



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc.**

PO Box 47  
Great Bend KS 67530

ATTN: Brad Rine

### **Sweetheart #1**

#### **20-21s-14w Stafford,KS**

Start Date: 2015.07.19 @ 07:52:00

End Date: 2015.07.19 @ 11:33:00

Job Ticket #: 62896                      DST #: 1

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

Printed: 2015.07.23 @ 09:33:24

Carmen Schmitt Inc. 20-21s-14w Stafford,KS Sweetheart #1 DST # 1 LKC H 2015.07.19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc.  
 PO Box 47  
 Great Bend KS 67530  
 ATTN: Brad Rine

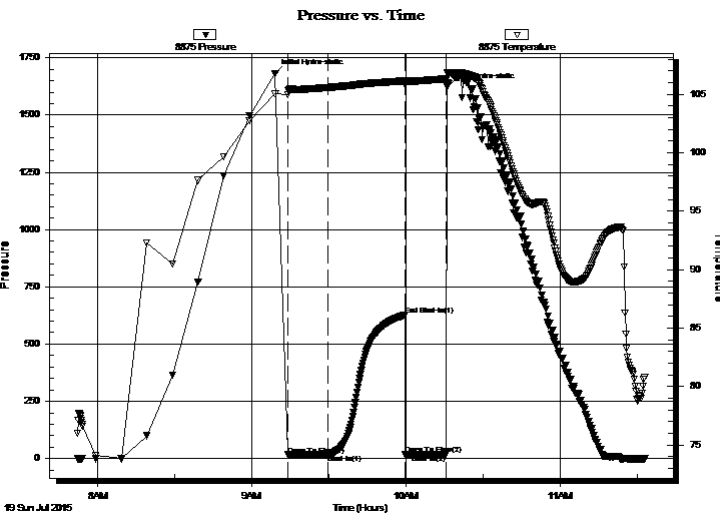
**20-21s-14w Stafford,KS**  
**Sweetheart #1**  
 Job Ticket: 62896 **DST#: 1**  
 Test Start: 2015.07.19 @ 07:52:00

## GENERAL INFORMATION:

Formation: **LKC H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:14:00  
 Time Test Ended: 11:33:00  
 Interval: **3530.00 ft (KB) To 3550.00 ft (KB) (TVD)**  
 Total Depth: 3550.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 59  
 Reference Elevations: 1948.00 ft (KB)  
 1940.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8875 Outside**  
 Press@RunDepth: 18.34 psig @ 3545.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2015.07.19 End Date: 2015.07.19 Last Calib.: 2015.07.19  
 Start Time: 07:52:05 End Time: 11:33:00 Time On Btm: 2015.07.19 @ 09:09:00  
 Time Off Btm: 2015.07.19 @ 10:15:50

TEST COMMENT: IFP 15 min Weak 1/2"blow .  
 ISI 30 min No blow back.  
 FFP 15 min Dead .  
 FSI N/A



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.41	105.07	Initial Hydro-static
5	16.18	104.95	Open To Flow (1)
21	18.34	105.58	Shut-In(1)
51	626.98	106.14	End Shut-In(1)
51	19.33	105.85	Open To Flow (2)
67	18.71	106.32	Shut-In(2)
67	1621.89	106.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.10

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc.  
PO Box 47  
Great Bend KS 67530  
ATTN: Brad Rine

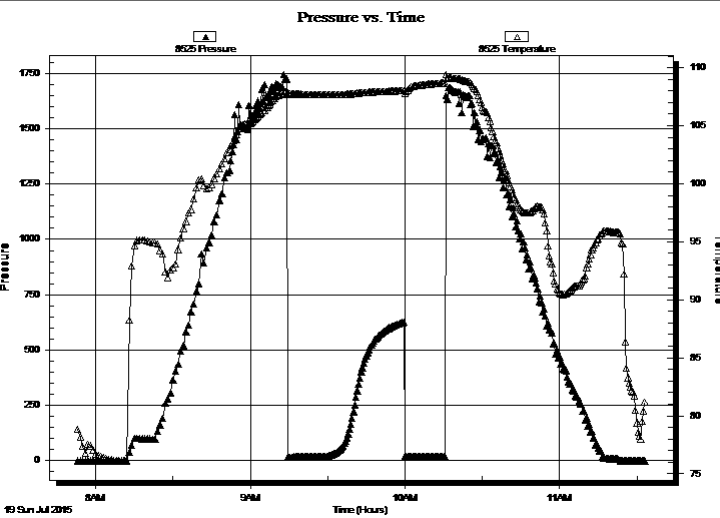
**20-21s-14w Stafford,KS**  
**Sweetheart #1**  
Job Ticket: 62896 **DST#: 1**  
Test Start: 2015.07.19 @ 07:52:00

## GENERAL INFORMATION:

Formation: **LKC H**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:14:00  
Time Test Ended: 11:33:00  
Interval: **3530.00 ft (KB) To 3550.00 ft (KB) (TVD)**  
Total Depth: 3550.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Ellis  
Unit No: 59  
Reference Elevations: 1948.00 ft (KB)  
1940.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8525 Inside**  
Press@RunDepth: psig @ 3545.00 ft (KB) Capacity: 5000.00 psig  
Start Date: 2015.07.19 End Date: 2015.07.19 Last Calib.: 2015.07.19  
Start Time: 07:53:00 End Time: 11:33:00 Time On Btm:  
Time Off Btm:

TEST COMMENT: IFP 15 min Weak 1/2"blow .  
ISI 30 min No blow back.  
FFP 15 min Dead .  
FSI N/A



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

Recovery		
Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.10

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62896

**DST#: 1**

ATTN: Brad Rine

Test Start: 2015.07.19 @ 07:52:00

## Tool Information

Drill Pipe:	Length: 3518.00 ft	Diameter: 3.80 inches	Volume: 49.35 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: 44000.00 lb
			<u>Total Volume: 49.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3530.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	42.00 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			3513.00	
Hydraulic tool	5.00			3518.00	
Safety Joint	2.00			3520.00	
Top Packer	5.00			3525.00	
Packer	5.00			3530.00	22.00 Bottom Of Top Packer
Anchor	15.00			3545.00	
Recorder	0.00	8525	Inside	3545.00	
Recorder	0.00	8875	Outside	3545.00	
Bullnose	5.00			3550.00	20.00 Anchor Tool
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62896

**DST#: 1**

ATTN: Brad Rine

Test Start: 2015.07.19 @ 07:52:00

## 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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
7.00	Mud 100%	0.098

Total Length: 7.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

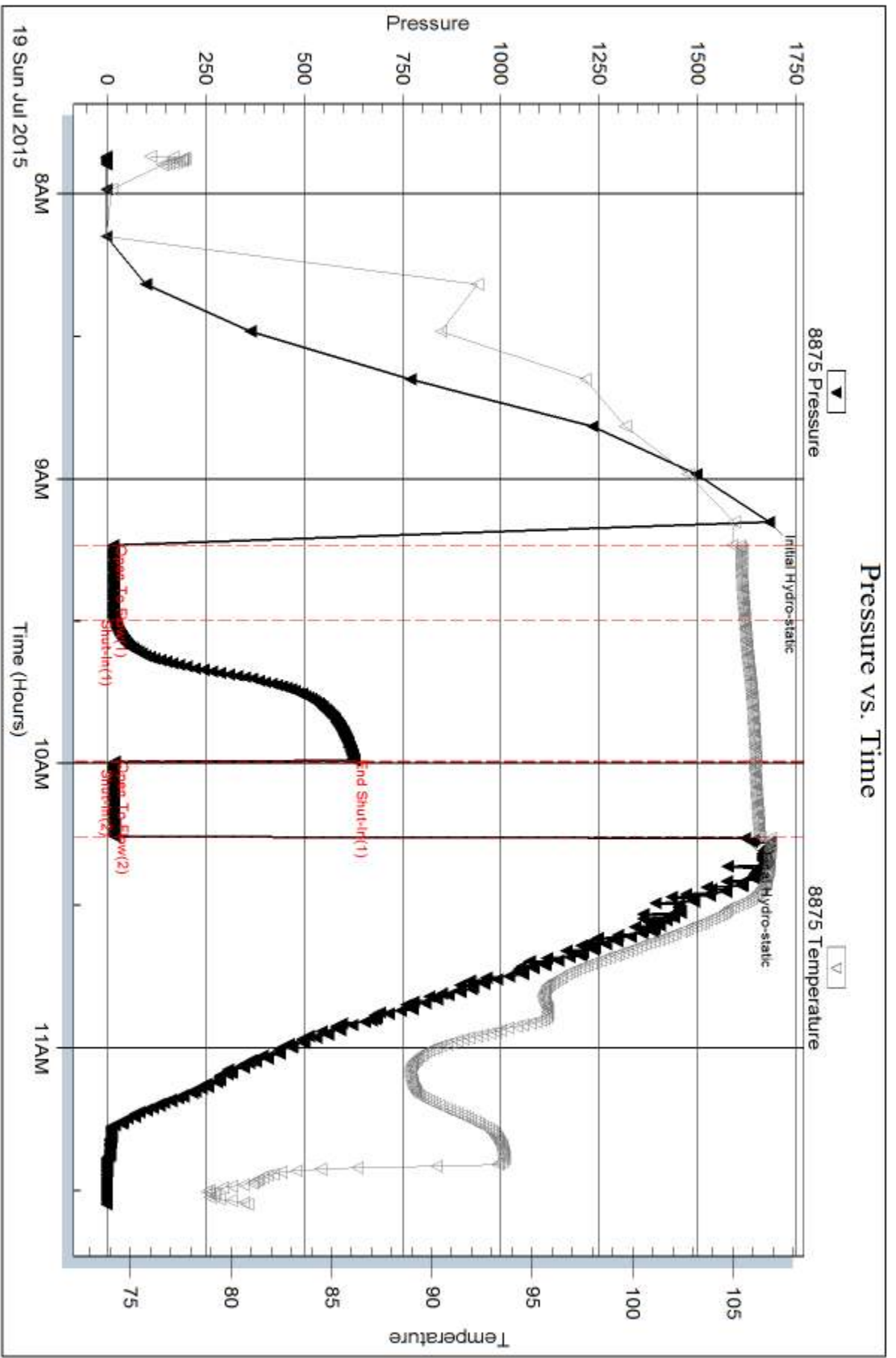
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



