

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1271239  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
November 2016

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1271239



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Geologist Report / Mud Logs	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

- Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
- Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
- Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i>			PRODUCTION INTERVAL: Top _____ Bottom _____	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Ziegelmeier 1-2
Doc ID	1271239

All Electric Logs Run

Computer Processed
Dual Induction
Dual Comp Porosity
Dual Comp Porosity
Microresistivity

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Ziegelmeier 1-2
Doc ID	1271239

Tops

Name	Top	Datum
Anhydrite	2644	355
Howard	3703	-704
Topeka	3752	-753
Heebner	3934	-935
Toronto	3966	-967
Lansing	3982	-983
B KC	4229	-1230
Pawnee	4310	-1311
Cherokee	4402	-1403
Mississippian	4546	-1547





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67503-0047

ATTN: Brad Rine

### **Ziegelmeier #1-2**

#### **2-7s-32w Thomas,KS**

Start Date: 2015.11.06 @ 23:15:38

End Date: 2015.11.07 @ 03:46:08

Job Ticket #: 45520                      DST #: 1

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

Printed: 2015.11.12 @ 08:19:20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 PO Box 47  
 Great Bend, KS 67503-0047  
 ATTN: Brad Rine

**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 45520 **DST#: 1**  
 Test Start: 2015.11.06 @ 23:15:38

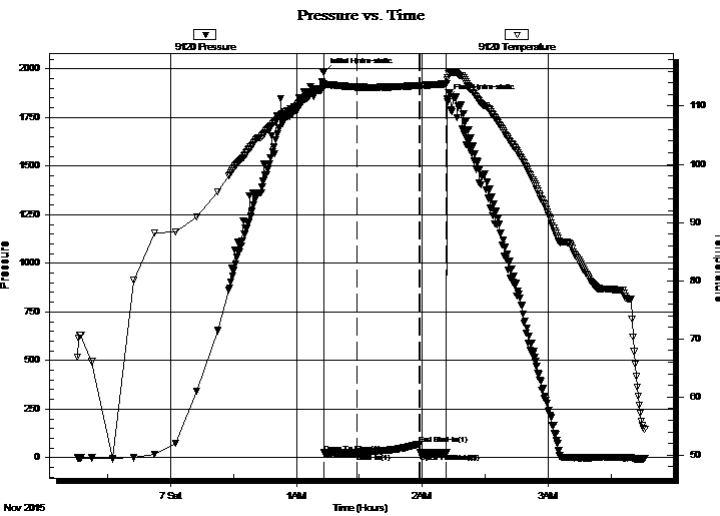
## GENERAL INFORMATION:

Formation: **Toronto - LKC A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:13:08  
 Time Test Ended: 03:46:08  
 Interval: **3994.00 ft (KB) To 3990.00 ft (KB) (TVD)**  
 Total Depth: 3990.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 9120 Outside

Press@RunDepth: 25.05 psig @ 3935.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.06 End Date: 2015.11.07 Last Calib.: 2015.11.07  
 Start Time: 23:15:38 End Time: 03:46:08 Time On Btm: 2015.11.07 @ 01:12:53  
 Time Off Btm: 2015.11.07 @ 02:11:53

TEST COMMENT: 1/4" blow died back to a weak surface blow  
 No return  
 No blow, pull tool after 10 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1982.45	113.86	Initial Hydro-static
1	24.54	113.31	Open To Flow (1)
16	25.05	113.29	Shut-In(1)
46	70.47	113.54	End Shut-In(1)
46	25.11	113.52	Open To Flow (2)
59	24.75	113.83	Shut-In(2)
59	1846.62	114.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%m	0.00

## 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 67503-0047  
ATTN: Brad Rine

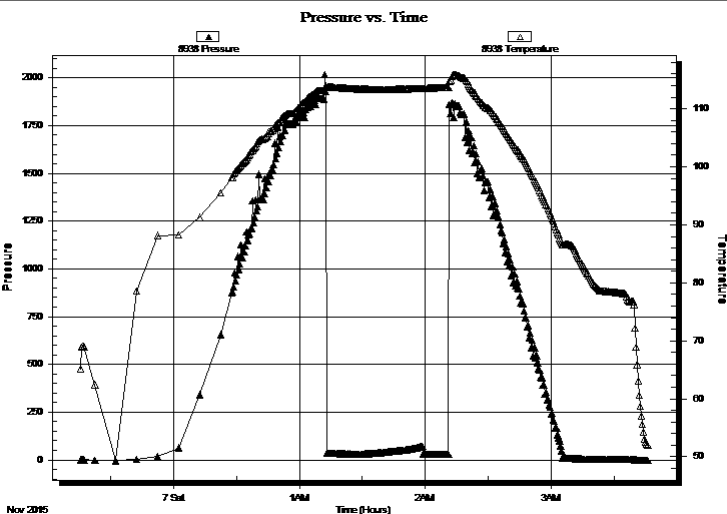
**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
Job Ticket: 45520     **DST#: 1**  
Test Start: 2015.11.06 @ 23:15:38

**GENERAL INFORMATION:**

**Formation:** Toronto - LKC A  
**Deviated:** No     **Whipstock:**     ft (KB)  
**Time Tool Opened:** 01:13:08     **Test Type:** Conventional Bottom Hole (Initial)  
**Time Test Ended:** 03:46:08     **Tester:** Shane McBride  
**Unit No:** 84  
**Interval:** 3994.00 ft (KB) To 3990.00 ft (KB) (TVD)     **Reference Elevations:** 2999.00 ft (KB)  
**Total Depth:** 3990.00 ft (KB) (TVD)     2994.00 ft (CF)  
**Hole Diameter:** 7.88 inches     **Hole Condition:** Fair     **KB to GR/CF:** 5.00 ft

**Serial #: 8938**     **Inside**  
**Press@RunDepth:**     psig @ 3935.00 ft (KB)     **Capacity:** 8000.00 psig  
**Start Date:** 2015.11.06     **End Date:** 2015.11.07     **Last Calib.:** 2015.11.07  
**Start Time:** 23:15:36     **End Time:** 03:46:06     **Time On Btm:**  
    **Time Off Btm:**

**TEST COMMENT:** 1/4" blow died back to a weak surface blow  
                                  No return  
                                  No blow , pull tool after 10 min.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
1.00	mud 100% <sub>m</sub>	0.00

**Gas Rates**

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 45520

**DST#: 1**

ATTN: Brad Rine

Test Start: 2015.11.06 @ 23:15:38

## Tool Information

Drill Pipe:	Length: 3789.00 ft	Diameter: 3.80 inches	Volume: 53.15 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 53.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3934.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 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			3907.00	
Shut In Tool	5.00			3912.00	
Hydraulic tool	5.00			3917.00	
Jars	5.00			3922.00	
Safety Joint	3.00			3925.00	
Packer	5.00			3930.00	28.00 Bottom Of Top Packer
Packer	4.00			3934.00	
Stubb	1.00			3935.00	
Recorder	0.00	9120	Outside	3935.00	
Recorder	0.00	8938	Inside	3935.00	
Perforations	16.00			3951.00	
Change Over Sub	1.00			3952.00	
Drill Pipe	32.00			3984.00	
Change Over Sub	1.00			3985.00	
Bullnose	5.00			3990.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 84.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 45520

**DST#: 1**

ATTN: Brad Rine

Test Start: 2015.11.06 @ 23:15:38

## 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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

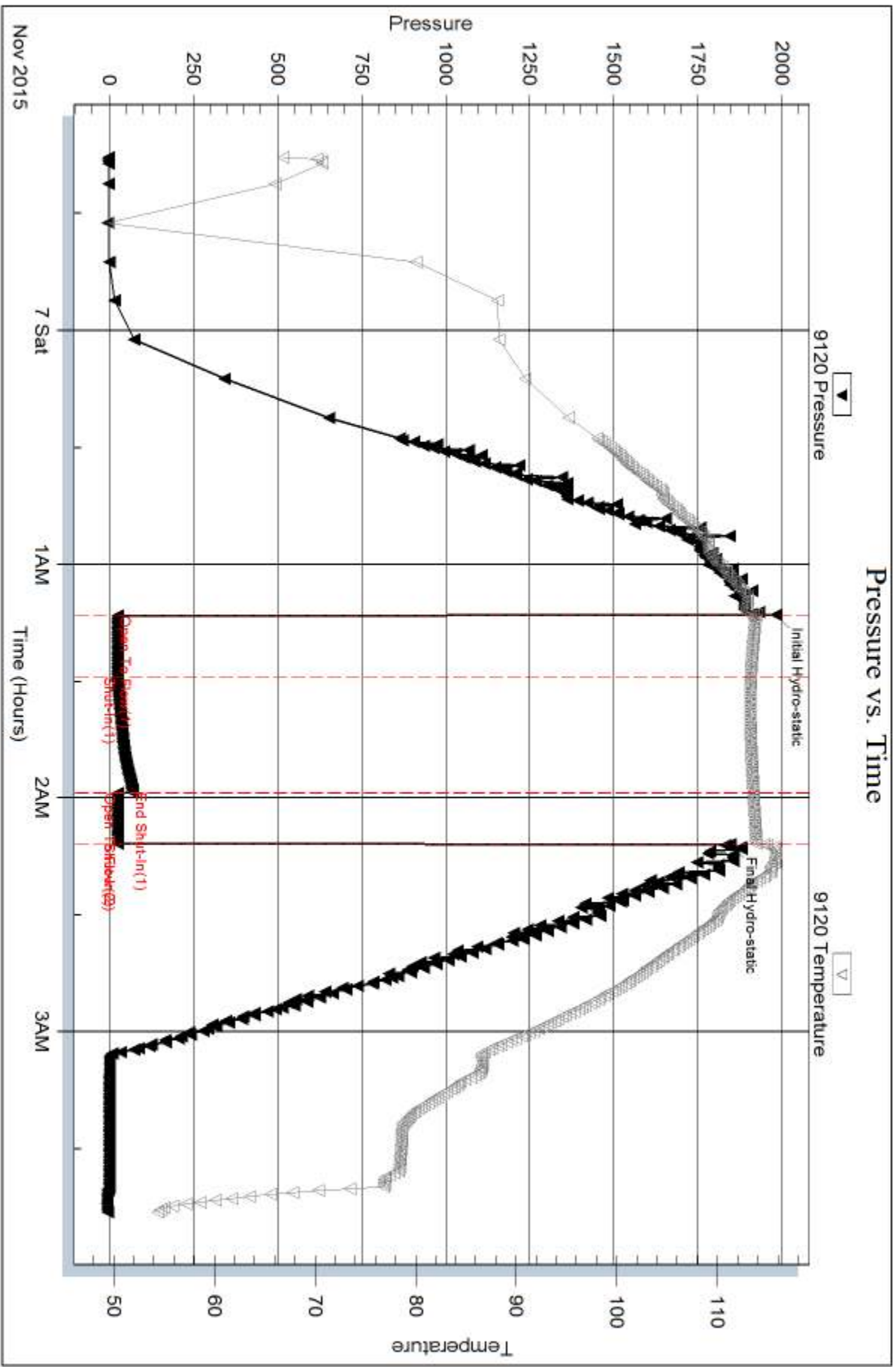
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



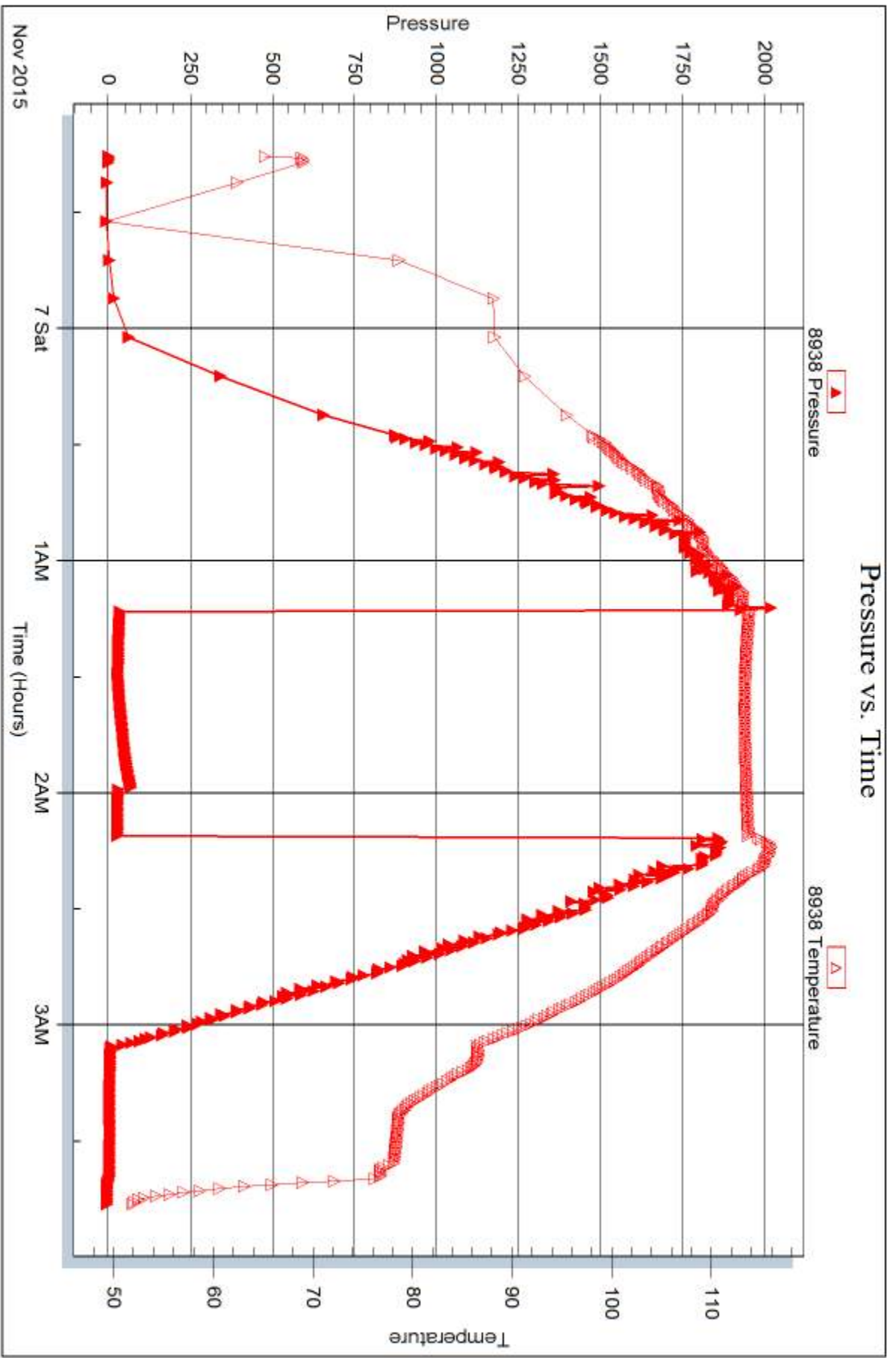
Serial #: 8938

Inside

Carmen Schmitt Inc

Ziegelreier #1-2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45520

Printed: 2015.11.12 @ 08:19:21



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67503-0047

ATTN: Brad Rine

### **Ziegelmeier #1-2**

### **2-7s-32w Thomas,KS**

Start Date: 2015.11.07 @ 11:50:15

End Date: 2015.11.07 @ 18:25:00

Job Ticket #: 45521                      DST #: 2

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

Printed: 2015.11.12 @ 08:18:58



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67503-0047  
ATTN: Brad Rine

