



## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Jost #1-29**

#### **29-19s-2e Marion,KS**

Start Date: 2016.01.16 @ 01:11:00

End Date: 2016.01.16 @ 08:40:30

Job Ticket #: 64840                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.01.20 @ 09:36:11



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

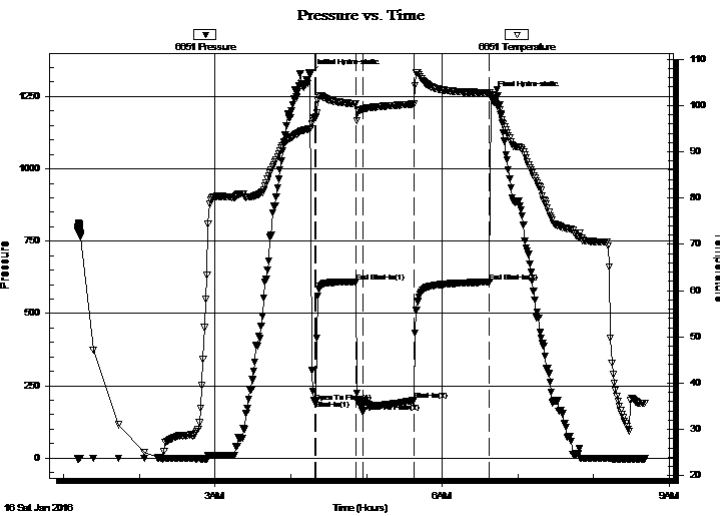
**29-19s-2e Marion, KS**  
**Jost #1-29**  
Job Ticket: 64840      **DST#: 1**  
Test Start: 2016.01.16 @ 01:11:00

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 04:19:30      Tester: Brannan Lonsdale  
Time Test Ended: 08:40:30      Unit No: 62  
**Interval: 2617.00 ft (KB) To 2674.00 ft (KB) (TVD)**      Reference Elevations: 1457.00 ft (KB)  
Total Depth: 2674.00 ft (KB) (TVD)      1452.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 6651      Inside**  
Press@RunDepth: 199.09 psig @ 2639.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2016.01.16      End Date: 2016.01.16      Last Calib.: 2016.01.16  
Start Time: 01:11:01      End Time: 08:40:30      Time On Btm: 2016.01.16 @ 04:15:30  
Time Off Btm: 2016.01.16 @ 06:38:30

**TEST COMMENT:** 05- IF- BOB 15 secs  
30- IS- Surface blow throughout. Gas to surface 2 mins into ISI w hile bleeding off IF  
45- FF- BOB instantly  
60- FSI- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1330.69	94.97	Initial Hydro-static
4	193.08	97.43	Open To Flow (1)
5	200.16	97.51	Shut-In(1)
36	609.83	100.46	End Shut-In(1)
42	157.93	99.13	Open To Flow (2)
82	199.09	100.32	Shut-In(2)
142	608.28	102.81	End Shut-In(2)
143	1253.74	102.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	SWM, 2% W 98% M	0.30
310.00	M	3.86
0.00	GTS	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	11.00	93.05
Last Gas Rate	0.38	11.00	93.05
Max. Gas Rate	0.38	11.00	93.05





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt, Inc.

**29-19s-2e Marion,KS**

PO Box 47  
Great Bend, KS 67530

**Jost #1-29**

Job Ticket: 64840

**DST#: 1**

ATTN: Brad Rine

Test Start: 2016.01.16 @ 01:11:00

## Tool Information

Drill Pipe:	Length: 2473.00 ft	Diameter: 3.82 inches	Volume: 35.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2617.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	84.00 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			2591.00	
Shut In Tool	5.00			2596.00	
Hydraulic tool	5.00			2601.00	
Jars	5.00			2606.00	
Safety Joint	2.00			2608.00	
Packer	5.00			2613.00	27.00 Bottom Of Top Packer
Packer	4.00			2617.00	
Stubb	1.00			2618.00	
Perforations	20.00			2638.00	
Change Over Sub	1.00			2639.00	
Recorder	0.00	6651	Inside	2639.00	
Recorder	0.00	6839	Outside	2639.00	
Drill Pipe	31.00			2670.00	
Change Over Sub	1.00			2671.00	
Bullnose	3.00			2674.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 84.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt, Inc.

**29-19s-2e Marion,KS**

PO Box 47  
Great Bend, KS 67530

**Jost #1-29**

Job Ticket: 64840

**DST#: 1**

ATTN: Brad Rine

Test Start: 2016.01.16 @ 01:11:00

### 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: 44.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	SWM, 2%W 98%M	0.305
310.00	M	3.857
0.00	GTS	0.000

Total Length: 372.00 ft      Total Volume: 4.162 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Carmen Schmitt, Inc.