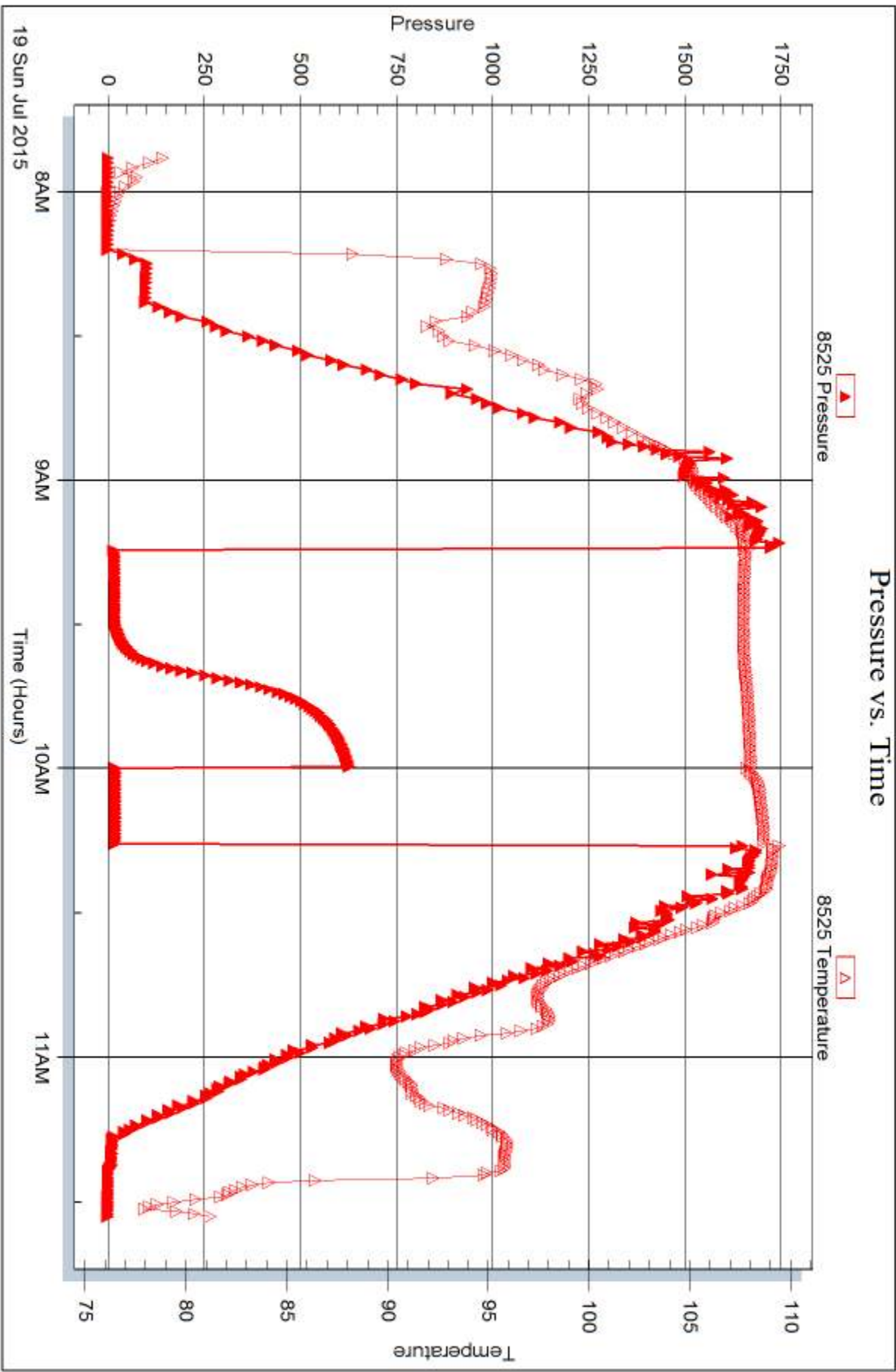
Serial #: 8525

Inside

Carmen Schmitt Inc.

Sweetheart #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc.**

PO Box 47  
Great Bend KS 67530

ATTN: Brad Rine

### **Sweetheart #1**

#### **20-21s-14w Stafford,KS**

Start Date: 2015.07.19 @ 04:45:00

End Date: 2015.07.19 @ 08:13:10

Job Ticket #: 62897                      DST #: 2

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

Printed: 2015.07.23 @ 09:33:05





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc.  
 PO Box 47  
 Great Bend KS 67530  
 ATTN: Brad Rine

**20-21s-14w Stafford,KS**  
**Sweetheart #1**  
 Job Ticket: 62897 **DST#: 2**  
 Test Start: 2015.07.19 @ 04:45:00

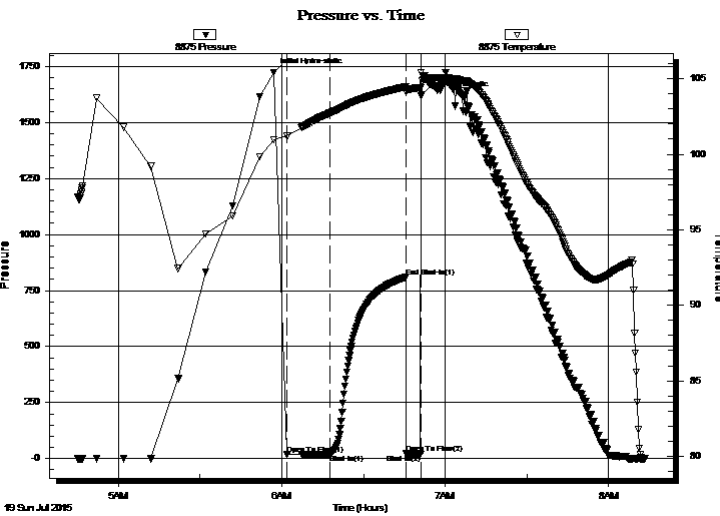
## GENERAL INFORMATION:

Formation: **LKC I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:02:00  
 Time Test Ended: 08:13:10  
**Interval: 3553.00 ft (KB) To 3568.00 ft (KB) (TVD)**  
 Total Depth: 3568.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 59  
 Reference Elevations: 1948.00 ft (KB)  
 1940.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8875 Outside

Press@RunDepth: 20.83 psig @ 3563.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2015.07.19 End Date: 2015.07.19 Last Calib.: 2015.07.19  
 Start Time: 04:45:05 End Time: 08:13:10 Time On Btm: 2015.07.19 @ 05:57:00  
 Time Off Btm: 2015.07.19 @ 06:51:10

TEST COMMENT: IFP 15 min Very weak surface blow .  
 ISI 30 min No blow back  
 FFP 10 min Dead  
 FSI N/A