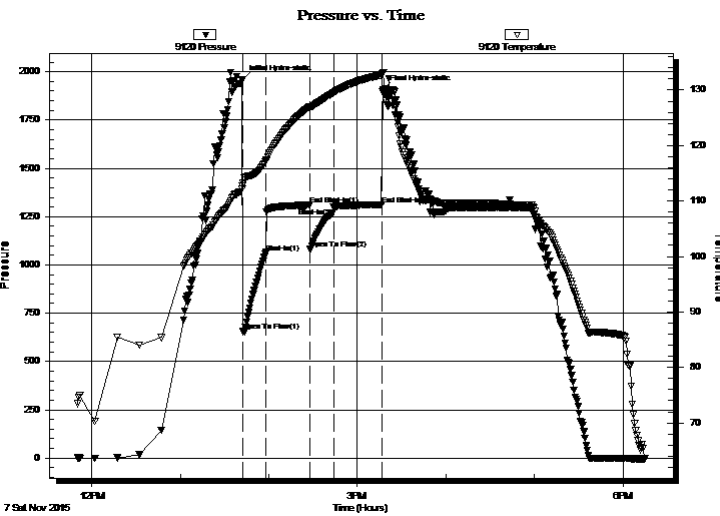
**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
Job Ticket: 45521 **DST#: 2**  
Test Start: 2015.11.07 @ 11:50:15

## GENERAL INFORMATION:

Formation: **LKC C - D**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:42:30  
Time Test Ended: 18:25:00  
Interval: **3993.00 ft (KB) To 4050.00 ft (KB) (TVD)**  
Total Depth: 4050.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Shane McBride  
Unit No: 84  
Reference Elevations: 2999.00 ft (KB)  
2994.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 9120 Outside**  
Press@RunDepth: 1298.17 psig @ 3994.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.11.07 End Date: 2015.11.07 Last Calib.: 2015.11.07  
Start Time: 11:50:15 End Time: 18:15:00 Time On Btm: 2015.11.07 @ 13:42:00  
Time Off Btm: 2015.11.07 @ 15:17:30

TEST COMMENT: B.O.B. in 1 min  
No return  
B.O.B. in 1 min  
No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1957.31	112.79	Initial Hydro-static
1	657.43	113.21	Open To Flow (1)
16	1064.52	117.27	Shut-In(1)
46	1309.97	126.98	End Shut-In(1)
46	1080.52	126.94	Open To Flow (2)
62	1298.17	129.50	Shut-In(2)
95	1310.82	132.69	End Shut-In(2)
96	1906.53	133.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	(under circ sub) m c w 30m 70w	0.59
2400.00	w ater (reversed out) 100%w	33.67
126.00	m c w 25m 75w	1.77
95.00	w c m 50w 50m	1.33

\* 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 67503-0047  
 ATTN: Brad Rine

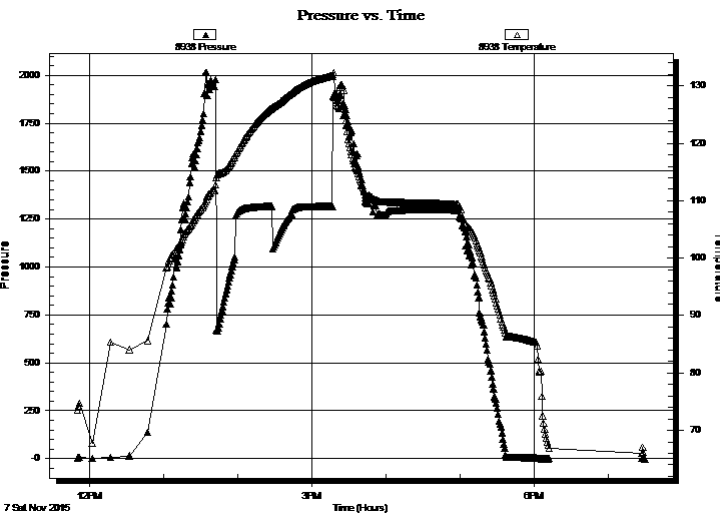
**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 45521      **DST#: 2**  
 Test Start: 2015.11.07 @ 11:50:15

## GENERAL INFORMATION:

Formation: **LKC C - D**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 13:42:30  
 Tester: Shane McBride  
 Time Test Ended: 18:25:00  
 Unit No: 84  
**Interval: 3993.00 ft (KB) To 4050.00 ft (KB) (TVD)**  
 Reference Elevations: 2999.00 ft (KB)  
 Total Depth: 4050.00 ft (KB) (TVD)      2994.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8938      Inside**  
 Press@RunDepth: psig @ 3994.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.11.07      End Date: 2015.11.07      Last Calib.: 2015.11.07  
 Start Time: 11:50:42      End Time: 19:29:57      Time On Btm:  
 Time Off Btm:

TEST COMMENT: B.O.B. in 1 min  
 No return  
 B.O.B. in 1 min  
 No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	(under circ sub) m c w 30m 70w	0.59
2400.00	w ater (reversed out) 100%w	33.67
126.00	m c w 25m 75w	1.77
95.00	w c m 50w 50m	1.33

## 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 67503-0047  
 ATTN: Brad Rine

**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 45521 **DST#: 2**  
 Test Start: 2015.11.07 @ 11:50:15

**Tool Information**

Drill Pipe:	Length: 3855.00 ft	Diameter: 3.80 inches	Volume: 54.08 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 54.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3993.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.00 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			3966.00	
Shut In Tool	5.00			3971.00	
Hydraulic tool	5.00			3976.00	
Jars	5.00			3981.00	
Safety Joint	3.00			3984.00	
Packer	5.00			3989.00	28.00 Bottom Of Top Packer
Packer	4.00			3993.00	
Stubb	1.00			3994.00	
Recorder	0.00	9120	Outside	3994.00	
Recorder	0.00	8938	Inside	3994.00	
Perforations	17.00			4011.00	
Change Over Sub	1.00			4012.00	
Drill Pipe	32.00			4044.00	
Change Over Sub	1.00			4045.00	
Bullnose	5.00			4050.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 85.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 45521

**DST#: 2**

ATTN: Brad Rine

Test Start: 2015.11.07 @ 11:50:15

## 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:

29500 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	(under circ sub) m c w 30m 70w	0.590
2400.00	water (reversed out) 100%w	33.666
126.00	m c w 25m 75w	1.767
95.00	w c m 50w 50m	1.333

Total Length: 2741.00 ft      Total Volume: 37.356 bbl

Num Fluid Samples: 0

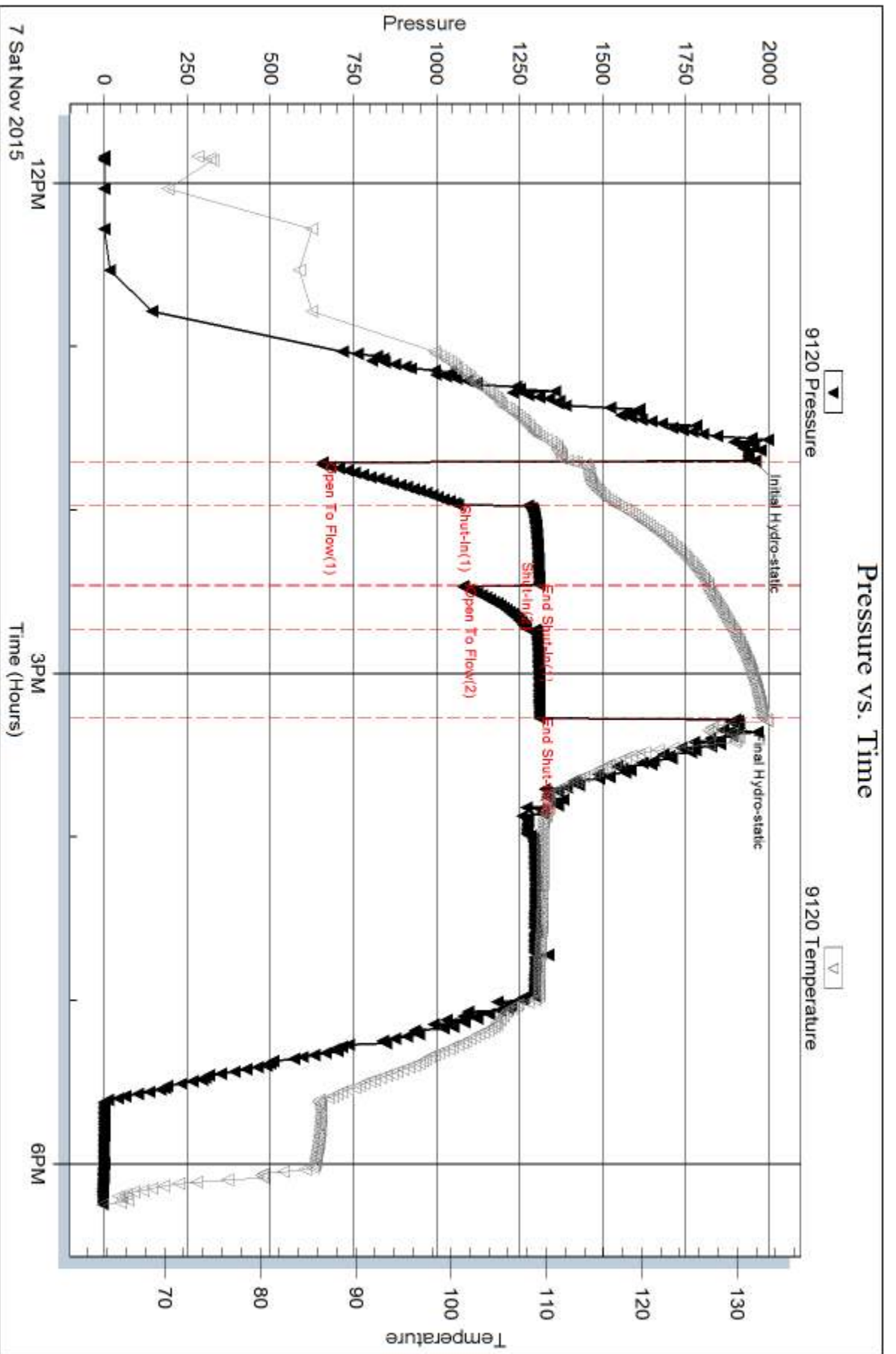
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .348 @ 54\*f = 29,500 chlor



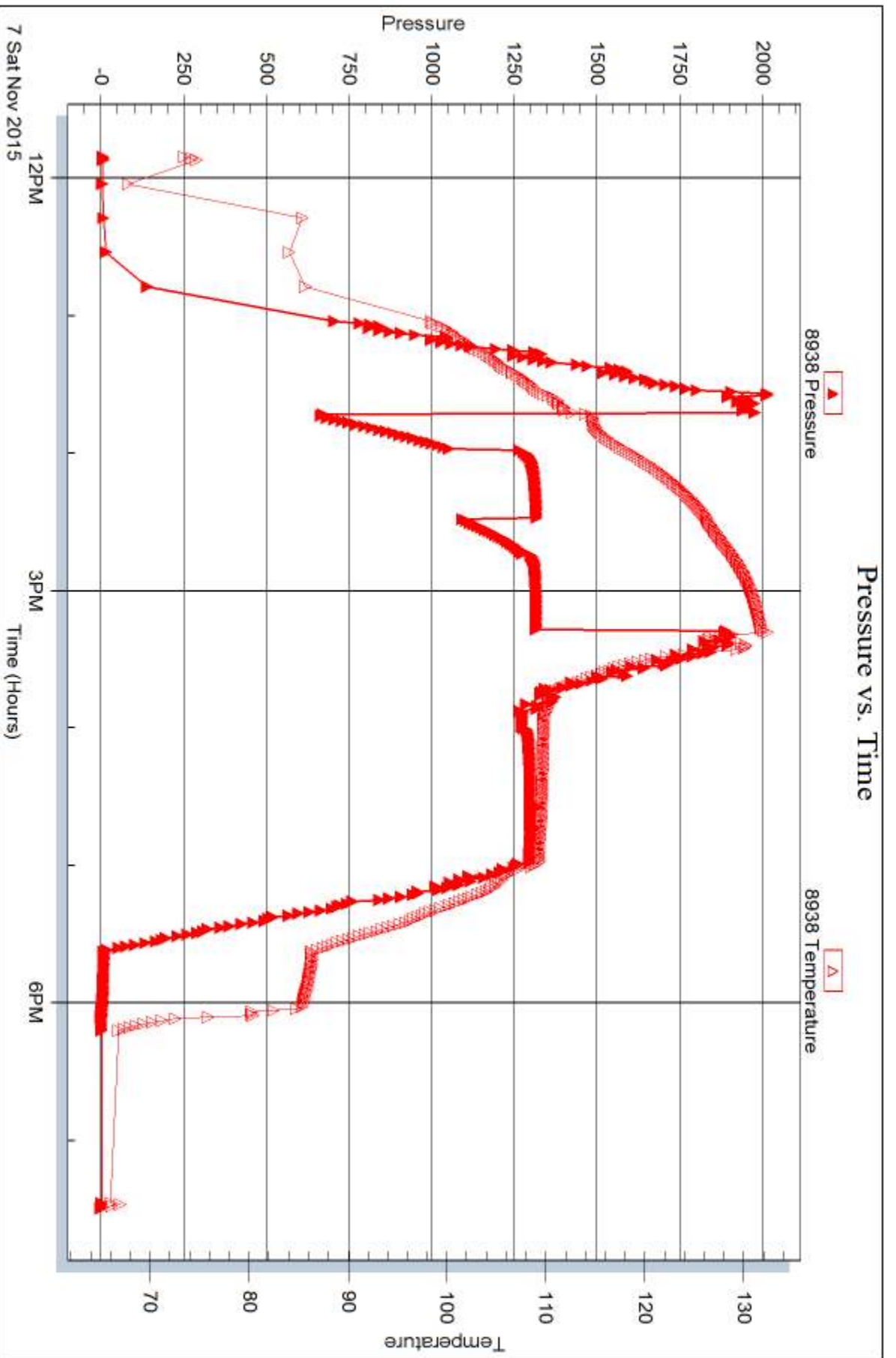
Serial #: 8938

Inside

Carmen Schmitt Inc

Ziegelmeier #1-2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45521

Printed: 2015.11.12 @ 08:18:59



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67503-0047

ATTN: Brad Rine

### **Ziegelmeier #1-2**

### **2-7s-32w Thomas,KS**

Start Date: 2015.11.08 @ 01:01:06

End Date: 2015.11.08 @ 06:32:06

Job Ticket #: 45524                      DST #: 3

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

Printed: 2015.11.12 @ 08:18:34



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 PO Box 47  
 Great Bend, KS 67503-0047  
 ATTN: Brad Rine

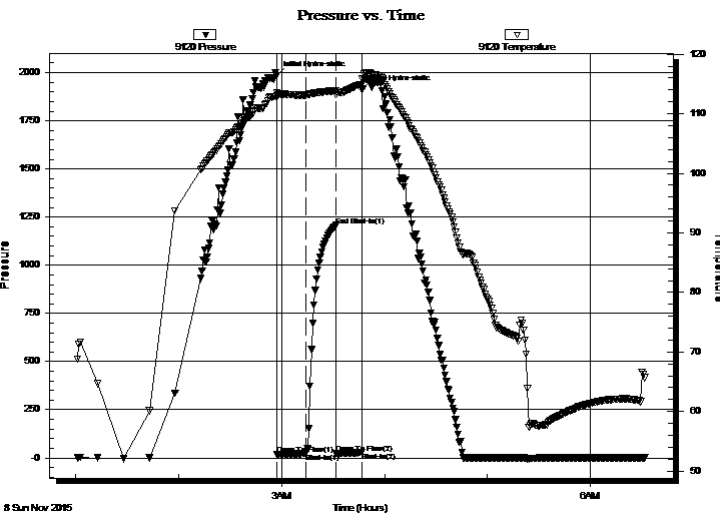
**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 45524 **DST#: 3**  
 Test Start: 2015.11.08 @ 01:01:06

