



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Betty #1**

#### **12-14s-26w Gove,KS**

Start Date: 2019.01.27 @ 12:09:00

End Date: 2019.01.27 @ 19:29:45

Job Ticket #: 65179                      DST #: 1

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

Printed: 2019.02.01 @ 10:11:36

Carmen Schmitt, Inc. 12-14s-26w Gove,KS Betty #1 DST # 1 LKC H 2019.01.27



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**12-14s-26w Gove, KS**  
**Betty #1**  
Job Ticket: 65179      **DST#: 1**  
Test Start: 2019.01.27 @ 12:09:00

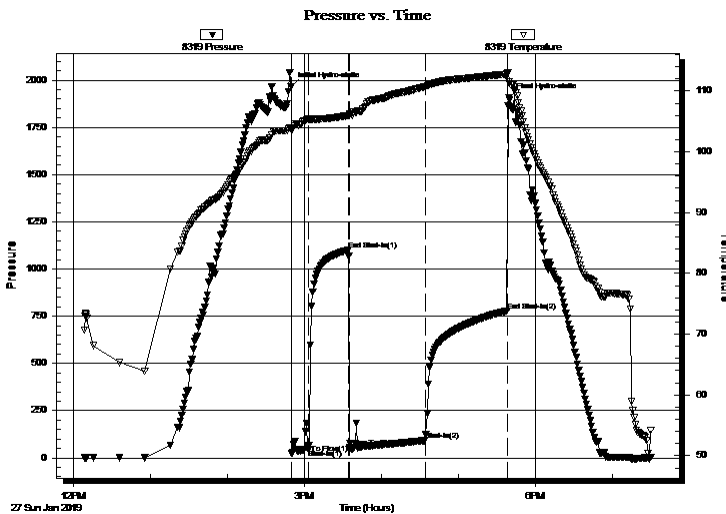
## GENERAL INFORMATION:

Formation: **LKC H**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:50:15  
Time Test Ended: 19:29:45  
Interval: **3867.00 ft (KB) To 3905.00 ft (KB) (TVD)**  
Total Depth: 3905.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 2448.00 ft (KB)  
2443.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8319      Outside**  
Press@RunDepth: 90.74 psig @ 3868.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.01.27      End Date: 2019.01.27      Last Calib.: 2019.01.27  
Start Time: 12:09:05      End Time: 19:29:44      Time On Btm: 2019.01.27 @ 14:49:45  
Time Off Btm: 2019.01.27 @ 17:39:30

**TEST COMMENT:** 15- IF: 2" blow .  
30- IS: No return.  
60- FF: 4 1/2" blow .  
60- FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1965.55	103.98	Initial Hydro-static
1	25.34	103.59	Open To Flow (1)
14	42.83	105.34	Shut-In(1)
45	1100.62	105.97	End Shut-In(1)
46	54.68	106.01	Open To Flow (2)
105	90.74	110.71	Shut-In(2)
169	778.96	112.75	End Shut-In(2)
170	1906.28	111.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	w cm 25w 75m- Oil spots on top	0.74

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt, Inc.

**12-14s-26w Gove, KS**

PO Box 47  
Great Bend, KS 67530

**Betty #1**

Job Ticket: 65179

**DST#: 1**

ATTN: Brad Rine

Test Start: 2019.01.27 @ 12:09:00

## Tool Information

Drill Pipe:	Length: 3667.00 ft	Diameter: 3.80 inches	Volume: 51.44 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3867.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	65.00 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			3841.00	
Shut In Tool	5.00		Fluid	3846.00	
Hydraulic tool	5.00			3851.00	
Jars	5.00			3856.00	
Safety Joint	2.00			3858.00	
Packer	5.00		Inside	3863.00	27.00 Bottom Of Top Packer
Packer	4.00			3867.00	
Stubb	1.00			3868.00	
Recorder	0.00	8522	Inside	3868.00	
Recorder	0.00	8319	Outside	3868.00	
Perforations	34.00			3902.00	
Bullnose	3.00			3905.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt, Inc.

**12-14s-26w Gove,KS**

PO Box 47  
Great Bend, KS 67530

**Betty #1**

Job Ticket: 65179

**DST#: 1**

ATTN: Brad Rine

Test Start: 2019.01.27 @ 12:09:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	w cm 25w 75m- Oil spots on top	0.738

Total Length: 150.00 ft      Total Volume: 0.738 bbl

Num Fluid Samples: 0

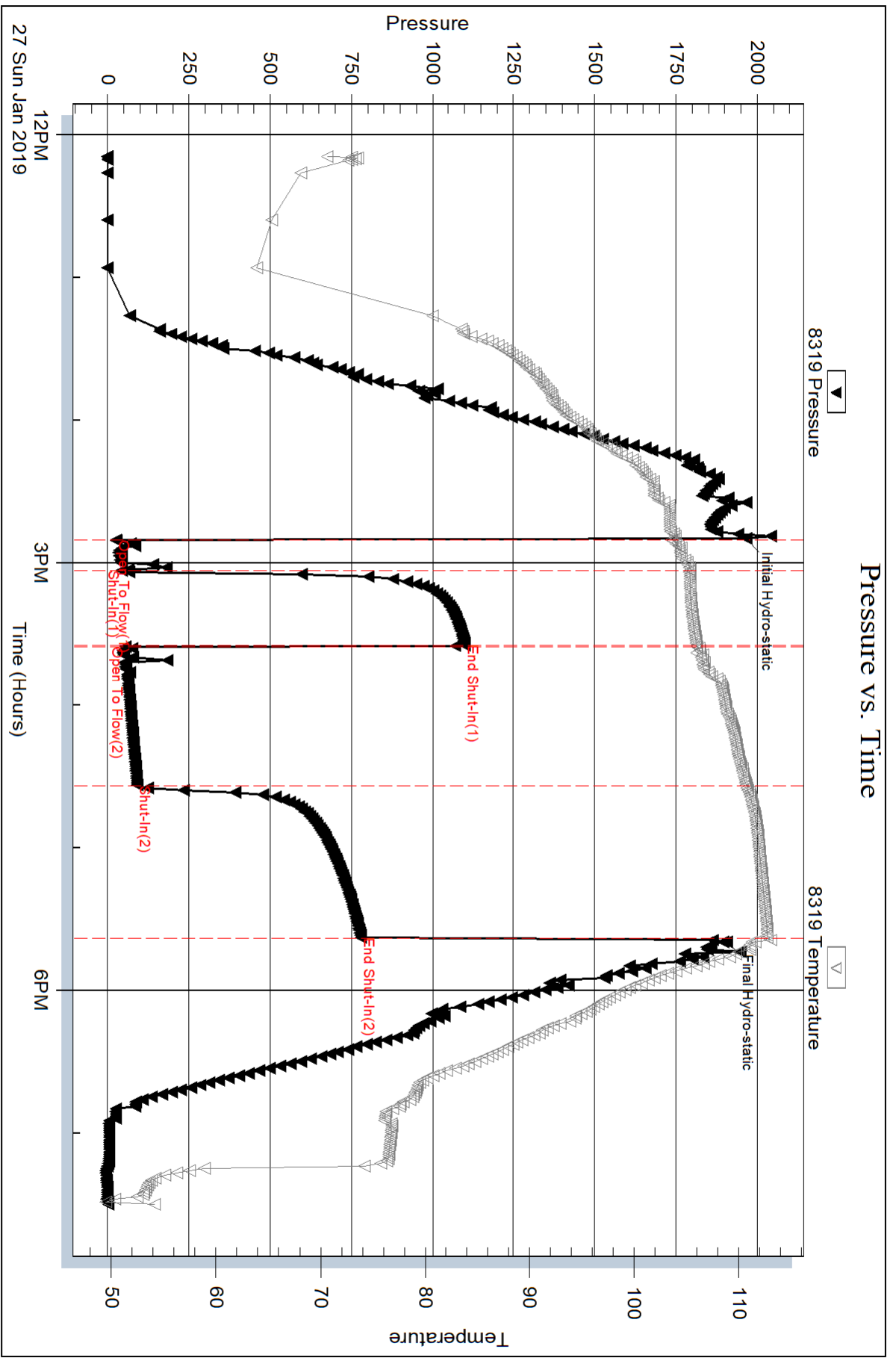
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .308 @ 54F = 28000ppm





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Betty #1**

#### **12-14s-26w Gove,KS**

Start Date: 2019.01.28 @ 01:40:00

End Date: 2019.01.28 @ 08:47:45

Job Ticket #: 65180                      DST #: 2

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

Printed: 2019.02.01 @ 10:10:48



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**12-14s-26w Gove, KS**  
**Betty #1**  
 Job Ticket: 65180      **DST#: 2**  
 Test Start: 2019.01.28 @ 01:40:00

## GENERAL INFORMATION:

Formation: **LKC I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:07:00  
 Time Test Ended: 08:47:45  
**Interval: 3897.00 ft (KB) To 3925.00 ft (KB) (TVD)**  
 Total Depth: 3925.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2448.00 ft (KB)  
 2443.00 ft (CF)  
 KB to GR/CF: 5.00 ft