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.44	100.95	Initial Hydro-static
5	19.60	101.20	Open To Flow (1)
21	20.83	102.72	Shut-In(1)
49	809.50	104.47	End Shut-In(1)
49	22.28	104.13	Open To Flow (2)
54	20.38	104.44	Shut-In(2)
55	1620.00	105.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.04

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62897

**DST#: 2**

ATTN: Brad Rine

Test Start: 2015.07.19 @ 04:45:00

## Tool Information

Drill Pipe:	Length: 3546.00 ft	Diameter: 3.80 inches	Volume: 49.74 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: 43000.00 lb
			<u>Total Volume: 49.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3553.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 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			3536.00	
Hydraulic tool	5.00			3541.00	
Safety Joint	2.00			3543.00	
Top Packer	5.00			3548.00	
Packer	5.00			3553.00	22.00 Bottom Of Top Packer
Anchor	10.00			3563.00	
Recorder	0.00	6839	Inside	3563.00	
Recorder	0.00	8875	Outside	3563.00	
Bullnose	5.00			3568.00	15.00 Anchor Tool
<b>Total Tool Length:</b>	<b>37.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62897

**DST#: 2**

ATTN: Brad Rine

Test Start: 2015.07.19 @ 04:45:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 9.16 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3500.00 ppm  
Filter Cake: 0.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100%	0.042

Total Length: 3.00 ft      Total Volume: 0.042 bbl

Num Fluid Samples: 0

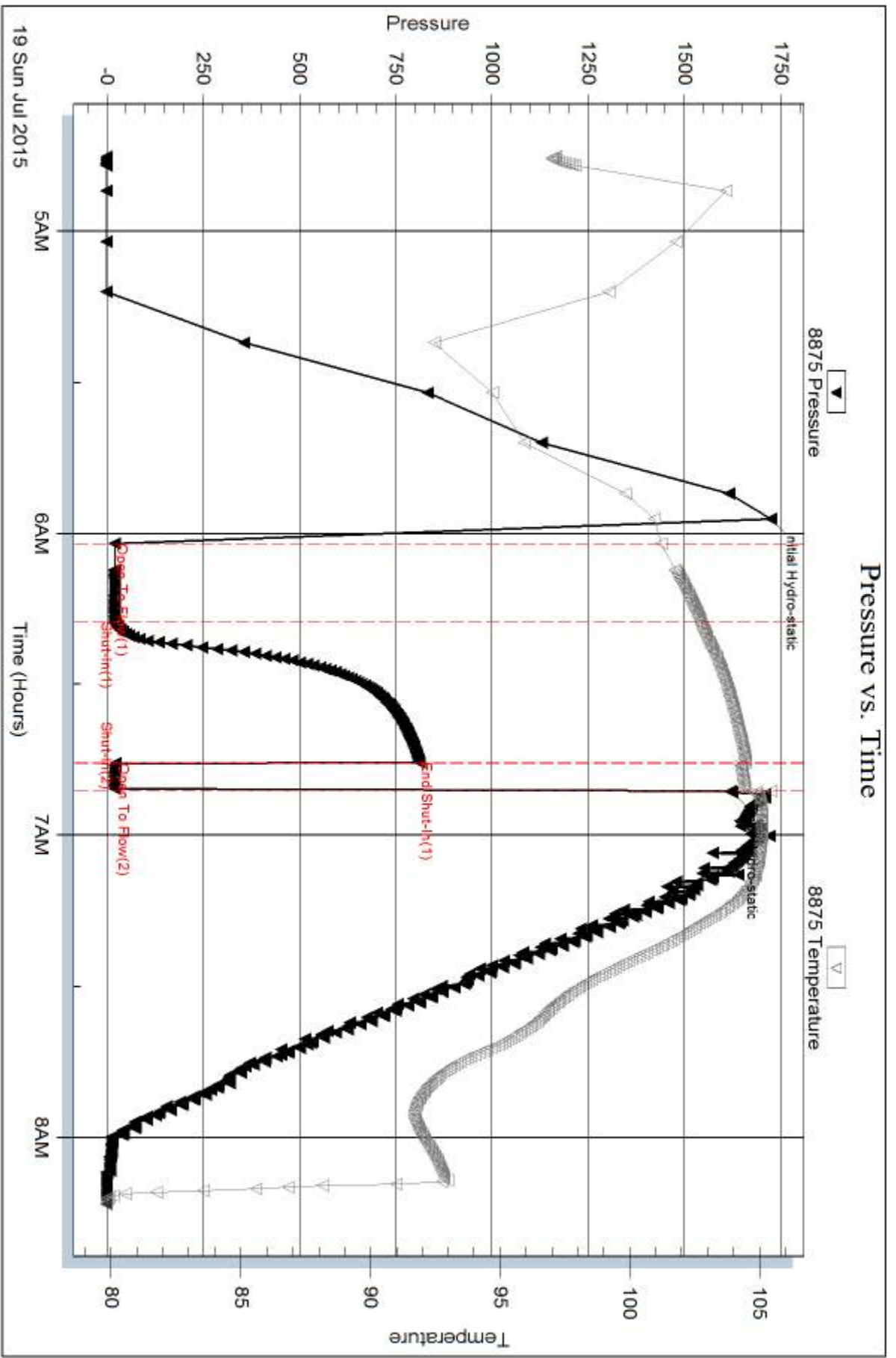
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



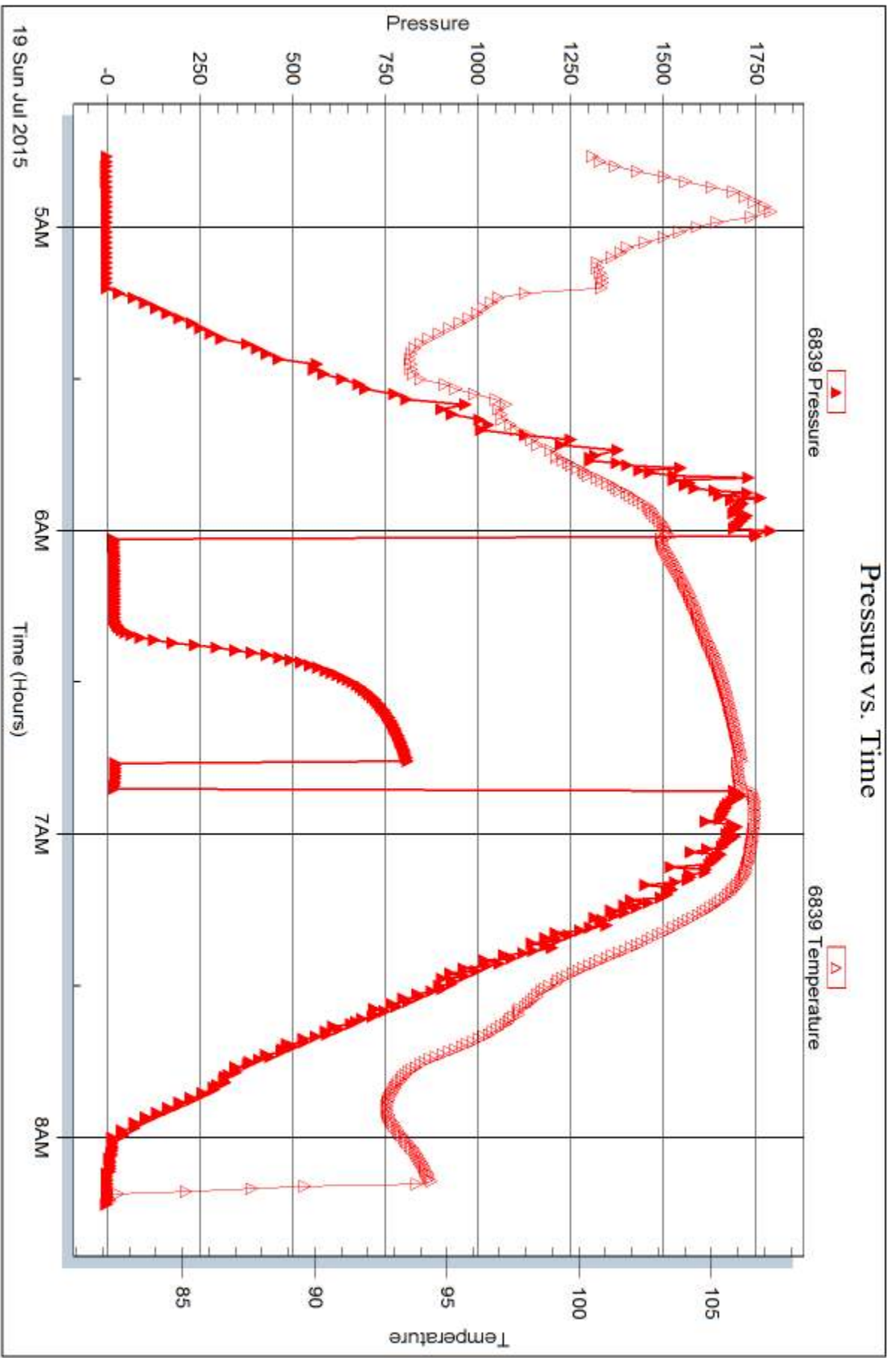
Serial #: 6839

Inside

Carmen Schmitt Inc.