## GENERAL INFORMATION:

Formation: **LKC E**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:57:21  
 Time Test Ended: 06:32:06  
**Interval: 4047.00 ft (KB) To 4073.00 ft (KB) (TVD)**  
 Total Depth: 4073.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 9120 Outside**  
 Press@RunDepth: 22.08 psig @ 4048.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.08 End Date: 2015.11.08 Last Calib.: 2015.11.08  
 Start Time: 01:01:06 End Time: 06:32:06 Time On Btm: 2015.11.08 @ 02:57:06  
 Time Off Btm: 2015.11.08 @ 03:47:06

**TEST COMMENT:** Weak surface blow died in 7 min  
 No return  
 No blow pull tool after 15 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.25	113.55	Initial Hydro-static
1	16.77	112.96	Open To Flow (1)
17	22.08	113.14	Shut-In(1)
35	1206.67	113.89	End Shut-In(1)
35	22.96	113.17	Open To Flow (2)
50	27.90	114.97	Shut-In(2)
50	1911.79	115.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	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

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 45524

**DST#: 3**

ATTN: Brad Rine

Test Start: 2015.11.08 @ 01:01:06

## Tool Information

Drill Pipe:	Length: 3920.00 ft	Diameter: 3.80 inches	Volume: 54.99 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 55.58 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4047.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	54.00 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			4020.00	
Shut In Tool	5.00			4025.00	
Hydraulic tool	5.00			4030.00	
Jars	5.00			4035.00	
Safety Joint	3.00			4038.00	
Packer	5.00			4043.00	28.00 Bottom Of Top Packer
Packer	4.00			4047.00	
Stubb	1.00			4048.00	
Recorder	0.00	9120	Outside	4048.00	
Recorder	0.00	8938	Inside	4048.00	
Perforations	20.00			4068.00	
Bullnose	5.00			4073.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 45524

**DST#: 3**

ATTN: Brad Rine

Test Start: 2015.11.08 @ 01:01:06

## 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

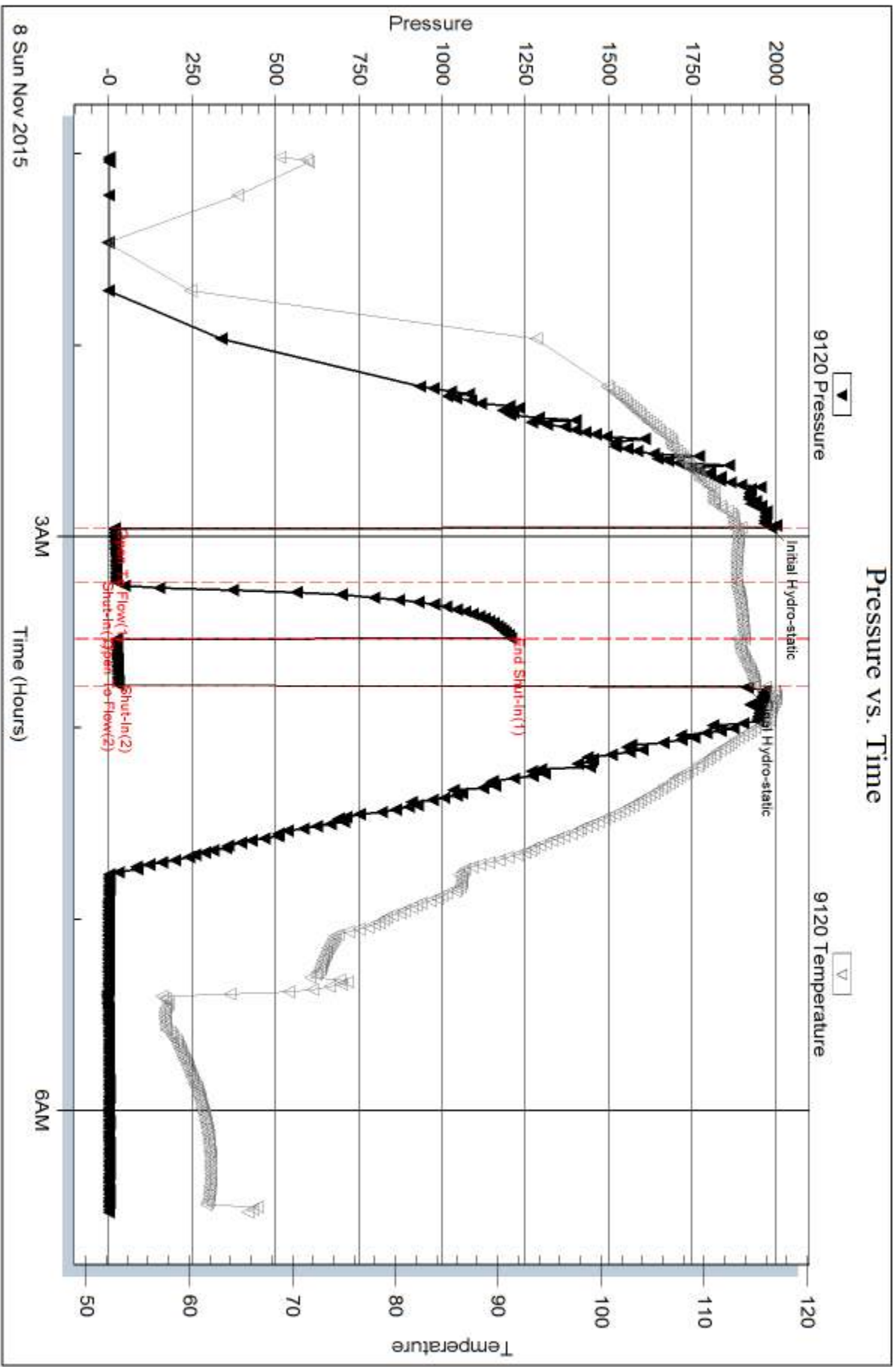
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67503-0047

ATTN: Brad Rine

### **Ziegelmeier #1-2**

#### **2-7s-32w Thomas,KS**

Start Date: 2015.11.08 @ 15:02:01

End Date: 2015.11.08 @ 19:50:01

Job Ticket #: 45524                      DST #: 4

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

Printed: 2015.11.12 @ 08:18:11

Carmen Schmitt Inc  
2-7s-32w Thomas,KS  
Ziegelmeier #1-2  
DST # 4  
LKC G - 1  
2015.11.08



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 PO Box 47  
 Great Bend, KS 67503-0047  
 ATTN: Brad Rine

**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 45524 **DST#: 4**  
 Test Start: 2015.11.08 @ 15:02:01

## GENERAL INFORMATION:

Formation: **LKC G - I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:53:31  
 Time Test Ended: 19:50:01  
 Interval: **4087.00 ft (KB) To 4144.00 ft (KB) (TVD)**  
 Total Depth: 4144.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8938

Inside

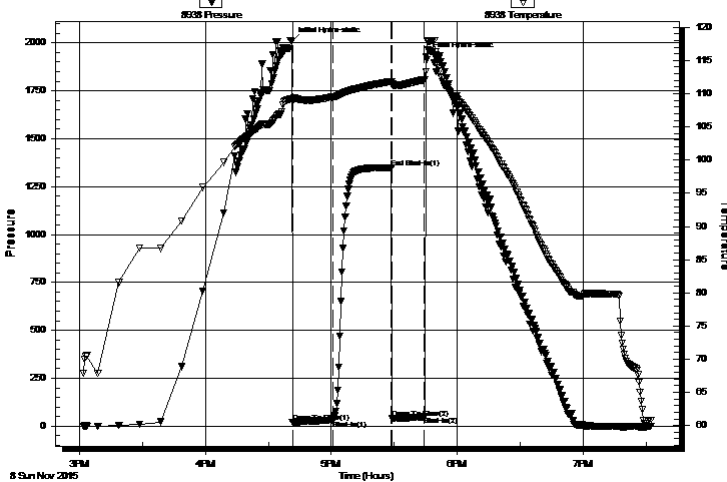
Press@RunDepth: 32.57 psig @ 4088.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.08 End Date: 2015.11.08 Last Calib.: 2015.11.08  
 Start Time: 15:02:01 End Time: 19:32:01 Time On Btm: 2015.11.08 @ 16:41:01  
 Time Off Btm: 2015.11.08 @ 17:45:01

TEST COMMENT: 1/4" died back to surface blow  
 No return  
 surface blow after 3 min , pull tool after 15 min.

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.17	109.26	Initial Hydro-static
1	20.40	108.85	Open To Flow (1)
20	32.57	109.49	Shut-In(1)
48	1350.03	111.85	End Shut-In(1)
48	39.87	111.41	Open To Flow (2)
64	49.57	112.13	Shut-In(2)
64	1928.24	113.35	Final Hydro-static

Pressure vs. Time



## Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w/oil spots 100%m	0.30
0.00	2" free oil on top	0.00

## 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 67503-0047  
ATTN: Brad Rine

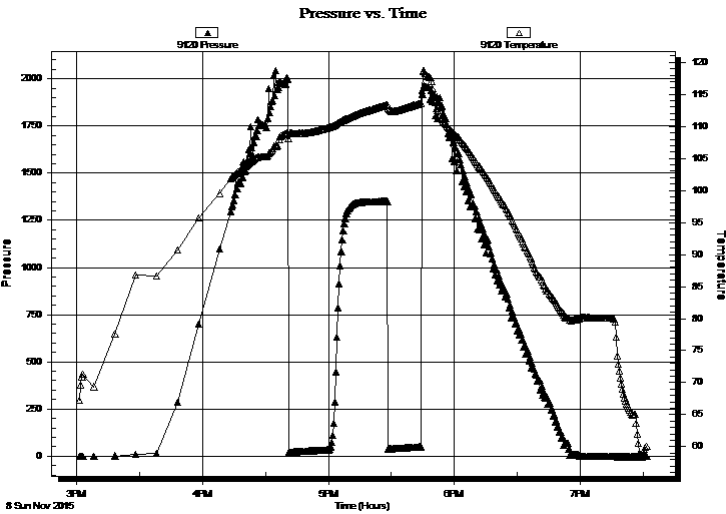
**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
Job Ticket: 45524 **DST#: 4**  
Test Start: 2015.11.08 @ 15:02:01

### GENERAL INFORMATION:

Formation: **LKC G - I**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 16:53:31  
Time Test Ended: 19:50:01  
Interval: **4087.00 ft (KB) To 4144.00 ft (KB) (TVD)**  
Total Depth: 4144.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2999.00 ft (KB)  
2994.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 9120** **Outside**  
Press@RunDepth: psig @ 4088.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.11.08 End Date: 2015.11.08 Last Calib.: 2015.11.08  
Start Time: 15:01:30 End Time: 19:31:30 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 1/4" died back to surface blow  
No return  
surface blow after 3 min , pull tool after 15 min.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w/oil spots 100%m	0.30
0.00	2" free oil on top	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  
 PO Box 47  
 Great Bend, KS 67503-0047  
 ATTN: Brad Rine

**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 45524 **DST#: 4**  
 Test Start: 2015.11.08 @ 15:02:01

**Tool Information**

Drill Pipe:	Length: 3951.00 ft	Diameter: 3.80 inches	Volume: 55.42 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 56.01 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4087.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4060.00	
Shut In Tool	5.00			4065.00	
Hydraulic tool	5.00			4070.00	
Jars	5.00			4075.00	
Safety Joint	3.00			4078.00	
Packer	5.00			4083.00	28.00 Bottom Of Top Packer
Packer	4.00			4087.00	
Stubb	1.00			4088.00	
Recorder	0.00	9120	Outside	4088.00	
Recorder	0.00	8938	Inside	4088.00	
Perforations	17.00			4105.00	
Change Over Sub	1.00			4106.00	
Drill Pipe	32.00			4138.00	
Change Over Sub	1.00			4139.00	
Bullnose	5.00			4144.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 85.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt Inc