**29-19s-2e Marion,KS**

PO Box 47  
Great Bend, KS 67530

**Jost #1-29**

Job Ticket: 64840

**DST#: 1**

ATTN: Brad Rine

Test Start: 2016.01.16 @ 01:11:00

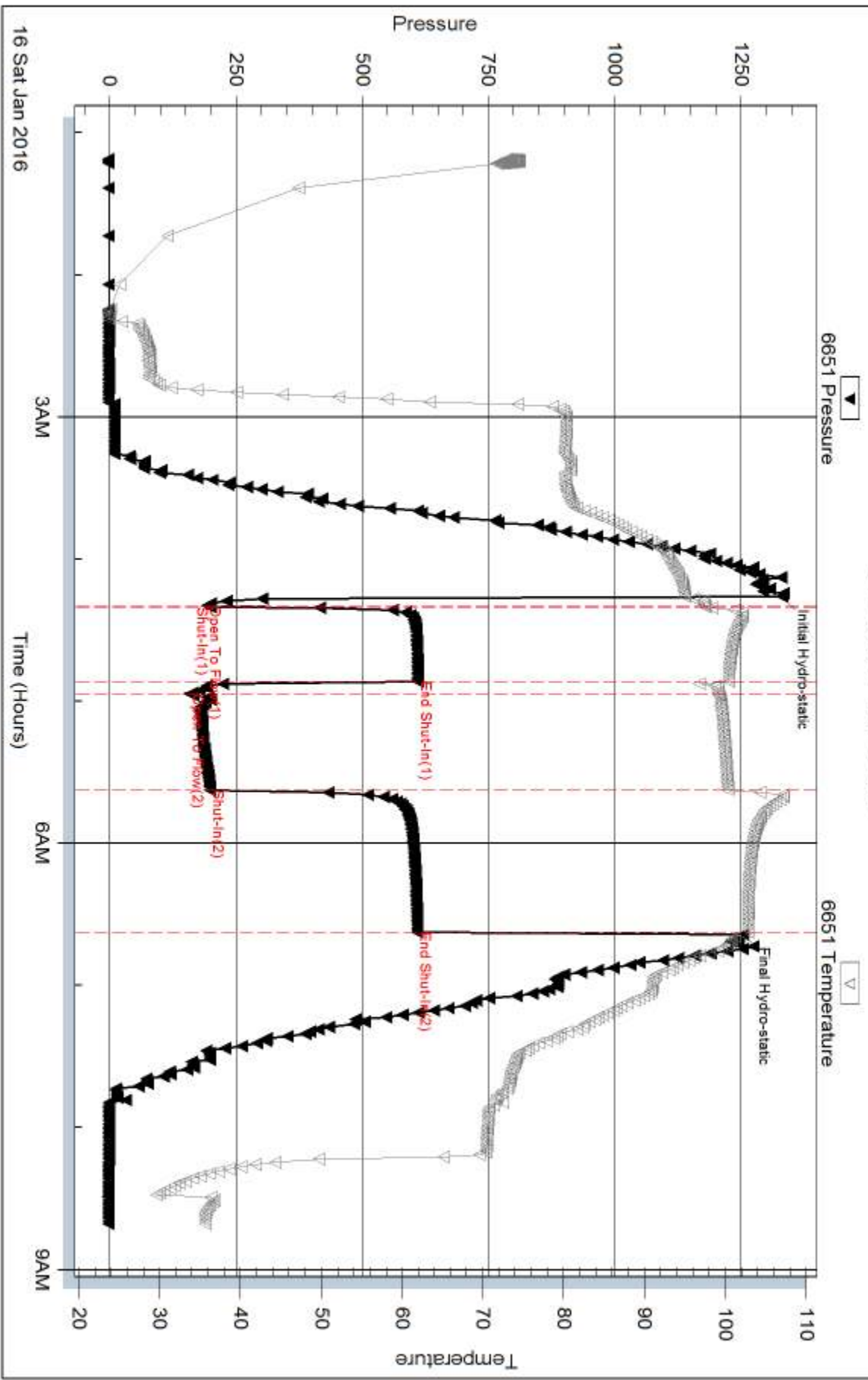
### Gas Rates Information

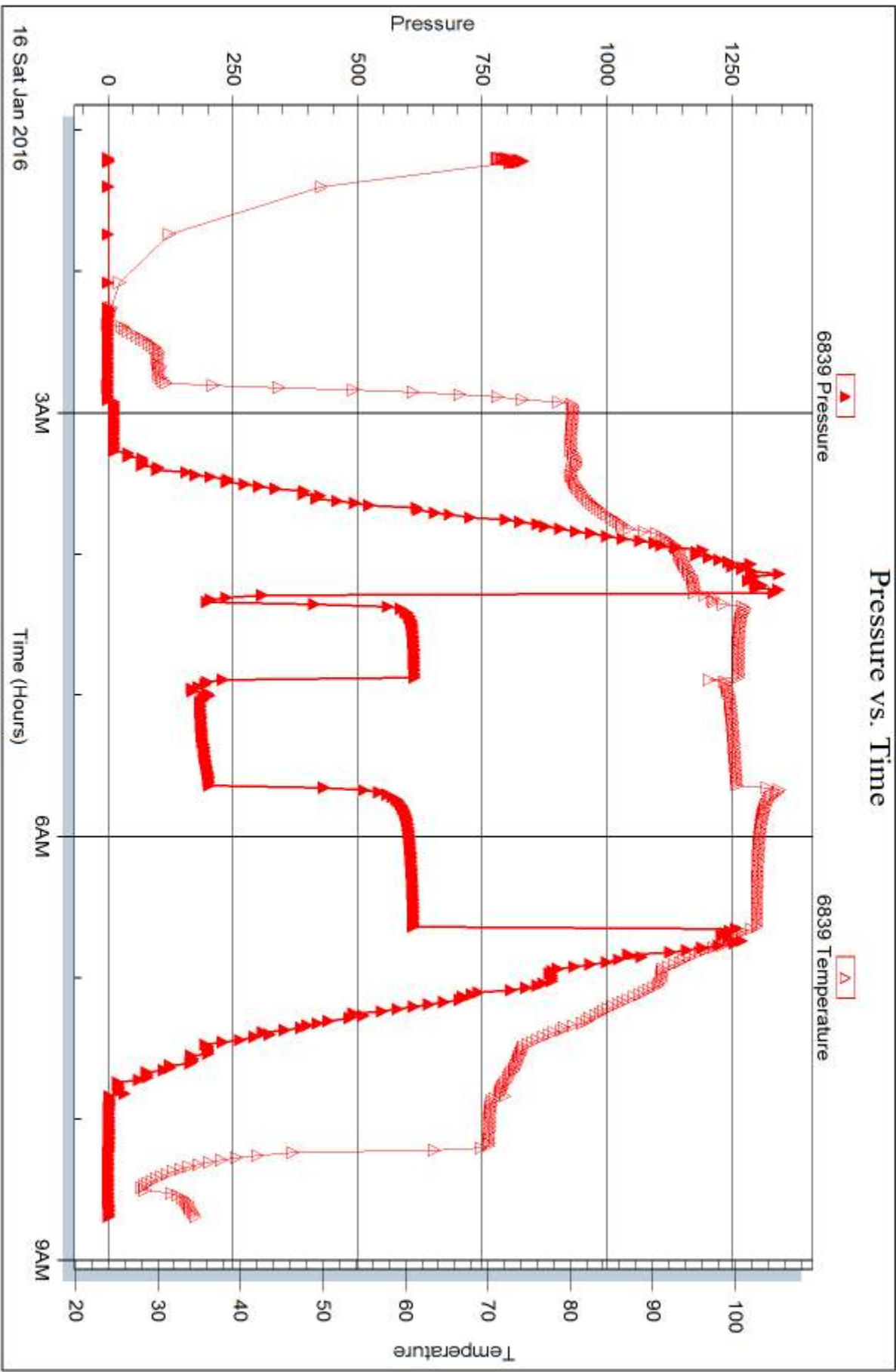
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.38	11.00	93.05
2	20	0.38	11.00	93.05
2	30	0.38	11.00	93.05
2	40	0.38	11.00	93.05
2	45	0.38	11.00	93.05

### Pressure vs. Time









## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Jost #1-29**

### **29-19s-2e Marion,KS**

Start Date: 2016.01.16 @ 12:41:27

End Date: 2016.01.16 @ 18:45:27

Job Ticket #: 64841                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.01.20 @ 09:27:18

Carmen Schmitt, Inc.  
29-19s-2e Marion,KS  
Jost #1-29  
DST # 2  
Miss  
2016.01.16



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**29-19s-2e Marion, KS**  
**Jost #1-29**  
 Job Ticket: 64841 **DST#: 2**  
 Test Start: 2016.01.16 @ 12:41:27

