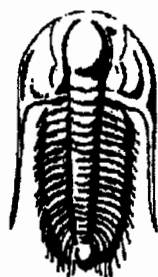


no det (3)

15-101-22199

11-17s-30w



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend, KS 67530

ATTN: Tom Funk

**11 17s 30w Lane KS**

**Wilkins #1**

Start Date: 2009.11.19 @ 01:13:03

End Date: 2009.11.19 @ 08:40:57

Job Ticket #: 35301                      DST #: 1

**KCC  
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CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Carmen Schmitt Inc

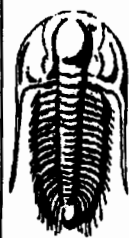
Wilkins #1

11 17s 30w Lane KS

DST # 1

Lansing E-F

2009.11.19



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc

**Wilkens #1**

P.O. Box 47  
Great Bend, KS 67530

**11 17s 30w Lane KS**

Job Ticket: 35301      **DST#: 1**

ATTN: Tom Funk

Test Start: 2009.11.19 @ 01:13:03

## GENERAL INFORMATION:

Formation: **Lansing E-F**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 03:00:43  
 Time Test Ended: 08:40:57

Test Type: **Conventional Bottom Hole**  
 Tester: **Brandon Turley**  
 Unit No: **35**

Interval: **4016.00 ft (KB) To 4048.00 ft (KB) (TVD)**  
 Total Depth: **4048.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2858.00 ft (KB)**  
**2848.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

**Serial #: 8373**

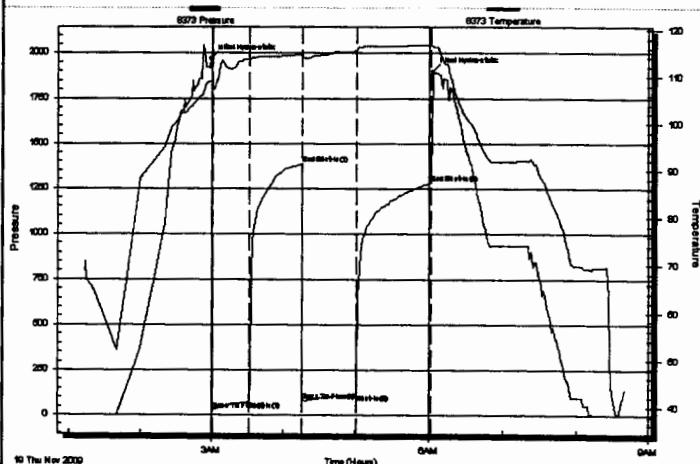
**Inside**

Press@RunDepth: **117.51 psig @ 4017.00 ft (KB)**  
 Start Date: **2009.11.19**      End Date: **2009.11.19**  
 Start Time: **01:13:03**      End Time: **08:40:57**

Capacity: **8000.00 psig**  
 Last Calib.: **2009.11.19**  
 Time On Btrm: **2009.11.19 @ 02:58:43**  
 Time Off Btrm: **2009.11.19 @ 06:02:42**

TEST COMMENT: IF: 1/4 blow BOB in 22 min.  
 IS: No return.  
 FF: Surface blow built to 8 in 45 min.  
 FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.92	108.98	Initial Hydro-static
2	29.22	107.89	Open To Flow (1)
33	74.14	113.56	Shut-in(1)
77	1384.59	114.62	End Shut-in(1)
77	79.57	113.85	Open To Flow(2)
122	117.51	115.43	Shut-in(2)
183	1279.63	116.70	End Shut-in(2)
184	1899.62	116.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	w cm 40%w 60%m	0.87
62.00	w cm 20%w 80%m	0.87
124.00	mud oil spots 100%m	1.74

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35301      **DST#: 1**  
Test Start: 2009.11.19 @ 01:13:03

**Tool Information**

Drill Pipe:	Length: 4020.00 ft	Diameter: 3.80 inches	Volume: 56.39 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 56.39 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4016.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3997.00	
Shut In Tool	5.00			4002.00	
Hydraulic tool	5.00			4007.00	
Packer	5.00			4012.00	20.00 Bottom Of Top Packer
Packer	4.00			4016.00	
Stubb	1.00			4017.00	
Recorder	0.00	6772	Inside	4017.00	
Recorder	0.00	8373	Inside	4017.00	
Perforations	26.00			4043.00	
Bullnose	5.00			4048.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35301      **DST#: 1**  
Test Start: 2009.11.19 @ 01:13:03

## 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: 50000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.15 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 7.20 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	w cm 40%w 60%m	0.870
62.00	w cm 20%w 80%m	0.870
124.00	mud oil spots 100%m	1.739

Total Length: 248.00 ft      Total Volume: 3.479 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: .31@35=50000