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 45524

**DST#: 4**

ATTN: Brad Rine

Test Start: 2015.11.08 @ 15:02:01

### 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud w/oil spots 100%m	0.295
0.00	2" free oil on top	0.000

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

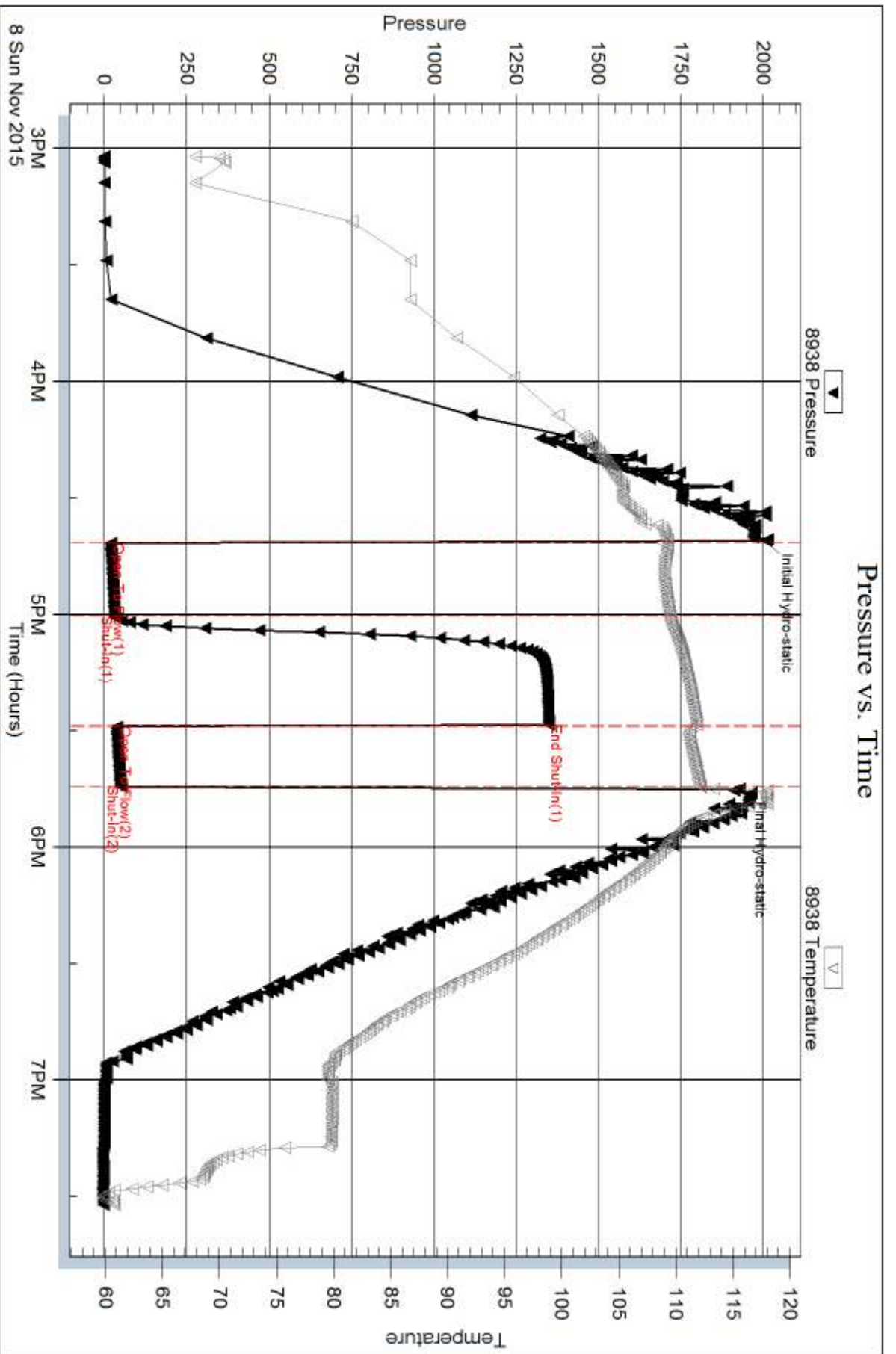
Num Gas Bombs: 0

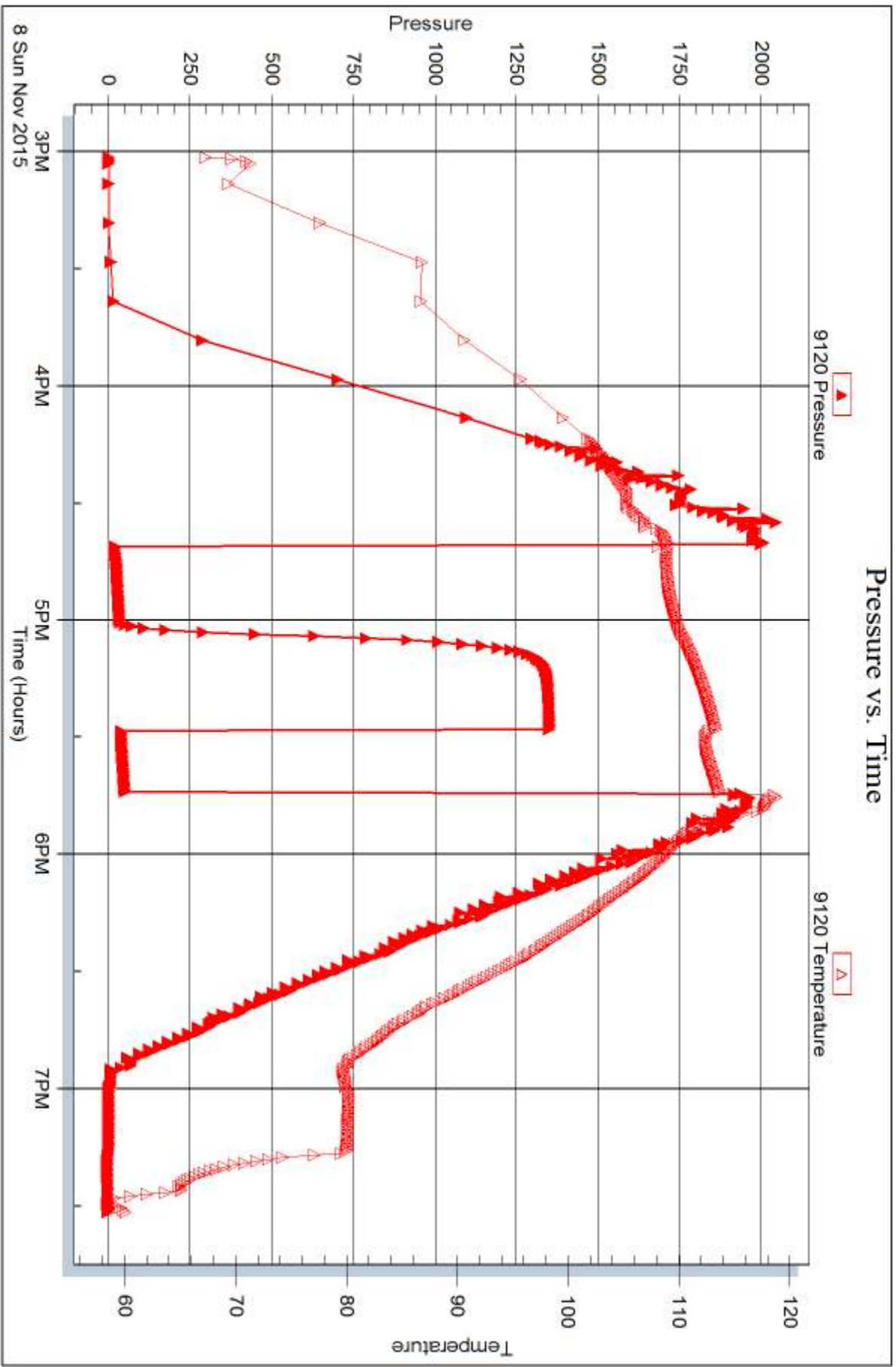
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67503-0047

ATTN: Brad Rine

### **Ziegelmeier #1-2**

#### **2-7s-32w Thomas,KS**

Start Date: 2015.11.09 @ 02:11:01

End Date: 2015.11.09 @ 10:31:01

Job Ticket #: 45525                      DST #: 5

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

Printed: 2015.11.12 @ 08:17:47





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 PO Box 47  
 Great Bend, KS 67503-0047  
 ATTN: Brad Rine

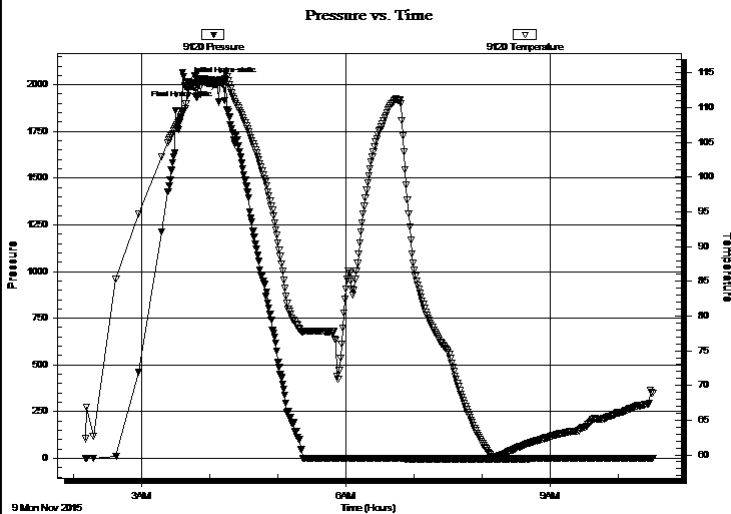
**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 45525 **DST#: 5**  
 Test Start: 2015.11.09 @ 02:11:01

## GENERAL INFORMATION:

Formation: **LKC J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:45:00  
 Time Test Ended: 10:31:01  
 Interval: **4137.00 ft (KB) To 4167.00 ft (KB) (TVD)**  
 Total Depth: 4167.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 9120 Outside**  
 Press@RunDepth: psig @ 4138.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.09 End Date: 2015.11.09 Last Calib.: 2015.11.09  
 Start Time: 02:11:01 End Time: 10:31:01 Time On Btm: 2015.11.09 @ 03:40:31  
 Time Off Btm: 2015.11.09 @ 04:08:46

TEST COMMENT: Packer Failuer @ open , reset failed again pull tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2017.09	111.71	Initial Hydro-static
29	2012.50	113.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
390.00	mud 100%m	4.38

\* 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 67503-0047  
 ATTN: Brad Rine

**2-7s-32w Thomas,KS**

**Ziegelmeier #1-2**

Job Ticket: 45525

**DST#: 5**

Test Start: 2015.11.09 @ 02:11:01

### GENERAL INFORMATION:

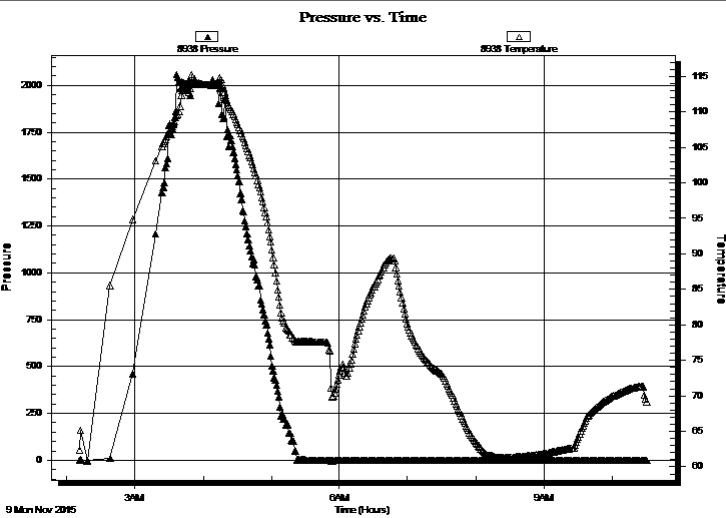
Formation: **LKC J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:45:00  
 Time Test Ended: 10:31:01  
**Interval: 4137.00 ft (KB) To 4167.00 ft (KB) (TVD)**  
 Total Depth: 4167.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8938**

**Inside**

Press@RunDepth: psig @ 4138.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.09 End Date: 2015.11.09 Last Calib.: 2015.11.09  
 Start Time: 02:11:09 End Time: 10:30:54 Time On Btm:  
 Time Off Btm:

TEST COMMENT: Packer Failuer @ open , reset failed again pull tool



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
390.00	mud 100%m	4.38

### 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

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 45525

**DST#: 5**

ATTN: Brad Rine

Test Start: 2015.11.09 @ 02:11:01

## Tool Information

Drill Pipe:	Length: 4014.00 ft	Diameter: 3.80 inches	Volume: 56.31 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4137.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			4110.00	
Shut In Tool	5.00			4115.00	
Hydraulic tool	5.00			4120.00	
Jars	5.00			4125.00	
Safety Joint	3.00			4128.00	
Packer	5.00			4133.00	28.00 Bottom Of Top Packer
Packer	4.00			4137.00	
Stubb	1.00			4138.00	
Recorder	0.00	9120	Outside	4138.00	
Recorder	0.00	8938	Inside	4138.00	
Perforations	24.00			4162.00	
Bullnose	5.00			4167.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 45525

**DST#: 5**

ATTN: Brad Rine

Test Start: 2015.11.09 @ 02:11:01

## 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
390.00	mud 100%m	4.378

Total Length: 390.00 ft      Total Volume: 4.378 bbl

Num Fluid Samples: 0

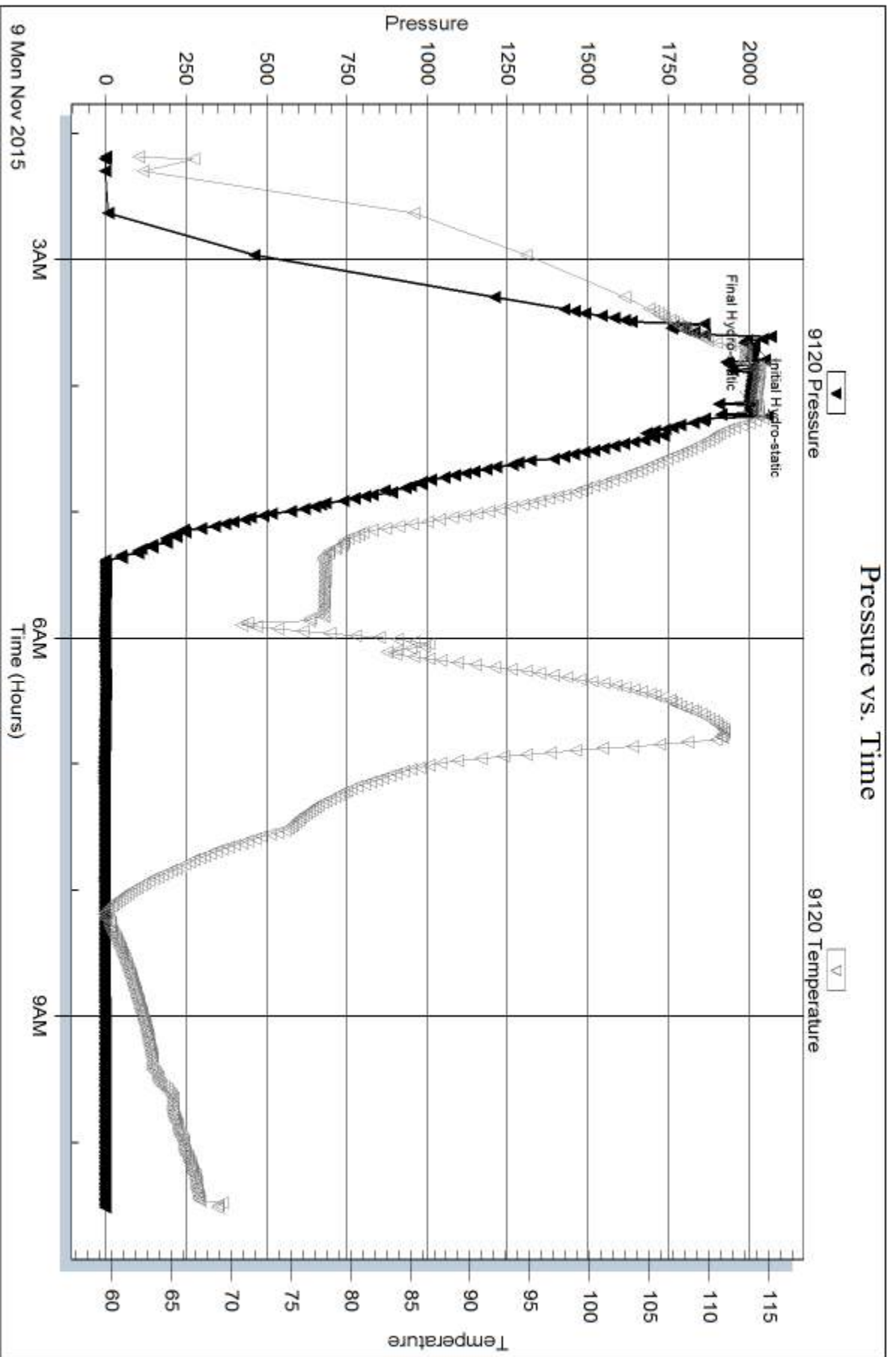
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



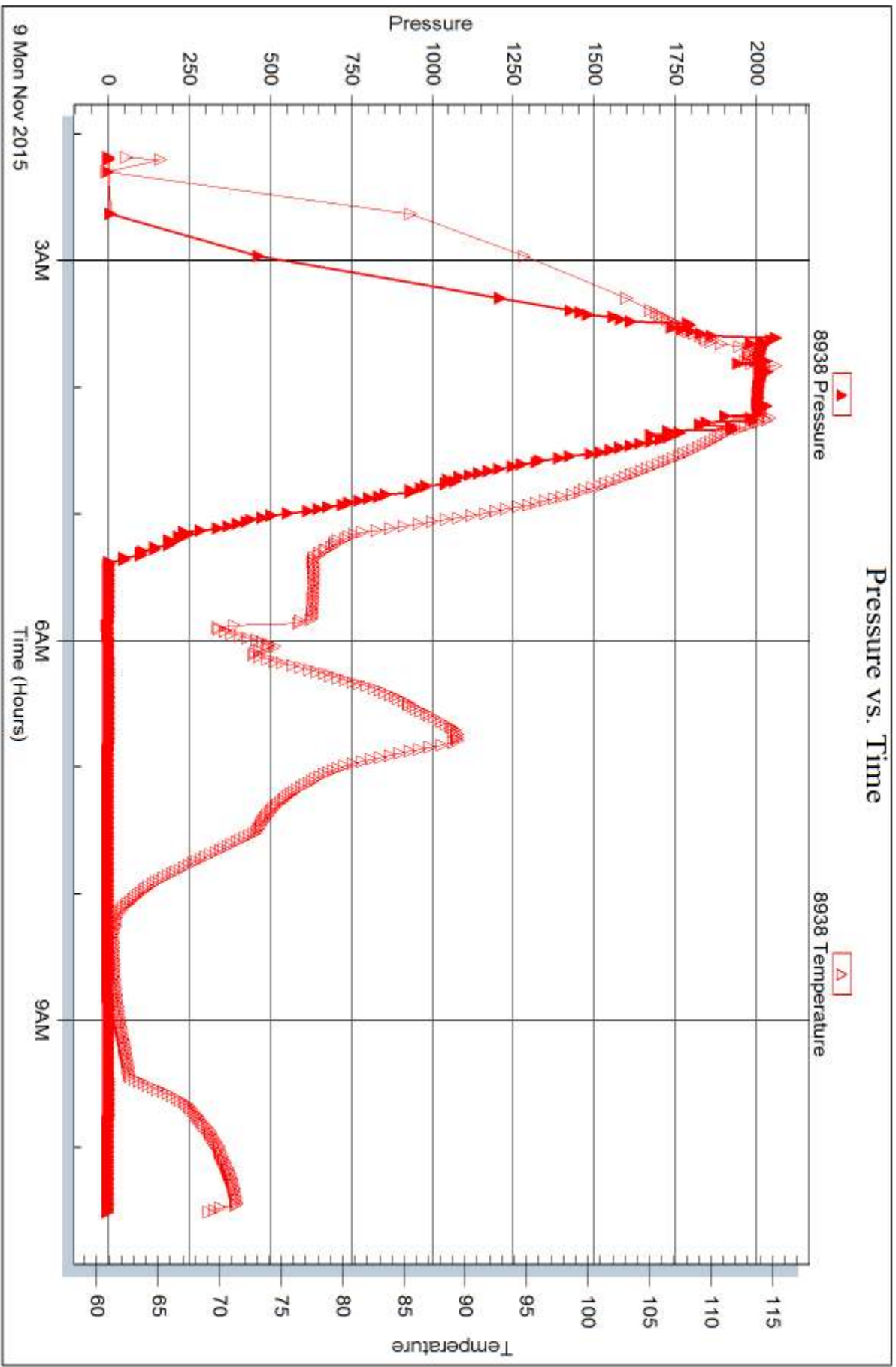
Serial #: 8938

Inside

Carmen Schmitt Inc

Ziegelreier #1-2

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 45525

Printed: 2015.11.12 @ 08:17:49



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67503-0047

ATTN: Brad Rine

### **Ziegelmeier #1-2**

#### **2-7s-32w Thomas,KS**

Start Date: 2015.11.09 @ 10:48:00

End Date: 2015.11.09 @ 17:10:15

Job Ticket #: 48262                      DST #: 6

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

Printed: 2015.11.12 @ 08:17:20



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 PO Box 47  
 Great Bend, KS 67503-0047  
 ATTN: Brad Rine

