19	184.51	112.47	Shut-In(1)
49	1010.73	110.92	End Shut-In(1)
49	191.82	110.66	Open To Flow (2)
60	262.88	112.98	Shut-In(2)
89	1011.80	111.77	End Shut-In(2)
92	1359.83	110.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	Mud cut water 95% W & 5% M	3.42
250.00	Heavy mud cut water TR oil 65% W 35% M	3.51

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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**6-17S-10E Lyon, KS**

PO Box 351  
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**Finney #1**

Job Ticket: 63386

**DST#: 1**

ATTN: John Farmer/Austin K

Test Start: 2018.04.29 @ 12:51:00

## GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:58:20

Time Test Ended: 16:56:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

**Interval: 2837.00 ft (KB) To 2853.00 ft (KB) (TVD)**

Reference Elevations: 1294.00 ft (KB)

Total Depth: 2853.00 ft (KB) (TVD)

1286.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8846**

**Inside**

Press@RunDepth: psig @ 2838.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.04.29

End Date:

2018.04.29

Last Calib.:

1899.12.30

Start Time: 12:51:01

End Time:

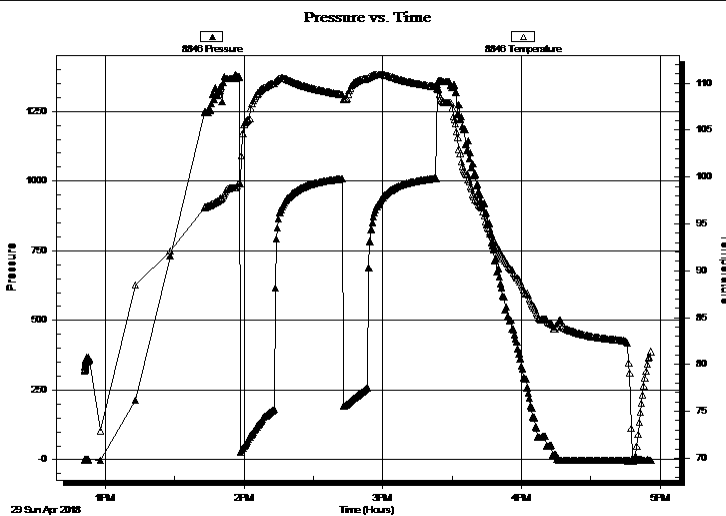
16:56:20

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF - Weak blow buildig to strong blow 4 minutes into initial flow period.  
FF - Weak blow building to strong blow 4 minutes into final flow period.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	Mud cut w ater 95% W & 5% M	3.42
250.00	Heavy mud cut w ater TR oil 65% W 35% M	3.51

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O. Farmer, Inc

**6-17S-10E Lyon,KS**

PO Box 351  
Russell, KS. 67665-2635

**Finney #1**

Job Ticket: 63386

**DST#: 1**

ATTN: John Farmer/Austin K

Test Start: 2018.04.29 @ 12:51:00

## Tool Information

Drill Pipe:	Length: 2533.00 ft	Diameter: 3.80 inches	Volume: 35.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 3.34 inches	Volume: 3.38 bbl	Weight set on Packer: 23000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 38.91 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2837.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2818.00	
Shut In Tool	5.00			2823.00	
Hydraulic tool	5.00			2828.00	
Packer	4.00			2832.00	20.00 Bottom Of Top Packer
Packer	5.00			2837.00	
Stubb	1.00			2838.00	
Recorder	0.00	8369	Outside	2838.00	
Recorder	0.00	8846	Inside	2838.00	
Perforations	10.00			2848.00	
Bullnose	5.00			2853.00	16.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O. Farmer, Inc

**6-17S-10E Lyon,KS**

PO Box 351  
Russell, KS. 67665-2635

**Finney #1**

Job Ticket: 63386

**DST#: 1**

ATTN: John Farmer/Austin K

Test Start: 2018.04.29 @ 12:51:00

## 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:

10000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 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 bbbl
315.00	Mud cut w ater 95% W & 5% M	3.423
250.00	Heavy mud cut w ater TR oil 65% W 35% M	3.507

Total Length: 565.00 ft

Total Volume: 6.222 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

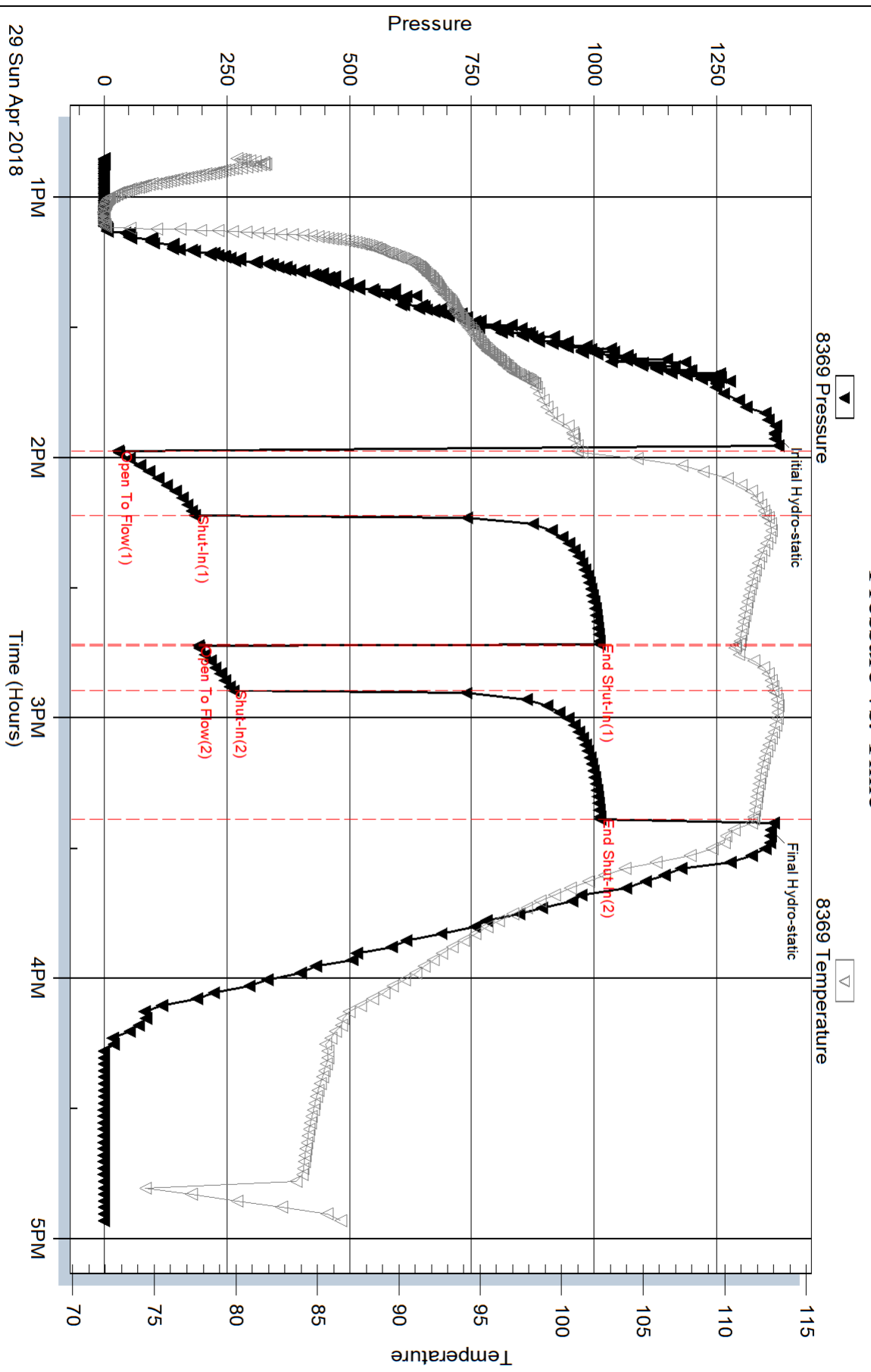
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