Serial #: 8373

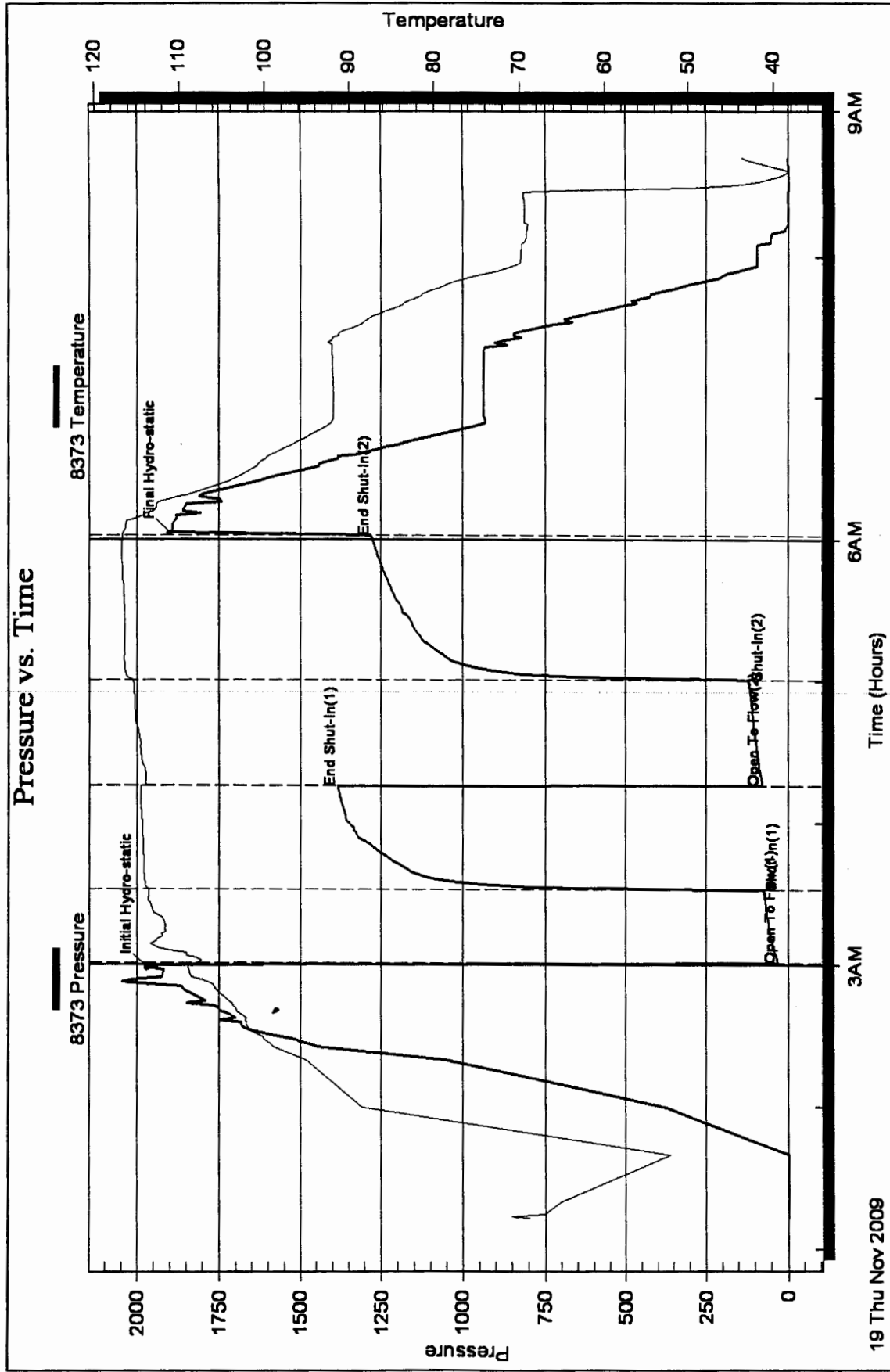
Inside

Carmen Schmitt Inc

11 17s 30w Lane KS

DST Test Number: 1

### Pressure vs. Time

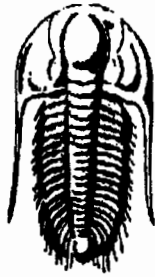


19 Thu Nov 2009

Trilobite Testing, Inc

Ref. No: 35301

Printed: 2009.12.01 @ 09:38:58 Page 5



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend, KS 67530

ATTN: Tom Funk

**11 17s 30w Lane KS**

### **Wilkens #1**

Start Date: 2009.11.19 @ 19:42:47

End Date: 2009.11.20 @ 02:40:11

Job Ticket #: 35302                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Carmen Schmitt Inc

Wilkens #1

11 17s 30w Lane KS

DST # 2

Lansing H

2009.11.19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 P.O. Box 47  
 Great Bend, KS 67530  
 ATTN: Tom Funk

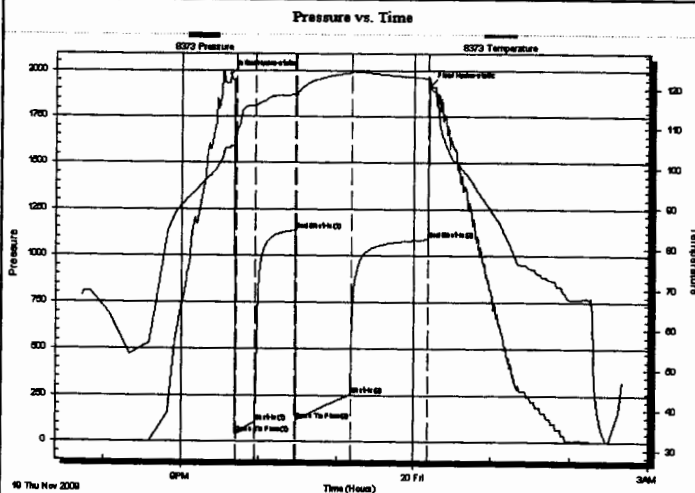
**Wilkens #1**  
**11 17s 30w Lane KS**  
 Job Ticket: 35302      **DST#: 2**  
 Test Start: 2009.11.19 @ 19:42:47

## GENERAL INFORMATION:

Formation: **Lansing H**  
 Deviated: **No Whipstock**      ft (KB)  
 Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **21:41:57**  
 Tester: **Brandon Turley**  
 Time Test Ended: **02:40:11**  
 Unit No: **35**  
 Interval: **4101.00 ft (KB) To 4135.00 ft (KB) (TVD)**  
 Reference Elevations: **2858.00 ft (KB)**  
 Total Depth: **4135.00 ft (KB) (TVD)**  
**2848.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 KB to GR/CF: **10.00 ft**

**Serial #: 8373      Inside**  
 Press@RunDepth: **251.86 psig @ 4102.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2009.11.19**      End Date: **2009.11.20**      Last Calib.: **2009.11.20**  
 Start Time: **19:42:47**      End Time: **02:40:11**      Time On Btrn: **2009.11.19 @ 21:37:57**  
 Time Off Btrn: **2009.11.20 @ 00:12:26**

**TEST COMMENT:** IF: 1/4 blow BOB in 4 min.  
 IS: Surface blow built to 1/4 in 30 min.  
 FF: BOB in 7 min.  
 FS: Surface blow built to 9 in 60 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.97	105.52	Initial Hydro-static
4	38.95	106.41	Open To Flow (1)
19	104.60	115.74	Shut-in(1)
50	1134.38	118.39	End Shut-in(1)
51	112.64	117.35	Open To Flow (2)
94	251.86	123.93	Shut-in(2)
154	1086.23	122.58	End Shut-in(2)
155	1914.99	121.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	mcw 90%w 10%m	0.87
124.00	gocw m 20%g 20%o 30%w 30%m	1.74
186.00	gocm 20%g 30%o 50%m	2.61
217.00	go 20%g 80%o	3.04
0.00	341 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc

**Wilkens #1**

P.O. Box 47  
Great Bend, KS 67530

**11 17s 30w Lane KS**

Job Ticket: 35302      **DST#: 2**

ATTN: Tom Funk

Test Start: 2009.11.19 @ 19:42:47

**Tool Information**

Drill Pipe:	Length: 4086.00 ft	Diameter: 3.80 inches	Volume: 57.32 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 57.32 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4101.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4082.00	
Shut In Tool	5.00			4087.00	
Hydraulic tool	5.00			4092.00	
Packer	5.00			4097.00	20.00      Bottom Of Top Packer
Packer	4.00			4101.00	
Stubb	1.00			4102.00	
Recorder	0.00	6772	Inside	4102.00	
Recorder	0.00	8373	Inside	4102.00	
Perforations	28.00			4130.00	
Bullnose	5.00			4135.00	34.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>54.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35302      **DST#: 2**  
Test Start: 2009.11.19 @ 19:42:47