## GENERAL INFORMATION:

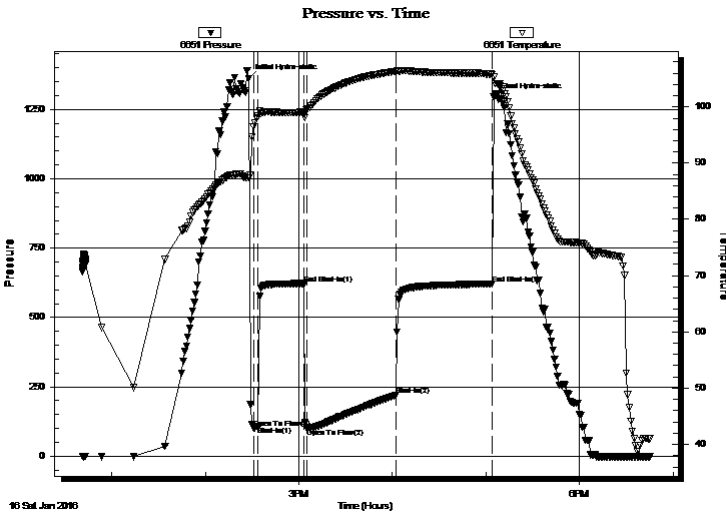
Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:30:57  
 Time Test Ended: 18:45:27  
 Interval: **2674.00 ft (KB) To 2689.00 ft (KB) (TVD)**  
 Total Depth: 2689.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 62  
 Reference Elevations: 1457.00 ft (KB)  
 1452.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6651 Inside**  
 Press@RunDepth: 220.18 psig @ 2686.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.01.16 End Date: 2016.01.16 Last Calib.: 2016.01.16  
 Start Time: 12:41:28 End Time: 18:45:27 Time On Btm: 2016.01.16 @ 14:27:57  
 Time Off Btm: 2016.01.16 @ 17:04:57

TEST COMMENT: 05- IF- BOB instantly. Gas to surface 5 mins  
 30- IS- Surface blow  
 60- FF- BOB instantly  
 60- FSI- Slowly built to 1 1/2"

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1362.43	87.41	Initial Hydro-static
3	102.17	96.47	Open To Flow (1)
6	107.03	98.13	Shut-In(1)
36	622.62	99.08	End Shut-In(1)
38	99.18	99.62	Open To Flow (2)
95	220.18	106.32	Shut-In(2)
156	620.49	105.79	End Shut-In(2)
157	1294.12	105.31	Final Hydro-static



## Recovery

Length (ft)	Description	Volume (bbl)
496.00	MW, 25%M 75%W	5.92
0.00	GTS	0.00

\* 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.

**29-19s-2e Marion,KS**

PO Box 47  
Great Bend, KS 67530

**Jost #1-29**

Job Ticket: 64841

**DST#: 2**

ATTN: Brad Rine

Test Start: 2016.01.16 @ 12:41:27

## Tool Information

Drill Pipe:	Length: 2537.00 ft	Diameter: 3.82 inches	Volume: 35.96 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	2674.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 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
Change Over Sub	1.00			2648.00	
Shut In Tool	5.00			2653.00	
Hydraulic tool	5.00			2658.00	
Jars	5.00			2663.00	
Safety Joint	2.00			2665.00	
Packer	5.00			2670.00	27.00 Bottom Of Top Packer
Packer	4.00			2674.00	
Stubb	1.00			2675.00	
Perforations	11.00			2686.00	
Recorder	0.00	6651	Inside	2686.00	
Recorder	0.00	6839	Outside	2686.00	
Bullnose	3.00			2689.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt, Inc.

**29-19s-2e Marion,KS**

PO Box 47  
Great Bend, KS 67530

**Jost #1-29**

Job Ticket: 64841

**DST#: 2**

ATTN: Brad Rine

Test Start: 2016.01.16 @ 12:41:27

### 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:

55000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
496.00	MW, 25%M 75%W	5.920
0.00	GTS	0.000