Sweetheart #1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc.**

PO Box 47  
Great Bend KS 67530

ATTN: Brad Rine

### **Sweetheart #1**

#### **20-21s-14w Stafford,KS**

Start Date: 2015.07.20 @ 04:03:00

End Date: 2015.07.20 @ 08:00:20

Job Ticket #: 62898                      DST #: 3

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

Printed: 2015.07.23 @ 09:32:45



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc.  
 PO Box 47  
 Great Bend KS 67530  
 ATTN: Brad Rine

**20-21s-14w Stafford,KS**

**Sweetheart #1**

Job Ticket: 62898 **DST#: 3**

Test Start: 2015.07.20 @ 04:03:00

## GENERAL INFORMATION:

Formation: **LKC J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:15:00  
 Time Test Ended: 08:00:20  
 Interval: **3568.00 ft (KB) To 3585.00 ft (KB) (TVD)**  
 Total Depth: 3585.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 59  
 Reference Elevations: 1948.00 ft (KB)  
 1940.00 ft (CF)  
 KB to GR/CF: 8.00 ft

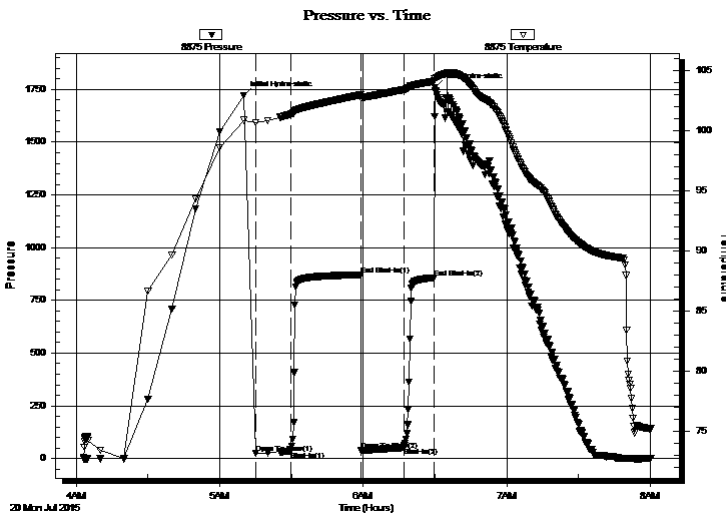
## Serial #: 8875

Inside

Press@RunDepth: 52.78 psig @ 3580.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2015.07.20 End Date: 2015.07.20 Last Calib.: 2015.07.20  
 Start Time: 04:03:05 End Time: 08:00:20 Time On Btm: 2015.07.20 @ 05:10:00  
 Time Off Btm: 2015.07.20 @ 06:30:00

TEST COMMENT: IFP 15 min Weak blow built to 3"  
 ISI 30 min No blow back.  
 FFP 15 min Dead  
 FSI 15 min No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.36	100.86	Initial Hydro-static
5	25.41	100.64	Open To Flow (1)
20	36.35	101.36	Shut-In(1)
49	871.56	102.97	End Shut-In(1)
50	39.34	102.71	Open To Flow (2)
67	52.78	103.40	Shut-In(2)
80	857.70	104.10	End Shut-In(2)
80	1760.12	104.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
34.00	MCW 90%water 10%mud	0.48

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62898

**DST#: 3**

ATTN: Brad Rine

Test Start: 2015.07.20 @ 04:03:00

## Tool Information

Drill Pipe:	Length: 3577.00 ft	Diameter: 3.80 inches	Volume: 50.18 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: 44000.00 lb
			<u>Total Volume: 50.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3568.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	39.00 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			3551.00	
Hydraulic tool	5.00			3556.00	
Safety Joint	2.00			3558.00	
Top Packer	5.00			3563.00	
Packer	5.00			3568.00	22.00 Bottom Of Top Packer
Anchor	12.00			3580.00	
Recorder	0.00	8875	Inside	3580.00	
Recorder	0.00	6839	Outside	3580.00	
Bullnose	5.00			3585.00	17.00 Anchor Tool
<b>Total Tool Length:</b>	<b>39.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62898

**DST#: 3**

ATTN: Brad Rine

Test Start: 2015.07.20 @ 04:03:00

## 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:

79000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
34.00	MCW 90%water 10%mud	0.477

Total Length: 34.00 ft      Total Volume: 0.477 bbf

Num Fluid Samples: 0

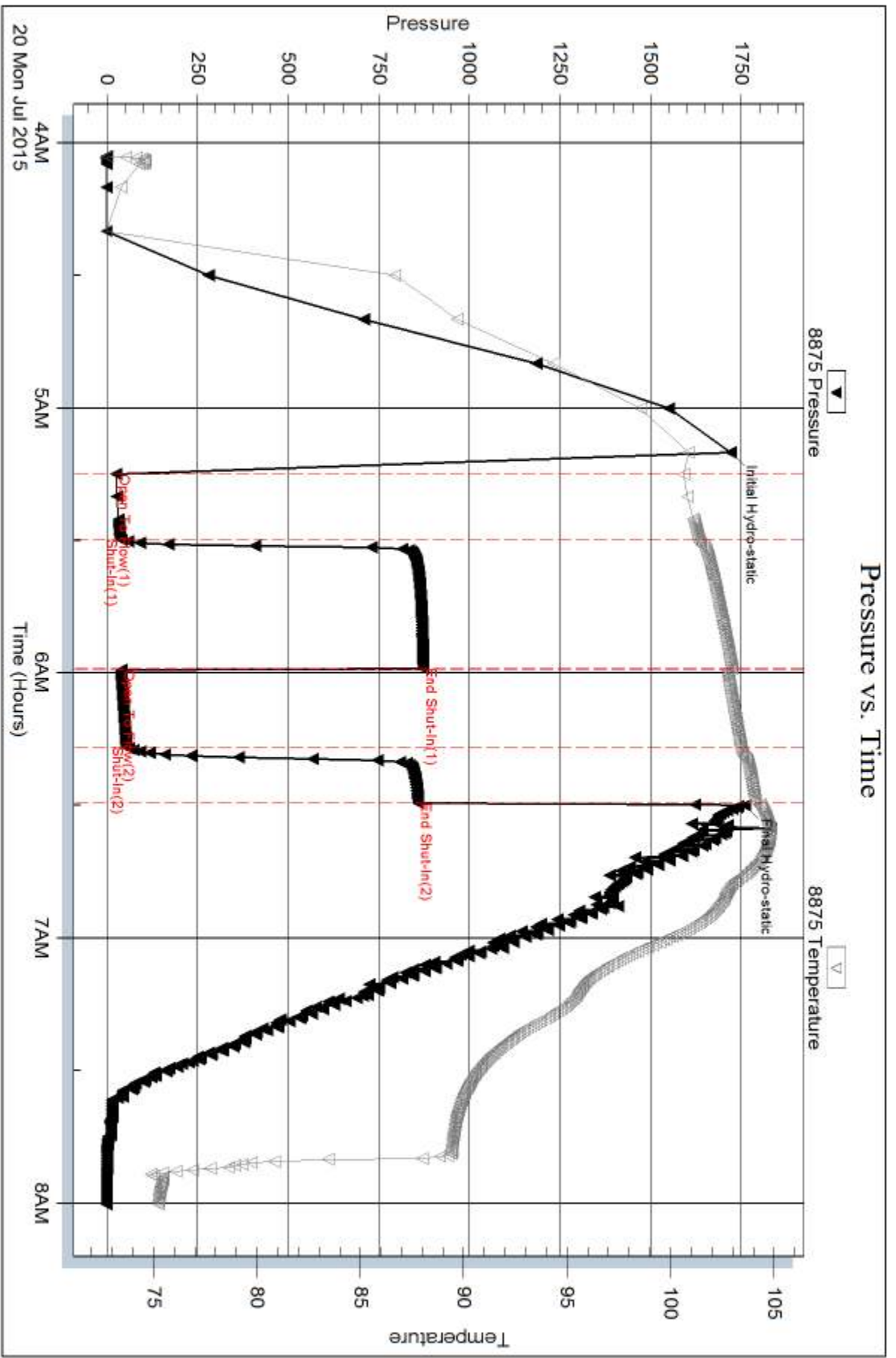
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 79,000