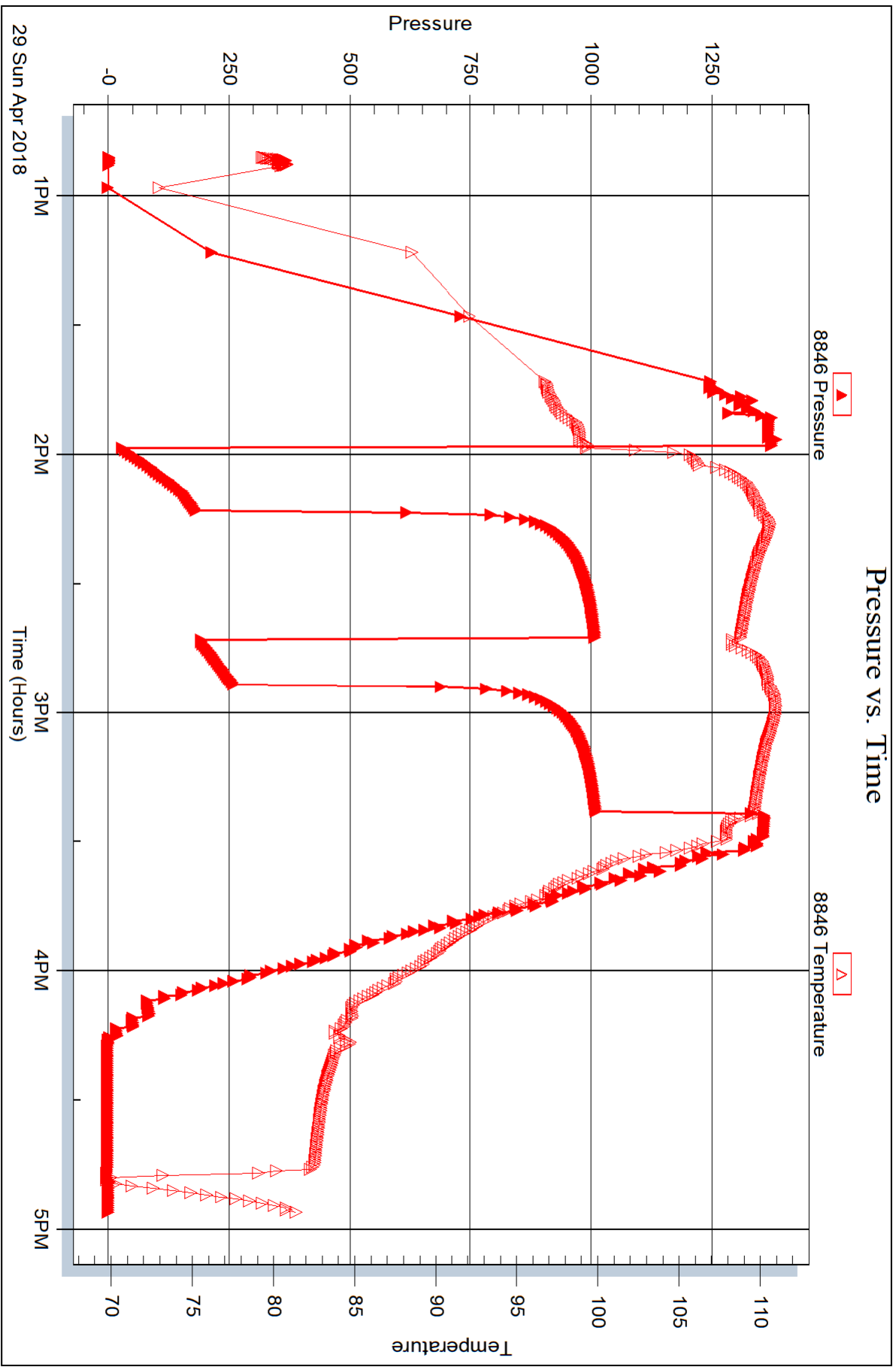
Serial #: 8846

Inside

John O. Farmer, Inc

Finney #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc**

PO Box 351  
Russell, KS. 67665-2635

ATTN: John Farmer/Austin K

### **Finney #1**

### **6-17S-10E Lyon,KS**

Start Date: 2018.04.30 @ 03:10:00

End Date: 2018.04.30 @ 08:52:50

Job Ticket #: 63387                      DST #: 2

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

Printed: 2018.05.02 @ 13:01:27





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O. Farmer, Inc  
 PO Box 351  
 Russell, KS. 67665-2635  
 ATTN: John Farmer/Austin K

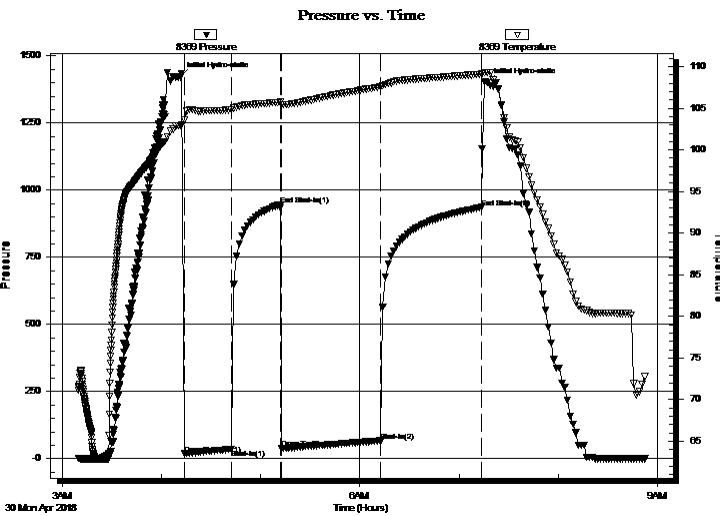
**6-17S-10E Lyon, KS**  
**Finney #1**  
 Job Ticket: 63387      **DST#: 2**  
 Test Start: 2018.04.30 @ 03:10:00

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:13:50  
 Time Test Ended: 08:52:50  
 Interval: **2936.00 ft (KB) To 2947.00 ft (KB) (TVD)**  
 Total Depth: 2947.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jimmy Ricketts  
 Unit No: 80  
 Reference Elevations: 1294.00 ft (KB)  
 1286.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8369      Outside**  
 Press@RunDepth: 66.53 psig @ 2937.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2018.04.30      End Date: 2018.04.30      Last Calib.: 1899.12.30  
 Start Time: 03:10:01      End Time: 08:52:50      Time On Btm: 2018.04.30 @ 04:11:40  
 Time Off Btm:

**TEST COMMENT:** IF - Weak blow building 5 inches initial flow period.  
 FF - Weak blow building to 5 inches final flow period.