Total Length: 496.00 ft

Total Volume: 5.920 bbl

Num Fluid Samples: 0

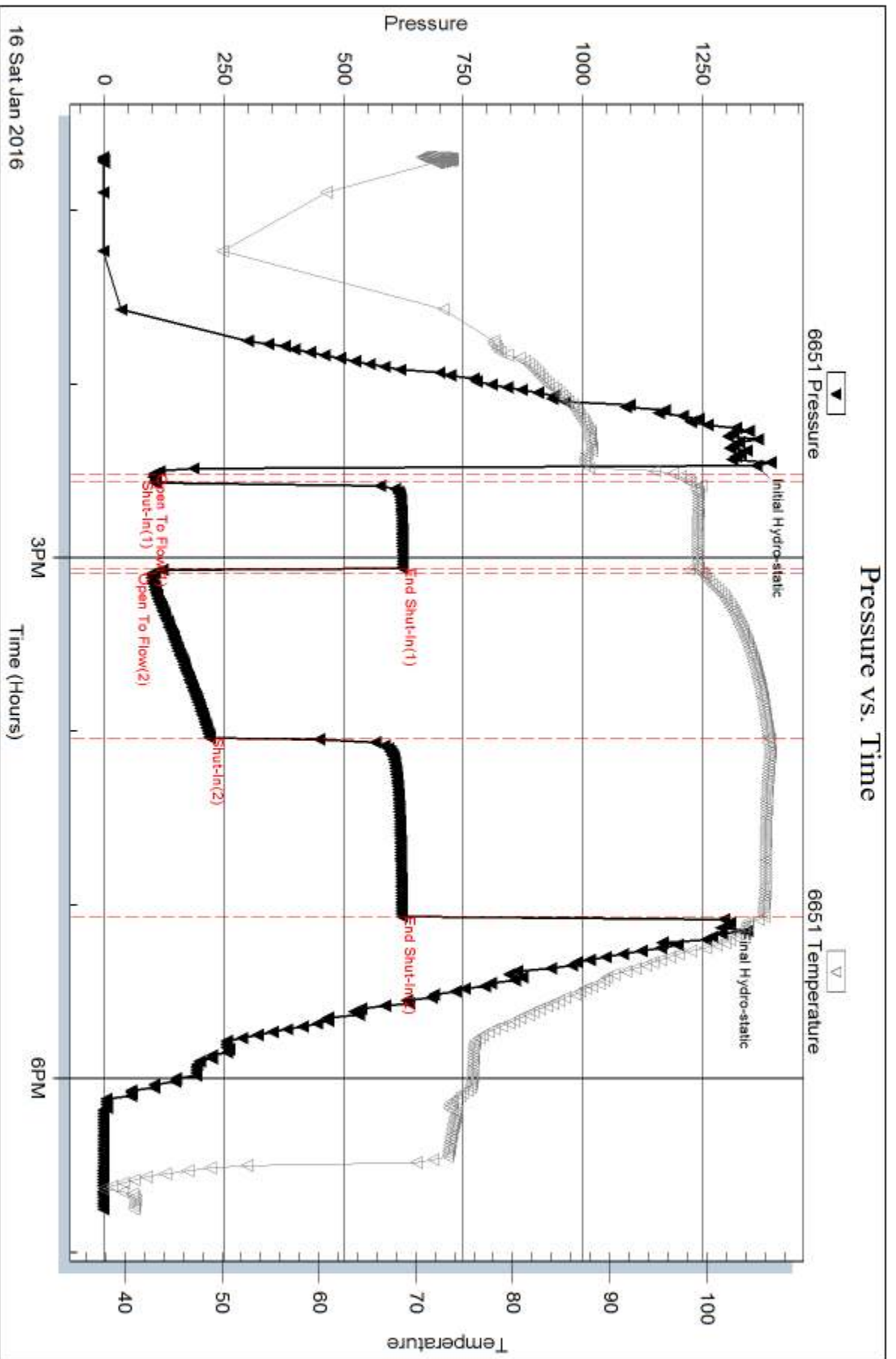
Num Gas Bombs: 0

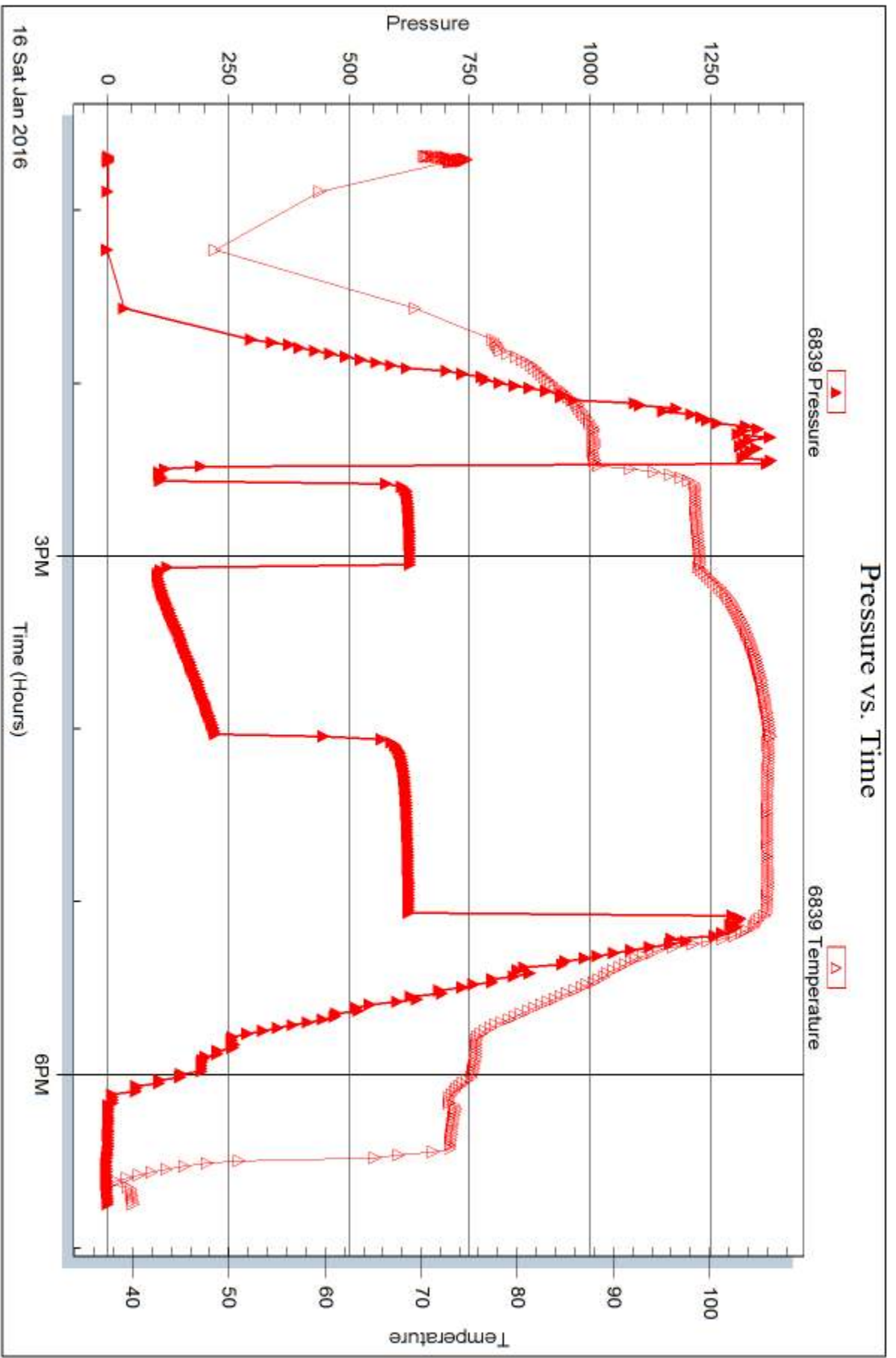
Serial #:

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

### **Jost #1-29**

#### **29-19s-2e Marion,KS**

Start Date: 2016.01.18 @ 00:23:06

End Date: 2016.01.18 @ 07:21:36

Job Ticket #: 64842                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.01.20 @ 08:49:52

Carmen Schmitt, Inc.  
29-19s-2e Marion,KS  
Jost #1-29  
DST # 3  
Viola  
2016.01.18





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

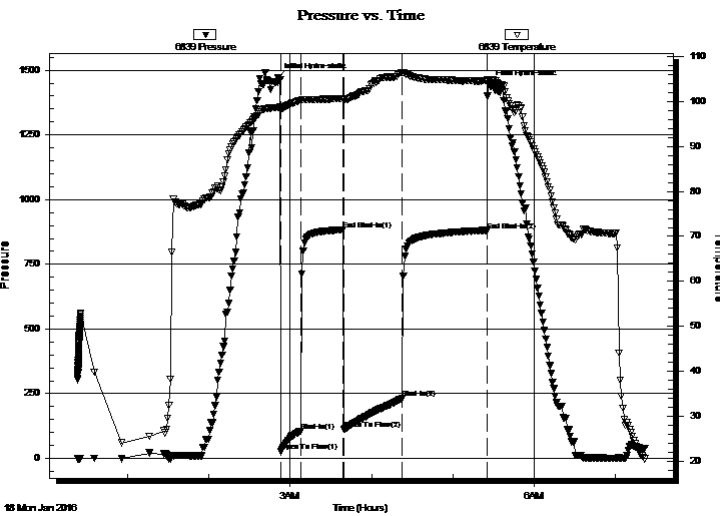
**29-19s-2e Marion, KS**  
**Jost #1-29**  
Job Ticket: 64842      **DST#: 3**  
Test Start: 2016.01.18 @ 00:23:06

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:53:06  
Time Test Ended: 07:21:36  
Interval: **2844.00 ft (KB) To 3090.00 ft (KB) (TVD)**  
Total Depth: 3090.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1457.00 ft (KB)  
1452.00 ft (CF)  
KB to GR/CF: 5.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brannan Lonsdale  
Unit No: 62

**Serial #: 6839 Outside**  
Press@RunDepth: 231.11 psig @ 2866.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2016.01.18 End Date: 2016.01.18 Last Calib.: 2016.01.18  
Start Time: 00:23:07 End Time: 07:21:36 Time On Btm: 2016.01.18 @ 02:51:06  
Time Off Btm: 2016.01.18 @ 05:26:36

TEST COMMENT: 15- IF- Slowly built to 4"  
30- IS- No blow  
45- FF- BOB 28 mins  
60- FSI- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1469.71	98.68	Initial Hydro-static
2	28.52	98.34	Open To Flow (1)
17	104.68	100.22	Shut-In(1)
48	883.82	100.67	End Shut-In(1)
49	111.17	100.48	Open To Flow (2)
92	231.11	106.47	Shut-In(2)
154	880.97	104.59	End Shut-In(2)
156	1444.07	104.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
402.00	M w/ trace of W	4.59

\* 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.