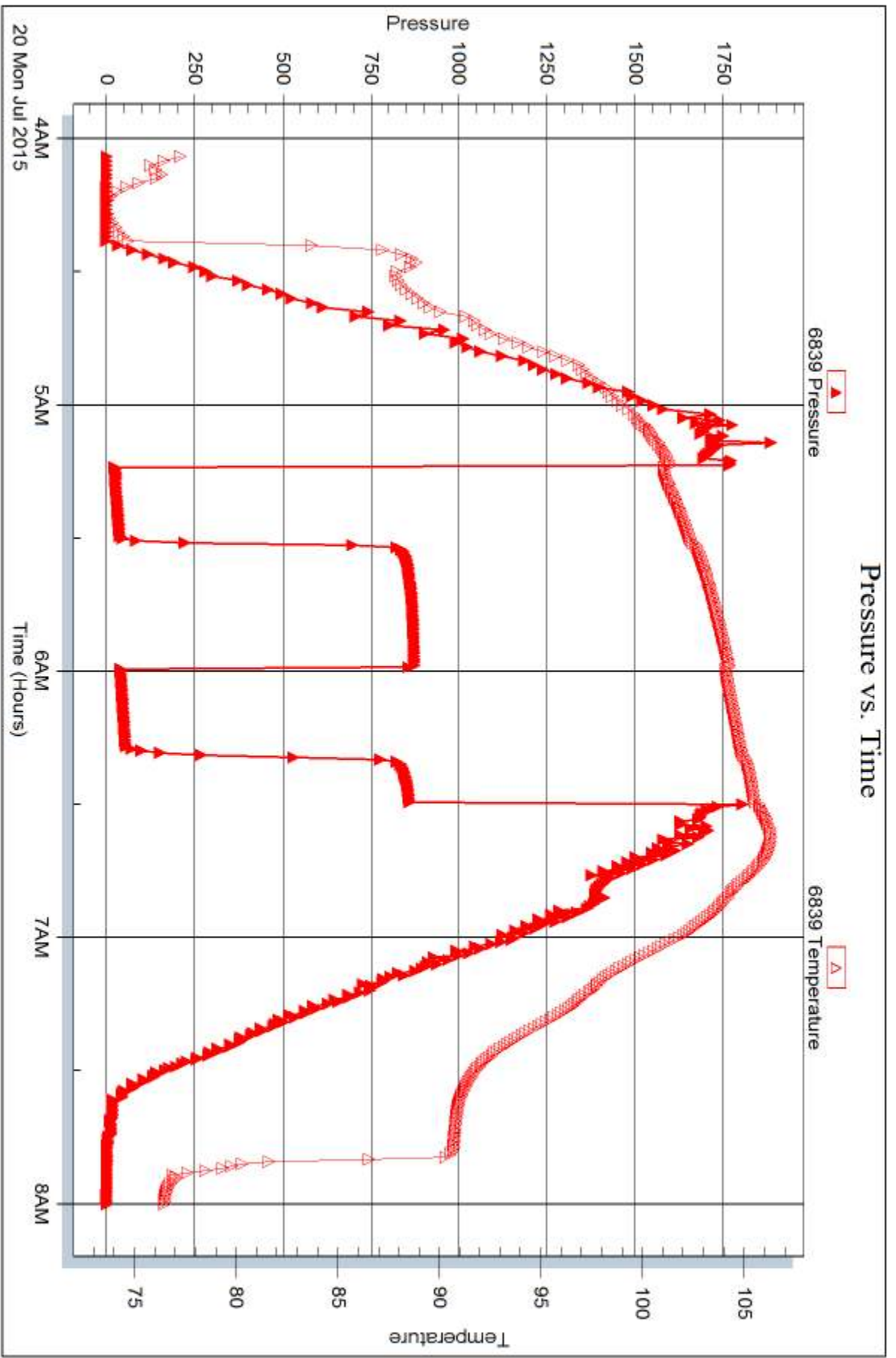


Serial #: 6839

Outside Carmen Schmitt Inc.

Sweetheart #1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc.**

PO Box 47  
Great Bend KS 67530

ATTN: Brad Rine

### **Sweetheart #1**

#### **20-21s-14w Stafford,KS**

Start Date: 2015.07.20 @ 21:55:00

End Date: 2015.07.21 @ 03:24:30

Job Ticket #: 62899                      DST #: 4

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

Printed: 2015.07.23 @ 09:31:21



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc.  
PO Box 47  
Great Bend KS 67530  
ATTN: Brad Rine

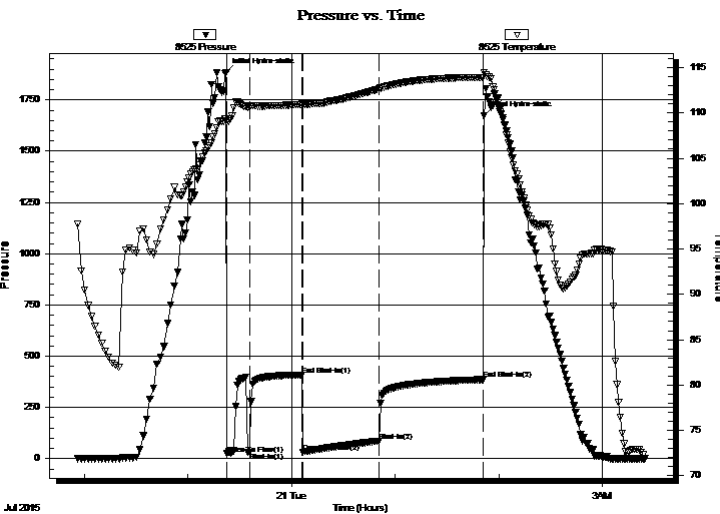
**20-21s-14w Stafford,KS**  
**Sweetheart #1**  
Job Ticket: 62899 **DST#: 4**  
Test Start: 2015.07.20 @ 21:55:00

## GENERAL INFORMATION:

Formation: **Simpson**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:22:30  
Time Test Ended: 03:24:30  
Interval: **3719.00 ft (KB) To 3755.00 ft (KB) (TVD)**  
Total Depth: 3755.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Ellis  
Unit No: 59  
Reference Elevations: 1948.00 ft (KB)  
1940.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8525 Inside**  
Press@RunDepth: 85.81 psig @ 3750.00 ft (KB) Capacity: 5000.00 psig  
Start Date: 2015.07.20 End Date: 2015.07.21 Last Calib.: 2015.07.21  
Start Time: 21:56:00 End Time: 03:24:30 Time On Btm: 2015.07.20 @ 23:22:00  
Time Off Btm: 2015.07.21 @ 01:51:30

TEST COMMENT: IFP 15 min Weak building blow built to 2 1/2"  
ISI 30 min No blow back  
FFP 45 min Weak building blow built to 7"  
FSI 60 min No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.29	109.39	Initial Hydro-static
1	23.36	108.89	Open To Flow (1)
14	30.38	110.65	Shut-In(1)
45	408.68	110.95	End Shut-In(1)
45	31.38	110.84	Open To Flow (2)
89	85.81	112.63	Shut-In(2)
149	385.79	113.92	End Shut-In(2)
150	1673.47	114.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Clean oil 100%	0.01
63.00	MW 10% Mud 90% Water	0.88
19.00	MW w / oil spots 15% mud 85% water	0.27

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62899

**DST#: 4**

ATTN: Brad Rine

Test Start: 2015.07.20 @ 21:55:00

## Tool Information

Drill Pipe:	Length: 3710.00 ft	Diameter: 3.80 inches	Volume: 52.04 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: 37000.00 lb
			<u>Total Volume: 52.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3719.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	58.00 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			3702.00	
Hydraulic tool	5.00			3707.00	
Safety Joint	2.00			3709.00	
Top Packer	5.00			3714.00	
Packer	5.00			3719.00	22.00 Bottom Of Top Packer
Anchor	31.00			3750.00	
Recorder	0.00	8525	Inside	3750.00	
Recorder	0.00	8875	Outside	3750.00	
Bullnose	5.00			3755.00	36.00 Anchor Tool
<b>Total Tool Length:</b>	<b>58.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62899