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 35 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 94000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.94 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mcw 90%w 10%m	0.870
124.00	gocw m 20%g 20%o 30%w 30%m	1.739
186.00	gocm 20%g 30%o 50%m	2.609
217.00	go 20%g 80%o	3.044
0.00	341 GIP	0.000

Total Length: 589.00 ft      Total Volume: 8.262 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 33@40=35  
    .19@34=94000

Serial #: 8373

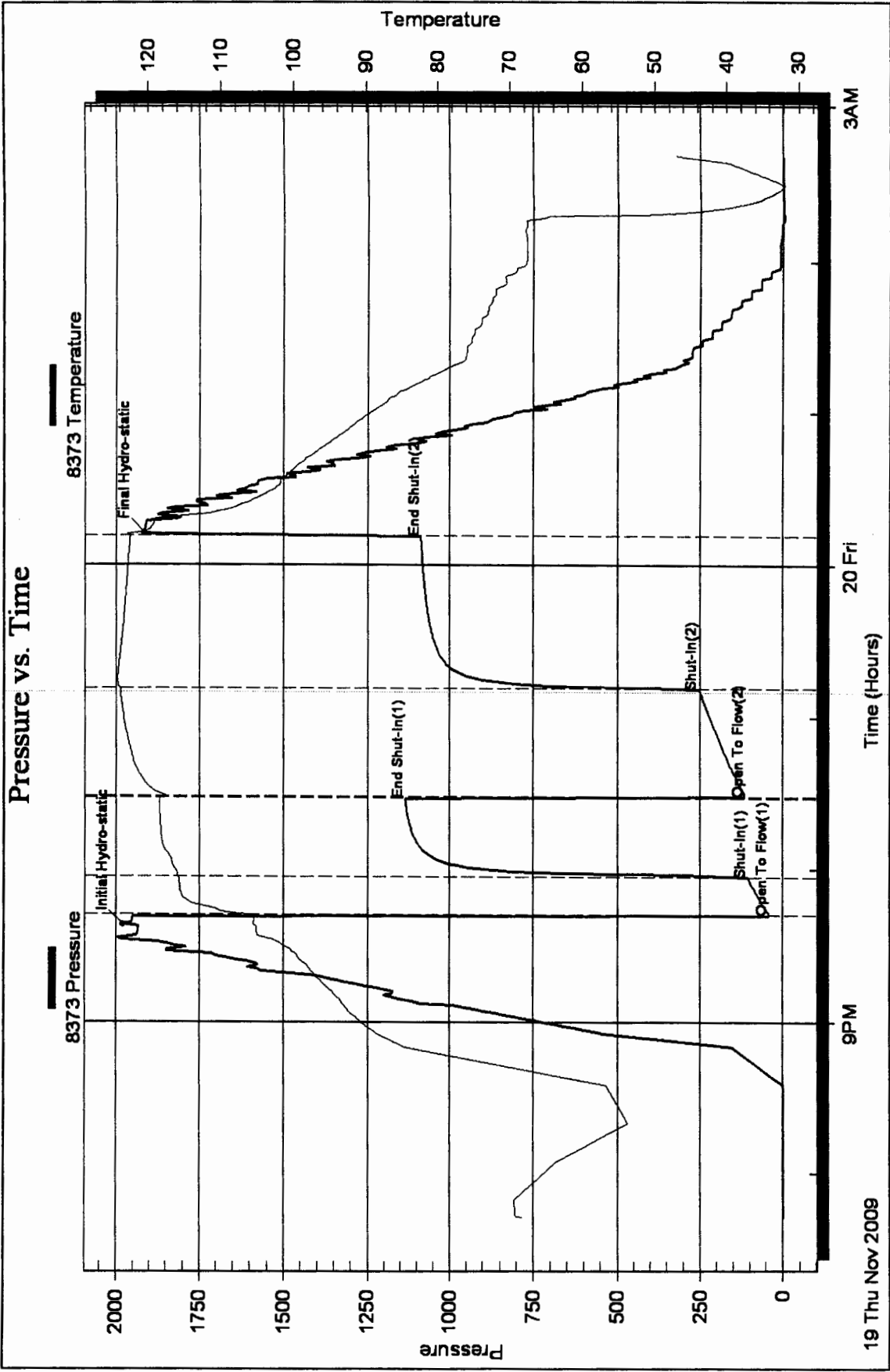
Inside

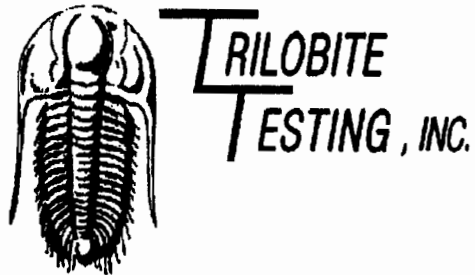
Carmen Schmitt Inc

11 17s 30w Lane KS

DST Test Number: 2

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend, KS 67530

ATTN: Tom Funk

**11 17s 30w Lane KS**

### **Wilkens #1**

Start Date: 2009.11.21 @ 00:05:53

End Date: 2009.11.21 @ 05:03:17

Job Ticket #: 35304      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Carmen Schmitt Inc

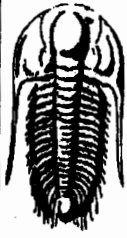
Wilkens #1

11 17s 30w Lane KS

DST # 4

Lansing J

2009.11.21



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

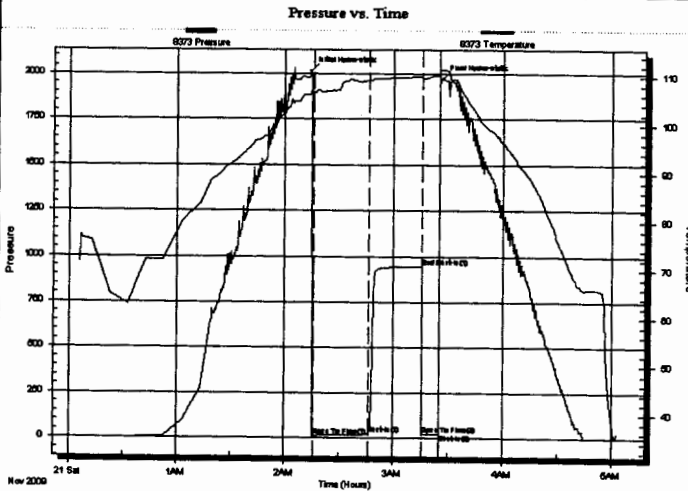
**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35304      DST#: 4  
Test Start: 2009.11.21 @ 00:05:53