**29-19s-2e Marion,KS**

PO Box 47  
Great Bend, KS 67530

**Jost #1-29**

Job Ticket: 64842

**DST#: 3**

ATTN: Brad Rine

Test Start: 2016.01.18 @ 00:23:06

## Tool Information

Drill Pipe:	Length: 2730.00 ft	Diameter: 3.82 inches	Volume: 38.70 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	61000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	2844.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	246.00 ft				
Tool Length:	273.00 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	
Jars	5.00			2833.00	
Safety Joint	2.00			2835.00	
Packer	5.00			2840.00	27.00 Bottom Of Top Packer
Packer	4.00			2844.00	
Stubb	1.00			2845.00	
Perforations	20.00			2865.00	
Change Over Sub	1.00			2866.00	
Recorder	0.00	6651	Inside	2866.00	
Recorder	0.00	6839	Outside	2866.00	
Drill Pipe	220.00			3086.00	
Change Over Sub	1.00			3087.00	
Bullnose	3.00			3090.00	246.00 Bottom Packers & Anchor

**Total Tool Length: 273.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt, Inc.

**29-19s-2e Marion,KS**

PO Box 47  
Great Bend, KS 67530

**Jost #1-29**

Job Ticket: 64842

**DST#: 3**

ATTN: Brad Rine

Test Start: 2016.01.18 @ 00:23:06

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
402.00	M w / trace of W	4.588

Total Length: 402.00 ft      Total Volume: 4.588 bbl

Num Fluid Samples: 0

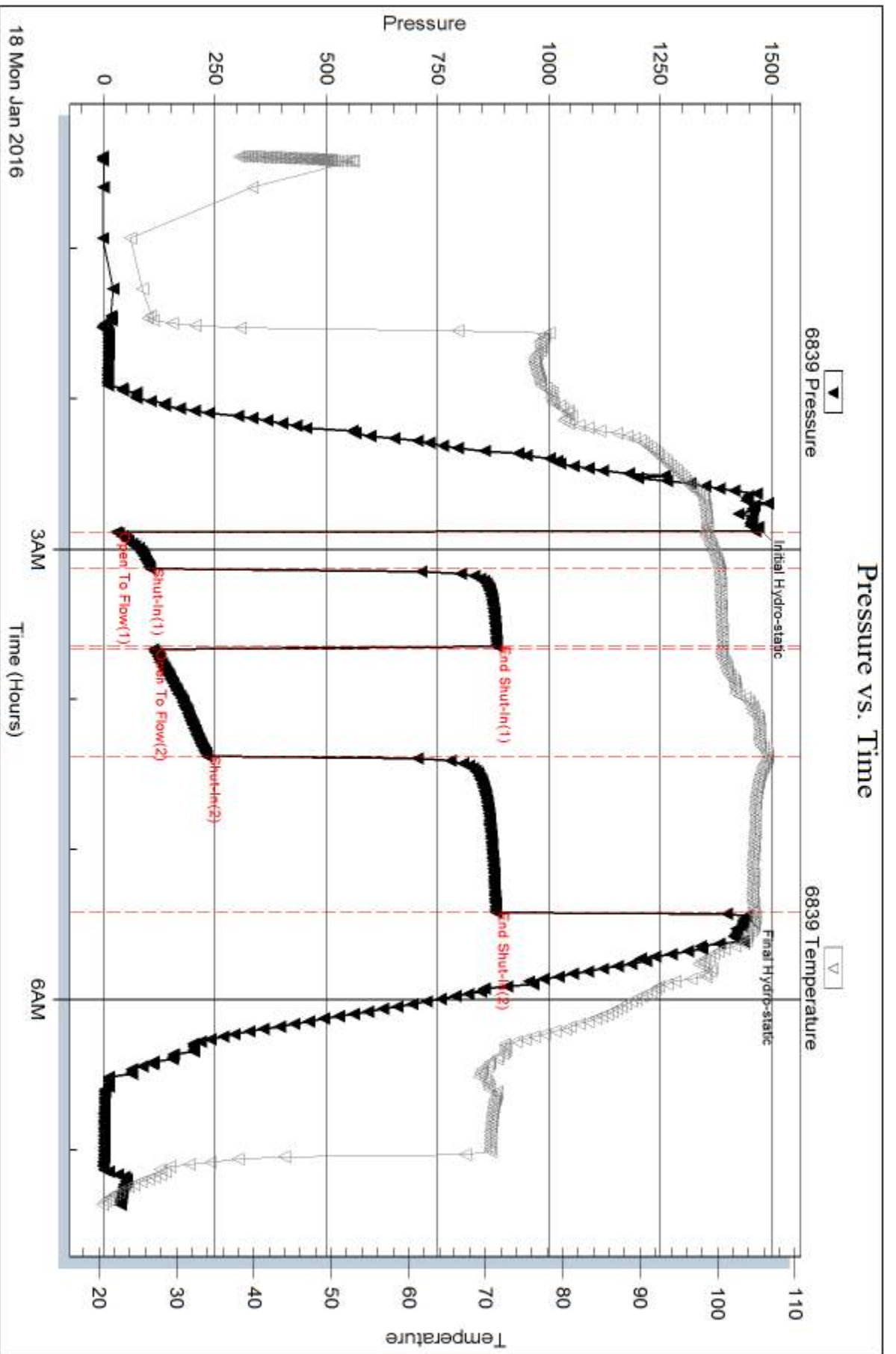
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