**DST#: 4**

ATTN: Brad Rine

Test Start: 2015.07.20 @ 21:55:00

## 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:

75000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 0.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1.00	Clean oil 100%	0.014
63.00	MW 10%Mud 90%Water	0.884
19.00	MW w / oil spots 15% mud 85%w ater	0.267

Total Length: 83.00 ft      Total Volume: 1.165 bbl

Num Fluid Samples: 0

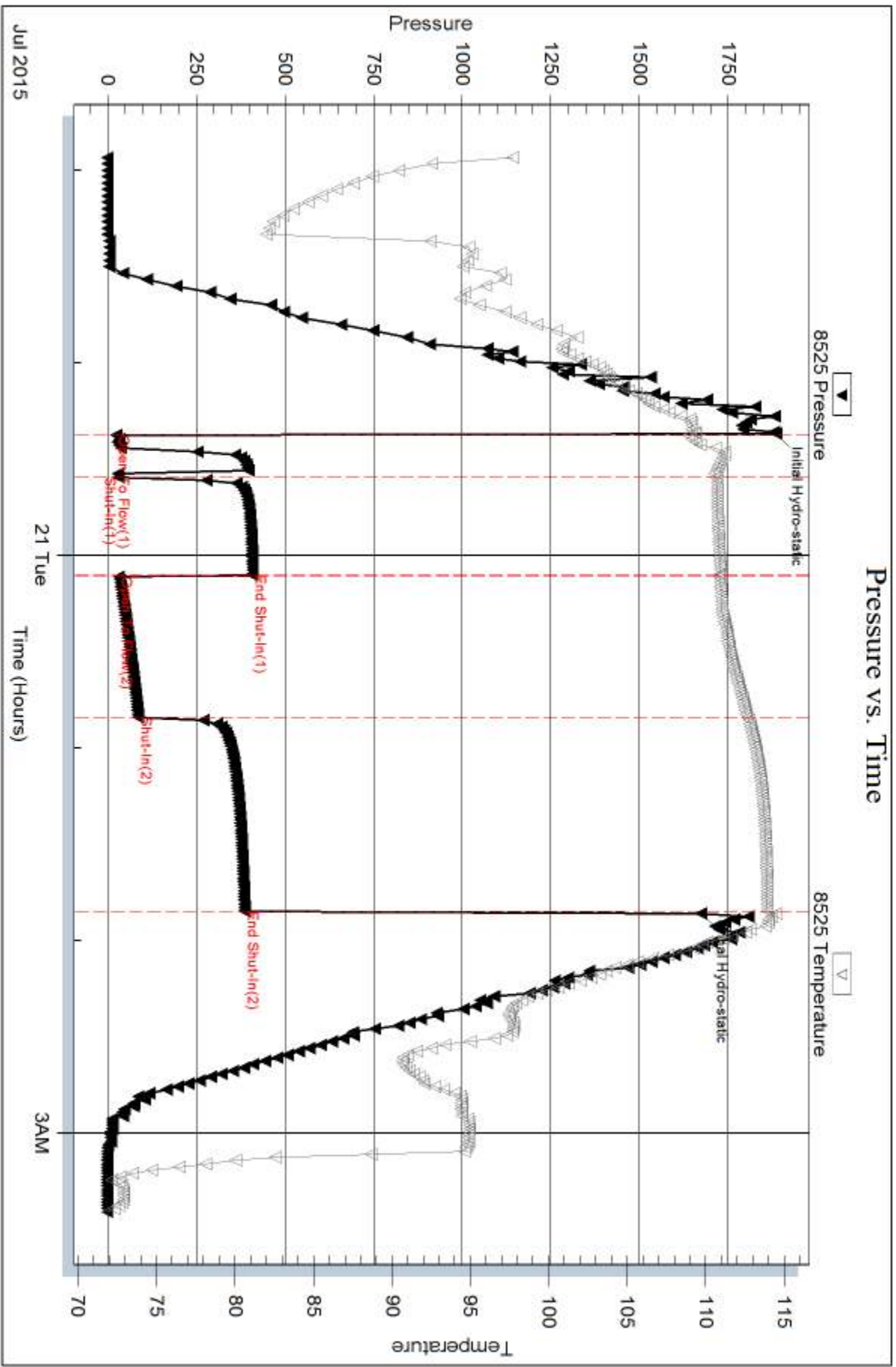
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 75,000







## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc.**

PO Box 47  
Great Bend KS 67530

ATTN: Brad Rine

### **Sweetheart #1**

#### **20-21s-14w Stafford,KS**

Start Date: 2015.07.21 @ 12:57:00

End Date: 2015.07.21 @ 17:56:20

Job Ticket #: 62900                      DST #: 5

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

Printed: 2015.07.23 @ 09:30:00



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc.  
 PO Box 47  
 Great Bend KS 67530  
 ATTN: Brad Rine

**20-21s-14w Stafford,KS**

**Sweetheart #1**

Job Ticket: 62900 **DST#: 5**

Test Start: 2015.07.21 @ 12:57:00

## GENERAL INFORMATION:

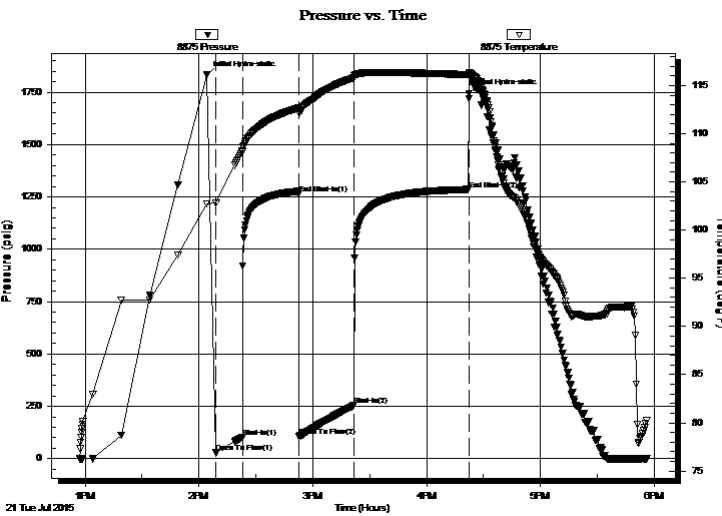
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:09:00  
 Time Test Ended: 17:56:20  
 Interval: **3775.00 ft (KB) To 3784.00 ft (KB) (TVD)**  
 Total Depth: 3784.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 59  
 Reference Elevations: 1948.00 ft (KB)  
 1940.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8875**

**Outside**

Press@RunDepth: 254.69 psig @ 3779.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2015.07.21 End Date: 2015.07.21 Last Calib.: 2015.07.21  
 Start Time: 12:57:05 End Time: 17:56:20 Time On Btm: 2015.07.21 @ 14:04:00  
 Time Off Btm: 2015.07.21 @ 16:22:20

TEST COMMENT: IFP 15 min BOB in 8 min  
 ISI 30 min No blow back  
 FFP 30 min BOB in 7 min.  
 FSI 60 min No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1830.99	102.70	Initial Hydro-static
5	28.09	102.79	Open To Flow (1)
19	102.69	108.19	Shut-In(1)
49	1266.17	112.66	End Shut-In(1)
49	106.59	112.14	Open To Flow (2)
78	254.69	115.78	Shut-In(2)
139	1285.65	116.12	End Shut-In(2)
139	1743.31	116.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
565.00	Water 100%	7.93

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62900

**DST#: 5**

ATTN: Brad Rine

Test Start: 2015.07.21 @ 12:57:00

## Tool Information

Drill Pipe:	Length: 3777.00 ft	Diameter: 3.80 inches	Volume: 52.98 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:	36000.00 lb
			<u>Total Volume: 52.98 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3775.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	31.00 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			3758.00	
Hydraulic tool	5.00			3763.00	
Safety Joint	2.00			3765.00	
Top Packer	5.00			3770.00	
Packer	5.00			3775.00	22.00 Bottom Of Top Packer
Anchor	4.00			3779.00	
Recorder	0.00	6839	Inside	3779.00	
Recorder	0.00	8875	Outside	3779.00	
Bullnose	5.00			3784.00	9.00 Anchor Tool
<b>Total Tool Length:</b>	<b>31.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc.