**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 48262 **DST#: 6**  
 Test Start: 2015.11.09 @ 10:48:00

## GENERAL INFORMATION:

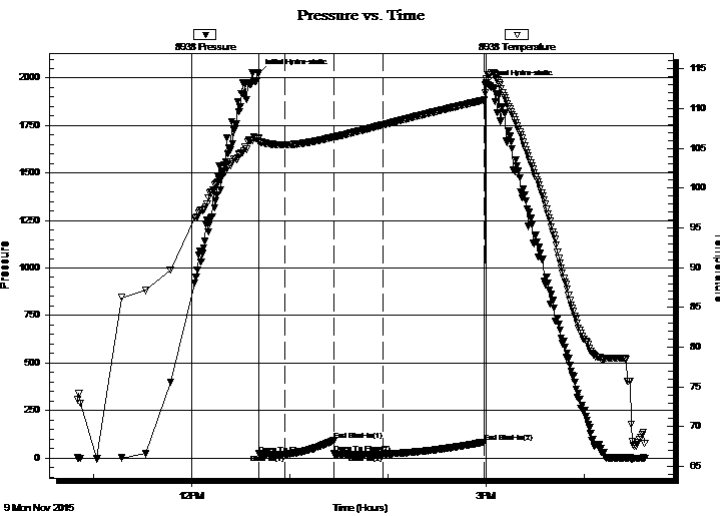
Formation: **LKC I-J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:05:00  
 Time Test Ended: 17:10:15  
 Interval: **4115.00 ft (KB) To 4167.00 ft (KB) (TVD)**  
 Total Depth: 4167.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8938

Inside

Press@RunDepth: 20.24 psig @ 4116.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.09 End Date: 2015.11.09 Last Calib.: 2015.11.09  
 Start Time: 10:50:00 End Time: 16:37:15 Time On Btm: 2015.11.09 @ 12:40:45  
 Time Off Btm: 2015.11.09 @ 14:59:30

TEST COMMENT: 1/4" blow  
 No return  
 Surface blow in 5 min.  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2024.06	106.27	Initial Hydro-static
1	21.63	105.79	Open To Flow (1)
16	20.29	105.43	Shut-In(1)
46	90.87	106.40	End Shut-In(1)
46	21.75	106.38	Open To Flow (2)
77	20.24	107.95	Shut-In(2)
139	84.09	111.07	End Shut-In(2)
139	1963.03	111.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.01

\* Recovery from multiple tests

## Gas Rates

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





TRILLOBITE TESTING, INC

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 PO Box 47  
 Great Bend, KS 67503-0047  
 ATTN: Brad Rine

**2-7s-32w Thomas,KS**

**Ziegelmeier #1-2**

Job Ticket: 48262

**DST#: 6**

Test Start: 2015.11.09 @ 10:48:00

## GENERAL INFORMATION:

Formation: **LKC I-J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 13:05:00  
 Tester: Shane McBride  
 Time Test Ended: 17:10:15  
 Unit No: 84  
 Interval: **4115.00 ft (KB) To 4167.00 ft (KB) (TVD)**  
 Reference Elevations: 2999.00 ft (KB)  
 Total Depth: 4167.00 ft (KB) (TVD)  
 2994.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

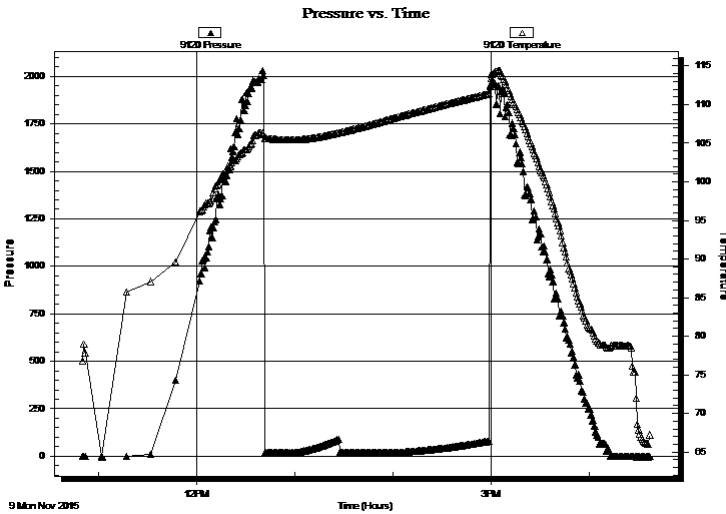
**Serial #: 9120**

**Outside**

Press@RunDepth: psig @ 4116.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.09 End Date: 2015.11.09 Last Calib.: 2015.11.09  
 Start Time: 10:50:14 End Time: 16:37:44 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 1/4" blow  
 No return  
 Surface blow in 5 min.  
 No return

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.01

\* 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

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 48262

**DST#: 6**

ATTN: Brad Rine

Test Start: 2015.11.09 @ 10:48:00

## Tool Information

Drill Pipe:	Length: 3982.00 ft	Diameter: 3.80 inches	Volume: 55.86 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4115.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 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			4088.00	
Shut In Tool	5.00			4093.00	
Hydraulic tool	5.00			4098.00	
Jars	5.00			4103.00	
Safety Joint	3.00			4106.00	
Packer	5.00			4111.00	28.00 Bottom Of Top Packer
Packer	4.00			4115.00	
Stubb	1.00			4116.00	
Recorder	0.00	9120	Outside	4116.00	
Recorder	0.00	8938	Inside	4116.00	
Perforations	12.00			4128.00	
Change Over Sub	1.00			4129.00	
Drill Pipe	32.00			4161.00	
Change Over Sub	1.00			4162.00	
Bullnose	5.00			4167.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 80.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt Inc

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 48262

**DST#: 6**

ATTN: Brad Rine

Test Start: 2015.11.09 @ 10:48:00

### 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 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
3.00	mud 100%m	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

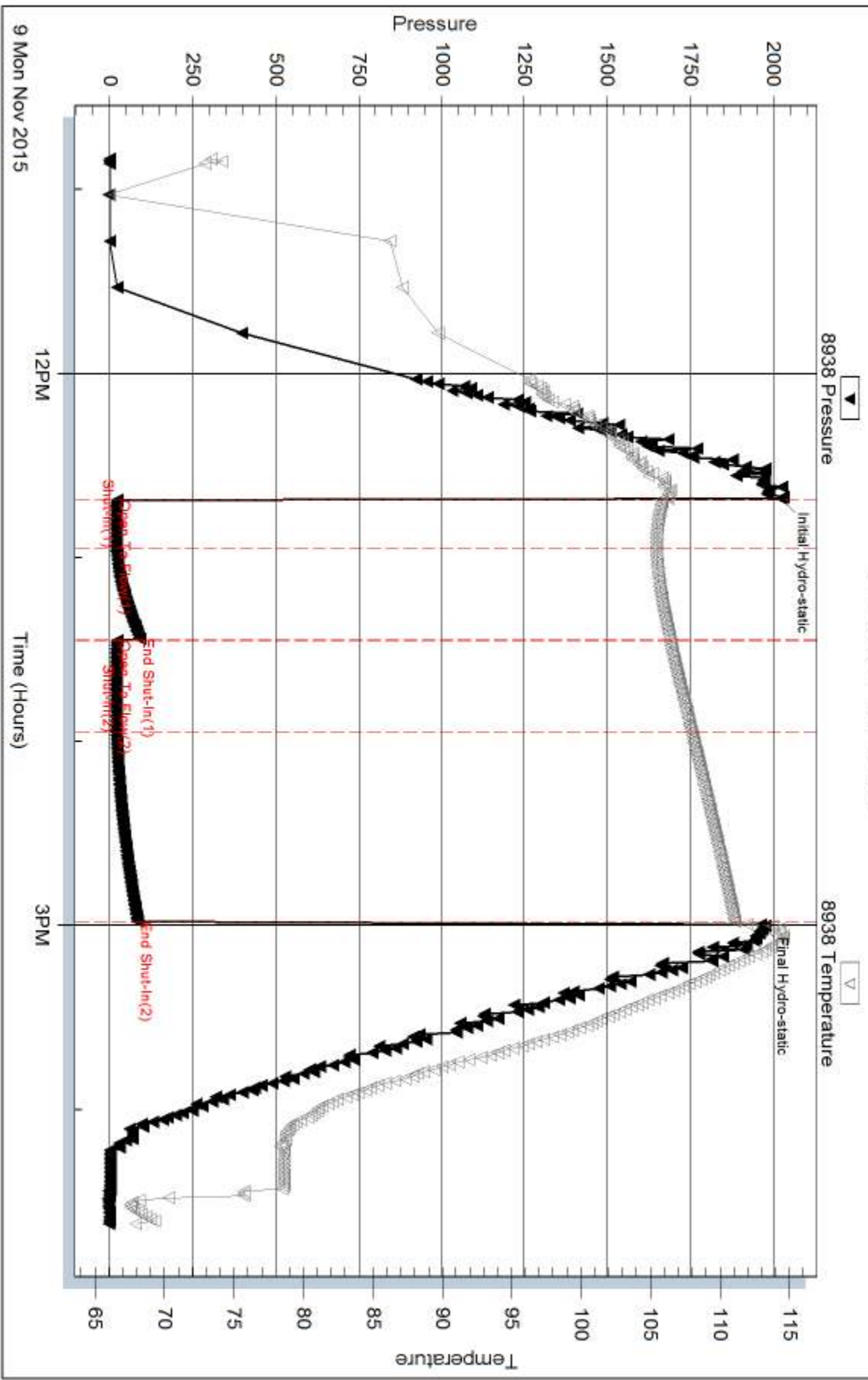
Serial #:

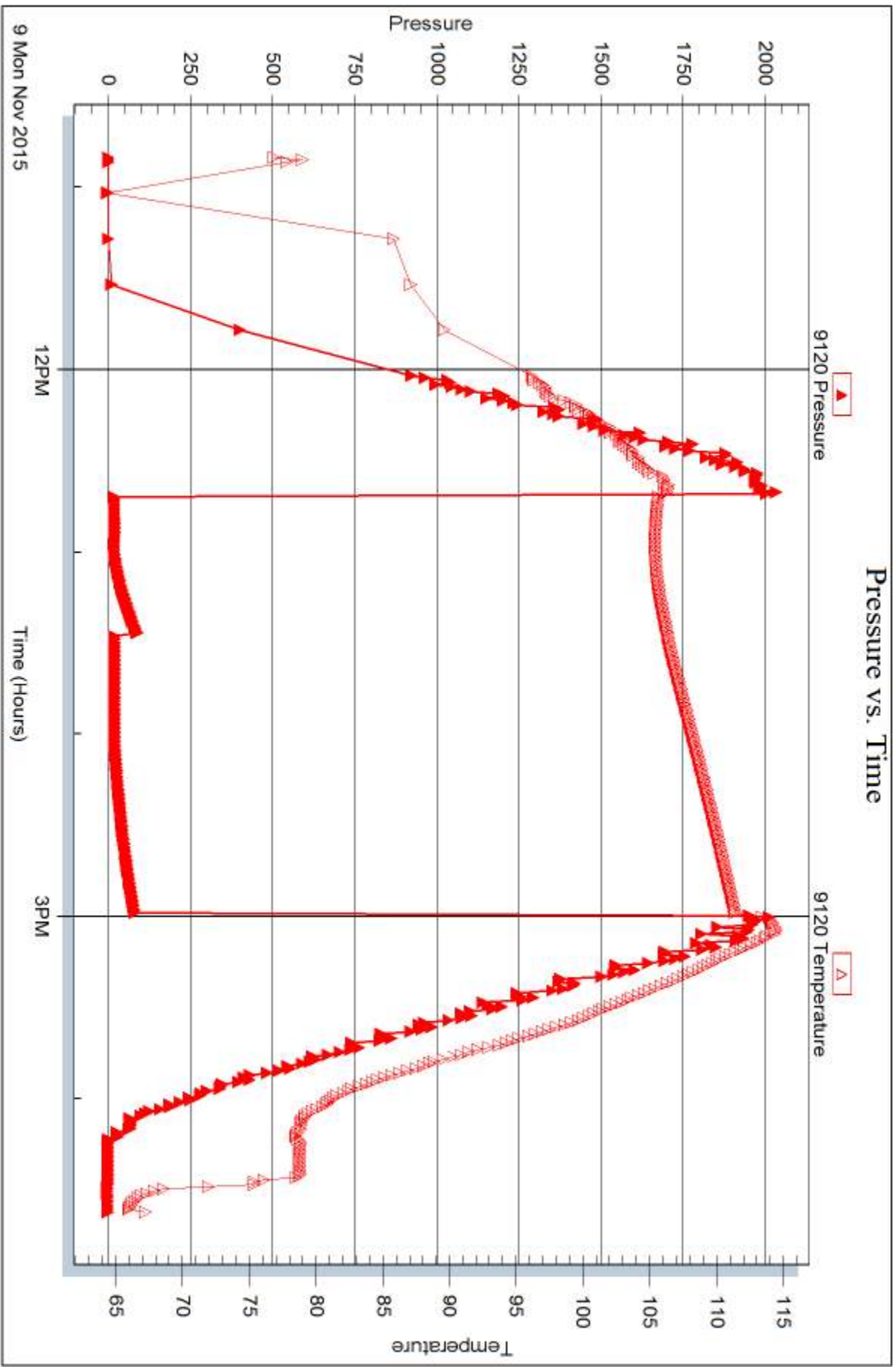
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67503-0047

ATTN: Brad Rine

### **Ziegelmeier #1-2**

### **2-7s-32w Thomas,KS**

Start Date: 2015.11.10 @ 15:05:19

End Date: 2015.11.10 @ 18:40:19

Job Ticket #: 48263                      DST #: 7

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

Printed: 2015.11.12 @ 08:15:45



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 PO Box 47  
 Great Bend, KS 67503-0047  
 ATTN: Brad Rine