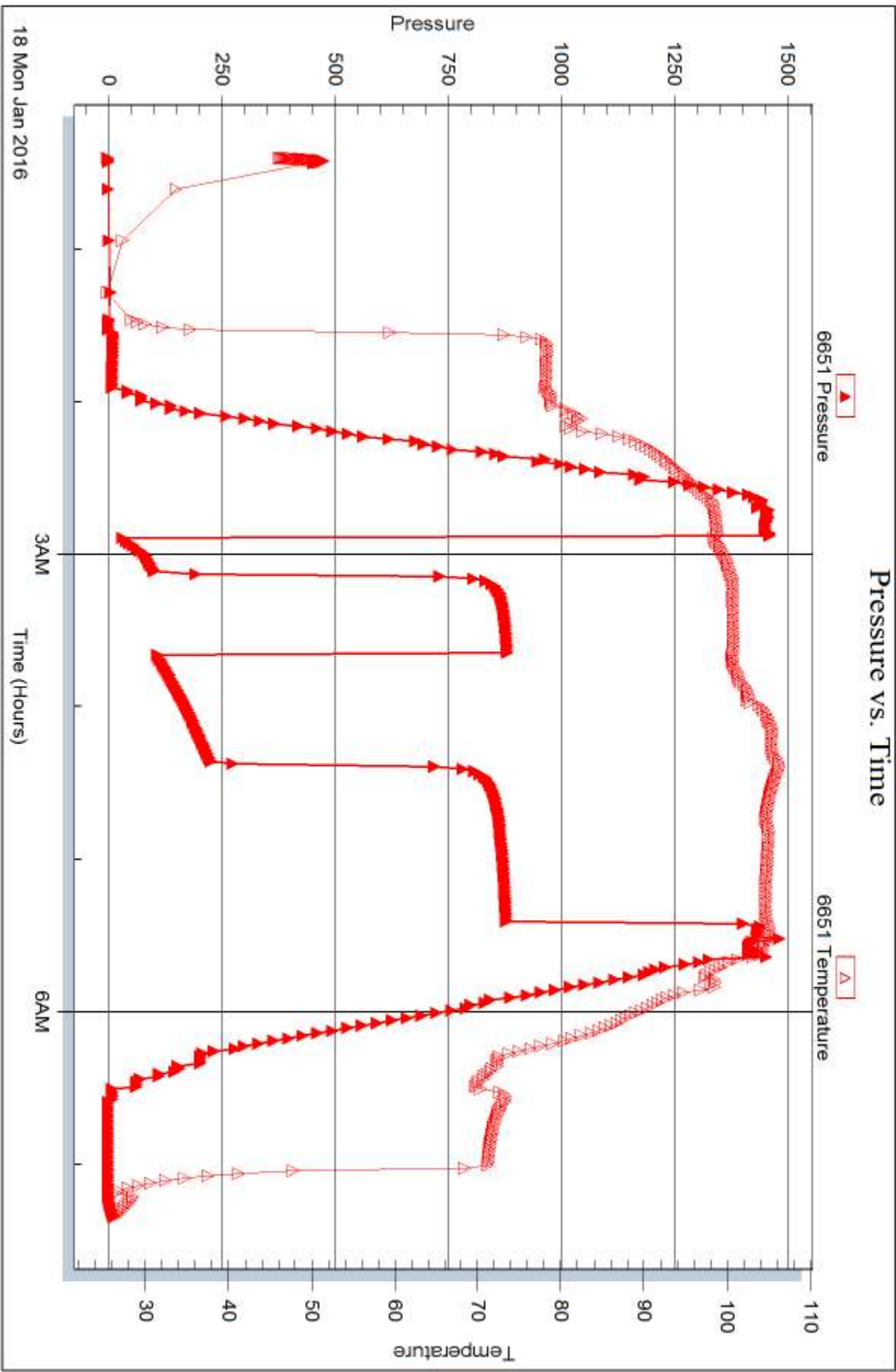
Serial #: 6651

Inside

Carmen Schmitt, Inc.

Jost #1-29

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64842

Printed: 2016.01.20 @ 08:49:55



## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Jost #1-29**

### **29-19s-2e Marion,KS**

Start Date: 2016.01.18 @ 20:10:28

End Date: 2016.01.19 @ 03:06:58

Job Ticket #: 64843                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.01.20 @ 08:48:16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**29-19s-2e Marion, KS**

**Jost #1-29**

Job Ticket: 64843

**DST#: 4**

Test Start: 2016.01.18 @ 20:10:28

## GENERAL INFORMATION:

Formation: **Simpson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:44:58  
 Time Test Ended: 03:06:58  
 Interval: **3141.00 ft (KB) To 3182.00 ft (KB) (TVD)**  
 Total Depth: 3182.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 62  
 Reference Elevations: 1457.00 ft (KB)  
 1452.00 ft (CF)  
 KB to GR/CF: 5.00 ft

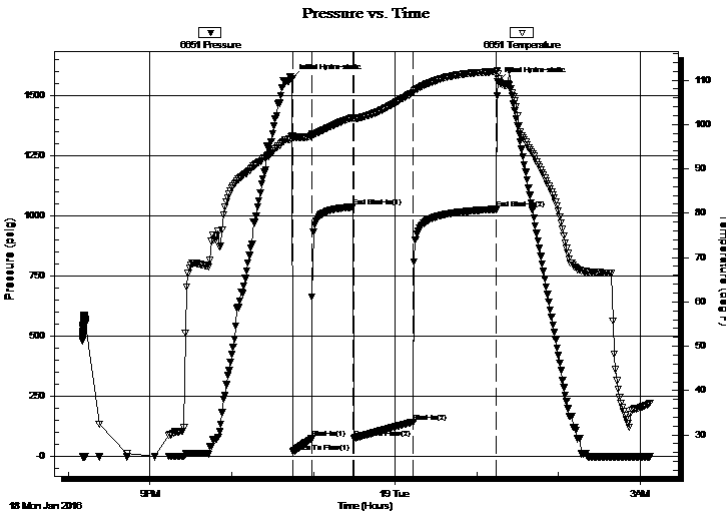
## Serial #: 6651

Inside

Press@RunDepth: 143.17 psig @ 3147.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.01.18 End Date: 2016.01.19 Last Calib.: 2016.01.19  
 Start Time: 20:10:29 End Time: 03:06:58 Time On Btm: 2016.01.18 @ 22:44:28  
 Time Off Btm: 2016.01.19 @ 01:15:28

TEST COMMENT: 15- IF- Steady build to 7"  
 30- IS- No blow  
 45- FF- BOB 23 mins  
 60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.32	97.36	Initial Hydro-static
1	18.32	97.01	Open To Flow (1)
14	73.08	97.38	Shut-In(1)
45	1037.21	101.53	End Shut-In(1)
46	75.34	101.29	Open To Flow (2)
89	143.17	107.26	Shut-In(2)
150	1027.78	111.93	End Shut-In(2)
151	1558.67	111.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
277.00	MW, 30%M 70%W	2.82

\* 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.

**29-19s-2e Marion,KS**

PO Box 47  
Great Bend, KS 67530

**Jost #1-29**

Job Ticket: 64843

**DST#: 4**

ATTN: Brad Rine

Test Start: 2016.01.18 @ 20:10:28

## Tool Information

Drill Pipe:	Length: 3015.00 ft	Diameter: 3.82 inches	Volume: 42.74 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3141.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	68.00 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			3115.00	
Shut In Tool	5.00			3120.00	
Hydraulic tool	5.00			3125.00	
Jars	5.00			3130.00	
Safety Joint	2.00			3132.00	
Packer	5.00			3137.00	27.00 Bottom Of Top Packer
Packer	4.00			3141.00	
Stubb	1.00			3142.00	
Perforations	4.00			3146.00	
Change Over Sub	1.00			3147.00	
Recorder	0.00	6651	Inside	3147.00	
Recorder	0.00	6839	Outside	3147.00	
Drill Pipe	31.00			3178.00	
Change Over Sub	1.00			3179.00	
Bullnose	3.00			3182.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**29-19s-2e Marion,KS**

PO Box 47  
Great Bend, KS 67530

**Jost #1-29**

Job Ticket: 64843

**DST#: 4**

ATTN: Brad Rine

Test Start: 2016.01.18 @ 20:10:28

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

77000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
277.00	MW, 30%M 70%W	2.816