## GENERAL INFORMATION:

Formation: **Lansing J**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 02:15:48  
Time Test Ended: 05:03:17  
Interval: **4171.00 ft (KB) To 4190.00 ft (KB) (TVD)**  
Total Depth: **4190.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Brandon Turley**  
Unit No: **35**  
Reference Elevations: **2858.00 ft (KB)**  
**2848.00 ft (CF)**  
KB to GR/CF: **10.00 ft**

**Serial #: 8373**      **Inside**  
Press@RunDepth: **19.25 psig @ 4172.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2009.11.21**      End Date: **2009.11.21**      Last Calib.: **2009.11.21**  
Start Time: **00:05:53**      End Time: **05:03:17**      Time On Btm: **2009.11.21 @ 02:14:18**  
Time Off Btm: **2009.11.21 @ 03:27:03**

**TEST COMMENT:** IF: Surface blow died in 5 min.  
IS: No return.  
FF: No blow.  
FS: Pulled tool.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2014.99	106.51	Initial Hydro-static
2	11.61	106.81	Open To Flow (1)
32	19.25	109.22	Shut-In(1)
62	947.18	110.06	End Shut-In(1)
62	19.48	109.56	Open To Flow (2)
71	22.19	110.69	Shut-In(2)
73	1971.58	111.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%rn	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35304      **DST#: 4**  
Test Start: 2009.11.21 @ 00:05:53

**Tool Information**

Drill Pipe:	Length: 4179.00 ft	Diameter: 3.80 inches	Volume: 58.62 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4171.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4152.00	
Shut In Tool	5.00			4157.00	
Hydraulic tool	5.00			4162.00	
Packer	5.00			4167.00	20.00      Bottom Of Top Packer
Packer	4.00			4171.00	
Stubb	1.00			4172.00	
Recorder	0.00	6772	inside	4172.00	
Recorder	0.00	8373	inside	4172.00	
Perforations	13.00			4185.00	
Bullnose	5.00			4190.00	19.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>39.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35304      DST#: 4  
Test Start: 2009.11.21 @ 00:05:53

**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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4100.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100% <sub>m</sub>	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

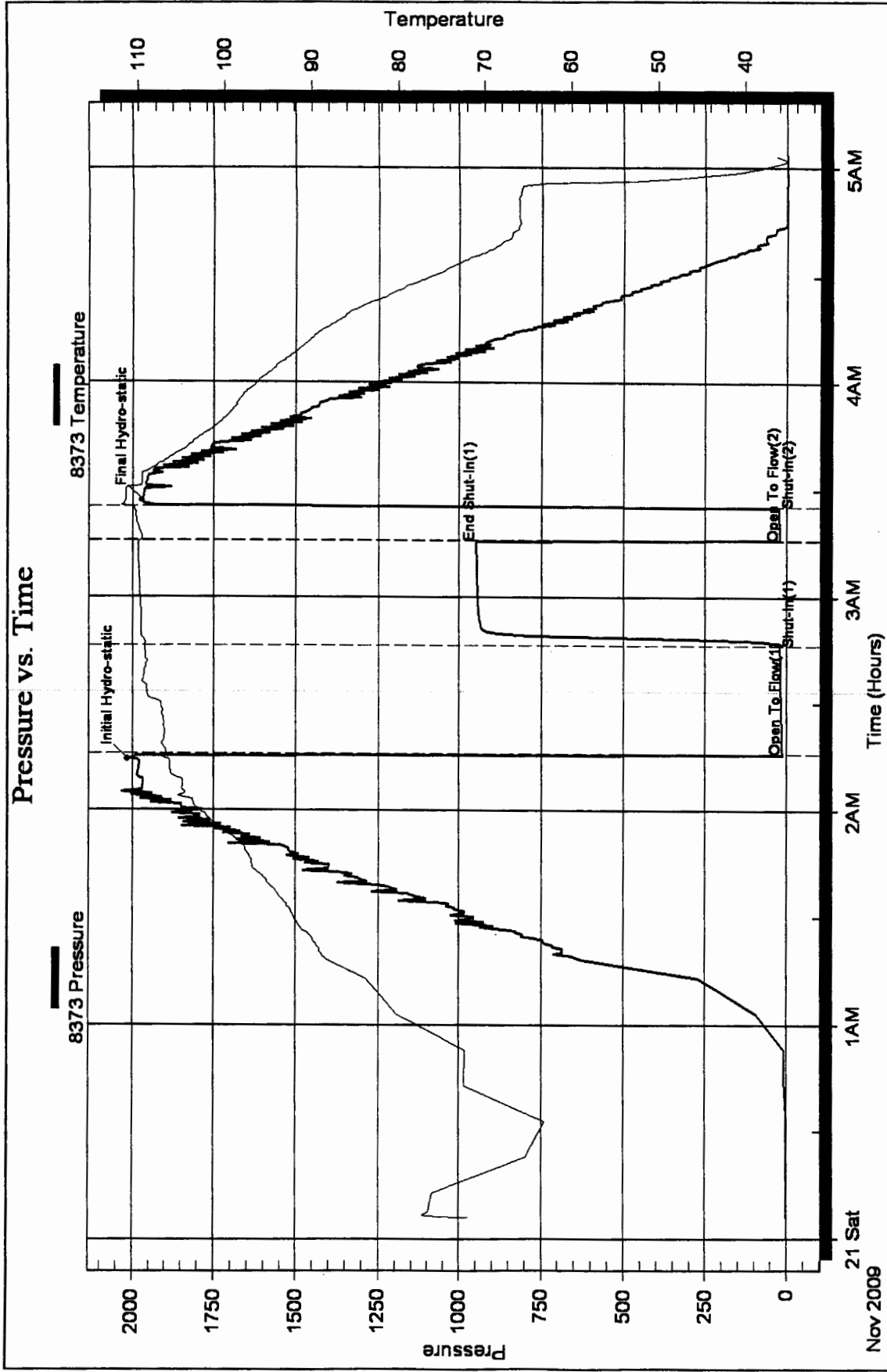
Serial #: 8373

Inside Carmen Schmitt Inc

11 17s 30w Lane KS

DST Test Number: 4

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend, KS 67530

ATTN: Tom Funk

**11 17s 30w Lane KS**

### **Wilkens #1**

Start Date: 2009.11.21 @ 13:17:21

End Date: 2009.11.21 @ 19:37:00

Job Ticket #: 35305                      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620