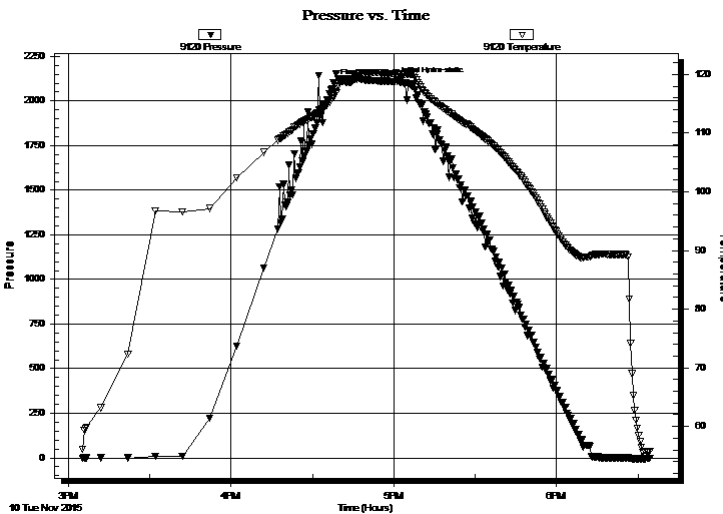
**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 48263 **DST#: 7**  
 Test Start: 2015.11.10 @ 15:05:19

## GENERAL INFORMATION:

Formation: **Pawnee - Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:48:00  
 Time Test Ended: 18:40:19  
 Interval: **4310.00 ft (KB) To 4430.00 ft (KB) (TVD)**  
 Total Depth: 4430.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 9120 Outside**  
 Press@RunDepth: psig @ 4311.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.10 End Date: 2015.11.10 Last Calib.: 2015.11.10  
 Start Time: 15:05:19 End Time: 18:34:19 Time On Btm: 2015.11.10 @ 17:00:19  
 Time Off Btm: 2015.11.10 @ 17:05:19

TEST COMMENT: Packers failed @ open , reset failed again pull tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.53	120.15	Initial Hydro-static
5	2097.87	120.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	mud 100%m	1.01

\* 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 67503-0047  
 ATTN: Brad Rine

**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 48263 **DST#: 7**  
 Test Start: 2015.11.10 @ 15:05:19

## GENERAL INFORMATION:

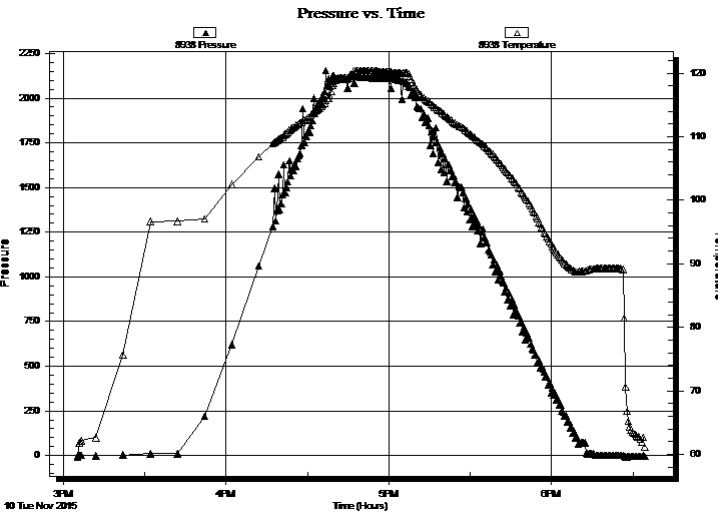
Formation: **Pawnee - Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:48:00  
 Time Test Ended: 18:40:19  
**Interval: 4310.00 ft (KB) To 4430.00 ft (KB) (TVD)**  
 Total Depth: 4430.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8938

Inside

Press@RunDepth: psig @ 4311.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.10 End Date: 2015.11.10 Last Calib.: 2015.11.10  
 Start Time: 15:05:18 End Time: 18:34:18 Time On Btm:  
 Time Off Btm:

TEST COMMENT: Packers failed @ open , reset failed again pull tool



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	mud 100%m	1.01

## 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

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 48263

**DST#: 7**

ATTN: Brad Rine

Test Start: 2015.11.10 @ 15:05:19

## 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 59.08 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4310.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	120.00 ft				
Tool Length:	148.00 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			4283.00	
Shut In Tool	5.00			4288.00	
Hydraulic tool	5.00			4293.00	
Jars	5.00			4298.00	
Safety Joint	3.00			4301.00	
Packer	5.00			4306.00	28.00 Bottom Of Top Packer
Packer	4.00			4310.00	
Stubb	1.00			4311.00	
Recorder	0.00	9120	Outside	4311.00	
Recorder	0.00	8938	Inside	4311.00	
Perforations	17.00			4328.00	
Change Over Sub	1.00			4329.00	
Drill Pipe	95.00			4424.00	
Change Over Sub	1.00			4425.00	
Bullnose	5.00			4430.00	120.00 Bottom Packers & Anchor

**Total Tool Length: 148.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 48263

**DST#: 7**

ATTN: Brad Rine

Test Start: 2015.11.10 @ 15:05:19

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	mud 100%m	1.011

Total Length: 150.00 ft      Total Volume: 1.011 bbl

Num Fluid Samples: 0

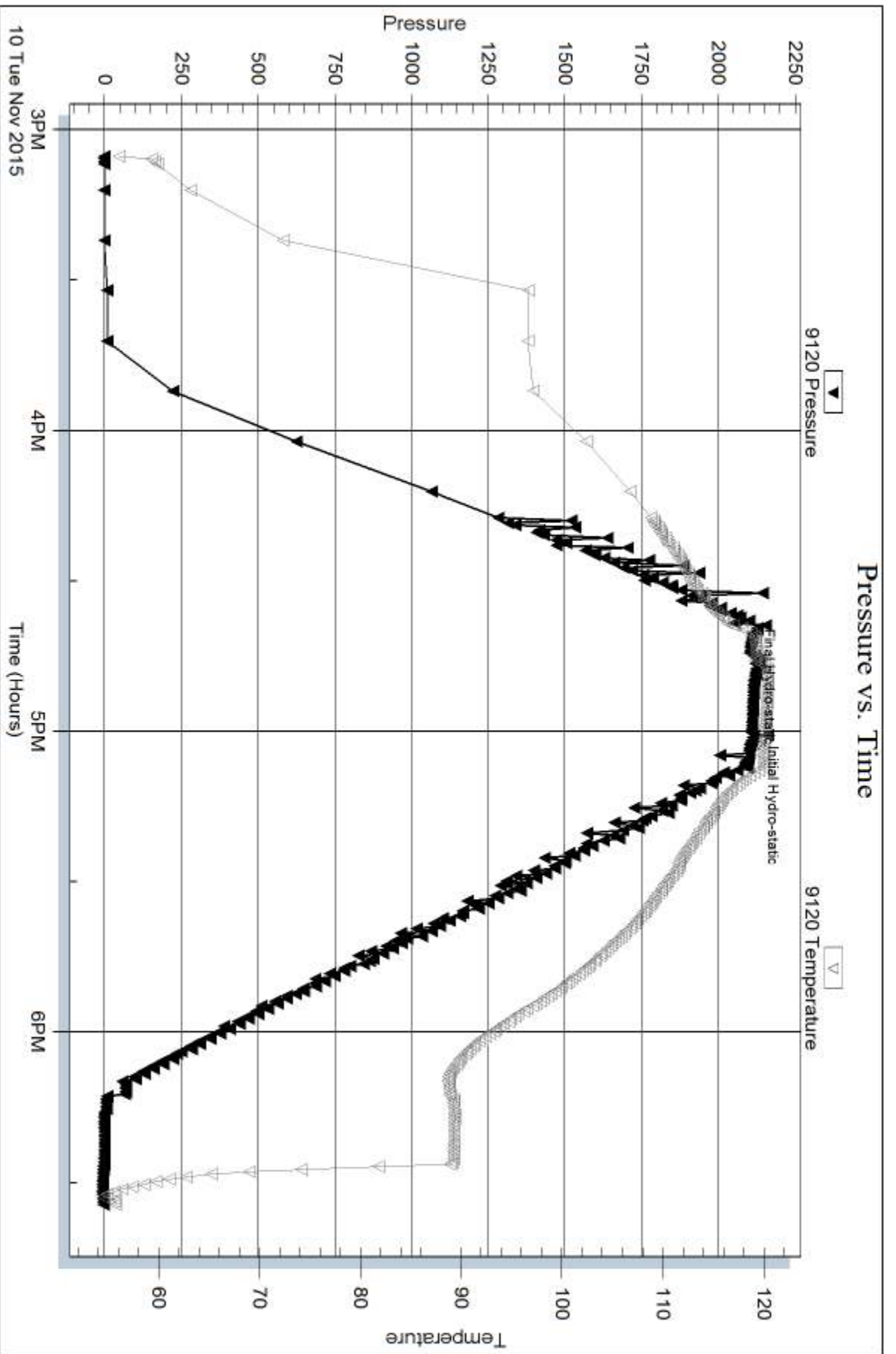
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



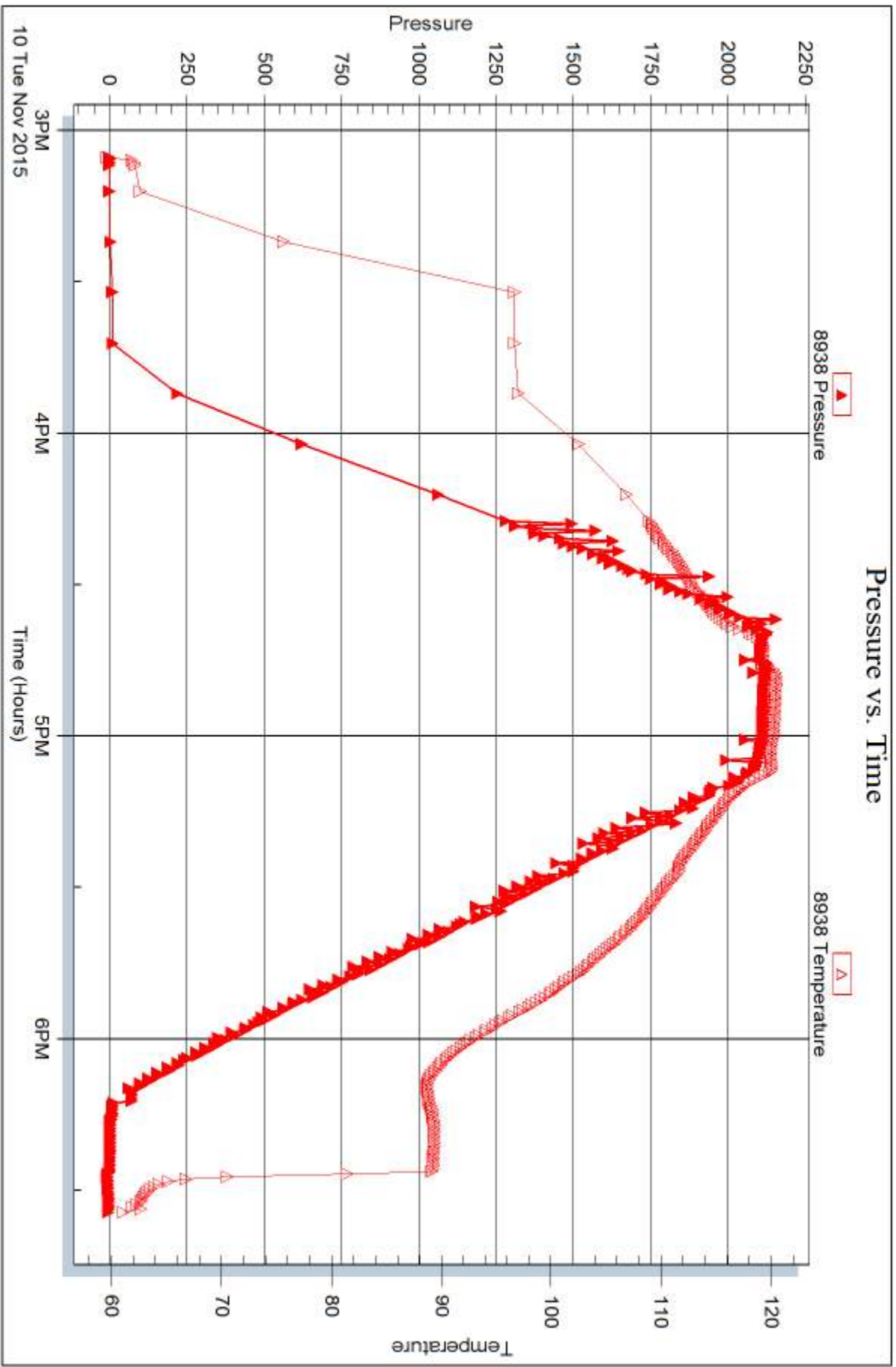
Serial #: 8938

Inside

Carmen Schmitt Inc

Ziegelmeier #1-2

DST Test Number: 7



Triobite Testing, Inc

Ref. No: 48263

Printed: 2015.11.12 @ 08:15:46



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67503-0047

ATTN: Brad Rine

### **Ziegelmeier #1-2**

### **2-7s-32w Thomas,KS**

Start Date: 2015.11.10 @ 18:50:41

End Date: 2015.11.11 @ 01:45:56

Job Ticket #: 48264                      DST #: 8

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

Printed: 2015.11.12 @ 08:14:44



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67503-0047  
ATTN: Brad Rine

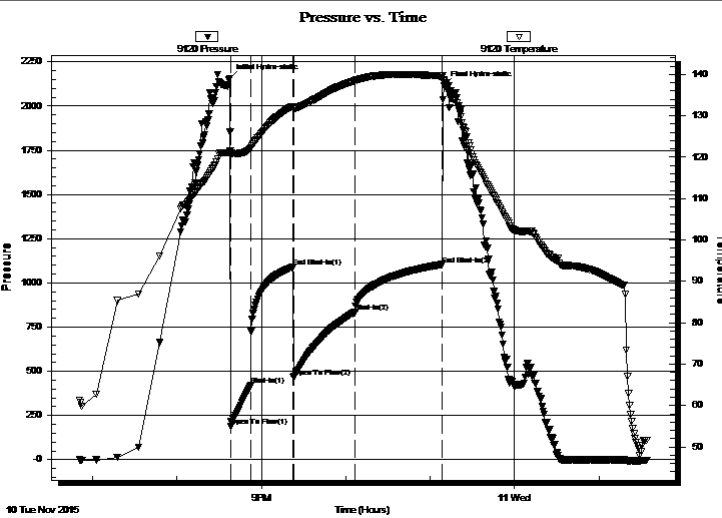
**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
Job Ticket: 48264 **DST#: 8**  
Test Start: 2015.11.10 @ 18:50:41

## GENERAL INFORMATION:

Formation: **Pawnee - Ft Scott**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:37:56  
Time Test Ended: 01:45:56  
Interval: **4320.00 ft (KB) To 4430.00 ft (KB) (TVD)**  
Total Depth: 4430.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Shane McBride  
Unit No: 84  
Reference Elevations: 2999.00 ft (KB)  
2994.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 9120 Outside**  
Press@RunDepth: 835.11 psig @ 4321.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.11.10 End Date: 2015.11.11 Last Calib.: 2015.11.11  
Start Time: 18:50:41 End Time: 01:33:56 Time On Btm: 2015.11.10 @ 20:37:26  
Time Off Btm: 2015.11.10 @ 23:09:41

TEST COMMENT: B.O.B. in 2 1/2 min  
No return  
B.O.B. in 3 1/2 min  
No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.04	121.30	Initial Hydro-static
1	186.85	120.72	Open To Flow (1)
15	420.07	122.10	Shut-In(1)
45	1088.47	132.30	End Shut-In(1)
46	465.03	131.94	Open To Flow (2)
90	835.11	138.47	Shut-In(2)
151	1104.52	139.58	End Shut-In(2)
153	2117.08	138.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1298.00	water w/oil scum 100%w	17.11
310.00	s m c w w/heavy oil scum 15m 85w	4.35
164.00	m c w w/heavy oil scum 50m 50w	2.30
0.00	2" in free oil on top	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 67503-0047  
 ATTN: Brad Rine