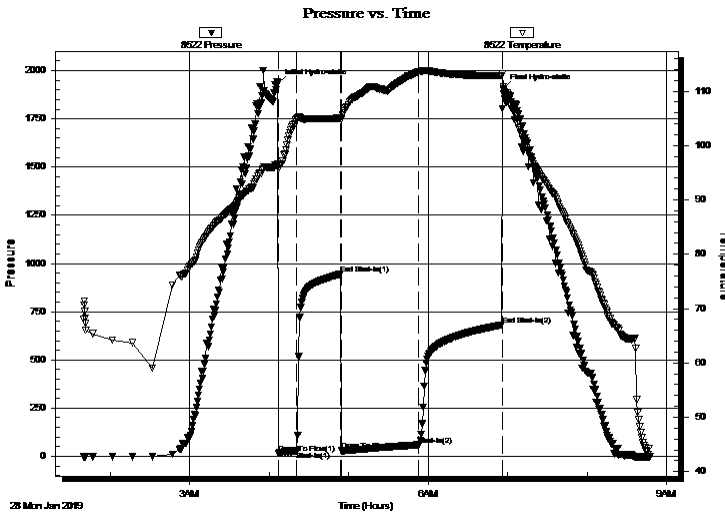
## Serial #: 8522

Inside

Press@RunDepth: 59.37 psig @ 3898.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.01.28      End Date: 2019.01.28      Last Calib.: 2019.01.28  
 Start Time: 01:40:05      End Time: 08:47:44      Time On Btm: 2019.01.28 @ 04:06:45  
 Time Off Btm: 2019.01.28 @ 06:56:45

TEST COMMENT: 15- IF: 1 1/2" blow .  
 30- IS: No return.  
 60- FF: 2 1/2" blow .  
 60- FSI: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1934.46	96.57	Initial Hydro-static
1	17.14	95.63	Open To Flow (1)
14	26.29	104.89	Shut-In(1)
48	945.00	105.04	End Shut-In(1)
48	28.90	104.88	Open To Flow (2)
107	59.37	113.60	Shut-In(2)
169	681.24	112.92	End Shut-In(2)
170	1905.29	110.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	mcw 20m 80w - Oil spots in tool	0.44

\* Recovery from multiple tests

## Gas Rates

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



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PO Box 47  
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ATTN: Brad Rine

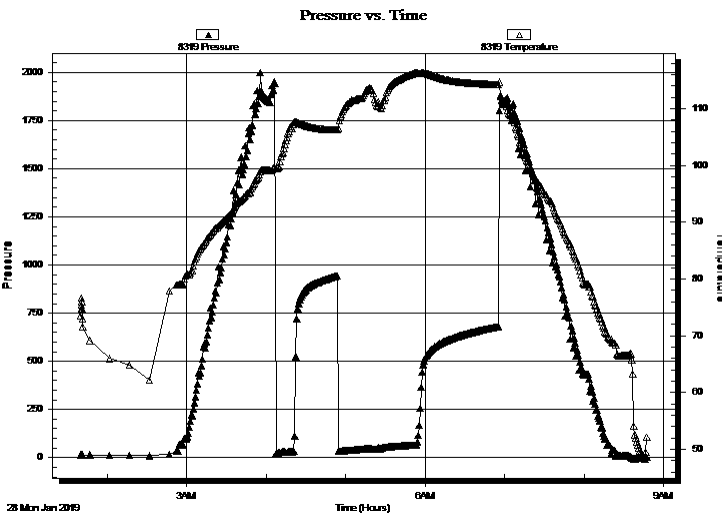
**12-14s-26w Gove, KS**  
**Betty #1**  
Job Ticket: 65180      **DST#: 2**  
Test Start: 2019.01.28 @ 01:40:00

## GENERAL INFORMATION:

Formation: <b>LKC I</b>	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Bradley Walter
Time Tool Opened: 04:07:00	Unit No: 78
Time Test Ended: 08:47:45	Reference Elevations: 2448.00 ft (KB)
<b>Interval: 3897.00 ft (KB) To 3925.00 ft (KB) (TVD)</b>	2443.00 ft (CF)
Total Depth: 3925.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

<b>Serial #: 8319</b>	<b>Outside</b>	Capacity: 8000.00 psig
Press@RunDepth: psig @ 3898.00 ft (KB)	Start Date: 2019.01.28	Last Calib.: 2019.01.28
End Date: 2019.01.28	End Time: 08:47:44	Time On Btm:
Start Time: 01:40:05		Time Off Btm:

TEST COMMENT: 15- IF: 1 1/2" blow .  
30- IS: No return.  
60- FF: 2 1/2" blow .  
60- FSI: No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	mcw 20m 80w - Oil spots in tool	0.44

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**12-14s-26w Gove, KS**  
**Betty #1**  
Job Ticket: 65180      **DST#: 2**  
Test Start: 2019.01.28 @ 01:40:00

**Tool Information**

Drill Pipe:	Length: 3698.00 ft	Diameter: 3.80 inches	Volume: 51.87 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 52.75 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3897.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3871.00	
Shut In Tool	5.00		Fluid	3876.00	
Hydraulic tool	5.00			3881.00	
Jars	5.00			3886.00	
Safety Joint	2.00			3888.00	
Packer	5.00		Inside	3893.00	27.00 Bottom Of Top Packer
Packer	4.00			3897.00	
Stubb	1.00			3898.00	
Recorder	0.00	8522	Inside	3898.00	
Recorder	0.00	8319	Outside	3898.00	
Perforations	24.00			3922.00	
Bullnose	3.00			3925.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**12-14s-26w Gove, KS**

PO Box 47  
Great Bend, KS 67530

**Betty #1**

Job Ticket: 65180

**DST#: 2**

ATTN: Brad Rine

Test Start: 2019.01.28 @ 01:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

67000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	mcw 20m 80w - Oil spots in tool	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