Total Length: 277.00 ft      Total Volume: 2.816 bbl

Num Fluid Samples: 0

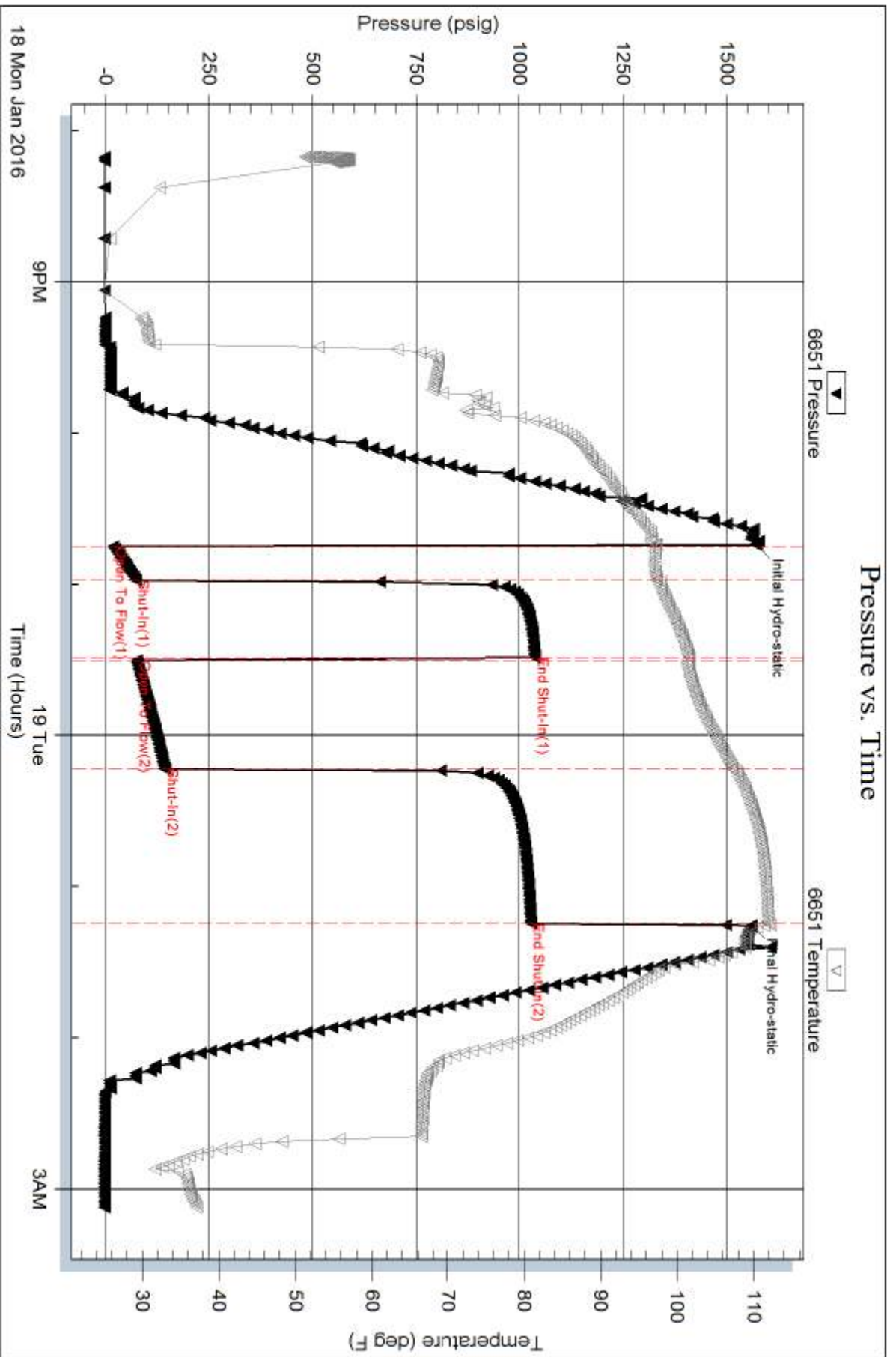
Num Gas Bombs: 0

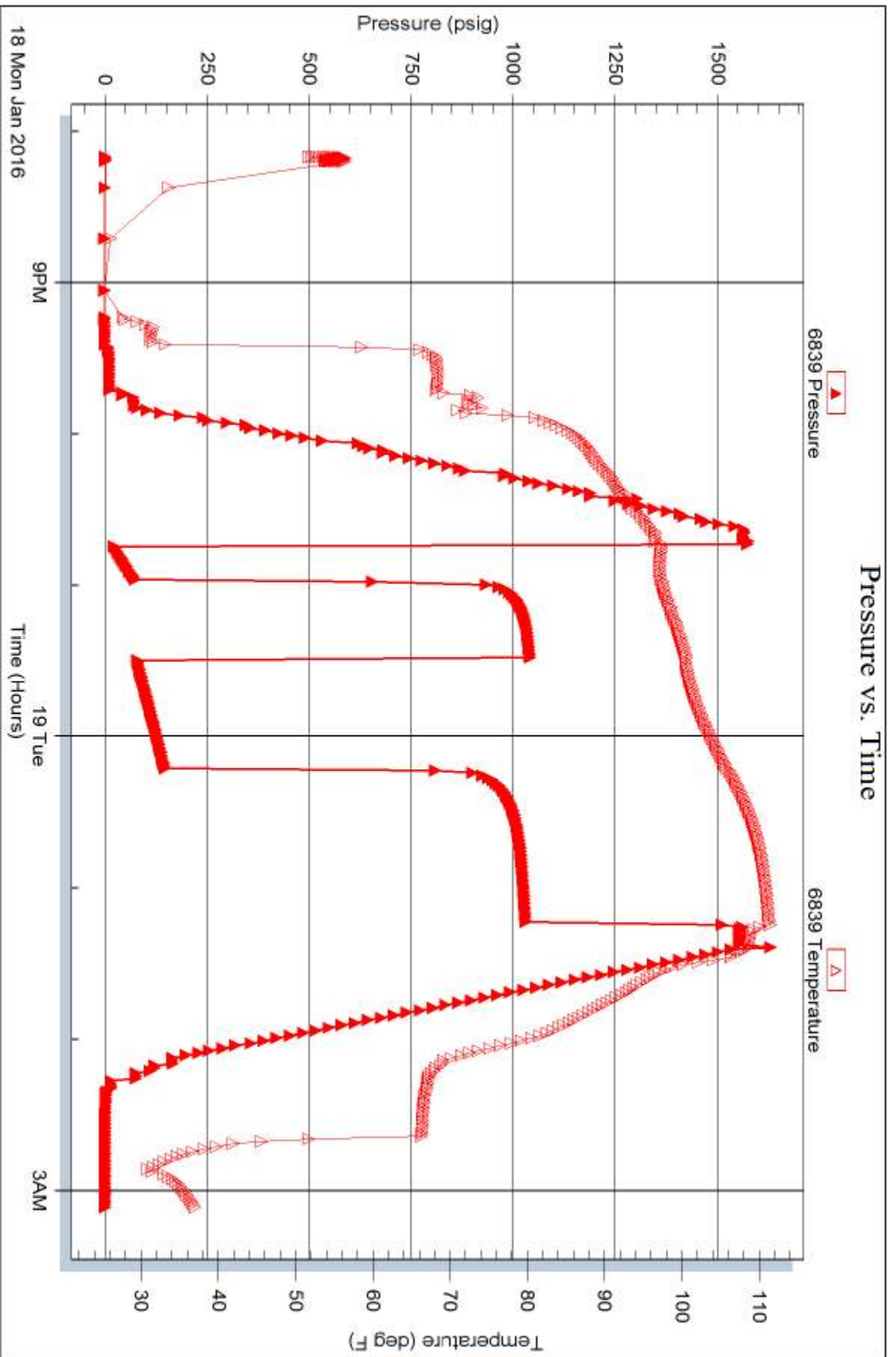
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64840

Well Name & No. Test #1-29 Test No. 1 Date 1/16/16  
 Company Carmen Schmidt, Inc. Elevation 1457 KB 1452 GL  
 Address PO Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig WW #4  
 Location: Sec. 29 Twp. 19 S Rge. 2 E Co. Marion State KS