**20-21s-14w Stafford,KS**

PO Box 47  
Great Bend KS 67530

**Sweetheart #1**

Job Ticket: 62900

**DST#: 5**

ATTN: Brad Rine

Test Start: 2015.07.21 @ 12:57:00

## 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:

96000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
565.00	Water 100%	7.925

Total Length: 565.00 ft      Total Volume: 7.925 bbl

Num Fluid Samples: 0

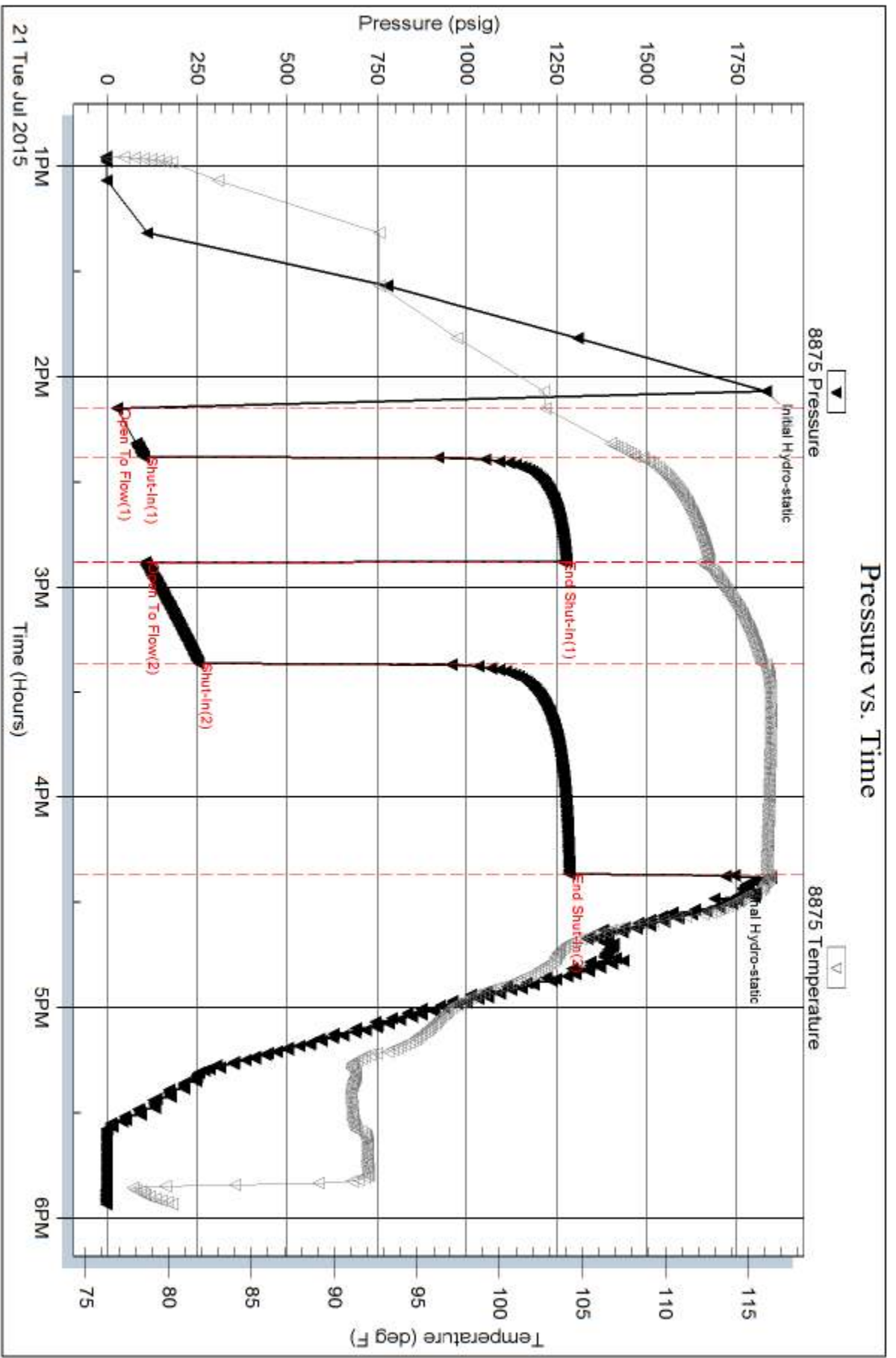
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 96,000



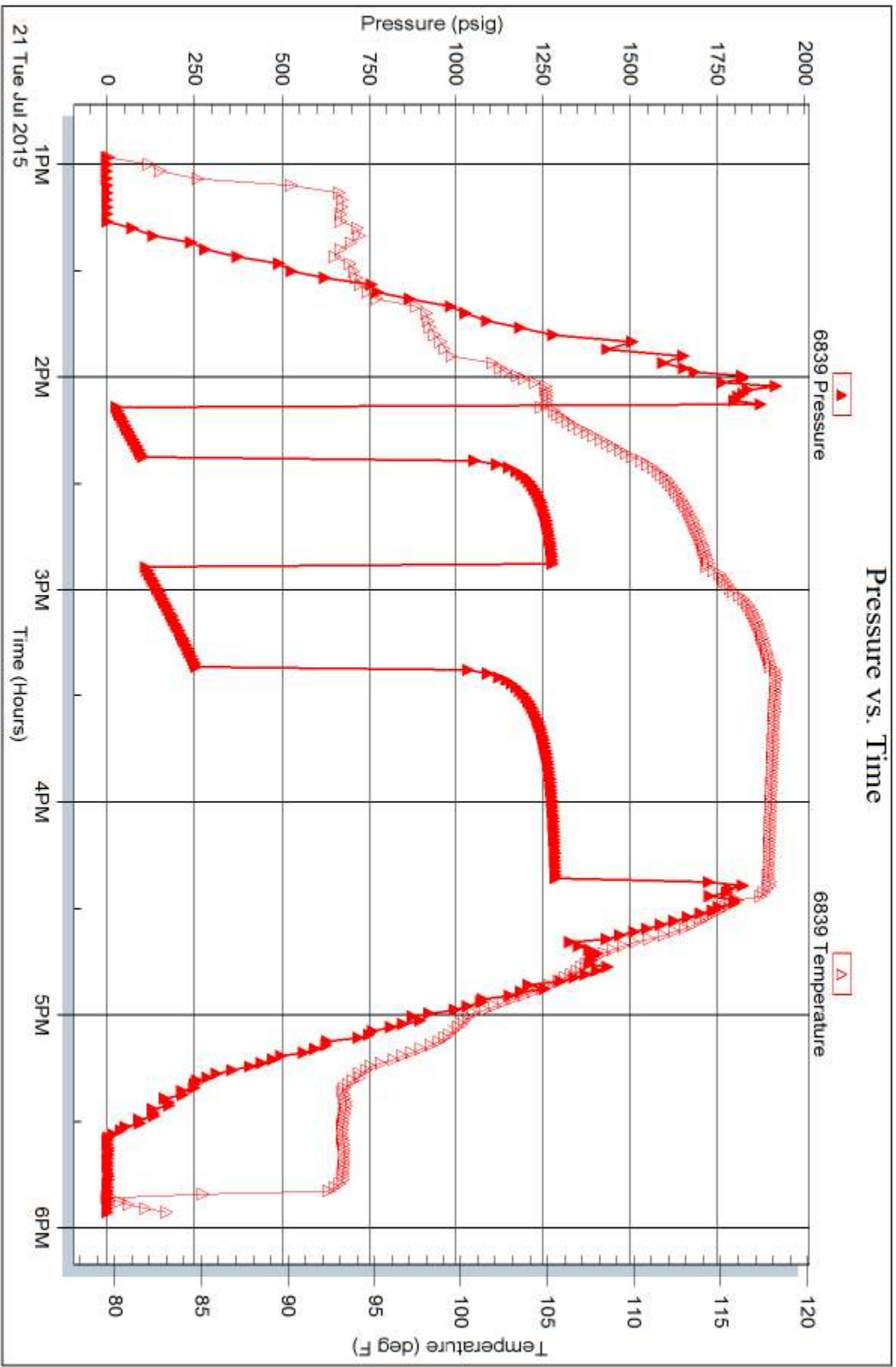
Serial #: 6839

Inside

Carmen Schmitt Inc.