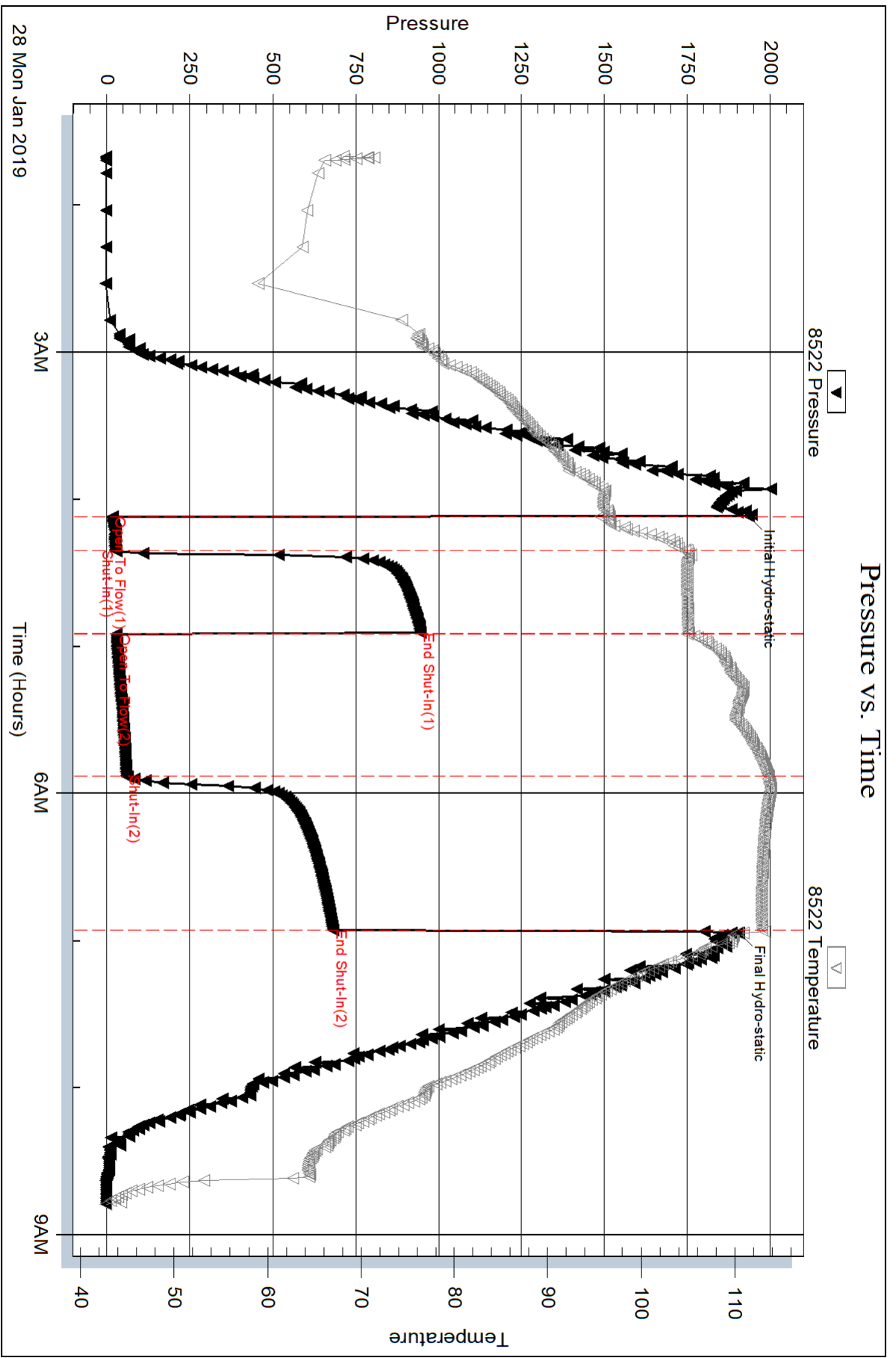
Num Gas Bombs: 0

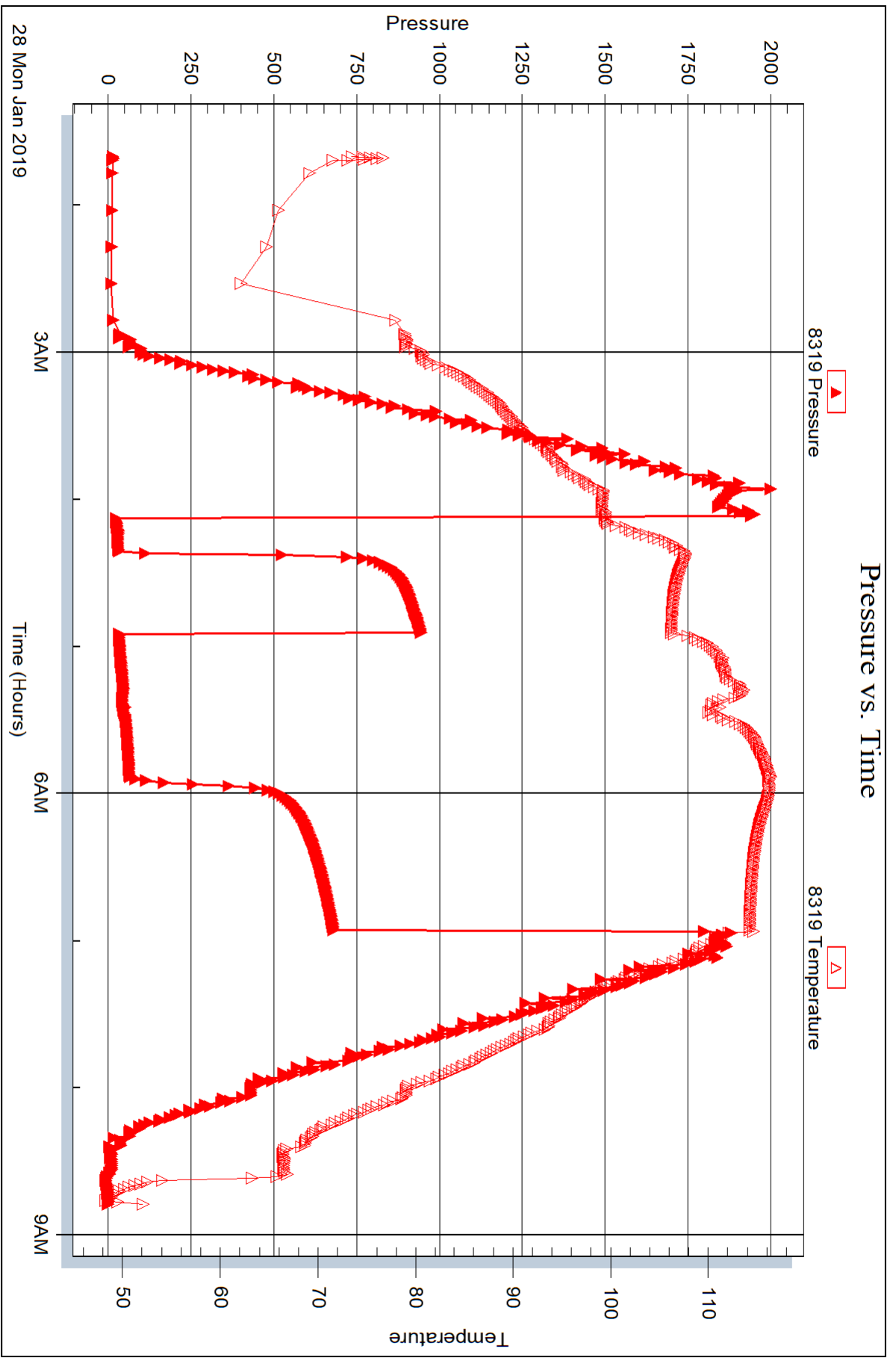
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .170 @ 47 f = 67,000ppm







## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Betty #1**

#### **12-14s-26w Gove,KS**

Start Date: 2019.01.28 @ 18:45:00

End Date: 2019.01.29 @ 02:39:45

Job Ticket #: 65181                      DST #: 3

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

Printed: 2019.02.01 @ 10:10:16



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

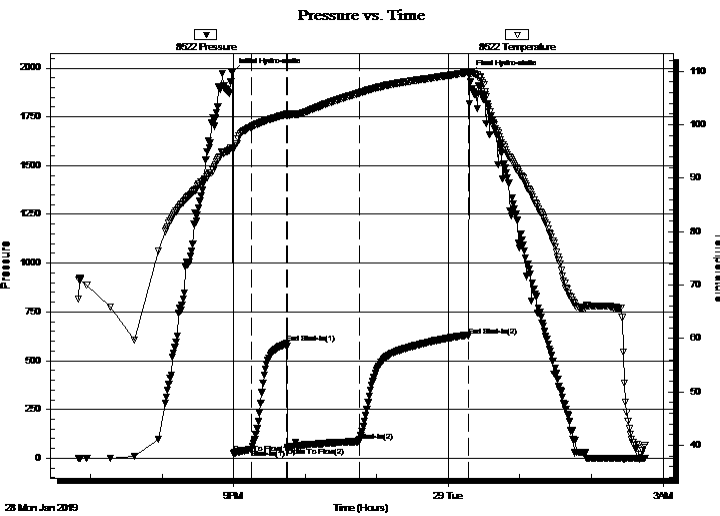
**12-14s-26w Gove, KS**  
**Betty #1**  
Job Ticket: 65181      **DST#: 3**  
Test Start: 2019.01.28 @ 18:45:00

## GENERAL INFORMATION:

Formation: **LKC K**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 20:54:45  
Time Test Ended: 02:39:45  
Interval: **3946.00 ft (KB) To 3979.00 ft (KB) (TVD)**  
Total Depth: 3979.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 2448.00 ft (KB)  
2443.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8522      Inside**  
Press@RunDepth: 88.93 psig @ 3947.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.01.28      End Date: 2019.01.29      Last Calib.: 2019.01.29  
Start Time: 18:50:05      End Time: 02:44:44      Time On Btm: 2019.01.28 @ 20:59:00  
Time Off Btm: 2019.01.29 @ 00:18:00

**TEST COMMENT:** 15- IF: 9" blow.  
30- IS: No return.  
60- FF: BOB @ 15 min. built to 31.5".  
90- FSI: Surface return, died @ 20 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1975.56	95.78	Initial Hydro-static
1	23.41	95.64	Open To Flow (1)
16	45.24	99.59	Shut-In(1)
46	588.16	101.94	End Shut-In(1)
47	55.10	101.73	Open To Flow (2)
107	88.93	105.88	Shut-In(2)
198	626.55	109.78	End Shut-In(2)
199	1964.59	109.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
170.00	gmco 10g 40m 50o	0.84
20.00	oil 100o	0.20
0.00	240' GIP	0.00

\* Recovery from multiple tests

## 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

12-14s-26w Gove, KS

**Betty #1**

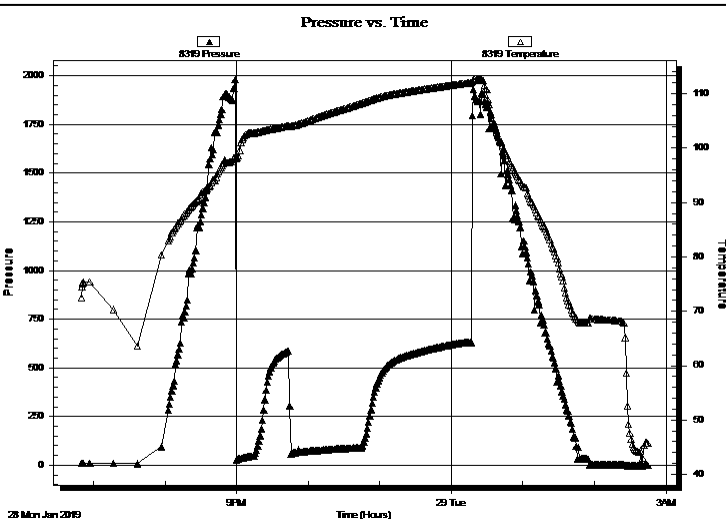
Job Ticket: 65181 **DST#: 3**  
 Test Start: 2019.01.28 @ 18:45:00

### GENERAL INFORMATION:

Formation: **LKC K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:54:45  
 Time Test Ended: 02:39:45  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
**Interval: 3946.00 ft (KB) To 3979.00 ft (KB) (TVD)**  
 Reference Elevations: 2448.00 ft (KB)  
 Total Depth: 3979.00 ft (KB) (TVD) 2443.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

**Serial #: 8319 Outside**  
 Press@RunDepth: psig @ 3947.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.01.28 End Date: 2019.01.29 Last Calib.: 2019.01.29  
 Start Time: 18:50:05 End Time: 02:44:44 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 15- IF: 9" blow.  
 30- IS: No return.  
 60- FF: BOB @ 15 min. built to 31.5".  
 90- FS: Surface return, died @ 20 min.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
170.00	gmco 10g 40m 50o	0.84
20.00	oil 100o	0.20
0.00	240' GIP	0.00

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt, Inc.