## PRESSURE SUMMARY

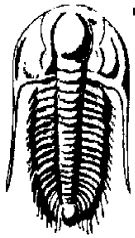
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1421.80	102.95	Initial Hydro-static
3	17.74	103.58	Open To Flow (1)
31	34.39	104.82	Shut-In(1)
61	944.13	105.73	End Shut-In(1)
61	37.91	105.46	Open To Flow (2)
121	66.53	107.59	Shut-In(2)
182	935.60	109.10	End Shut-In(2)
186	1400.94	109.31	Initial Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Heavy oil cut mud 20% O & 80% M	0.27
125.00	Clean oil 100% O	1.35

## Gas Rates

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



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TESTING, INC.

# DRILL STEM TEST REPORT

John O. Farmer, Inc

**6-17S-10E Lyon, KS**

PO Box 351  
Russell, KS. 67665-2635

**Finney #1**

Job Ticket: 63387

**DST#: 2**

ATTN: John Farmer/Austin K

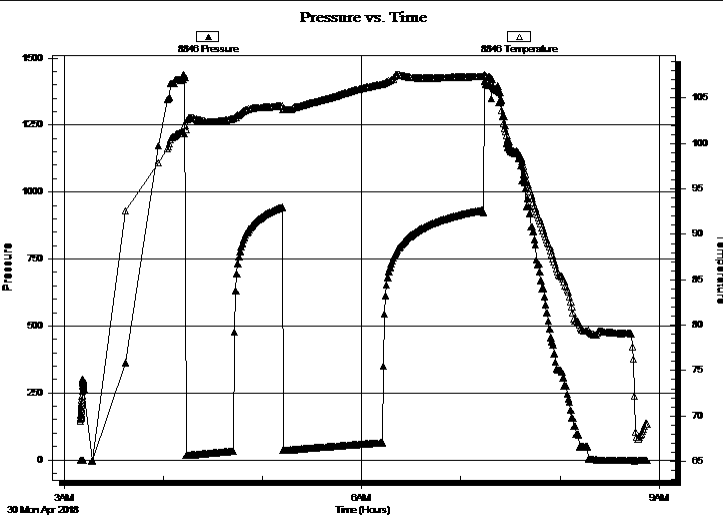
Test Start: 2018.04.30 @ 03:10:00

## GENERAL INFORMATION:

**Formation:** **Viola**  
**Deviated:** No Whipstock: ft (KB)  
**Time Tool Opened:** 04:13:50  
**Time Test Ended:** 08:52:50  
**Interval:** **2936.00 ft (KB) To 2947.00 ft (KB) (TVD)**  
**Total Depth:** 2947.00 ft (KB) (TVD)  
**Hole Diameter:** 7.88 inches **Hole Condition:** Fair  
**Test Type:** Conventional Bottom Hole (Initial)  
**Tester:** Jimmy Ricketts  
**Unit No:** 80  
**Reference Elevations:** 1294.00 ft (KB)  
 1286.00 ft (CF)  
**KB to GR/CF:** 8.00 ft

**Serial #: 8846** **Inside**  
**Press@RunDepth:** psig @ 2937.00 ft (KB) **Capacity:** 8000.00 psig  
**Start Date:** 2018.04.30 **End Date:** 2018.04.30 **Last Calib.:** 1899.12.30  
**Start Time:** 03:10:01 **End Time:** 08:53:00 **Time On Btm:**  
**Time Off Btm:**

**TEST COMMENT:** IF - Weak blow building 5 inches initial flow period.  
 FF - Weak blow building to 5 inches final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Heavy oil cut mud 20% O & 80% M	0.27
125.00	Clean oil 100% O	1.35

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O. Farmer, Inc

**6-17S-10E Lyon,KS**

PO Box 351  
Russell, KS. 67665-2635

**Finney #1**

Job Ticket: 63387

**DST#: 2**

ATTN: John Farmer/Austin K

Test Start: 2018.04.30 @ 03:10:00

## Tool Information

Drill Pipe:	Length: 2628.00 ft	Diameter: 3.80 inches	Volume: 36.86 bbl	Tool Weight:	1900.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 3.34 inches	Volume: 3.38 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 40.24 bbl</u>	Tool Chased	1.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	2936.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	31.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2917.00	
Shut In Tool	5.00			2922.00	
Hydraulic tool	5.00			2927.00	
Packer	4.00			2931.00	20.00 Bottom Of Top Packer
Packer	5.00			2936.00	
Stubb	1.00			2937.00	
Recorder	0.00	8369	Outside	2937.00	
Recorder	0.00	8846	Inside	2937.00	
Perforations	5.00			2942.00	
Bullnose	5.00			2947.00	11.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>31.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O. Farmer, Inc

**6-17S-10E Lyon,KS**

PO Box 351  
Russell, KS. 67665-2635

**Finney #1**

Job Ticket: 63387

**DST#: 2**

ATTN: John Farmer/Austin K

Test Start: 2018.04.30 @ 03:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 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	Heavy oil cut mud 20% O & 80% M	0.271
125.00	Clean oil 100% O	1.355