**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35305      **DST#: 5**  
Test Start: 2009.11.21 @ 13:17:21

**Tool Information**

Drill Pipe:	Length: 4209.00 ft	Diameter: 3.80 inches	Volume: 59.04 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 59.04 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4201.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4182.00	
Shut In Tool	5.00			4187.00	
Hydraulic tool	5.00			4192.00	
Packer	5.00			4197.00	20.00 Bottom Of Top Packer
Packer	4.00			4201.00	
Stubb	1.00			4202.00	
Recorder	0.00	6772	Inside	4202.00	
Recorder	0.00	8373	Inside	4202.00	
Perforations	23.00			4225.00	
Bullnose	5.00			4230.00	29.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>49.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35305      **DST#: 5**  
Test Start: 2009.11.21 @ 13:17:21

### 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:	50000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	5.98 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1700.00 ppm				
Filter Cake:	1.00 inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	mw 50%w 50%m	0.870
93.00	wcm 20%w 80%m	1.305

Total Length: 155.00 ft      Total Volume: 2.175 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: .23@49=50000

Serial #: 8373

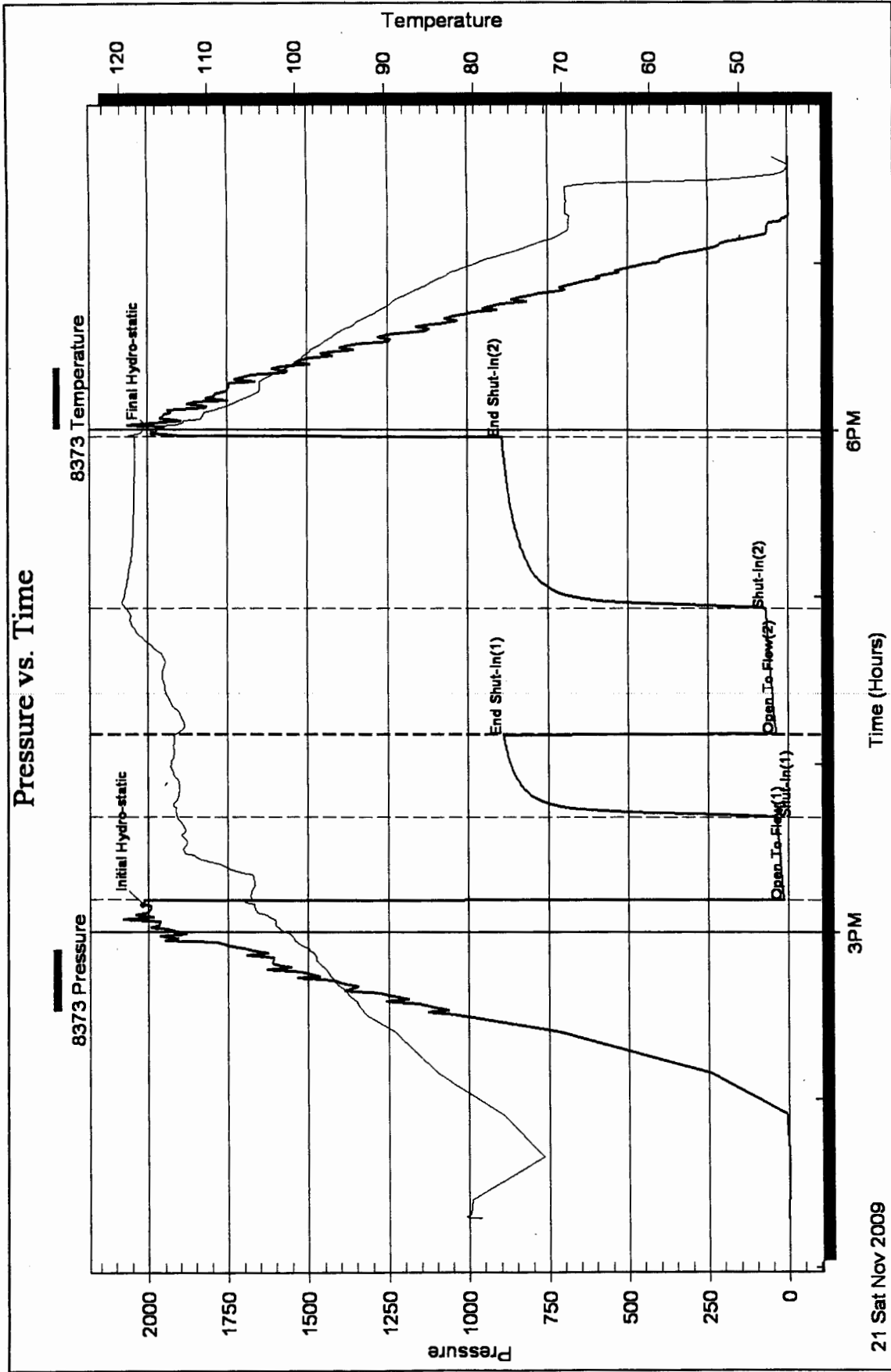
Inside

Carmen Schmitt Inc

11 17s 30w Lane KS

DST Test Number: 5

### Pressure vs. Time

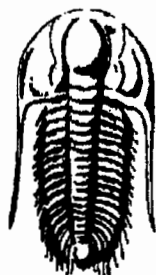


21 Sat Nov 2009

3PM

6PM

Time (Hours)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend, KS 67530

ATTN: Tom Funk

**11 17s 30w Lane KS**

### Wilkins #1

Start Date: 2009.11.22 @ 21:30:47

End Date: 2009.11.23 @ 04:20:41

Job Ticket #: 35306      DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

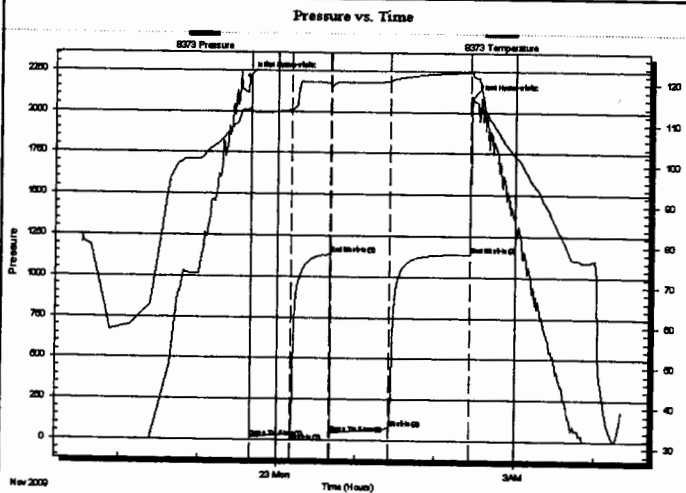
**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35306      **DST#: 6**  
Test Start: 2009.11.22 @ 21:30:47