**2-7s-32w Thomas,KS**  
**Ziegelmeier #1-2**  
 Job Ticket: 48264 **DST#: 8**  
 Test Start: 2015.11.10 @ 18:50:41

## GENERAL INFORMATION:

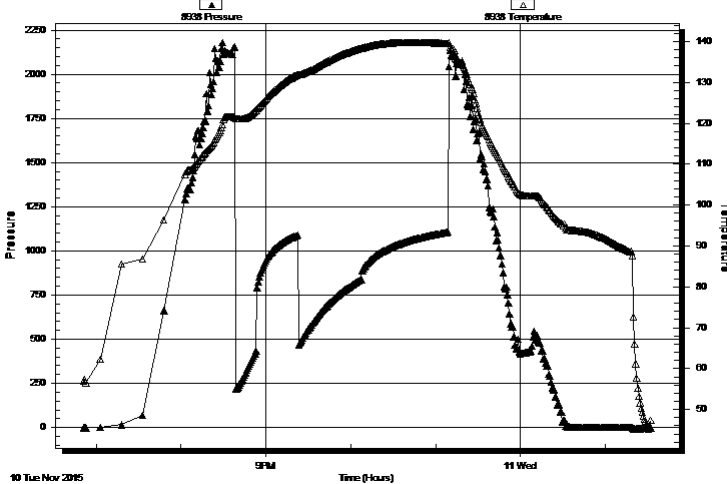
Formation: **Pawnee - Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:37:56  
 Time Test Ended: 01:45:56  
 Interval: **4320.00 ft (KB) To 4430.00 ft (KB) (TVD)**  
 Total Depth: 4430.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 84  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8938 Inside

Press@RunDepth: psig @ 4321.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.10 End Date: 2015.11.11 Last Calib.: 2015.11.11  
 Start Time: 18:51:04 End Time: 01:32:19 Time On Btm:  
 Time Off Btm:

TEST COMMENT: B.O.B. in 2 1/2 min  
 No return  
 B.O.B. in 3 1/2 min  
 No return

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
1298.00	water w/oil scum 100%w	17.11
310.00	s m c w w/heavy oil scum 15m 85w	4.35
164.00	m c w w/heavy oil scum 50m 50w	2.30
0.00	2" in free oil on top	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

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 48264

**DST#: 8**

ATTN: Brad Rine

Test Start: 2015.11.10 @ 18:50:41

## Tool Information

Drill Pipe:	Length: 4200.00 ft	Diameter: 3.80 inches	Volume: 58.91 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 59.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4320.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	110.00 ft				
Tool Length:	138.00 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			4293.00	
Shut In Tool	5.00			4298.00	
Hydraulic tool	5.00			4303.00	
Jars	5.00			4308.00	
Safety Joint	3.00			4311.00	
Packer	5.00			4316.00	28.00 Bottom Of Top Packer
Packer	4.00			4320.00	
Stubb	1.00			4321.00	
Recorder	0.00	9120	Outside	4321.00	
Recorder	0.00	8938	Inside	4321.00	
Perforations	7.00			4328.00	
Change Over Sub	1.00			4329.00	
Drill Pipe	95.00			4424.00	
Change Over Sub	1.00			4425.00	
Bullnose	5.00			4430.00	110.00 Bottom Packers & Anchor

**Total Tool Length: 138.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc

**2-7s-32w Thomas,KS**

PO Box 47  
Great Bend, KS 67503-0047

**Ziegelmeier #1-2**

Job Ticket: 48264

**DST#: 8**

ATTN: Brad Rine

Test Start: 2015.11.10 @ 18:50:41

## 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:

30000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1298.00	water w /oil scum 100%w	17.114
310.00	s m c w w /heavy oil scum 15m 85w	4.348
164.00	m c w w /heavy oil scum 50m 50w	2.300
0.00	2" in free oil on top	0.000

Total Length: 1772.00 ft

Total Volume: 23.762 bbl

Num Fluid Samples: 0

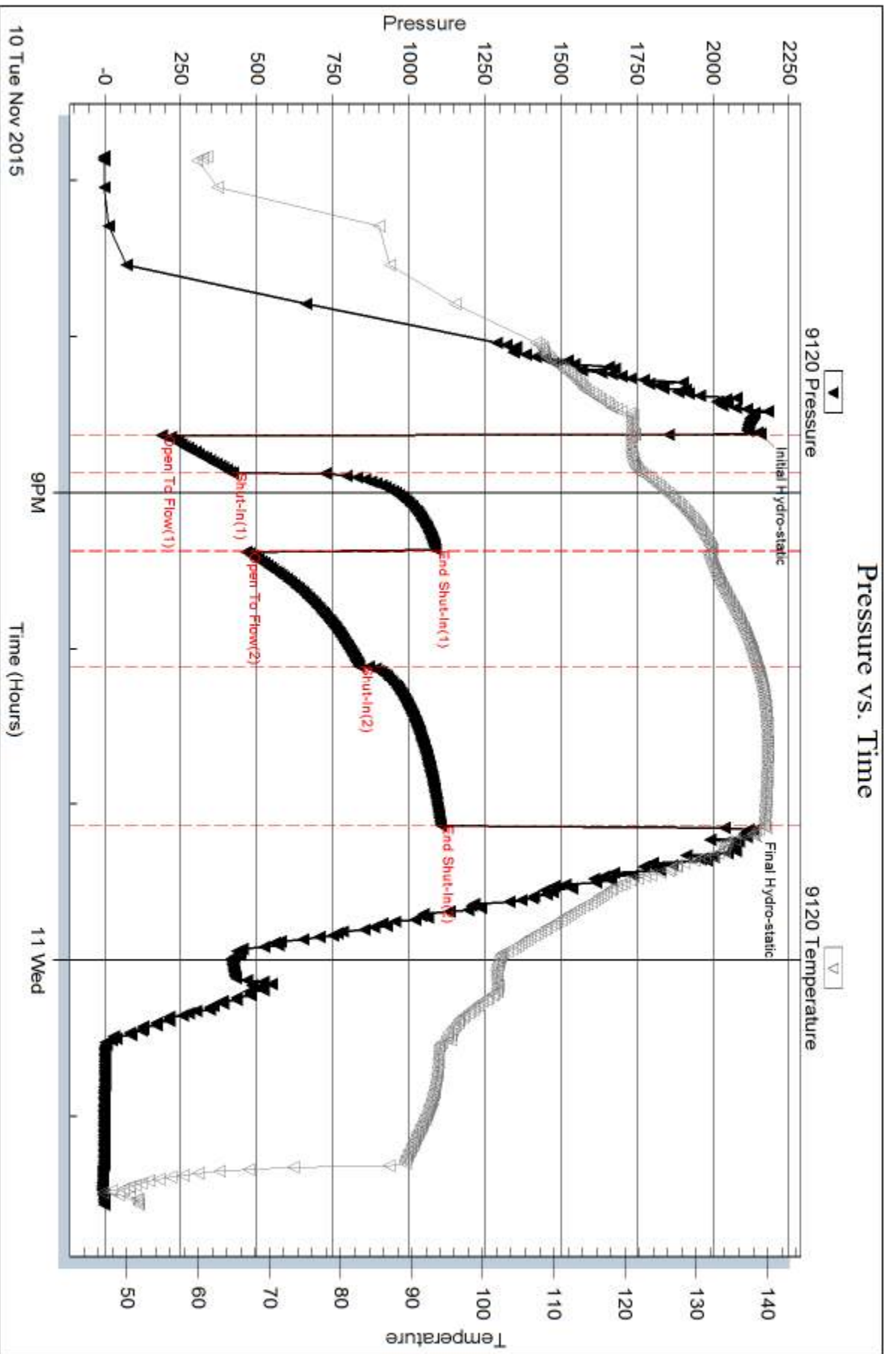
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .272 @ 60\*f



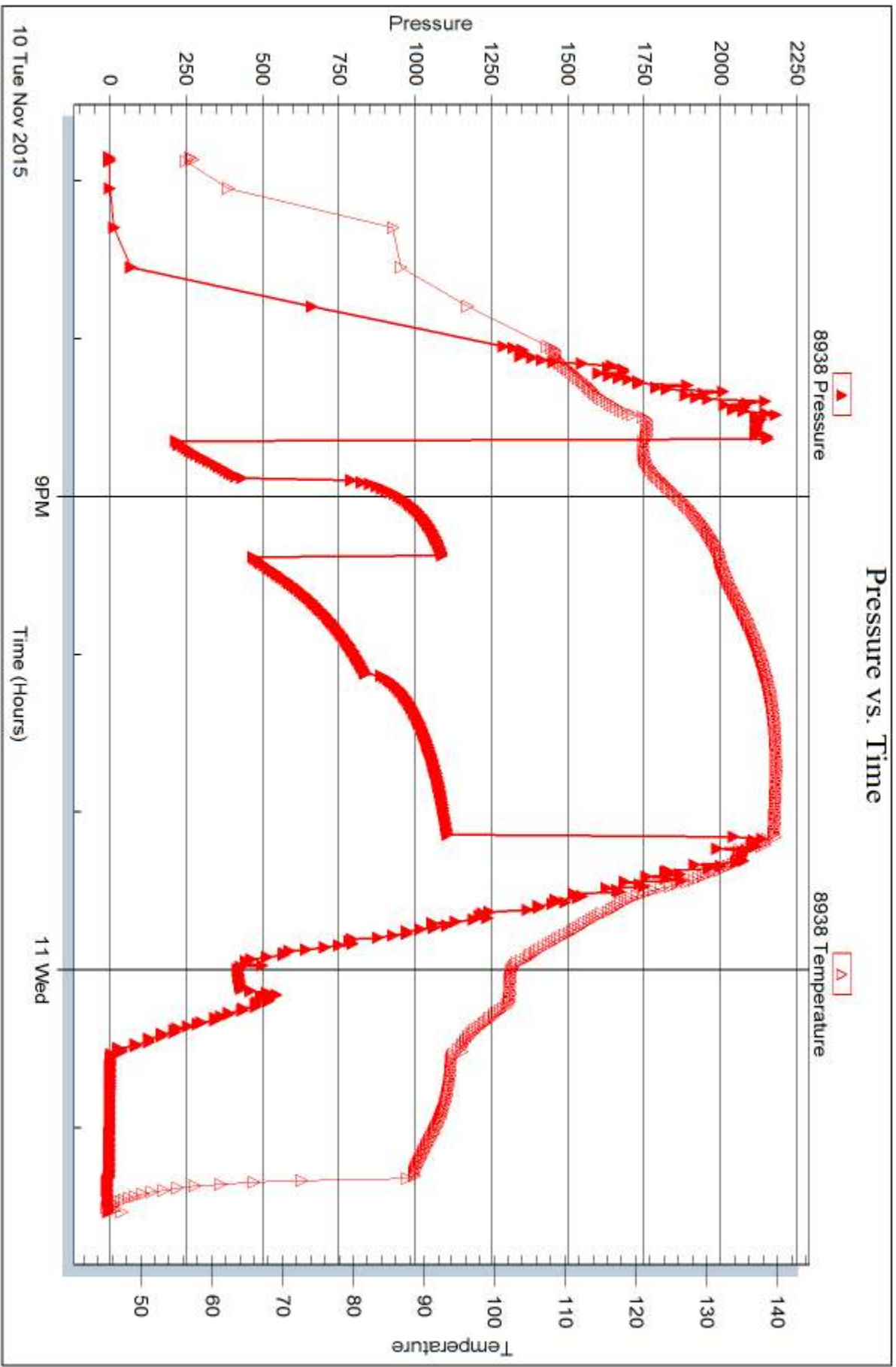
Serial #: 8938

Inside

Carmen Schmitt Inc

Ziegelmeier #1-2

DST Test Number: 8



Triobite Testing, Inc

Ref. No: 48264

Printed: 2015.11.12 @ 08:14:45



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45520

4/10

Well Name & No. Ziegelmeier #12 Test No. #1 Date 11/7/15  
 Company Carmen Schmitt Inc. Elevation 2999 KB 2994 GL  
 Address P.O. Box 47 Great Bend, Ks 67453-0047  
 Co. Rep / Geo. Brad Rine Rig WW #10  
 Location: Sec. 2 Twp. 7s Rge. 32w Co. Thomas State Ks

Interval Tested 3934 3990 Zone Tested Toronto - "A"  
 Anchor Length 510 Drill Pipe Run 3789' Mud Wt. 8.9  
 Top Packer Depth 3929 Drill Collars Run 120' Vis 48  
 Bottom Packer Depth 3934 Wt. Pipe Run ———— WL 5.6  
 Total Depth 3990 Chlorides 1500 ppm System LCM #1  
 Blow Description 1/4" in died back to wear surface blow  
No return  
No blow pull tool after 10 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1' BHT 115° Gravity ———— API RW ———— @ ———— F Chlorides ———— ppm

(A) Initial Hydrostatic <u>1982</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>22:00</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:15</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>01:12</u>
(D) Initial Shut-In <u>70</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>	T-Pulled <u>02:07</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby <u>————</u>	T-Out <u>03:46</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>148 RS</u> 84	Comments <u>————</u>
(G) Final Shut-In <u>————</u>	<input type="checkbox"/> Sampler <u>————</u>	<input type="checkbox"/> Ruined Shale Packer <u>————</u>
(H) Final Hydrostatic <u>1846</u>	<input type="checkbox"/> Straddle <u>————</u>	<input type="checkbox"/> Ruined Packer <u>————</u>
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer <u>————</u>	<input type="checkbox"/> Extra Copies <u>————</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder <u>————</u>	Sub Total <u>0</u>
Final Flow <u>10</u>	<input type="checkbox"/> Day Standby <u>————</u>	Total <u>1459</u>
Final Shut-In <u>————</u>	<input type="checkbox"/> Accessibility <u>————</u>	MP/DST Disc't <u>————</u>
	Sub Total <u>1459</u>	

Approved By Brad Rine 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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45522

Well Name & No. Ziegelmeier # 1-2 Test No. #2 Date 11/7/15  
 Company Carmen Schmitt Inc Elevation 2999 KB 2994 GL  
 Address Box 47 Great Bend, KS 67503-0047  
 Co. Rep / Geo. Brad Rome Rig WW#10  
 Location: Sec. 2 Twp. 7E Rge. 32W Co. Thomas State KS

Interval Tested 3993 4050 Zone Tested C-D  
 Anchor Length 57 Drill Pipe Run 3855 Mud Wt. 9.1  
 Top Packer Depth 3988 Drill Collars Run 120 Vis 49  
 Bottom Packer Depth 3993 Wt. Pipe Run — WL 6.4  
 Total Depth 4050 Chlorides 2000 ppm System LCM #1

Blow Description BOB on 1 min  
No return  
BOB on 1 min  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>75'</u>	<u>WCW</u>		<u>50</u>	<u>50</u>	
<u>126</u>	<u>MCW</u>		<u>75</u>	<u>25</u>	
<u>2400'</u>	<u>water (Reversed out)</u>		<u>100</u>		
<u>120'</u>	<u>(under (the sub) MCW)</u>		<u>70</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2741 BHT 133° Gravity — API RW .346 @ 54 °F Chlorides 29,500 ppm  
 (A) Initial Hydrostatic 1957  Test 1150 T-On Location 11:40  
 (B) First Initial Flow 657  Jars 250 T-Started 11:50  
 (C) First Final Flow 1064  Safety Joint 75 T-Open 13:43  
 (D) Initial Shut-In 1309  Circ Sub \_\_\_\_\_ T-Pulled 14:13  
 (E) Second Initial Flow 1080  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 1298  Mileage 148 RT 84 Comments \_\_\_\_\_  
 (G) Final Shut-In 1310  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1900  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1559  
 Accessibility \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 13  
 Final Shut-In 30  
 Sub Total 1559  
 Total 1559  
 MP/DST Disc't \_\_\_\_\_

Approved By Brad Rome Our Representative [Signature]