Total Length: 150.00 ft

Total Volume: 1.626 bbl

Num Fluid Samples: 0

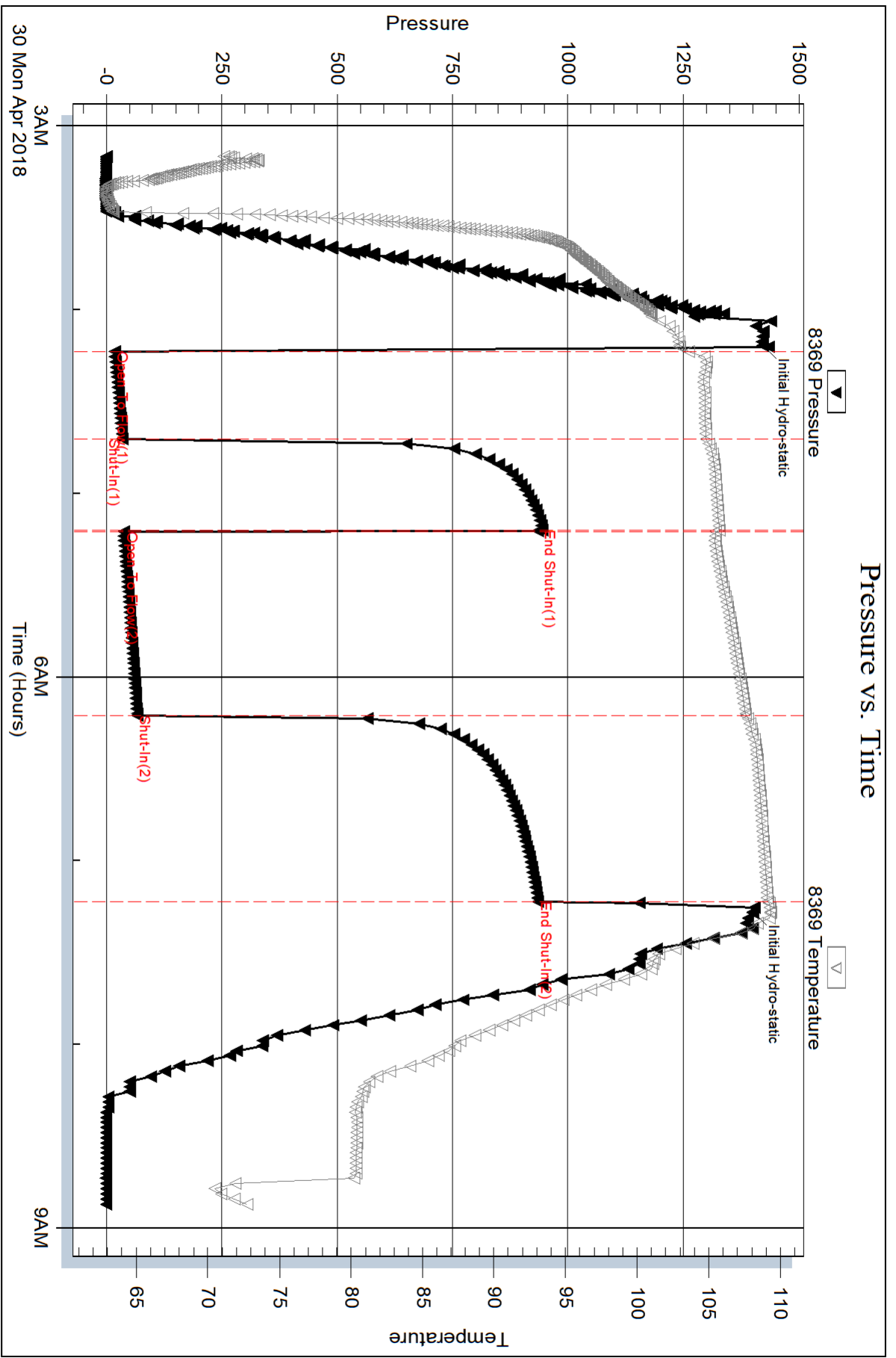
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



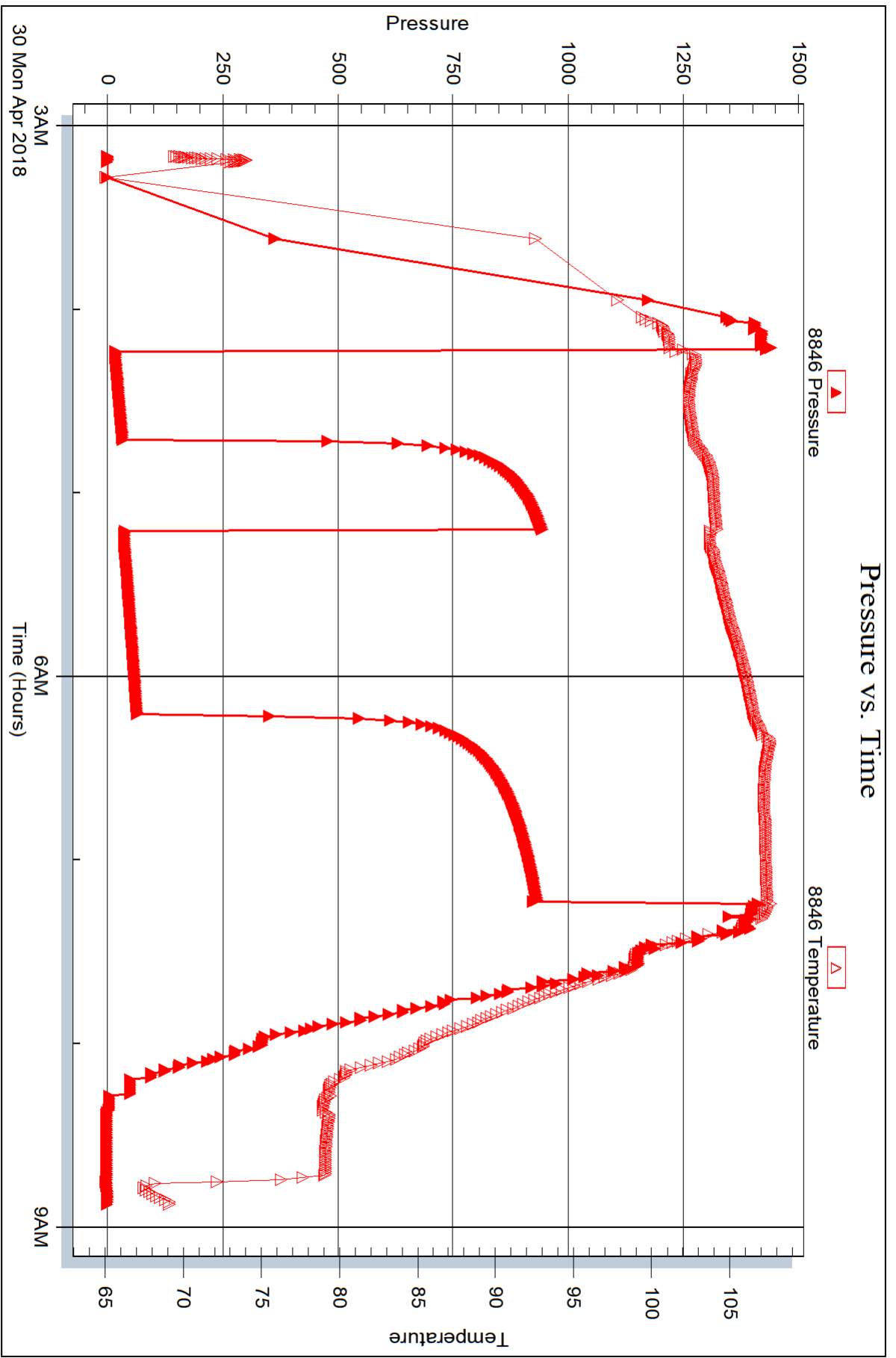
Serial #: 8846

Inside

John O. Farmer, Inc

Finney #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63387

Printed: 2018.05.02 @ 13:01:28



## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc**

PO Box 351  
Russell, KS. 67665-2635

ATTN: John Farmer/Austin K

### **Finney #1**

### **6-17S-10E Lyon,KS**

Start Date: 2018.05.01 @ 05:31:00

End Date: 2018.05.01 @ 10:37:50

Job Ticket #: 63388                      DST #: 3

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

Printed: 2018.05.02 @ 13:00:14

John O. Farmer, Inc  
6-17S-10E Lyon,KS  
Finney #1  
DST # 3  
Simpson Dolente/San  
2018.05.01