Interval Tested 2617-2674 Zone Tested MISS  
 Anchor Length 57' Drill Pipe Run 2473 Mud Wt. 9.4  
 Top Packer Depth 2612 Drill Collars Run 120 Vis 44  
 Bottom Packer Depth 2617 Wt. Pipe Run          WL 8.0  
 Total Depth 2674 Chlorides 1800 ppm System LCM 1#

Blow Description IF - BOB 15secs  
ISI - Surface flow throughout. Gas to surface @ 2 min while bleeding off  
PF - BOB instantly  
FST - No flow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>SWM</u>		<u>2</u>	<u>98</u>	
<u>310</u>	<u>M</u>				
	<u>2221' GIP</u>				

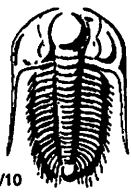
Rec Total 372' BHT 102° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1331</u> <u>1331</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0048</u>
(B) First Initial Flow <u>193</u> <u>193</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0111</u>
(C) First Final Flow <u>200</u> <u>610</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0416</u>
(D) Initial Shut-In <u>610</u> <u>108</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0636</u>
(E) Second Initial Flow <u>158</u> <u>199</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0841</u>
(F) Second Final Flow <u>199</u>	<input checked="" type="checkbox"/> Mileage <u>171</u> <u>322 RT</u>	Comments _____
(G) Final Shut-In <u>608</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1254</u>	<input type="checkbox"/> Straddle _____	
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>5</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1546</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1546</u>	

Approved By \_\_\_\_\_ Our Representative Brannan Lonsdale

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. 64841

Well Name & No. Test #1-29 Test No. 2 Date 1/16/16  
 Company Carmen Schmitt, Inc. Elevation 1457 KB 1452 GL  
 Address PO Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig WW #4  
 Location: Sec. 29 Twp. 19 S Rge. 2 E Co. Marion State KS

Interval Tested 2674-2689 Zone Tested MISS  
 Anchor Length 15' Drill Pipe Run 2537 Mud Wt. 9.2  
 Top Packer Depth 2669 Drill Collars Run 120 Vis 58  
 Bottom Packer Depth 2674 Wt. Pipe Run — WL 8.0  
 Total Depth 2689 Chlorides 1600 ppm System LCM 1#  
 Blow Description IF-BOB instantly. Gas to surface 5 mins  
ISI - Surface blow  
FF-BOB instantly  
FST - slowly built to 1 1/2"

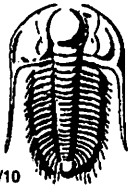
Rec	Feet of	%gas	%oil	%water	%mud
<u>496</u>	<u>Feet of MW</u>			<u>75</u>	<u>25</u>
Rec	Feet of <u>2097' ATP</u>				
Rec	Feet of				
Rec	Feet of				
Rec	Feet of				

Rec Total 496' BHT 106° Gravity — API RW .21 @ 42 °F Chlorides 35,000 ppm  
 (A) Initial Hydrostatic 1362  Test 1050 T-On Location 1155  
 (B) First Initial Flow 102  Jars 250 T-Started 1241  
 (C) First Final Flow 107  Safety Joint 75 T-Open 1428  
 (D) Initial Shut-In 623  Circ Sub — T-Pulled 1703  
 (E) Second Initial Flow 99  Hourly Standby — T-Out 1845  
 (F) Second Final Flow 220  Mileage 322 RT <sup>8</sup> Comments —  
 (G) Final Shut-In 620  Sampler —  
 (H) Final Hydrostatic 1294  Straddle —  
 Shale Packer —  Ruined Shale Packer —  
 Extra Packer —  Ruined Packer —  
 Extra Recorder —  Extra Copies —  
 Initial Open 5  Day Standby — Sub Total 0  
 Initial Shut-In 30  Accessibility — Total 1383  
 Final Flow 60  Sub Total 1383 MP/DST Disc't —  
 Final Shut-In 60

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64842

Well Name & No. Just #1-29 Test No. 3 Date 1/18/16  
 Company Carmen Schmitt, Inc. Elevation 1457 KB 1452 GL  
 Address PO Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rone Rig WW #4  
 Location: Sec. 29 Twp. 19 S Rge. 2 E Co. Marion State KS

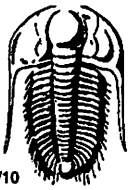
Interval Tested 2844-3090 Zone Tested Viola  
 Anchor Length 246' Drill Pipe Run 2730 Mud Wt. 9.7  
 Top Packer Depth 2839 Drill Collars Run 120 Vis 54  
 Bottom Packer Depth 2844 Wt. Pipe Run --- WL 8.4  
 Total Depth 3090 Chlorides 2200 ppm System LCM 1#  
 Blow Description IF - Slowly built to 4"  
ISI - No blow  
FF - BAB 28 mins  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>402</u>	<u>M w/ trace of W</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 402 BHT 105° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1470</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1/17 2345</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0023</u>
(C) First Final Flow <u>105</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0252</u>
(D) Initial Shut-In <u>884</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0522</u>
(E) Second Initial Flow <u>111</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0720</u>
(F) Second Final Flow <u>231</u>	<input checked="" type="checkbox"/> Mileage <u>322 RT</u> <sup>171</sup>	Comments _____
(G) Final Shut-In <u>881</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1444</u>	<input type="checkbox"/> Straddle _____	
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	Total <u>1546</u>
	Sub Total <u>1546</u>	MP/DST Disc't _____

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64843

Well Name & No. Just #1-29 Test No. 4 Date 1/18/16  
 Company Carmen Schmitt, Inc. Elevation 1457 KB 1452 GL  
 Address PO Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rinc Rig WW#4  
 Location: Sec. 29 Twp. 19 3 Rge. 2 E Co. Marion State KS

Interval Tested 3141-3182 Zone Tested Simpson  
 Anchor Length 41' Drill Pipe Run 3015 Mud Wt. 9.75  
 Top Packer Depth 3136 Drill Collars Run 120 Vis 44  
 Bottom Packer Depth 3181 Wt. Pipe Run — WL 7.2  
 Total Depth 3182 Chlorides 1,600 ppm System LCM 2#

Blow Description IF - Steady build to 7"  
ISI - No blow  
FF - BOB 23 mins  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>277</u>	<u>MW</u>			<u>70</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 277 BHT 112° Gravity — API RW .97 @ 35° F Chlorides 77,600 ppm

(A) Initial Hydrostatic 1572  Test 1050 T-On Location 1955  
 (B) First Initial Flow 18  Jars 250 T-Started 2010  
 (C) First Final Flow 73  Safety Joint 75 T-Open 2244  
 (D) Initial Shut-In 1037  Circ Sub — T-Pulled 0114  
 (E) Second Initial Flow 75  Hourly Standby — T-Out 0307  
 (F) Second Final Flow 143  Mileage 322 RT <sup>171+8</sup> Comments Loaded feeds 1/19 @  
 (G) Final Shut-In 1028  Sampler — 1945 stayed 3 nights @  
 (H) Final Hydrostatic 1539  Straddle — Country Haven Inn, Hillsboro, KS

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Initial Open 15  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 60  
 Sub Total 0  
 Total 1554  
 MP/DST Disc't —  
 Sub Total 1554

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