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45523

4/10

Well Name & No. Ziegelmeier #1-2 Test No. #3 Date 11/8/15  
 Company Campbell Schmitt Inc. Elevation 2999 KB 2994 GL  
 Address P.O. Box 47 Great Bend Ks 67503-0047  
 Co. Rep / Geo. Brad Rine Rig Wes #10  
 Location: Sec. 2 Twp. 75 Rge. 32W Co. Thomas State Ks

Interval Tested 4047 4073 Zone Tested E  
 Anchor Length 26 Drill Pipe Run 3920 Mud Wt. 9.1  
 Top Packer Depth 4042 Drill Collars Run 120 Vis 49  
 Bottom Packer Depth 4067 Wt. Pipe Run — WL 6.4  
 Total Depth 4073 Chlorides 2000 ppm System LCM #1  
 Blow Description Weak surface blow dned w 7 min.  
No return  
No blow pull tool after 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>4 mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1' BHT 116" Gravity — API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 1985  Test 1150 T-On Location 00:50  
 (B) First Initial Flow 16  Jars 250 T-Started 06:00  
 (C) First Final Flow 22  Safety Joint 75 T-Open 03:00  
 (D) Initial Shut-In 1206  Circ Sub W/C T-Pulled 03:45  
 (E) Second Initial Flow 22  Hourly Standby — T-Out 06:30  
 (F) Second Final Flow 27  Mileage 148.25 84 Comments —  
 (G) Final Shut-In +  Sampler —  
 (H) Final Hydrostatic 1911  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Initial Open 15  Extra Recorder — Sub Total 0  
 Initial Shut-In 15  Day Standby — Total 1559  
 Final Flow 15  Accessibility — MP/DST Disc't —  
 Final Shut-In — Sub Total 1559

Approved By Brad Rine Our Representative [Signature]

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45524

4/10

Well Name & No. Ziegelmeier #1-2 Test No. #4 Date 11/8/15  
 Company Carver Schnitt Inc. Elevation 2999 KB 2994 GL  
 Address P.O. Box 47 Great Bend, KS 67503-0047  
 Co. Rep / Geo. Brad Rine Rig WW #10  
 Location: Sec. 2 Twp. 75 Rge. 32w Co. Thomas State KS

Interval Tested 4087 4144 Zone Tested G-H-I  
 Anchor Length 57 Drill Pipe Run 3751 Mud Wt. 9.1  
 Top Packer Depth 4082 Drill Collars Run 120 Vis 49  
 Bottom Packer Depth 4087 Wt. Pipe Run — WL 6.4  
 Total Depth 4144 Chlorides 2000 ppm System LCM #1  
 Blow Description 1/4" ir blow dred. back to surface blow  
No return  
Surface blow after 3min. pull tool after 15 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>60'</u>	<u>Med w/oil spots</u>	<u>Spots</u>		<u>100</u>	
	<u>2" free oil on top</u>				

Rec Total 60' BHT 113° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2007</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>Stayed on hole</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:00</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:41</u>
(D) Initial Shut-In <u>1350</u>	<input checked="" type="checkbox"/> Circ Sub <u>w/c</u>	T-Pulled <u>17:41</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>19:50</u>
(F) Second Final Flow <u>49</u>	<input checked="" type="checkbox"/> Mileage <u>118 rt</u>	Comments
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1928</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1475</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1475</u>	

Approved By Brad Rine

Our Representative [Signature]

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45525

4/10

Well Name & No. Fiegelmeier #1-2 Test No. #5 Date 11/9/15  
 Company Cameron Schmidt Inc. Elevation 2999 KB 2994 GL  
 Address P.O. Box 47 Great Bend KS 67403-0047  
 Co. Rep / Geo. Brad Rine Rig WW#10  
 Location: Sec. 2 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 4137 4167 Zone Tested J  
 Anchor Length 30 Drill Pipe Run 4004 Mud Wt. 9.1  
 Top Packer Depth 4132 Drill Collars Run 170' Vis 49  
 Bottom Packer Depth 4137 Wt. Pipe Run --- WL 6.4  
 Total Depth 4167 Chlorides 2000 ppm System LCM #1  
 Blow Description Packer Failure @ open reset failed again pull tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>390'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 390' BHT --- Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic ---  Test 950 T-On Location stayed on loc  
 (B) First Initial Flow ---  Jars 250 T-Started 02:10  
 (C) First Final Flow ---  Safety Joint 75 T-Open 03:45  
 (D) Initial Shut-In ---  Circ Sub N/C T-Pulled 03:50  
 (E) Second Initial Flow ---  Hourly Standby --- T-Out 05:30  
 (F) Second Final Flow ---  Mileage N/C Comments ---  
 (G) Final Shut-In ---  Sampler ---  
 (H) Final Hydrostatic ---  Straddle ---  Ruined Shale Packer ---  
 Shale Packer ---  Ruined Packer ---  
 Extra Packer ---  Extra Copies ---  
 Extra Recorder --- Sub Total 0  
 Day Standby --- Total 1275  
 Accessibility --- MP/DST Disc't ---  
 Sub Total 1275

Approved By --- Our Representative [Signature]

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48262

Well Name & No. Fiegelmeier #1-2 Test No. #6 Date 11/2/15  
 Company Cannon Schlumberger Elevation 2999 KB 2999 GL  
 Address Box 47 Great Bend KS 67503-0047  
 Co. Rep / Geo. Brad Rime Rig WV #10  
 Location: Sec. 2 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 4115 4167 Zone Tested LJS  
 Anchor Length 52 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 4110 Drill Collars Run 120 Vis 48  
 Bottom Packer Depth 4113 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 4167 Chlorides 2500 ppm System LCM #1

Blow Description 1/4" blow  
No return  
Surface blow on 3 min  
No return

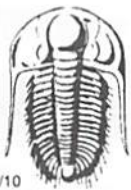
Rec	Feet of	%gas	%oil	%water	%mud
<u>3'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3' BHT 112° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2029</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>Fogged on box</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:40</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:05</u>
(D) Initial Shut-In <u>90</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>15:20</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:15</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>148.05</u>	Comments _____
(G) Final Shut-In <u>84</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1963</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby _____	Total <u>1475</u>
	<input type="checkbox"/> Accessibility _____	MP/DST-Disc't _____
	Sub Total <u>1475</u>	

Approved By Brad Rime Our Representative [Signature]

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48263

Well Name & No. Ziegelmeier #1-2 Test No. #7 Date 11/10/15  
 Company Carmel Schmitt Inc. Elevation 2999 KB 2994 GL  
 Address P.O. Box 47 Great Bend KS 67503-0047  
 Co. Rep / Geo. Brad Rine Rig WW#10  
 Location: Sec. 2 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 4310 4430 Zone Tested Parma, Ft Scott  
 Anchor Length 120 Drill Pipe Run 4170 Mud Wt. 9.6  
 Top Packer Depth 4305 Drill Collars Run 120 Vis 55  
 Bottom Packer Depth 4310 Wt. Pipe Run — WL 6.4  
 Total Depth 4430 Chlorides 2000 ppm System LCM #1  
 Blow Description Packer failed @ open Reset failed again. Pump Tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>mad</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150' BHT — Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2110  Test 950 T-On Location 14:30  
 (B) First Initial Flow —  Jars 250 T-Started 15:05  
 (C) First Final Flow —  Safety Joint 75 T-Open 16:48  
 (D) Initial Shut-In —  Circ Sub N/C T-Pulled 16:55  
 (E) Second Initial Flow —  Hourly Standby — T-Out 18:40  
 (F) Second Final Flow —  Mileage 148 RT 84 Comments —  
 (G) Final Shut-In —  Sampler —  
 (H) Final Hydrostatic 2097  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Initial Open —  Extra Recorder — Sub Total 0  
 Initial Shut-In —  Day Standby — Total 1359  
 Final Flow —  Accessibility — MP/DST Disc't —  
 Final Shut-In — Sub Total 1359

Approved By Brad Rine Our Representative [Signature]

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48264

Well Name & No. Zingulmerced #1-2 Test No. #8 Date 11/10/15  
 Company Carmen Schmitt Inc. Elevation 2999 KB 2994 GL  
 Address P.O. Box 47 Great Bend KS 67503-0047  
 Co. Rep / Geo. Brad Rine Rig WW#10  
 Location: Sec. 2 Twp. 7S Rge. 32W Co. Thomas State KS

Interval Tested 4320 4430 Zone Tested Pawnee, H. Scott  
 Anchor Length 110 Drill Pipe Run 4200 Mud Wt. 9.2  
 Top Packer Depth 4315 Drill Collars Run 120' Vis 55  
 Bottom Packer Depth 4320 Wt. Pipe Run --- WL 6.4  
 Total Depth 4430 Chlorides 2000 ppm System LCM #1

Blow Description B.O.B. in 2 1/2 min.  
No return  
B.O.B. in 3 1/2 min  
No return

Rec	Feet of	%gas	%oil	%water	%mud
	<u>2" in free o.i. on Top</u>				
Rec <u>169</u>	Feet of <u>MCW w/Heavy oil Slum</u>	%gas <u>H slum</u>	%oil <u>50</u>	%water <u>50</u>	%mud
Rec <u>310</u>	Feet of <u>SMCW w/Heavy oil Slum</u>	%gas <u>H slum</u>	%oil <u>85</u>	%water <u>15</u>	%mud
Rec <u>1298</u>	Feet of <u>water w/oil Slum</u>	%gas <u>Slum</u>	%oil <u>100</u>	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1772' BHT 140° Gravity --- API RW 272 @ 60° F Chlorides 30,000 ppm

(A) Initial Hydrostatic 2150  Test 1150 T-On Location Spayed down hole  
 (B) First Initial Flow 186  Jars 250 T-Started 18:50  
 (C) First Final Flow 420  Safety Joint 75 T-Open 20:37  
 (D) Initial Shut-In 1088  Circ Sub N/C T-Pulled 23:07  
 (E) Second Initial Flow 465  Hourly Standby --- T-Out 01:45  
 (F) Second Final Flow 835  Mileage 148RT 84 Comments Released 3/ loaded  
 (G) Final Shut-In 1104  Sampler --- Tools on 11/11/2015 @  
 (H) Final Hydrostatic 2117  Straddle --- 21:10 p.m.  
 Shale Packer 250  Ruined Shale Packer ---  
 Extra Packer ---  Ruined Packer ---  
 Extra Recorder --- Sub Total 0  
 Day Standby --- Total 1809  
 Accessibility --- MP/DST Disc't ---  
 Sub Total 1809

Approved By Brad Rine Our Representative [Signature]

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**CONSOLIDATED**  
Oil Well Services, LLC

REMIT TO  
Consolidated Oil Well Services, LLC  
Dept: 970  
P.O. Box 4346  
Houston, TX 77210-4346

MAIN OFFICE

P.O. Box 884  
Chanute, KS 66720  
620/431-9210, 1-800/467-8676  
Fax 620/431-0012

Invoice

Invoice#

806336

Invoice Date: 11/12/15

Terms: Net 30

Page 1

CARMEN SCHMITT, INC.

P.O. BOX 47 (915 HARRISON)  
GREAT BEND KS 57530  
USA  
6207935100

ZIEGELMEIER #1-2

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	40.000	900.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	40.000	128.70
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	40.000	396.00
CC5829	Lite-Weight Blend V (60:40:4)	240.000	16.0000	40.000	2,304.00
CC6075	Celloflake	60.000	2.0000	40.000	72.00
CP8228	8 5/8" Wooden Plug	1.000	165.0000	40.000	99.00
CC5326	Sodium Chloride, Salt	100.000	0.0000	0.000	0.00

Subtotal 6,499.50

Discounted Amount 2,599.80

SubTotal After Discount 3,899.70

Amount Due 6,808.88 If paid after 12/12/15

Tax: 185.63

Total: **4,085.33**

*7/10/43  
19017.0102  
BCP  
Well Site  
" Cement Plugging*



**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

4739  
4647

INVOICE # 806336

TICKET NUMBER 49612  
LOCATION Oakley Kc  
FOREMAN Jerry V

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

Rs

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-11-15	1860	Ziegelmeier #1-2	2	7s	32w	Thomas
CUSTOMER Carmen Schmitt			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS			753 - Cory D			
CITY STATE ZIP CODE			397 - Keith C			
			assist Michael R			
			714			

JOB TYPE plug HOLE SIZE 7 7/8 HOLE DEPTH 4576 CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE 4 1/2 TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Softly meeting & rig up on WJ10 plug as ordered with sks  
Lite weight 1/4 # flo seal  
50 sks @ 2665'  
100 sks @ 1800'  
50 sks @ 300'  
10 sks @ 40' with 8 7/8 wooden plug  
30 sks Retrolc

Thank you  
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	1500.00
CE0002	30	MILEAGE	7.15	214.50
CE0711	10.32	ton mileage delivery (min)	660.00	660.00
CC5829	240 sks	Lite blend II	16.00	3840.00
CC6075	60 #	flo seal	2.00	120.00
CP8228	1	8 7/8 wooden plug	165.00	165.00
CC5326	100 #	salt	NC	NC
			Subtotal	6499.50
			-40%	2599.80
			Subtotal	3899.70
			SALES TAX	185.63
			ESTIMATED TOTAL	4085.33

AUTHORIZATION Rock O'Brien TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



REMIT TO  
 Consolidated Oil Well Services, LLC  
 Dept:970  
 P.O.Box 4346  
 Houston, TX 77210-4346

MAIN OFFICE

P.O.Box 884  
 Chanute, KS 66720  
 620/431-9210, 1-800/467-8676  
 Fax 620/431-0012

Invoice Invoice# 806294

Invoice Date: 11/05/15 Terms: Net 30 Page 1

CARMEN SCHMITT, INC.  
 P.O. BOX 47 (915 HARRISON)  
 GREAT BEND KS 57530  
 USA  
 6207935100

ZIEGELMEIER

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	40.000	900.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	40.000	128.70
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	40.000	396.00
CC5871	Surface Blend II, 2% Gel/3% CaCl	175.000	23.0000	40.000	2,415.00

Subtotal 6,399.50  
 Discounted Amount 2,559.80  
 SubTotal After Discount 3,839.70

Amount Due 6,701.38 If paid after 12/05/15

Tax: 181.13  
 Total: 4,020.83

7/10/43  
 19017.0102 BCP  
 Well Site  
 Surface Cement



**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

4694  
4602

TICKET NUMBER 49542  
LOCATION Oakley, ks.  
FOREMAN Cory Davis

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

**Invoice # 806294**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-3-15	1860	Ziegelmeier	2	7 S.	27 W.	Thomas
CUSTOMER Carmen Schmitt			Gum N. on 28 to ROX E. to 29 N.E. into			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			731	Cody R.		
STATE			515	Rob S.		
ZIP CODE						

JOB TYPE <u>Surface</u>	HOLE SIZE <u>12 1/4</u>	HOLE DEPTH <u>248'</u>	CASING SIZE & WEIGHT <u>8 5/8 x 24'</u>
CASING DEPTH <u>248'</u>	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT <u>14.8</u>	SLURRY VOL <u>1.24'</u>	WATER gal/sk <u>6.5</u>	CEMENT LEFT IN CASING
DISPLACEMENT <u>14.5</u>	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Safety meeting - Rig up on well - circulate with rig pump Hook up to pump truck mix 175 sks class A cement 3% cc 2% gel wash up and Displace 14.5 BBL water. Shut in rig down

Cement Did Circulated

AProx 500 to P.t

Thanks Cory & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1,500.00	1,500.00
CE0002	30	MILEAGE	7.15	214.50
CE0711	8.23 Ton	Cement Delivery Charge Minimum	1.75	660.00
CC5871	175	Surface Blend	23.00	4,025.00
			sub total	6,399.50
			40% less	-2,559.80
			sub total	3,839.70
			SALES TAX	181.13
			ESTIMATED TOTAL	4,020.83

Ravin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.