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O. Farmer, Inc  
 PO Box 351  
 Russell, KS. 67665-2635  
 ATTN: John Farmer/Austin K

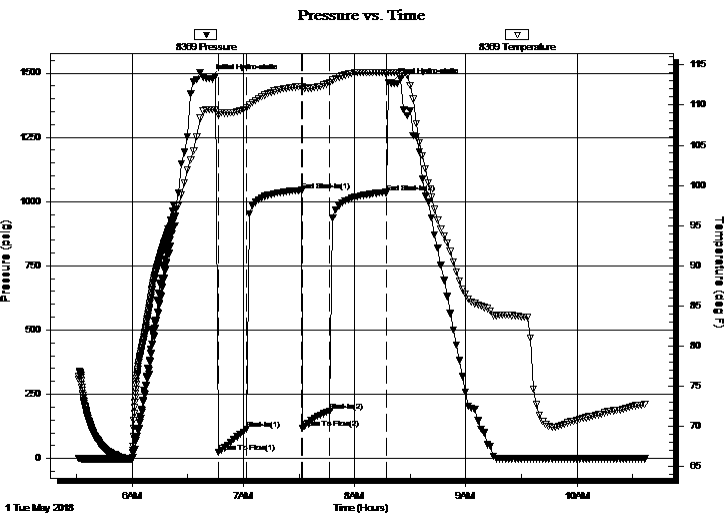
**6-17S-10E Lyon,KS**  
**Finney #1**  
 Job Ticket: 63388 **DST#: 3**  
 Test Start: 2018.05.01 @ 05:31:00

## GENERAL INFORMATION:

Formation: **Simpson Dolemite/San**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:46:30  
 Time Test Ended: 10:37:50  
 Interval: **3019.00 ft (KB) To 3047.00 ft (KB) (TVD)**  
 Total Depth: 3130.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Initial)  
 Tester: Jimmy Ricketts  
 Unit No: 80  
 Reference Elevations: 1294.00 ft (KB)  
 1286.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**  
 Press@RunDepth: 185.34 psig @ 3020.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.05.01 End Date: 2018.05.01 Last Calib.: 2018.05.01  
 Start Time: 05:31:01 End Time: 10:37:50 Time On Btm: 2018.05.01 @ 06:41:30  
 Time Off Btm: 2018.05.01 @ 08:19:40

TEST COMMENT: IF - Weak blow building to strong blow 10 minutes into initial flow period.  
 FF - Weak blow building to strong blow 10 minutes into final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1477.82	109.43	Initial Hydro-static
5	24.46	108.75	Open To Flow (1)
20	113.05	109.61	Shut-In(1)
50	1043.53	112.27	End Shut-In(1)
51	117.81	112.00	Open To Flow (2)
65	185.34	112.77	Shut-In(2)
96	1036.05	113.98	End Shut-In(2)
99	1460.87	114.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	O & HW CM 1% O 29% W 70% M	3.36
65.00	Oil cut mud 4% O & 96% M	0.91

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O. Farmer, Inc

**6-17S-10E Lyon,KS**

PO Box 351  
Russell, KS. 67665-2635

**Finney #1**

Job Ticket: 63388

**DST#: 3**

ATTN: John Farmer/Austin K

Test Start: 2018.05.01 @ 05:31:00

## GENERAL INFORMATION:

Formation: **Simpson Dolemite/San**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:46:30

Time Test Ended: 10:37:50

Test Type: Conventional Straddle (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **3019.00 ft (KB) To 3047.00 ft (KB) (TVD)**

Reference Elevations: 1294.00 ft (KB)

Total Depth: 3130.00 ft (KB) (TVD)

1286.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8846 Inside**

Press@RunDepth: psig @ 3020.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.01 End Date: 2018.05.01

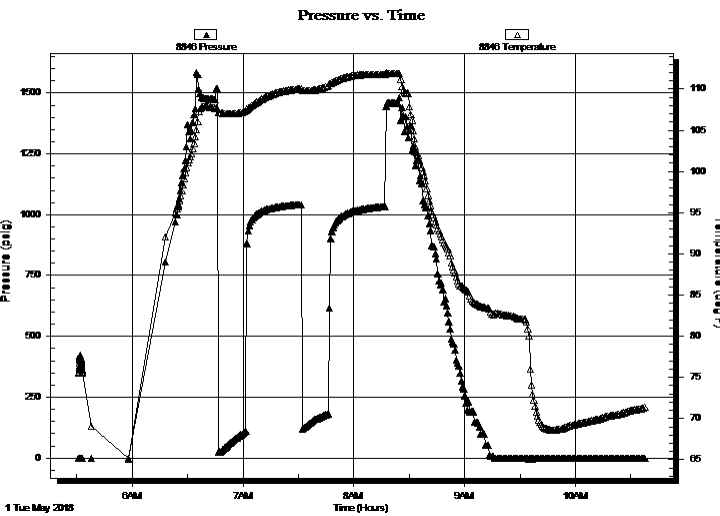
Last Calib.: 1899.12.30

Start Time: 05:31:01 End Time: 10:38:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 10 minutes into initial flow period.  
FF - Weak blow building to strong blow 10 minutes into final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	O & HW CM 1% O 29% W 70% M	3.36
65.00	Oil cut mud 4% O & 96% M	0.91

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O. Farmer, Inc  
 PO Box 351  
 Russell, KS. 67665-2635  
 ATTN: John Farmer/Austin K

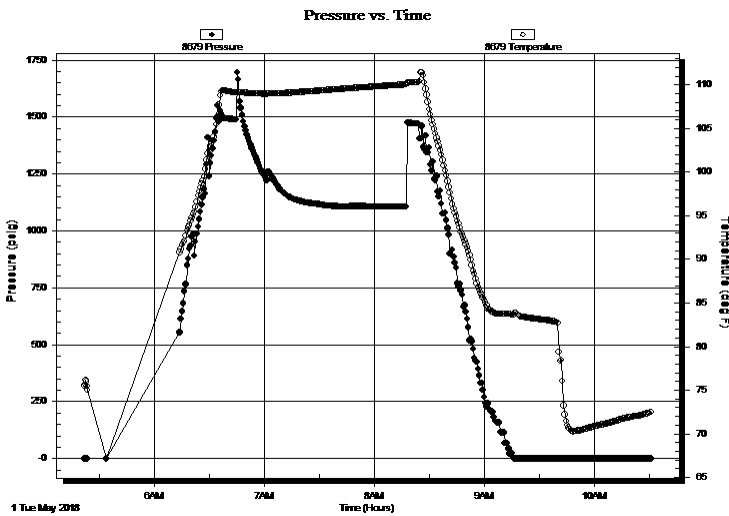
**6-17S-10E Lyon, KS**  
**Finney #1**  
 Job Ticket: 63388 **DST#: 3**  
 Test Start: 2018.05.01 @ 05:31:00