**12-14s-26w Gove, KS**

PO Box 47  
Great Bend, KS 67530

**Betty #1**

Job Ticket: 65181

**DST#: 3**

ATTN: Brad Rine

Test Start: 2019.01.28 @ 18:45:00

## Tool Information

Drill Pipe:	Length: 3761.00 ft	Diameter: 3.80 inches	Volume: 52.76 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 53.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3946.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			3920.00	
Shut In Tool	5.00		Fluid	3925.00	
Hydraulic tool	5.00			3930.00	
Jars	5.00			3935.00	
Safety Joint	2.00			3937.00	
Packer	5.00		Inside	3942.00	27.00 Bottom Of Top Packer
Packer	4.00			3946.00	
Stubb	1.00			3947.00	
Recorder	0.00	8522	Inside	3947.00	
Recorder	0.00	8319	Outside	3947.00	
Perforations	29.00			3976.00	
Bullnose	3.00			3979.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**12-14s-26w Gove,KS**

PO Box 47  
Great Bend, KS 67530

**Betty #1**

Job Ticket: 65181

**DST#: 3**

ATTN: Brad Rine

Test Start: 2019.01.28 @ 18:45:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	gmco 10g 40m 50o	0.836
20.00	oil 100o	0.199
0.00	240' GIP	0.000

Total Length: 190.00 ft      Total Volume: 1.035 bbl

Num Fluid Samples: 0

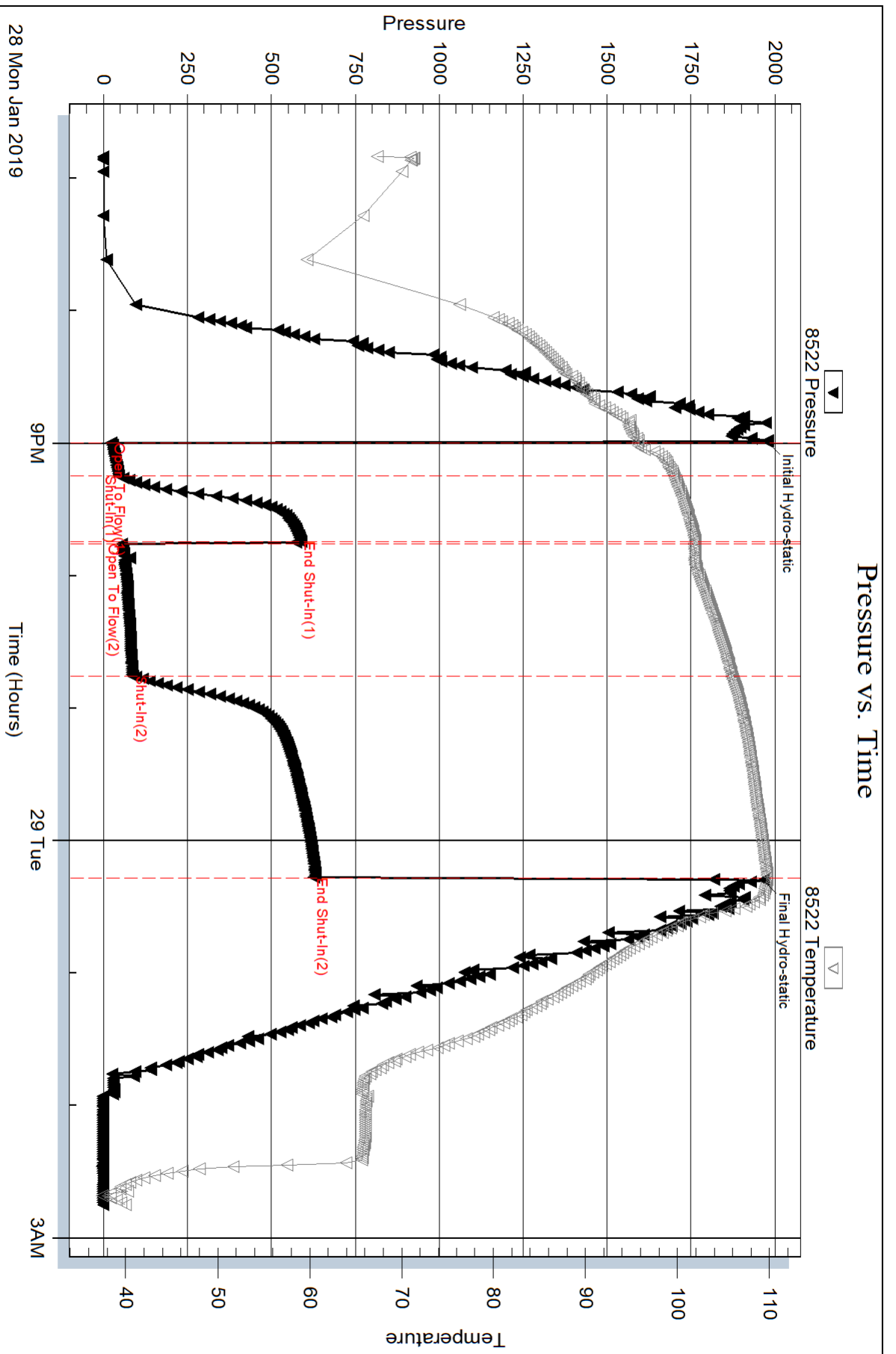
Num Gas Bombs: 0

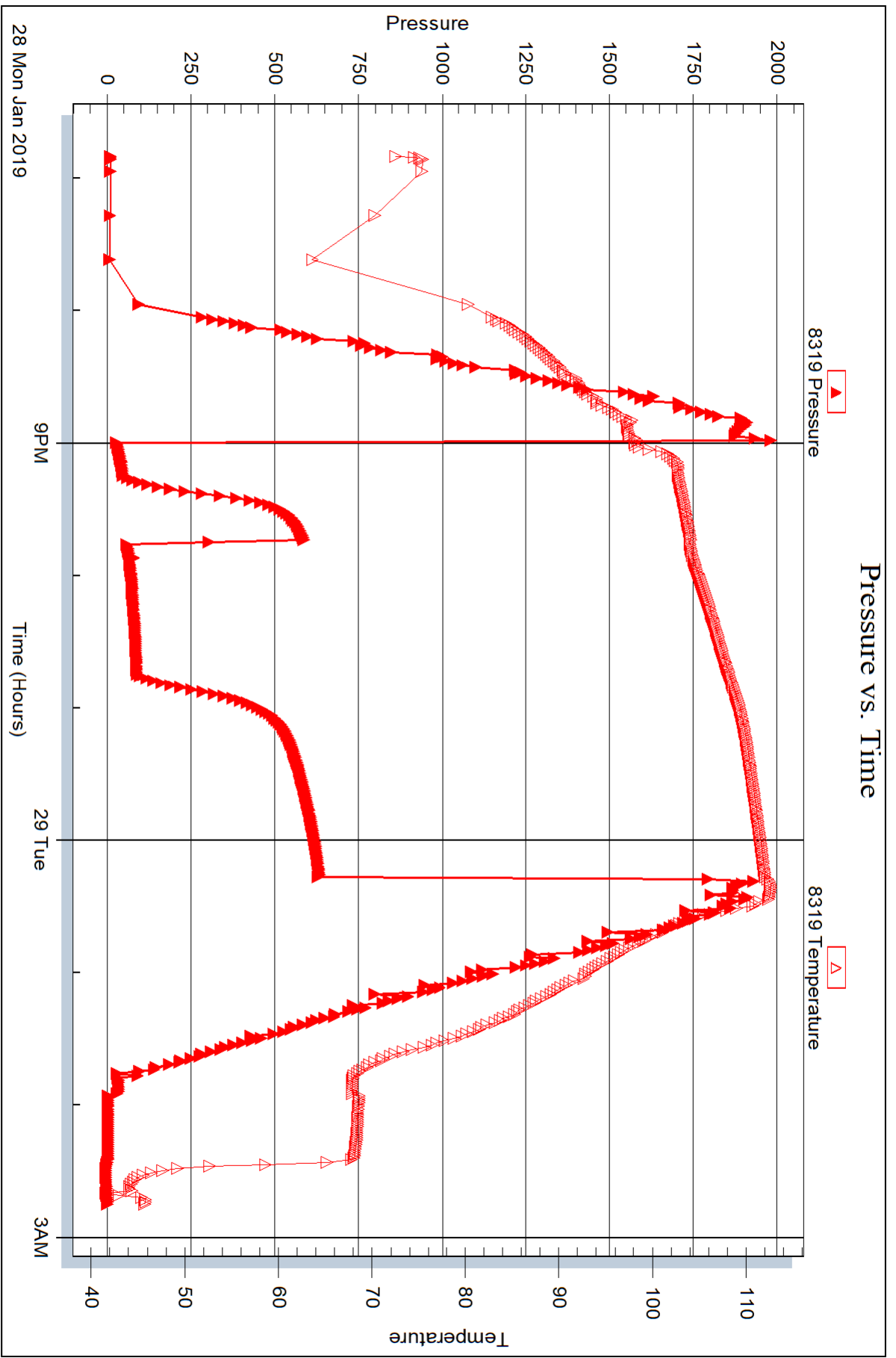
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Betty #1**