Sweetheart #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 62900

Printed: 2015.07.23 @ 09:30:01



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62896

Well Name & No. Sweetheart #1 Test No. 1 Date 7-19-15  
 Company Carmen Schmitt Inc Elevation 2948 KB 1940 GL  
 Address PO Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Brad Rine Rig South wind Rig 3  
 Location: Sec. 20 Twp. 21S Rge. 14W Co. Stafford State \_\_\_\_\_

Interval Tested 3530-3550 Zone Tested hansing #  
 Anchor Length 20 Drill Pipe Run 3518 Mud Wt. 8.8  
 Top Packer Depth 3525 Drill Collars Run 0 Vis 45  
 Bottom Packer Depth 3530 Wt. Pipe Run 32,000 WL 9.2  
 Total Depth 3550 Chlorides 3500 ppm System LCM 0

Blow Description 1st open - weak blow built to 1/2 inch  
1st shut in - No blow back  
2nd open - Dead  
2nd shut in - N/A

Rec	Feet of	%gas	%oil	%water	%mud
<u>7</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 7 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1682  Test 1050 T-On Location 7:10am  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 7:52am  
 (C) First Final Flow 18  Safety Joint 75 T-Open 9:13am  
 (D) Initial Shut-In 626  Circ Sub \_\_\_\_\_ T-Pulled 10:18am  
 (E) Second Initial Flow 19  Hourly Standby \_\_\_\_\_ T-Out 11:40am  
 (F) Second Final Flow -  Mileage 32 32 Comments \_\_\_\_\_  
 (G) Final Shut-In -  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1621  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 15  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 15  Day Standby \_\_\_\_\_ Total 1157  
 Final Shut-In N/A  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1157

Approved By \_\_\_\_\_ Our Representative Dustin Ellis

TriLOBITE TESTING Inc. shall not be liable for damaged or 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. 62897

Well Name & No. Sweetheart #1 Test No. 2 Date 7-19-15  
 Company Carmen Schmitt Inc Elevation 1948 KB 1940 GL  
 Address PO Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Brad Rine Rig \_\_\_\_\_  
 Location: Sec. 20 Twp. 21s Rge. 14w Co. Stafford State KS

Interval Tested 3553 - 3568 Zone Tested Lansing I  
 Anchor Length 15 Drill Pipe Run 3546 Mud Wt. 8.8  
 Top Packer Depth 3548 Drill Collars Run 0 Vis 45  
 Bottom Packer Depth 3553 Wt. Pipe Run \_\_\_\_\_ WL 9.2  
 Total Depth 3568 Chlorides 3500 ppm System LCM 0

Blow Description 1st open - very weak surface blow.

1st shut in - No flow back

2nd open - Dead

2nd shut in - N-A

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>mud</u>			<u>100</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 3 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1723

(B) First Initial Flow 19

(C) First Final Flow 20

(D) Initial Shut-In 809

(E) Second Initial Flow 22

(F) Second Final Flow N-A

(G) Final Shut-In N-A

(H) Final Hydrostatic 1620

Test \_\_\_\_\_

Jars \_\_\_\_\_

Safety Joint 75

Circ Sub \_\_\_\_\_

Hourly Standby \_\_\_\_\_

Mileage 32 32

Sampler \_\_\_\_\_

Straddle \_\_\_\_\_

Shale Packer \_\_\_\_\_

Extra Packer \_\_\_\_\_

Extra Recorder \_\_\_\_\_

Day Standby \_\_\_\_\_

Accessibility \_\_\_\_\_

Sub Total 1157

T-On Location 4:15 pm

T-Started 4:45 pm

T-Open 6:05 pm

T-Pulled 7:10 pm

T-Out 8:20 pm

Comments \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_

Ruined Packer \_\_\_\_\_

Extra Copies \_\_\_\_\_

Sub Total 0

Total 1157

MP/DST Disc't \_\_\_\_\_

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

Our Representative Dustin Ellis

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62898

Well Name & No. Sweetheart #1 Test No. 3 Date 7-20-15  
 Company Carmen Schmitt Inc Elevation 1948 KB 1940 GL  
 Address Po Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Brad Aine Rig South Wind Drilling Rig 3  
 Location: Sec. 20 Twp. 21S Rge. 14W Co. Stafford State \_\_\_\_\_

Interval Tested 3568-3585 Zone Tested Lansing J  
 Anchor Length 17 Drill Pipe Run 3577 Mud Wt. 9.23  
 Top Packer Depth 3563 Drill Collars Run 0 Vis 63  
 Bottom Packer Depth 3568 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3585 Chlorides 4800 ppm System LCM 0

Blow Description 1st open - weak building blow built to 3 inches  
1st shut in - No blow back.  
2nd open - Dead.  
2nd shut in - no blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>34</u>	<u>Watercut mud</u>			<u>90</u>	<u>10</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 34 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 79000 ppm

(A) Initial Hydrostatic 1720  Test 1050 T-On Location 3:45am  
 (B) First Initial Flow 25  Jars \_\_\_\_\_ T-Started 4:03am  
 (C) First Final Flow 36  Safety Joint 75 T-Open 5:12am  
 (D) Initial Shut-In 9071  Circ Sub \_\_\_\_\_ T-Pulled 6:36am  
 (E) Second Initial Flow 39  Hourly Standby \_\_\_\_\_ T-Out 8:00am  
 (F) Second Final Flow 52  Mileage 32 Comments \_\_\_\_\_  
 (G) Final Shut-In 857  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1760  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 15  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 15  Day Standby \_\_\_\_\_ Total 1157  
 Final Shut-In 15  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1157

Approved By \_\_\_\_\_ Our Representative Dustin Ellis

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62899

Well Name & No. Sweetheart #1 Test No. 4 Date 7-20-15  
 Company Carmen Schmitt Inc Elevation 1048 KB 1940 GL  
 Address PO Box 47 Great Bend Ks 67530  
 Co. Rep / Geo. Brad Rice Rig Southwind Drilling Rig 3  
 Location: Sec. 20 Twp. 21s Rge. 14w Co. Stafford State Ks

Interval Tested 3719 - 3755 Zone Tested Simpson  
 Anchor Length 36 Drill Pipe Run 370 Mud Wt. 9.3  
 Top Packer Depth 3714 Drill Collars Run 0 Vis 64  
 Bottom Packer Depth 3719 Wt. Pipe Run 32,000 WL 10.2  
 Total Depth 3755 Chlorides 9200 ppm System LCM 0

Blow Description 1st open - weak blow built to 2 1/2 inches.  
1st shut-in - No blow back.  
2nd open - weak blow built to 7 inches.  
2nd shut-in - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>lean oil</u>				
<u>63</u>	<u>Waterpart mud</u>		<u>90</u>	<u>10</u>	
<u>19</u>	<u>very lightly oil spotted</u>		<u>85</u>	<u>15</u>	
	<u>muddy water</u>				

Rec Total 83 BHT 112 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 75000 ppm

(A) Initial Hydrostatic 1884  Test 1050 T-On Location 9:20pm  
 (B) First Initial Flow 23  Jars \_\_\_\_\_ T-Started 9:55pm  
 (C) First Final Flow 30  Safety Joint 75 T-Open 11:20pm  
 (D) Initial Shut-In 408  Circ Sub \_\_\_\_\_ T-Pulled 1:50am  
 (E) Second Initial Flow 31  Hourly Standby \_\_\_\_\_ T-Out 3:20am  
 (F) Second Final Flow 85  Mileage 32 Comments \_\_\_\_\_  
 (G) Final Shut-In 395  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1473  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 60

Sub Total 1157  
 Total 1157  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Dustin Ellis

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62900

Well Name & No. Sweetheart #1 Test No. 5 Date 7-21-15  
 Company Carmen Schmitt Inc. Elevation 1948 KB 1940 GL  
 Address Po Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Brad Rine Rig Southwind Drilling Rig 3  
 Location: Sec. 20 Twp. 21s Rge. 14w Co. Stafford State KS

Interval Tested 3775 - 3784 Zone Tested Arbuckle  
 Anchor Length 9 Drill Pipe Run 3777 Mud Wt. 9.2  
 Top Packer Depth 3770 Drill Collars Run 0 Vis 67  
 Bottom Packer Depth 3775 Wt. Pipe Run 27000 WL 10.2  
 Total Depth 3784 Chlorides 10500 ppm System LCM 0

Blow Description 1st open - BOB in 8 min.  
1st shut-in - No flow back.  
2nd open - BOB in 7 min.  
2nd shut-in - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>565</u>	<u>water</u>		<u>100</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 565 BHT 115 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 96,000 ppm

(A) Initial Hydrostatic <u>1630</u>	<input type="checkbox"/> Test <u>1050</u>	T-On Location <u>12:20pm</u>
(B) First Initial Flow <u>28</u>	<input type="checkbox"/> Jars _____	T-Started <u>12:57pm</u>
(C) First Final Flow <u>102</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:07pm</u>
(D) Initial Shut-In <u>1266</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>4:22pm</u>
(E) Second Initial Flow <u>106</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>6:00pm</u>
(F) Second Final Flow <u>254</u>	<input checked="" type="checkbox"/> Mileage <u>32</u>	Comments <u>2 Shale Packers.</u>
(G) Final Shut-In <u>1205</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1743</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>500</u>	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input checked="" type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1657</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1657</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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