## GENERAL INFORMATION:

Formation: **Simpson Dolemite/San**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Initial)  
 Time Tool Opened: 06:46:30 Tester: Jimmy Ricketts  
 Time Test Ended: 10:37:50 Unit No: 80  
 Interval: **3019.00 ft (KB) To 3047.00 ft (KB) (TVD)** Reference Elevations: 1294.00 ft (KB)  
 Total Depth: 3130.00 ft (KB) (TVD) 1286.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8679 Below (Straddle)**  
 Press@RunDepth: psig @ 3058.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.05.01 End Date: 2018.05.01 Last Calib.: 1899.12.30  
 Start Time: 05:22:05 End Time: 10:30:40 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 10 minutes into initial flow period.  
 FF - Weak blow building to strong blow 10 minutes into final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	O & HW CM 1% O 29% W 70% M	3.36
65.00	Oil cut mud 4% O & 96% M	0.91

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O. Farmer, Inc

**6-17S-10E Lyon,KS**

PO Box 351  
Russell, KS. 67665-2635

**Finney #1**

Job Ticket: 63388

**DST#: 3**

ATTN: John Farmer/Austin K

Test Start: 2018.05.01 @ 05:31:00

## Tool Information

Drill Pipe:	Length: 2721.00 ft	Diameter: 3.80 inches	Volume: 38.17 bbl	Tool Weight:	3100.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 3.34 inches	Volume: 3.38 bbl	Weight set on Packer:	28000.00 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: 41.55 bbl</u>	Tool Chased	1.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3019.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	3047.00 ft				
Interval between Packers:	28.00 ft				
Tool Length:	131.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3000.00	
Shut In Tool	5.00			3005.00	
Hydraulic tool	5.00			3010.00	
Packer	4.00			3014.00	20.00 Bottom Of Top Packer
Packer	5.00			3019.00	
Stubb	1.00			3020.00	
Recorder	0.00	8369	Outside	3020.00	
Recorder	0.00	8846	Inside	3020.00	
Perforations	22.00			3042.00	
Blank Off Sub	1.00			3043.00	
T.C.	4.00			3047.00	28.00 Tool Interval
Packer	0.00			3047.00	
Stubb	1.00			3048.00	
Perforations	10.00			3058.00	
Recorder	0.00	8679	Below	3058.00	
Change Over Sub	0.50			3058.50	
Blank Spacing	63.00			3121.50	
Change Over Sub	0.50			3122.00	
Perforations	3.00			3125.00	
Bullnose	5.00			3130.00	83.00 Bottom Packers & Anchor

**Total Tool Length: 131.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O. Farmer, Inc

**6-17S-10E Lyon,KS**

PO Box 351  
Russell, KS. 67665-2635

**Finney #1**

Job Ticket: 63388

**DST#: 3**

ATTN: John Farmer/Austin K

Test Start: 2018.05.01 @ 05:31:00

## 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:

10000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	O & H W C M 1% O 29% W 70% M	3.359
65.00	Oil cut mud 4% O & 96% M	0.905

Total Length: 375.00 ft

Total Volume: 4.264 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

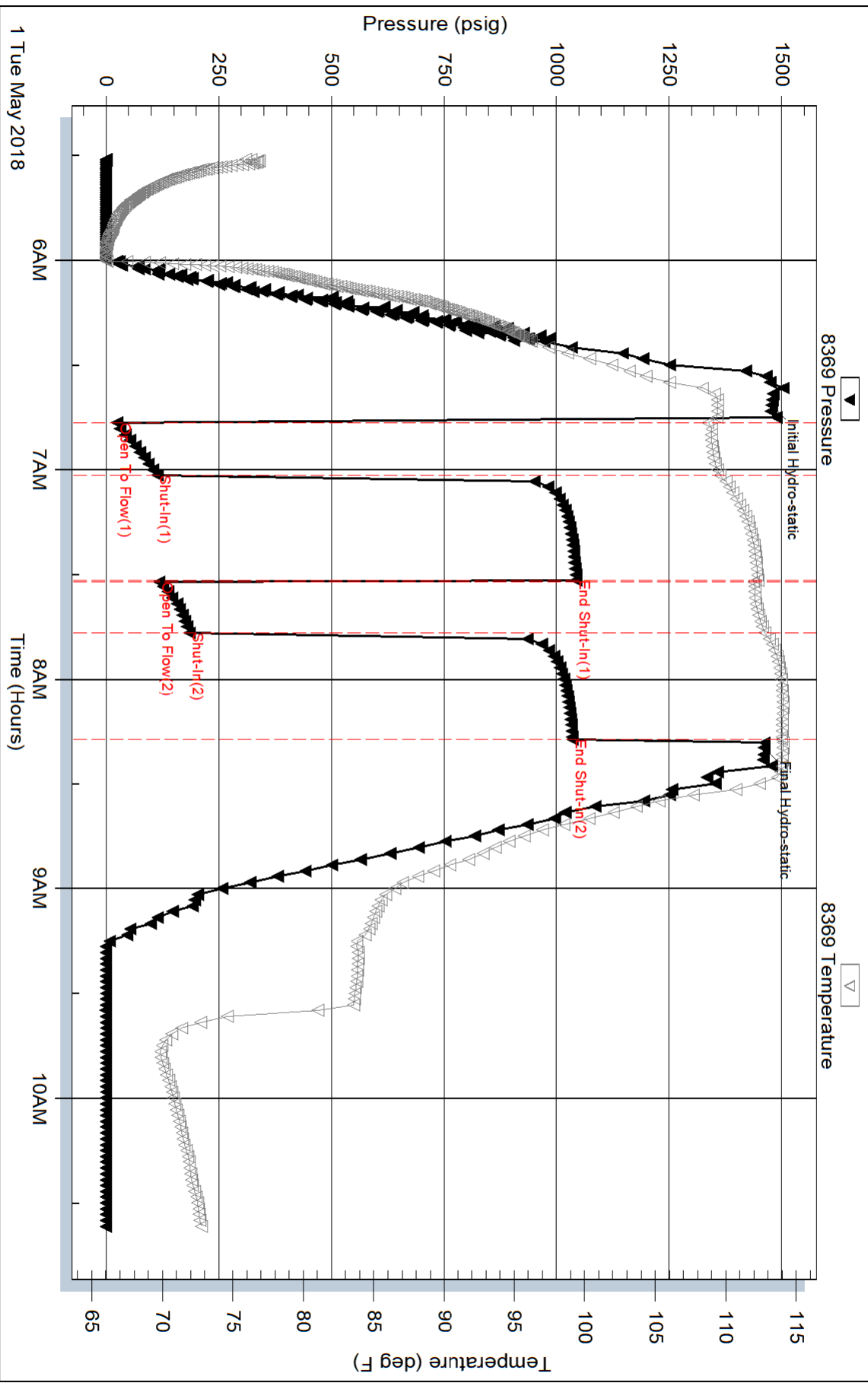
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