#### **12-14s-26w Gove,KS**

Start Date: 2019.01.29 @ 10:35:00

End Date: 2019.01.29 @ 18:40:30

Job Ticket #: 65182                      DST #: 4

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

Printed: 2019.02.01 @ 10:09:47



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**12-14s-26w Gove,KS**  
**Betty #1**  
Job Ticket: 65182      **DST#: 4**  
Test Start: 2019.01.29 @ 10:35:00

## GENERAL INFORMATION:

Formation: **LKC L**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:08:00  
Time Test Ended: 18:40:30  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Interval: **3986.00 ft (KB) To 4020.00 ft (KB) (TVD)**  
Reference Elevations: 2448.00 ft (KB)  
Total Depth: 4020.00 ft (KB) (TVD)      2443.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 5.00 ft

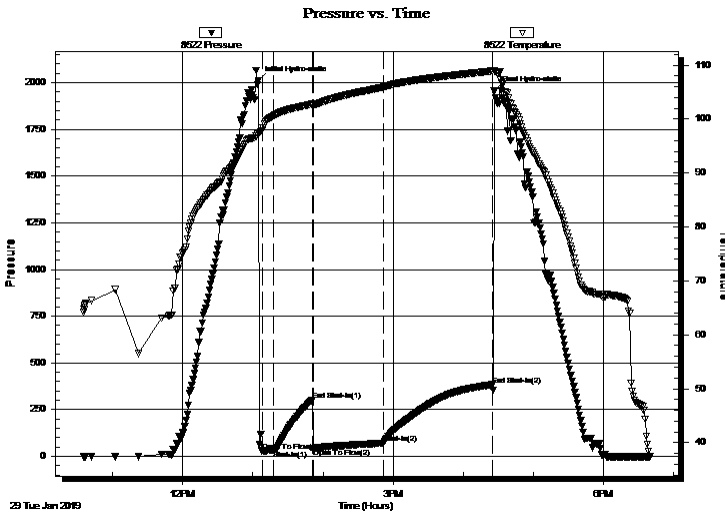
## Serial #: 8522

Inside

Press@RunDepth: 70.55 psig @ 3987.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.01.29      End Date: 2019.01.29      Last Calib.: 2019.01.29  
Start Time: 10:35:05      End Time: 18:40:29      Time On Btm: 2019.01.29 @ 13:05:00  
Time Off Btm: 2019.01.29 @ 16:26:30

TEST COMMENT: 15- IF: 11" blow .  
30- IS: Surface return.  
60- FF: 26" blow .  
90- FSI: Surface return, died @ 20 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2012.64	97.48	Initial Hydro-static
3	27.67	97.84	Open To Flow (1)
13	35.17	100.58	Shut-In(1)
46	300.80	102.77	End Shut-In(1)
47	41.10	102.57	Open To Flow (2)
107	70.55	105.95	Shut-In(2)
201	383.01	108.91	End Shut-In(2)
202	1958.88	109.03	Final Hydro-static

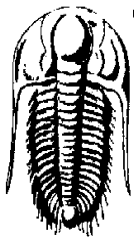
## Recovery

Length (ft)	Description	Volume (bbl)
140.00	gmco 10g 30m 60o	0.69
20.00	oil 100o	0.10
0.00	260' GIP	0.00

\* Recovery from multiple tests

## 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

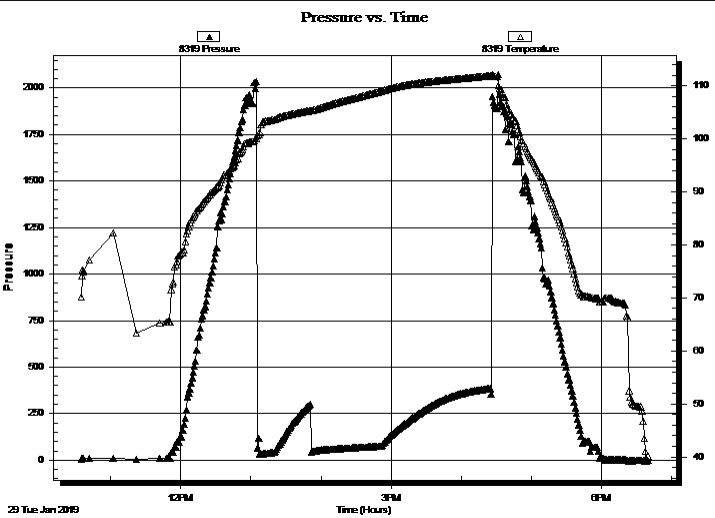
**12-14s-26w Gove, KS**  
**Betty #1**  
Job Ticket: 65182      **DST#: 4**  
Test Start: 2019.01.29 @ 10:35:00

## GENERAL INFORMATION:

Formation: **LKC L**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 13:08:00  
Time Test Ended: 18:40:30  
Interval: **3986.00 ft (KB) To 4020.00 ft (KB) (TVD)**  
Total Depth: 4020.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 2448.00 ft (KB)  
2443.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8319      Outside**  
Press@RunDepth:                      psig @ 3987.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.01.29      End Date: 2019.01.29      Last Calib.: 2019.01.29  
Start Time: 10:35:05      End Time: 18:40:29      Time On Btm:  
Time Off Btm:

TEST COMMENT: 15- IF: 11" blow .  
30- IS: Surface return.  
60- FF: 26" blow .  
90- FSI: Surface return, died @ 20 min.



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

Recovery		
Length (ft)	Description	Volume (bbl)
140.00	gmco 10g 30m 60o	0.69
20.00	oil 100o	0.10
0.00	260' GIP	0.00

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**12-14s-26w Gove, KS**  
**Betty #1**  
Job Ticket: 65182      **DST#: 4**  
Test Start: 2019.01.29 @ 10:35:00

**Tool Information**

Drill Pipe:	Length: 3793.00 ft	Diameter: 3.80 inches	Volume: 53.21 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 54.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3986.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3960.00	
Shut In Tool	5.00		Fluid	3965.00	
Hydraulic tool	5.00			3970.00	
Jars	5.00			3975.00	
Safety Joint	2.00			3977.00	
Packer	5.00		Inside	3982.00	27.00 Bottom Of Top Packer
Packer	4.00			3986.00	
Stubb	1.00			3987.00	
Recorder	0.00	8522	Inside	3987.00	
Recorder	0.00	8319	Outside	3987.00	
Perforations	30.00			4017.00	
Bullnose	3.00			4020.00	34.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**12-14s-26w Gove, KS**

PO Box 47  
Great Bend, KS 67530

**Betty #1**

Job Ticket: 65182

**DST#: 4**

ATTN: Brad Rine

Test Start: 2019.01.29 @ 10:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
140.00	gmco 10g 30m 60o	0.688
20.00	oil 100o	0.098
0.00	260' GIP	0.000

Total Length: 160.00 ft      Total Volume: 0.786 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

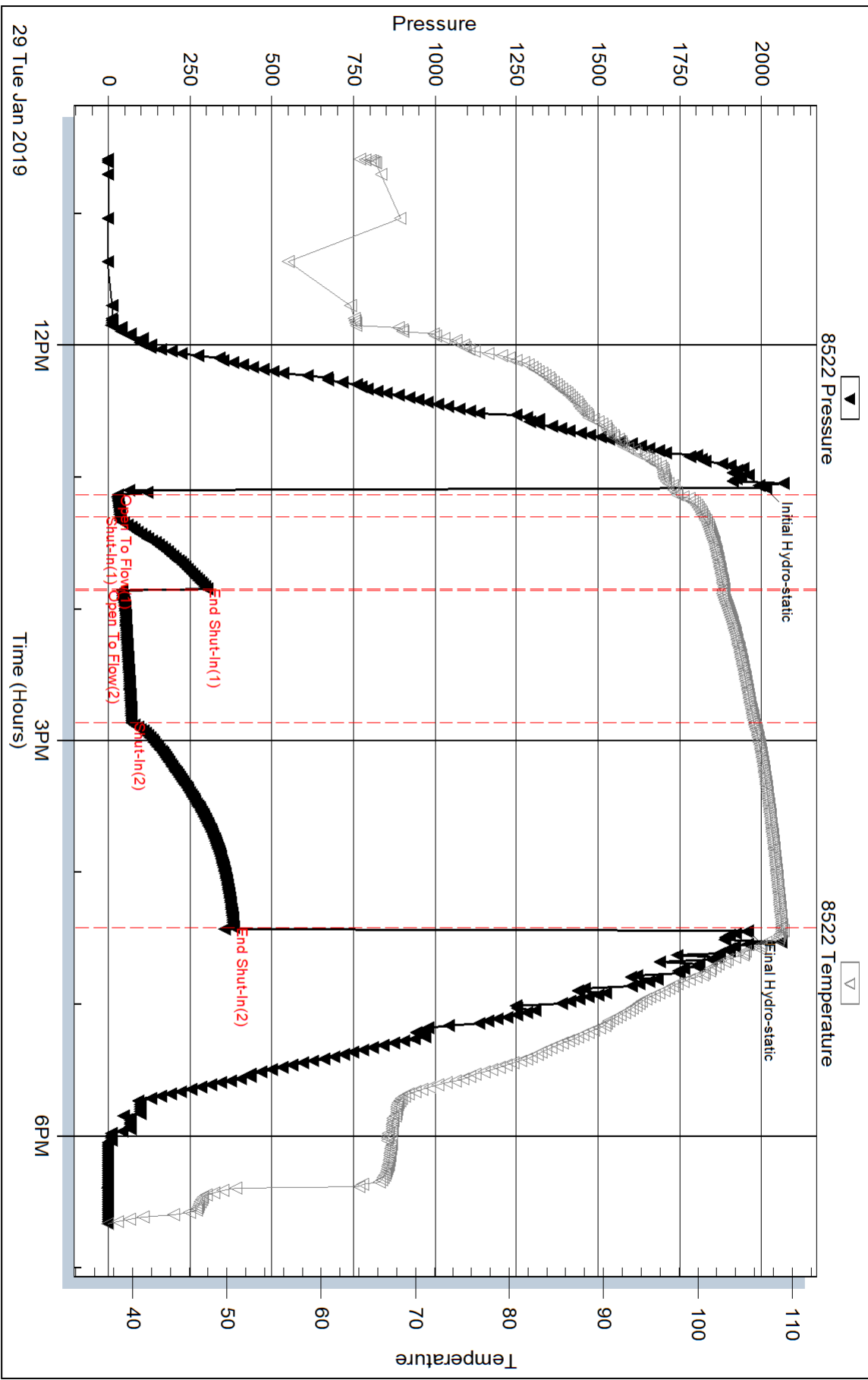
Laboratory Name:

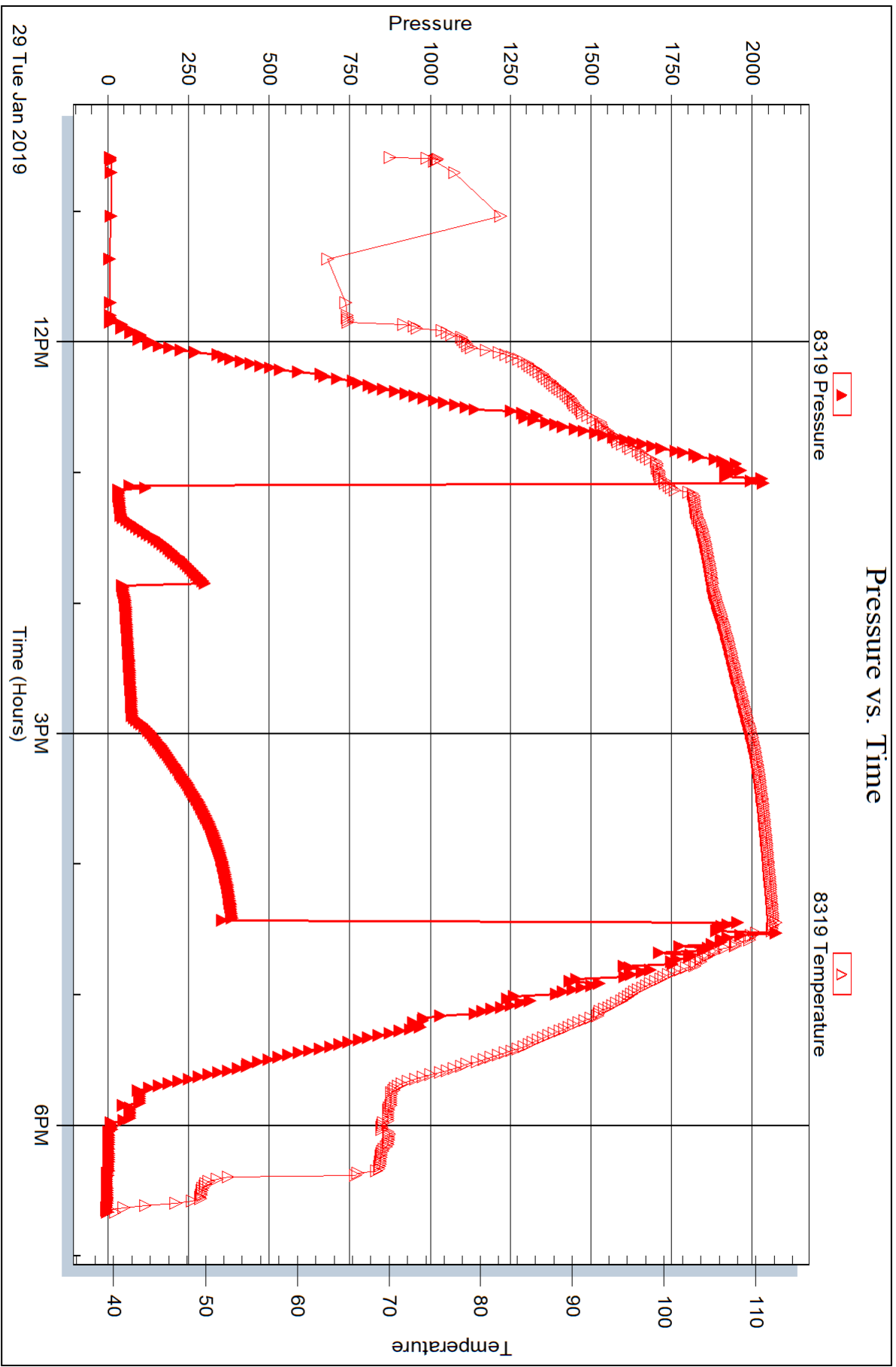
Laboratory Location:

Recovery Comments:



# Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Betty #1**

#### **12-14s-26w Gove,KS**

Start Date: 2019.01.31 @ 02:11:00

End Date: 2019.01.31 @ 08:39:00

Job Ticket #: 65183                      DST #: 5

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

Printed: 2019.02.01 @ 10:06:02

Carmen Schmitt, Inc. 12-14s-26w Gove,KS Betty #1 DST # 5 Mississippian 2019.01.31



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

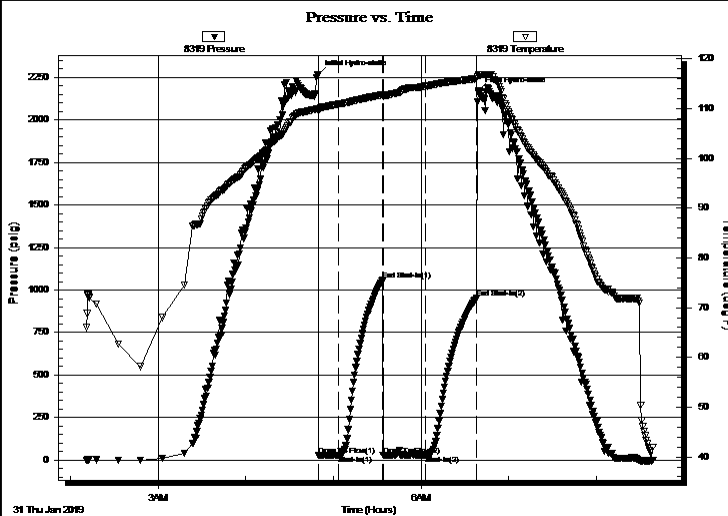
**12-14s-26w Gove, KS**  
**Betty #1**  
 Job Ticket: 65183      **DST#: 5**  
 Test Start: 2019.01.31 @ 02:11:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 04:50:00  
 Time Test Ended: 08:39:00  
 Interval: **4356.00 ft (KB) To 4382.00 ft (KB) (TVD)**  
 Total Depth: 4382.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2448.00 ft (KB)  
 2443.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8319      Outside**  
 Press@RunDepth: 29.77 psig @ 4357.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.01.31      End Date: 2019.01.31      Last Calib.: 2019.01.31  
 Start Time: 02:11:05      End Time: 08:38:59      Time On Btm: 2019.01.31 @ 04:49:45  
 Time Off Btm: 2019.01.31 @ 06:39:30

**TEST COMMENT:** 15- IF: 1" blow .  
 30- IS: No return.  
 30- FF: Surface blow .  
 30- FSI: No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2268.22	109.93	Initial Hydro-static
1	28.41	109.60	Open To Flow (1)
14	28.75	110.88	Shut-In(1)
44	1057.02	112.77	End Shut-In(1)
45	28.43	112.35	Open To Flow (2)
74	29.77	114.49	Shut-In(2)
108	951.11	116.01	End Shut-In(2)
110	2169.75	116.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m w/ Oil spots	0.05

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

**12-14s-26w Gove,KS**  
  
**Betty #1**  
Job Ticket: 65183      **DST#: 5**  
Test Start: 2019.01.31 @ 02:11:00

### GENERAL INFORMATION:

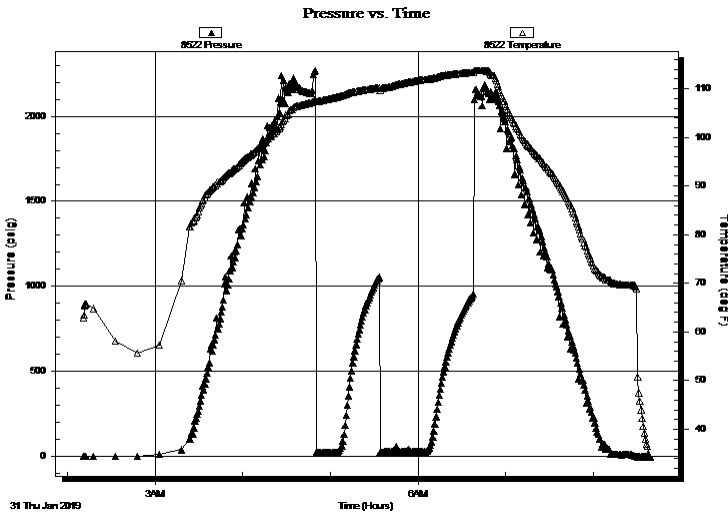
Formation: **Mississippian**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 04:50:00  
Time Test Ended: 08:39:00  
  
Interval: **4356.00 ft (KB) To 4382.00 ft (KB) (TVD)**  
Total Depth: 4382.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
  
Reference Elevations: 2448.00 ft (KB)  
2443.00 ft (CF)  
KB to GR/CF: 5.00 ft

### Serial #: 8522 Inside

Press@RunDepth: psig @ 4357.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2019.01.31 End Date: 2019.01.31 Last Calib.: 2019.01.31  
Start Time: 02:11:05 End Time: 08:38:59 Time On Btm:  
Time Off Btm:

TEST COMMENT: 15- IF: 1" blow .  
30- IS: No return.  
30- FF: Surface blow .  
30- FS: No return

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m w/ Oil spots	0.05

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt, Inc.