## GENERAL INFORMATION:

Formation: **Myrick Station- Ft S**  
Deviated: No Whipstock      ft (KB)  
Time Tool Opened: 23:39:57  
Time Test Ended: 04:20:41  
Interval: **4407.00 ft (KB) To 4475.00 ft (KB) (TVD)**  
Total Depth: **4475.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Reference Elevations: 2858.00 ft (KB)  
2848.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8373**      **Inside**  
Press@RunDepth: 74.80 psig @ 4408.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2009.11.22      End Date: 2009.11.23      Last Calib.: 2009.11.23  
Start Time: 21:30:47      End Time: 04:20:41      Time On Btrn: 2009.11.22 @ 23:37:57  
Time Off Btrn: 2009.11.23 @ 02:27:11

**TEST COMMENT:** IF: 1/4 blow built to 5 1/2 in 30 min.  
IS: No return.  
FF: 1/4 blow built to 5 in 45 min.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2214.18	113.59	Initial Hydro-static
2	14.08	112.89	Open To Flow (1)
33	39.60	113.43	Shut-In(1)
62	1138.28	120.18	End Shut-In(1)
63	43.33	119.44	Open To Flow (2)
107	74.80	120.62	Shut-In(2)
168	1140.63	122.97	End Shut-In(2)
170	2088.49	122.70	Final Hydro-static

## Recovery

Length (ft.)	Description	Volume (bbl)
62.00	w cm 40%w 60%o	0.87
82.00	w cm 10%w 90%o	1.15
1.00	free oil 100%o	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530

**Wilkins #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35306      **DST#: 6**  
Test Start: 2009.11.22 @ 21:30:47

ATTN: Tom Funk

**Tool Information**

Drill Pipe:	Length: 4398.00 ft	Diameter: 3.80 inches	Volume: 61.69 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4407.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4388.00	
Shut In Tool	5.00			4393.00	
Hydraulic tool	5.00			4398.00	
Packer	5.00			4403.00	20.00      Bottom Of Top Packer
Packer	4.00			4407.00	
Stubb	1.00			4408.00	
Recorder	0.00	6772	Inside	4408.00	
Recorder	0.00	8373	Inside	4408.00	
Perforations	28.00			4436.00	
Change Over Sub	1.00			4437.00	
Drill Pipe	32.00			4469.00	
Change Over Sub	1.00			4470.00	
Bullnose	5.00			4475.00	68.00      Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35306      **DST#: 6**  
Test Start: 2009.11.22 @ 21:30:47

**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: 52000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1900.00 ppm		
Filter Cake: 1.00 inches		

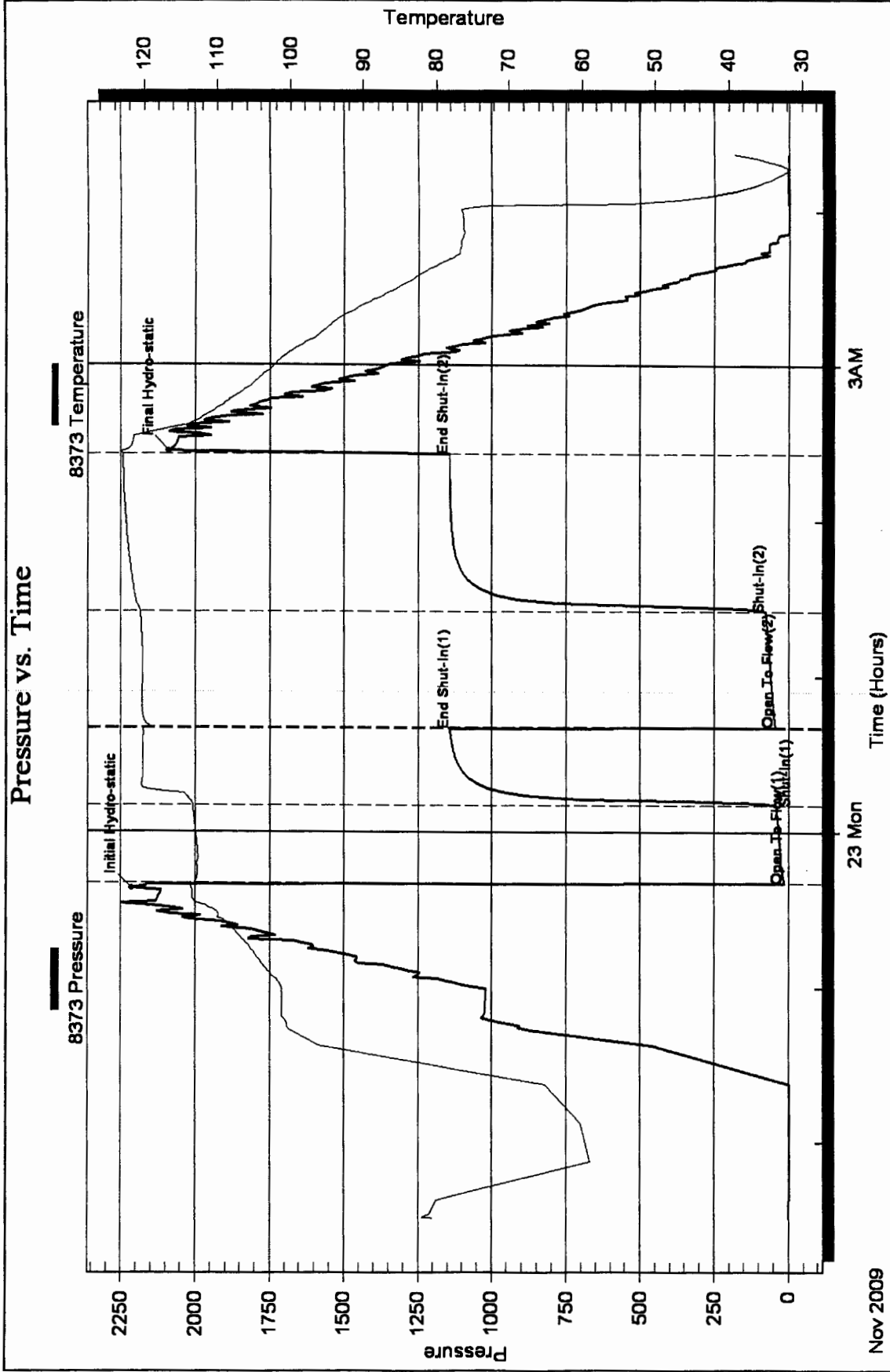
**Recovery Information**

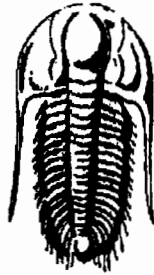
Recovery Table

Length ft	Description	Volume bbl
62.00	w cm 40%w 60%m	0.870
82.00	w cm 10%w 90%m	1.150
1.00	free oil 100%o	0.014