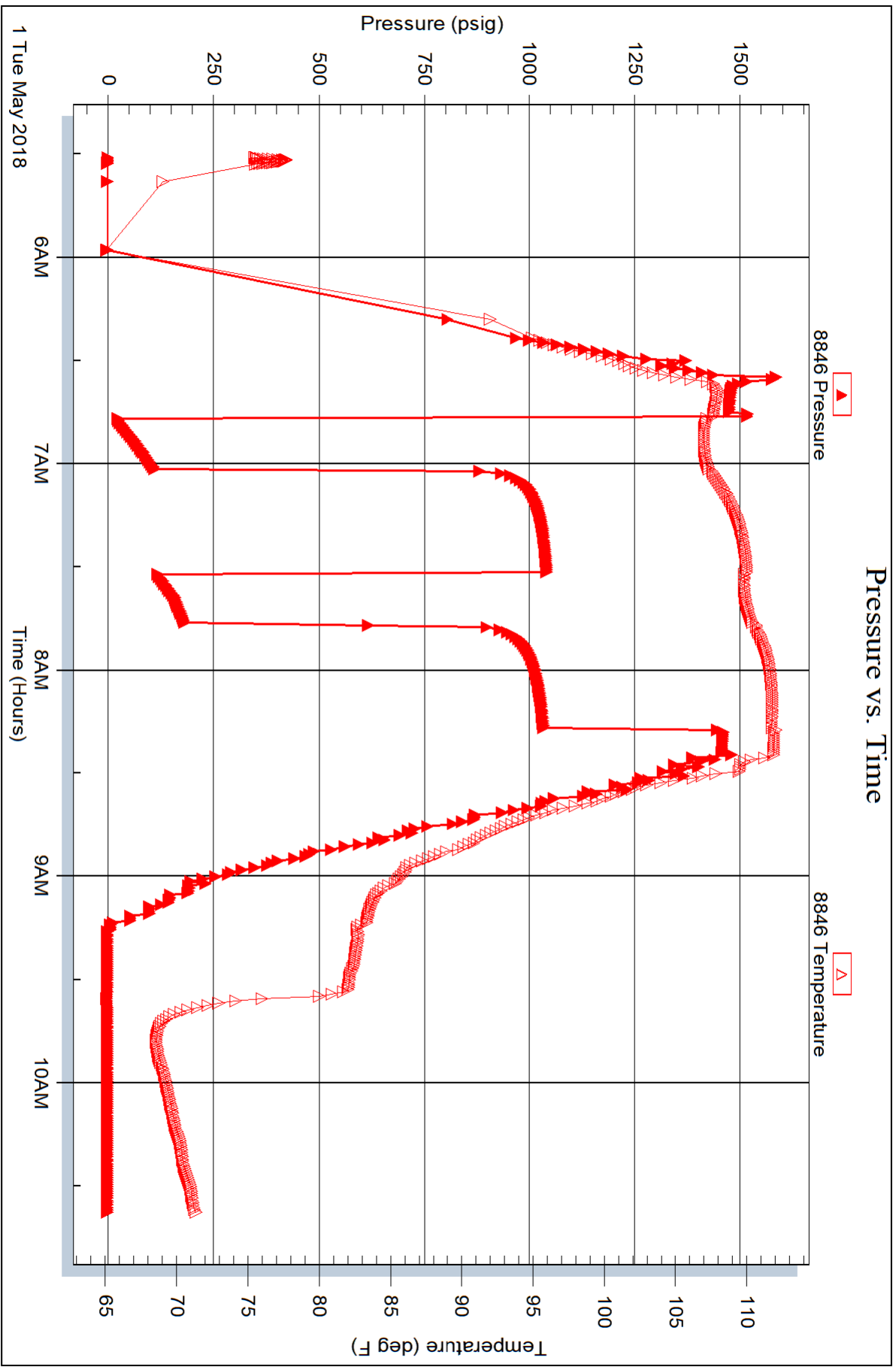
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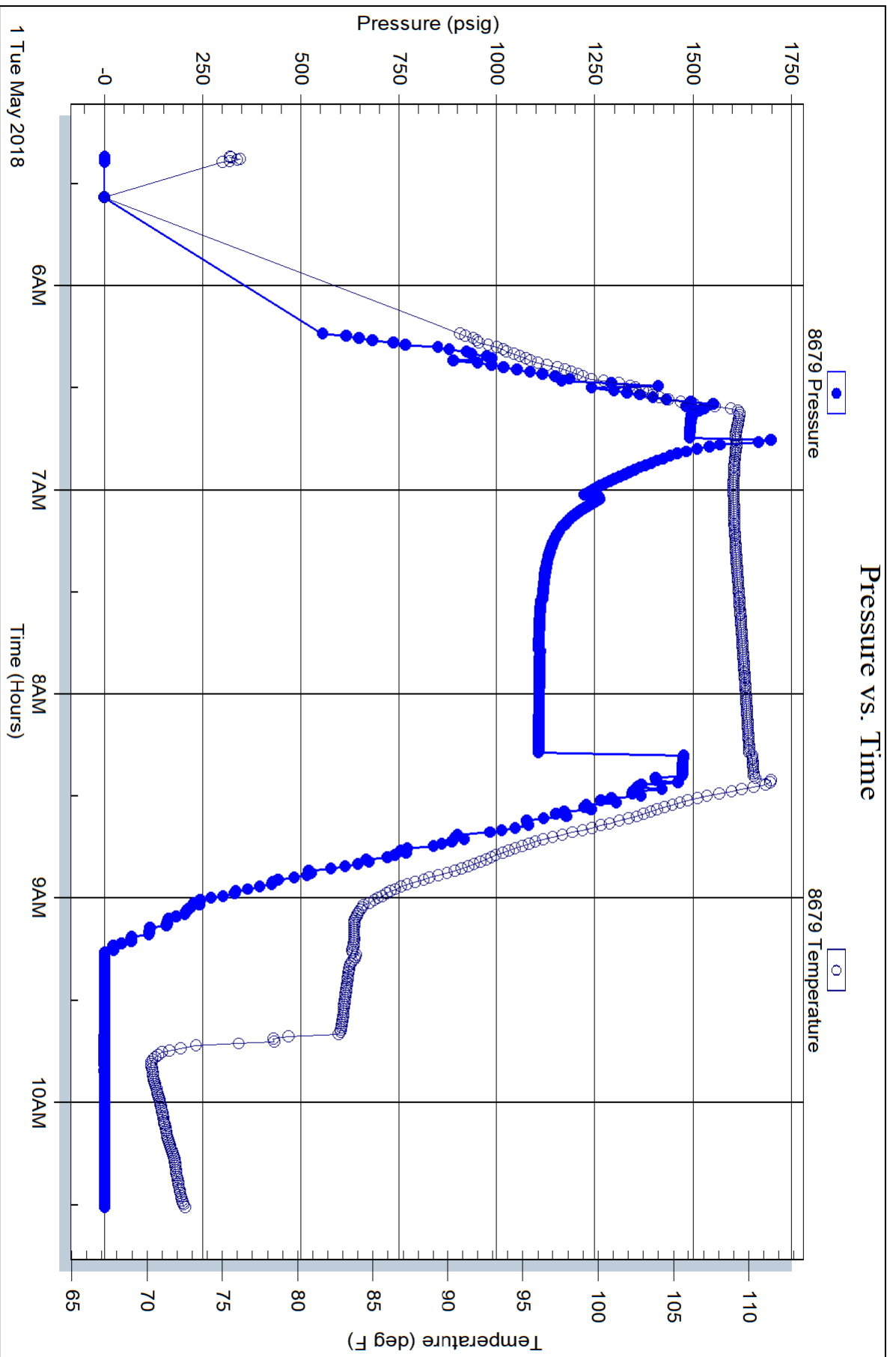
Inside