**12-14s-26w Gove, KS**

PO Box 47  
Great Bend, KS 67530

**Betty #1**

Job Ticket: 65183

**DST#: 5**

ATTN: Brad Rine

Test Start: 2019.01.31 @ 02:11:00

## Tool Information

Drill Pipe:	Length: 4170.00 ft	Diameter: 3.80 inches	Volume: 58.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 59.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4356.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 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			4330.00	
Shut In Tool	5.00		Fluid	4335.00	
Hydraulic tool	5.00			4340.00	
Jars	5.00			4345.00	
Safety Joint	2.00			4347.00	
Packer	5.00		Inside	4352.00	27.00 Bottom Of Top Packer
Packer	4.00			4356.00	
Stubb	1.00			4357.00	
Recorder	0.00	8522	Inside	4357.00	
Recorder	0.00	8319	Outside	4357.00	
Perforations	22.00			4379.00	
Bullnose	3.00			4382.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**12-14s-26w Gove, KS**

PO Box 47  
Great Bend, KS 67530

**Betty #1**

Job Ticket: 65183

**DST#: 5**

ATTN: Brad Rine

Test Start: 2019.01.31 @ 02:11:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100m w / Oil spots	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

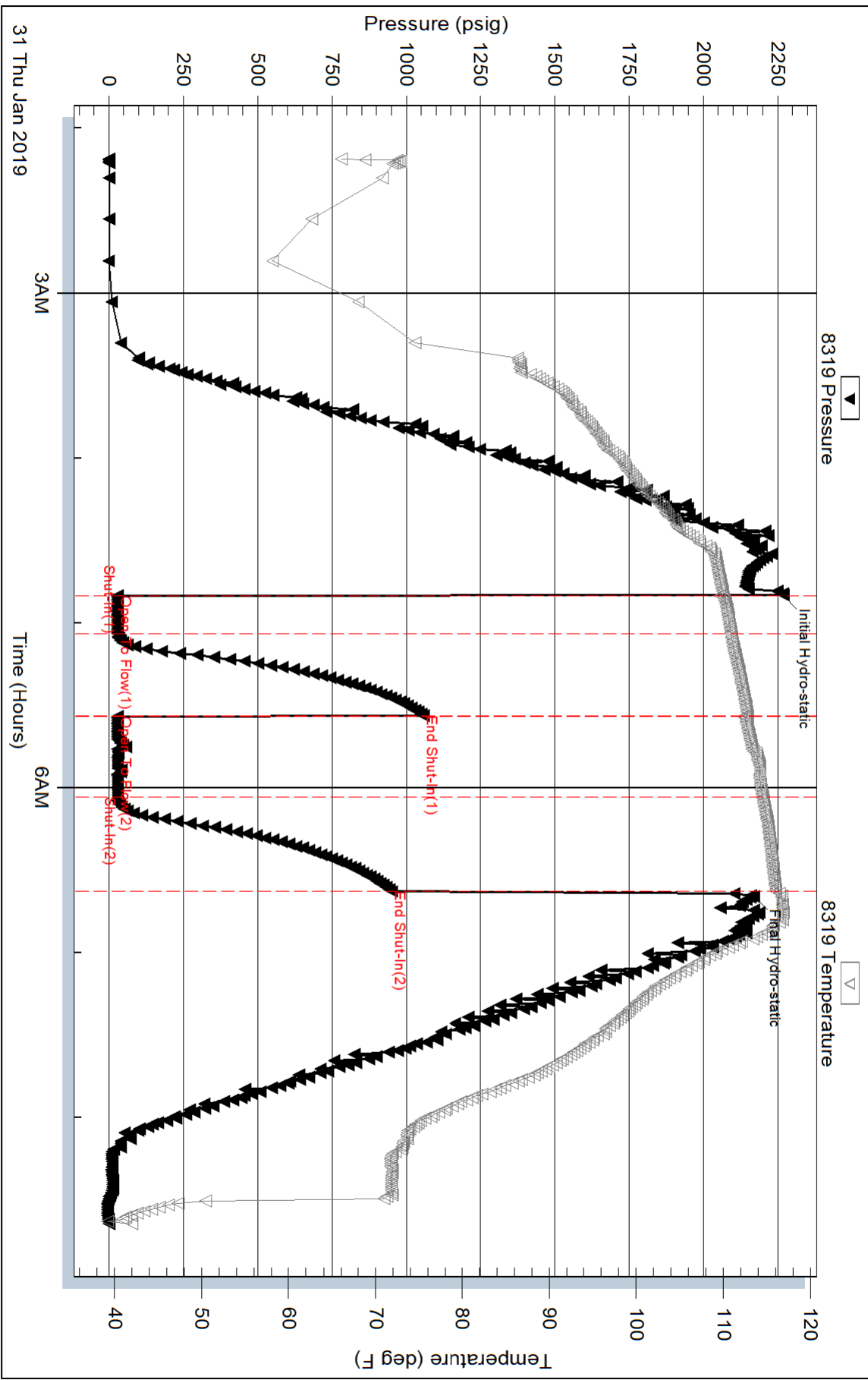
Serial #:

Laboratory Name:

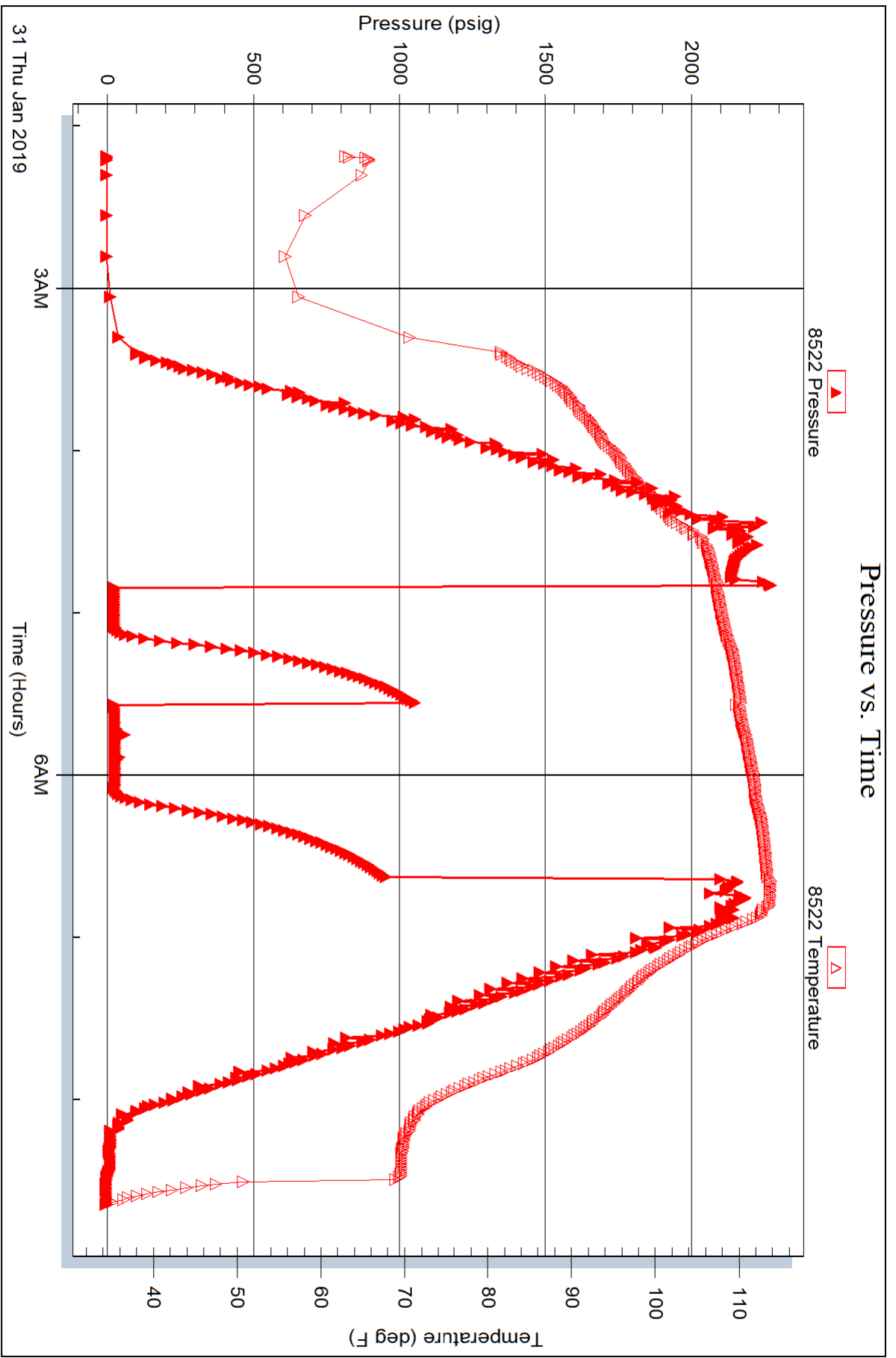
Laboratory Location:

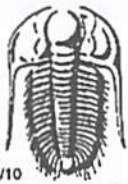
Recovery Comments:

# Pressure vs. Time









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65179

Well Name & No. Betty #1 Test No. 1 Date 1/27/2019  
 Company Garmen Schmitt, Inc Elevation 2448 KB 2443 GL  
 Address PO Box 47 Great Bend, Ks 67530  
 Co. Rep / Geo. Brad Rine Rig Murfin #8  
 Location: Sec. 12 Twp 14s Rge. 26w Co. Gove State Ks

Interval Tested 3867 - 3905 Zone Tested LKC - H  
 Anchor Length 38' Drill Pipe Run 3667 Mud Wt. 9.2  
 Top Packer Depth 3862 Drill Collars Run 179 Vis 52  
 Bottom Packer Depth 3867 Wt. Pipe Run Ø WL 6.6  
 Total Depth 3905 Chlorides 1600 ppm System LCM 1#

Blow Description IF 2" blow.  
ISI No return.  
FF 4 1/2" blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>WCM</u>			<u>25</u>	<u>75</u>

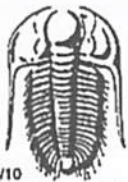
Rec Total 150 BHT 113 Gravity — API RW 1308 @ 54 °F Chlorides 28,000 ppm

(A) Initial Hydrostatic 1966  Test 1050 T-On Location 1100  
 (B) First Initial Flow 25  Jars 250 T-Started 1209  
 (C) First Final Flow 43  Safety Joint 75 T-Open 1450  
 (D) Initial Shut-In 1101  Circ Sub N/C T-Pulled 1735  
 (E) Second Initial Flow 55  Hourly Standby \_\_\_\_\_ T-Out 1930  
 (F) Second Final Flow 91  Mileage 124rt Comments \_\_\_\_\_  
 (G) Final Shut-In 779  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1906  Straddle \_\_\_\_\_

Initial Open 15  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_  
 Sub Total 1499  Accessibility \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65180**

Well Name & No. Betty #1 Test No. 2 Date 1/28/2019  
 Company Carmen Schmitt Elevation 2448 KB 2443 GL  
 Address PO Box 47 Great Bend, Ks 67530  
 Co. Rep / Geo. Brad Rine Rig Martin 8  
 Location: Sec. 12 Twp 14S Rge. 26W Co. Gore State Ks

Interval Tested 3897 - 3925 Zone Tested LKC I  
 Anchor Length 26' Drill Pipe Run 3897 Mud Wt. 9.5  
 Top Packer Depth 3892 Drill Collars Run 179 Vis 60  
 Bottom Packer Depth 3897 Wt. Pipe Run Ø WL 10.6  
 Total Depth 3925 Chlorides 1600 ppm System LCM 1#

Blow Description TF: 1 1/2" blow  
ISI: No return  
FF: 2 1/2' blow  
FBI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>90CW</u>		<u>80</u>	<u>20</u>	
	<u>oil spots in tool</u>				

Rec Total 90 BHT 113 Gravity — API RW 170 @ 47 °F Chlorides 6700 ppm

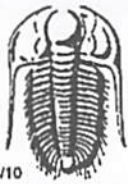
(A) Initial Hydrostatic <u>1934</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0115</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0140</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0410</u>
(D) Initial Shut-In <u>945</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0455</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0848</u>
(F) Second Final Flow <u>59</u>	<input checked="" type="checkbox"/> Mileage <u>124</u>	Comments _____
(G) Final Shut-In <u>681</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1905</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool

Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1499</u>
	Sub Total <u>1499</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative [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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65181

Well Name & No. Betty #1 Test No. 3 Date 1/29/2019  
 Company Carmel Schmitt, Inc Elevation 2448 KB 2443 GL  
 Address PO Box 47 Great Bend, Ks 67530  
 Co. Rep / Geo. Brad Rine Rig Modin #8  
 Location: Sec. 12 Twp 14s Rge. 26w Co. Gore State Ks

Interval Tested 3946 - 3979 Zone Tested LKC K  
 Anchor Length 33 Drill Pipe Run 3761 Mud Wt. 9.2  
 Top Packer Depth 3941 Drill Collars Run 179 Vis 70  
 Bottom Packer Depth 3946 Wt. Pipe Run Ø WL 6.8  
 Total Depth 3979 Chlorides 1800 ppm System LCM 1#

Blow Description IF 9" blow  
ISS No return.  
FF BOB @ 15 min. built to 31.5"  
FSI Surface return. chd @ 20 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>0.1</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>170</u>	<u>6 mco</u>	<u>10</u>	<u>50</u>	<u>40</u>	<u>0</u>
<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>
<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>
<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>

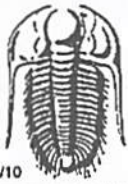
Rec Total 190 BHT 110 Gravity 39 API RW      @      °F Chlorides      ppm

(A) Initial Hydrostatic <u>1976</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1800</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1840</u>
(C) First Final Flow <u>45</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2100</u>
(D) Initial Shut-In <u>588</u>	<input checked="" type="checkbox"/> Circ Sub <u>4/4</u>	T-Pulled <u>0015</u>
(E) Second Initial Flow <u>55</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0245</u>
(F) Second Final Flow <u>89</u>	<input checked="" type="checkbox"/> Mileage <u>124</u>	Comments
(G) Final Shut-In <u>627</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1965</u>	<input type="checkbox"/> Straddle	

Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1499</u>	Total <u>1499</u>

Approved By \_\_\_\_\_ Our Representative [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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65182

Well Name & No. Betty #1 Test No. 4 Date 1/29/2019  
 Company Carmen Schmitt, Inc Elevation 2448 KB 2443 GL  
 Address PO Box 47 Great Bend, Ks 67530  
 Co. Rep / Geo. Brad Rine Rig Mudra #8  
 Location: Sec. 12 Twp 14S Rge. 26 W Co. Gove State Ks

Interval Tested 3986 - 4020 Zone Tested LKC L  
 Anchor Length 34' Drill Pipe Run 3793 Mud Wt. 9.2  
 Top Packer Depth 3981 Drill Collars Run 179 Vis 66  
 Bottom Packer Depth 3986 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4020 Chlorides 2300 ppm System LCM 1#  
 Blow Description JF 11" blow  
ISI Surface return.  
FF 26" blow  
FSI Surface return. died @ 20 min.

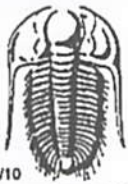
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>0.1</u>	<u>100</u>			
<u>140</u>	<u>6 mco</u>	<u>10</u>	<u>60</u>	<u>30</u>	

Rec Total 160 BHT 109 Gravity 41 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2013</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1030</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1035</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1305</u>
(D) Initial Shut-In <u>301</u>	<input checked="" type="checkbox"/> Circ Sub <u>4c</u>	T-Pulled <u>1620</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1841</u>
(F) Second Final Flow <u>71</u>	<input checked="" type="checkbox"/> Mileage <u>x2</u> 124rt + 41	Comments <u>P/O Tool 1900</u>
(G) Final Shut-In <u>383</u>	<input type="checkbox"/> Sampler	<u>1/30. Decided to</u>
(H) Final Hydrostatic <u>1959</u>	<input type="checkbox"/> Straddle	<u>test, left and came back</u>
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1890</u>
	Sub Total <u>1890</u>	MP/DST Disc't <u>—</u>

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65183**

Well Name & No. Betty #1 Test No. 5 Date 1/31/2014  
 Company Carmen Schmitt Inc Elevation 2446 KB 2443 GL  
 Address PO Box 47 Great Bend, Ks 67530  
 Co. Rep / Geo. Brad Rine Rig Mudra #9  
 Location: Sec. 12 Twp 14s Rge. 26w Co. Gove State Ks

Interval Tested 4356 4387 Zone Tested Mississippian  
 Anchor Length 26 Drill Pipe Run 4170 Mud Wt. 9.3  
 Top Packer Depth 4351 Drill Collars Run 179 Vis 70  
 Bottom Packer Depth 4356 Wt. Pipe Run 8 WL 10.4  
 Total Depth 4387 Chlorides 5,000 ppm System LCM 1#  
 Blow Description IF 1' blow  
IST No return  
FF Surface blow (weak)  
FSE No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mod</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 10 BHT 116 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2268</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2230</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0211</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0450</u>
(D) Initial Shut-In <u>1057</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0635</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0839</u>
(F) Second Final Flow <u>30</u>	<input checked="" type="checkbox"/> Mileage <u>x2</u> <u>248</u>	Comments <u>P/O Tool 0400/02/01</u>
(G) Final Shut-In <u>951</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2170</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1973</u>
	Sub Total <u>1973</u>	MP/DST Disc't

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