Total Length: 145.00 ft      Total Volume: 2.034 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: .32@33=52000

# Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend, KS 67530

ATTN: Tom Funk

**11 17s 30w Lane KS**

### **Wilkins #1**

Start Date: 2009.11.23 @ 16:00:43

End Date: 2009.11.23 @ 23:06:52

Job Ticket #: 35307                      DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

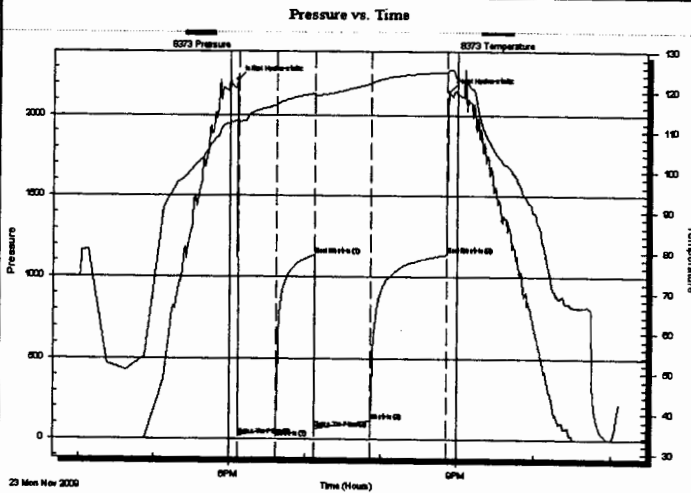
**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35307      **DST#: 7**  
Test Start: 2009.11.23 @ 16:00:43

## GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 18:07:08  
Time Test Ended: 23:06:52  
Interval: **4483.00 ft (KB) To 4530.00 ft (KB) (TVD)**  
Total Depth: 4530.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Reference Elevations: 2858.00 ft (KB)  
2848.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8373**      **Inside**  
Press@RunDepth: 113.85 psig @ 4484.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2009.11.23      End Date: 2009.11.23      Last Calib.: 2009.11.24  
Start Time: 16:00:43      End Time: 23:06:52      Time On Btr: 2009.11.23 @ 18:05:53  
Time Off Btr: 2009.11.23 @ 20:52:52

**TEST COMMENT:** IF: 1/4 blow BOB in 26 min.  
IS: No return.  
FF: 1/4 blow BOB in 32 min.  
FS: Surface blow built to 1/2 in 60 min.



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2218.00	112.64	Initial Hydro-static
2	21.34	112.11	Open To Flow (1)
31	58.97	116.59	Shut-in(1)
61	1135.82	119.53	End Shut-in(1)
62	65.79	119.12	Open To Flow (2)
106	113.85	122.05	Shut-in(2)
166	1136.75	124.91	End Shut-in(2)
167	2145.17	125.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocw m 5%o 10%w 85%o	0.87
114.00	ocm 15%o 85%o	1.60
52.00	go 10%g 90%o	0.73
0.00	144 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35307      **DST#:7**  
Test Start: 2009.11.23 @ 16:00:43

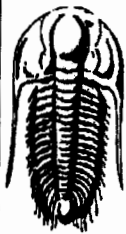
### Tool Information

Drill Pipe:	Length: 4485.00 ft	Diameter: 3.80 inches	Volume: 62.91 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4483.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4464.00	
Shut In Tool	5.00			4469.00	
Hydraulic tool	5.00			4474.00	
Packer	5.00			4479.00	20.00      Bottom Of Top Packer
Packer	4.00			4483.00	
Stubb	1.00			4484.00	
Recorder	0.00	6772	Inside	4484.00	
Recorder	0.00	8373	Inside	4484.00	
Perforations	7.00			4491.00	
Change Over Sub	1.00			4492.00	
Drill Pipe	32.00			4524.00	
Change Over Sub	1.00			4525.00	
Bullnose	5.00			4530.00	47.00      Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35307      **DST#: 7**  
Test Start: 2009.11.23 @ 16:00:43

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 32000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2100.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	ocw m 5%o 10%w 85%m	0.870
114.00	ocm 15%o 85%m	1.599
52.00	go 10%g 90%o	0.729
0.00	144 GIP	0.000

Total Length: 228.00 ft      Total Volume: 3.198 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: 29@40=31  
.43@36=32000