John O. Farmer, Inc

Finney #1

DST Test Number: 3







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63386

Well Name & No. Finney #1 Test No. 1 Date 4-29-18  
 Company John O. Farmer, Inc. Elevation 1294 KB 1286 GL  
 Address 370 W. Wichita Avenue Russell KS 67665-2635  
 Co. Rep / Geo. John Farmer / Austin Klaus Rig Discovery Drilling #2  
 Location: Sec. 6 Twp 10 S Rge. 10 E Co. Lyon State KS

Interval Tested 2837-2853 Zone Tested Hunton  
 Anchor Length 16' Drill Pipe Run 2533 Mud Wt. 9.2  
 Top Packer Depth 2832 Drill Collars Run 0 Vls 53  
 Bottom Packer Depth 2837 Wt. Pipe Run 312 WL 7.6  
 Total Depth 2853 Chlorides 1300 ppm System LCM

Blow Description IF - weak blow building to strong blow 4 mins. into IEP  
FF - weak blow building to strong blow 4 mins. into FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>Mud cut water</u>			<u>95</u>	<u>5</u>
<u>250</u>	<u>Heavy mud cut water slightly</u>		<u>TR</u>	<u>65</u>	<u>35</u>
	<u>spotted oil</u>				

Rec Total 565 BHT 113 Gravity \_\_\_\_\_ API RW0.550 @ 78 °F Chlorides 10,000 ppm

(A) Initial Hydrostatic 1368  Test 1050 T-On Location 1225  
 (B) First Initial Flow 28  Jars \_\_\_\_\_ T-Started 1251  
 (C) First Final Flow 185  Safety Joint \_\_\_\_\_ T-Open 1358  
 (D) Initial Shut-In 1011  Circ Sub \_\_\_\_\_ T-Pulled 1523  
 (E) Second Initial Flow 192  Hourly Standby \_\_\_\_\_ T-Out 1645  
 (F) Second Final Flow 263  Mileage 240 RT 240 Comments \_\_\_\_\_  
 (G) Final Shut-In 1012  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1360  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_

Initial Open 15  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 10  Day Standby \_\_\_\_\_ Total 1540  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1540

Approved By \_\_\_\_\_ Our Representative Jimmy Dickel

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. 63387

Well Name & No. Finney #1 Test No. 2 Date 4-30-18  
 Company John O. Farmer, Inc. Elevation 1294 KB 1286 GL  
 Address 370 W. Wichita Ave Russell, Ks. 67665-2635  
 Co. Rep / Geo. John O. Farmer / Austin Klaus Rig Discovery Drilling #2  
 Location: Sec. 6 Twp 17 S Rge. 10 E Co. Lyon State KS

Interval Tested 2936-2947 Zone Tested Viola  
 Anchor Length 11' Drill Pipe Run 2628 Mud Wt. 9.1  
 Top Packer Depth 2931 Drill Collars Run 0 Vis 45  
 Bottom Packer Depth 2936 Wt. Pipe Run 312 WL 7.6  
 Total Depth 2947 Chlorides 1300 ppm System LCM  
 Blow Description IF - weak blow building to 5 inches I FP  
FF - weak blow building to 5 inches FFA

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>Heavy oil cut mud</u>	<u>20</u>	<u>0</u>	<u>80</u>	<u>0</u>
<u>125</u>	<u>Clean oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>

Rec Total 150 BHT 109 Gravity 23 API RW   @   °F Chlorides   ppm

(A) Initial Hydrostatic 1422  Test 1050 T-On Location 0230  
 (B) First Initial Flow 18  Jars   T-Started 0310  
 (C) First Final Flow 34  Safety Joint   T-Open 0414  
 (D) Initial Shut-In 944  Circ Sub   T-Pulled 0714  
 (E) Second Initial Flow 38  Hourly Standby   T-Out 0830  
 (F) Second Final Flow 67  Mileage 240 RT 21 Comments    
 (G) Final Shut-In 936  Sampler    
 (H) Final Hydrostatic 1401  Straddle    Ruined Shale Packer    
 Shale Packer 250  Ruined Packer    
 Extra Packer    Extra Copies    
 Extra Recorder   Sub Total 0  
 Day Standby   Total 1540  
 Accessibility   MP/DST Disc't    
 Sub Total 1540

Approved By   Our Representative Jimmy Dickert  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63388

Well Name & No. Finney #1 Test No. 3 Date 5-1-18  
 Company John O. Farmer, Inc. Elevation 1294 KB 1286 GL  
 Address 370 West Wichita Ave Russell, KS. 67665-2635  
 Co. Rep / Geo. John Farmer / Austin Klaus Rig Discovery Drilling #2  
 Location: Sec. 6 Twp 17S Rge. 10 E Co. Lyon State KS

Interval Tested 3019 - 3047 Zone Tested Simpson Dolomite / Sand  
 Anchor Length 28' Drill Pipe Run 2721 Mud Wt. 9.2  
 Top Packer Depth 3014 mid-3019 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3047 Wt. Pipe Run 312 WL 9.2  
 Total Depth 3130 Chlorides 1700 ppm System LCM  
 Blow Description IF-weak blow building to strong blow 10 mins into IFP  
FF-weak blow building to strong blow 10 mins into FFP

Rec	Feet of	%gas	%oil	%water	%mud
<del>310</del> 310	Oil + heavy water cut mud		14	29	70
<del>65</del> 65	Oil cut mud		4		96

Rec Total 375 BHT 114 Gravity \_\_\_\_\_ API RW .619 @ 74 °F Chlorides 10,000 ppm

(A) Initial Hydrostatic 1478  Test 1050 T-On Location 0400  
 (B) First Initial Flow 24  Jars \_\_\_\_\_ T-Started 0522 + 0531  
 (C) First Final Flow 113  Safety Joint \_\_\_\_\_ T-Open 0647  
 (D) Initial Shut-In 1044  Circ Sub \_\_\_\_\_ T-Pulled 0817  
 (E) Second Initial Flow 118  Hourly Standby \_\_\_\_\_ T-Out 1000  
 (F) Second Final Flow 185  Mileage 312rt 312 RT 21 Comments \_\_\_\_\_  
 (G) Final Shut-In 1036  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1461  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 30  Day Standby \_\_\_\_\_ Total 2212  
 Final Flow 15  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 2212

Approved By \_\_\_\_\_

Our Representative Jimmy D. [Signature]

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.