Serial #: 8373

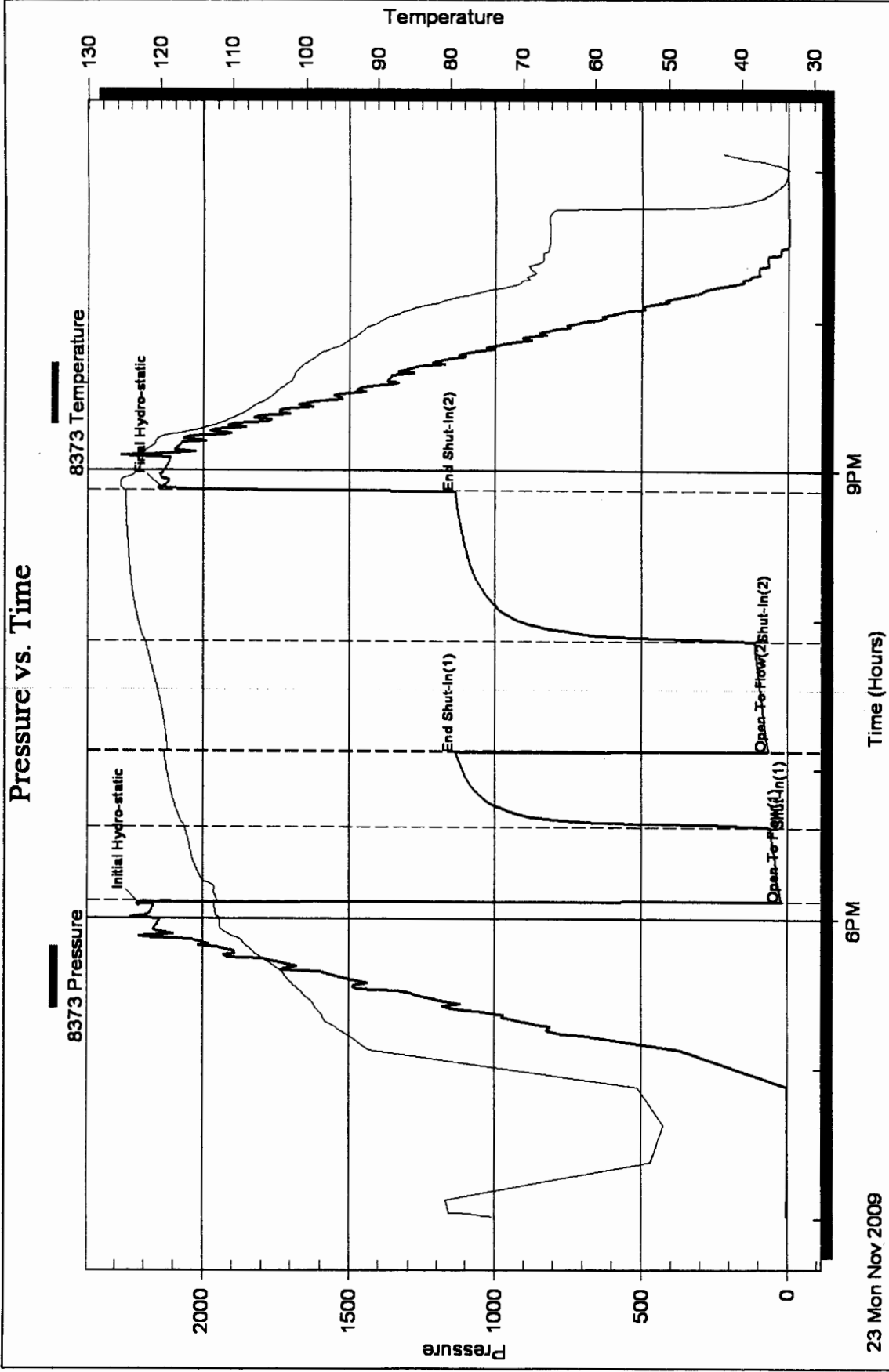
Inside

Carmen Schmitt Inc

11 17s 30w Lane KS

DST Test Number: 7

### Pressure vs. Time

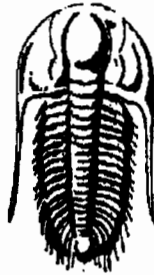


23 Mon Nov 2009

Triobite Testing, Inc

Ref. No: 35307

Printed: 2009.12.01 @ 09:47:41 Page 5



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend, KS 67530

ATTN: Tom Funk

**11 17s 30w Lane KS**

### **Wilkens #1**

Start Date: 2009.11.24 @ 06:58:32

End Date: 2009.11.24 @ 12:43:11

Job Ticket #: 35308                      DST #: 8

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35308      **DST#: 8**  
Test Start: 2009.11.24 @ 06:58:32

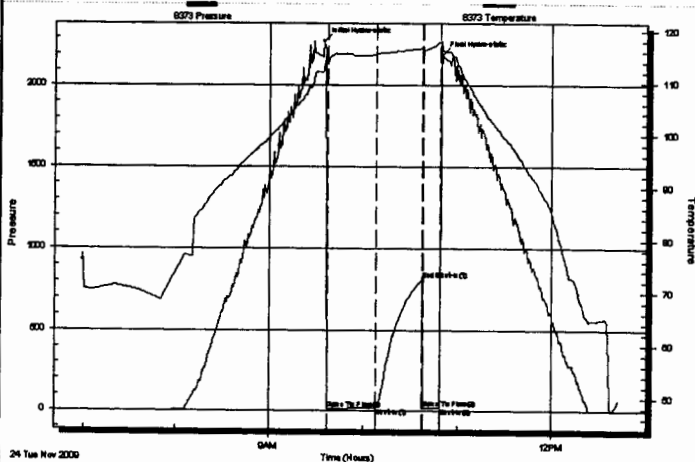
## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 09:37:12  
Time Test Ended: 12:43:11  
Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Interval: **4526.00 ft (KB) To 4560.00 ft (KB) (TVD)**  
Reference Elevations: 2858.00 ft (KB)  
Total Depth: 4560.00 ft (KB) (TVD)                      2848.00 ft (CF)  
Hole Diameter: 7.88 inches    Hole Condition: Good                      KB to GR/CF: 10.00 ft

**Serial #: 8373**      **Inside**  
Press@RunDepth: 16.91 psig @ 4527.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2009.11.24      End Date: 2009.11.24      Last Calib.: 2009.11.24  
Start Time: 06:58:32      End Time: 12:43:11      Time On Btrm: 2009.11.24 @ 09:34:57  
Time Off Btrm: 2009.11.24 @ 10:49:42

**TEST COMMENT:** IF: 1/4 blow died in 17 min.  
IS: No return.  
FF: No blow.  
FS: Pulled tool.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.66	112.34	Initial Hydro-static
3	15.38	113.67	Open To Flow (1)
33	16.91	115.50	Shut-In(1)
62	812.30	116.68	End Shut-In(1)
63	17.65	116.31	Open To Flow (2)
74	18.16	117.75	Shut-In(2)
75	2193.95	116.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud oil spots 100% <sub>m</sub>	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35308      **DST#: 8**  
Test Start: 2009.11.24 @ 06:58:32

**Tool Information**

Drill Pipe:	Length: 4520.00 ft	Diameter: 3.80 inches	Volume: 63.40 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<b>Total Volume: 63.40 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4526.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4507.00	
Shut In Tool	5.00			4512.00	
Hydraulic tool	5.00			4517.00	
Packer	5.00			4522.00	20.00      Bottom Of Top Packer
Packer	4.00			4526.00	
Stubb	1.00			4527.00	
Recorder	0.00	6772	Inside	4527.00	
Recorder	0.00	8373	Inside	4527.00	
Perforations	28.00			4555.00	
Bullnose	5.00			4560.00	34.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>54.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend, KS 67530  
ATTN: Tom Funk

**Wilkens #1**  
**11 17s 30w Lane KS**  
Job Ticket: 35308      DST#: 8  
Test Start: 2009.11.24 @ 06:58:32

### 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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud oil spots 100% <sub>m</sub>	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time

