



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1196839  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1196839

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			
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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Bentz-Griebel 1-33
Doc ID	1196839

All Electric Logs Run

Sonic Log
Interpretation
Dual Induction log
Porosity
Microresistivity

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Bentz-Griebel 1-33
Doc ID	1196839

Tops

Name	Top	Datum
Anhydrite	1664	444
Base-Anhy	1695	413
Topeka	3092	-984
Oread	3244	-1136
Heebner Shale	3290	-1182
Toronto Ls.	3316	-1208
Lansing	3330	-1222
Base-Kc	3547	-1439
Arbuckle	3654	-1546





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 142028  
Invoice Date: Mar 21, 2014  
Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

<b>Bill To:</b>
Carmen Schmitt, Inc. P. O. Box 47 Great Bend, KS 67530

Customer ID	Field Ticket #	Payment Terms	
Schm	55170	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Mar 21, 2014	4/20/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Bentz Griebel #1-33		
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
495.00	CEMENT MATERIALS	Chloride	0.80	396.00
175.00	CEMENT SERVICE	Cubic Feet Charge	1.40	245.00
330.00	CEMENT SERVICE	Ton Mileage Charge	2.60	858.00
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
80.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	616.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	CEMENT SERVICE	Plug Container	275.00	275.00
1.00	CEMENT SUPERVISOR	Tony Pfannenstiel		
1.00	OPERATOR ASSISTANT	Danny Sinner		
1.00	OPERATOR ASSISTANT	Jesse Cozart		
<p>18410-0133 710/43 " Cement Surface Csg "  Well File</p>				

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1,802.69

ONLY IF PAID ON OR BEFORE  
Apr 15, 2014

Subtotal	7,210.75
Sales Tax	217.00
Total Invoice Amount	7,427.75
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,427.75</b>

# ALLIED OIL & GAS SERVICES, LLC 055170

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell ks

Bentz Griebel

DATE <u>3.21.14</u>	SEC <u>35</u>	TWP <u>6</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00 PM</u>	JOB FINISH <u>3:30 PM</u>
LEASE <u>Bentz Griebel</u>	WELL # <u>1-33</u>	LOCATION <u>Stockton ks</u>	COUNTY <u>Rooks</u>	STATE <u>ks</u>			
OLD OR NEW (Circle one) <u>NEW</u>	<u>3 n 8 w 1 n West 1/4</u>						

CONTRACTOR <u>Maddal Drilling</u>	OWNER
TYPE OF JOB <u>Surfact</u>	
HOLE SIZE <u>8 9/8</u>	CEMENT
CASING SIZE <u>8 9/8</u>	AMOUNT ORDERED <u>175sk cum</u>
TUBING SIZE	<u>+ 21. gal + 31. cc</u>
DRILL PIPE	
TOOL	
PRES. MAX.	COMMON <u>175sk</u> @ <u>17.9</u> \$ <u>3,132.50</u>
MEAS. LINE	POZMIX @
CEMENT LEFT IN CSG. <u>15'</u>	GEL @
PERFS.	CHLORIDE <u>49516</u> @ <u>.80</u> \$ <u>396.00</u>
DISPLACEMENT <u>12.80 cum</u>	ASC @
EQUIPMENT	@
PUMP TRUCK # <u>417</u>	@
CEMENTER <u>Andy Plameth</u>	@
HELPER <u>Dgong S</u>	@
BULK TRUCK # <u>378</u>	@
DRIVER <u>Jesse O</u>	@
BULK TRUCK #	@
DRIVER	@
	HANDLING <u>175sk P2</u> @ <u>1.40</u> \$ <u>245.00</u>
	MILEAGE <u>930 T/m</u> @ <u>2.60</u> \$ <u>2418.00</u>

REMARKS:

TOTAL \$ 4,631.50

See Cementing Job logs  
Cement to Surface

SERVICE

DEPTH OF JOB	<u>216'</u>
PUMP TRUCK CHARGE	\$ <u>1,512.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>Heavy 80m</u>	@ <u>8.70</u> \$ <u>616.00</u>
MANIFOLD <u>Light 40'</u>	@ <u>4.4</u> \$ <u>176.00</u>
<u>IX Plug Container</u>	@ <u>-</u> \$ <u>275.00</u>

TOTAL \$ 2,579.25

CHARGE TO: Carmen Schmitt Inc

STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP Cherokee

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Joshua C Scott

SIGNATURE Joshua C Scott

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
	@
TOTAL	<u>0</u>

SALES TAX (if Any) \_\_\_\_\_  
TOTAL CHARGES \$ 7,210.75  
DISCOUNT 1,802.69 IF PAID IN 30 DAYS  
Net 5,408.06



PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 142187  
Invoice Date: Mar 30, 2014  
Page: 1

<b>Bill To:</b>
Carmen Schmitt, Inc. P. O. Box 47 Great Bend, KS 67530

<b>Customer ID</b>	<b>Field Ticket #</b>	<b>Payment Terms</b>	
Schm	55178	Net 30 Days	
<b>Job Location</b>	<b>Camp Location</b>	<b>Service Date</b>	<b>Due Date</b>
KS2-03	Russell	Mar 30, 2014	4/29/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Bentz-Griebel #1-33		
270.00	CEMENT MATERIALS	60/40 Blend	15.30	4,131.00
59.00	CEMENT MATERIALS	Flo Seal	2.97	175.23
270.00	CEMENT SERVICE	Cubic Feet Charge	1.40	378.00
466.00	CEMENT SERVICE	Ton Mileage Charge	2.60	1,211.60
1.00	CEMENT SERVICE	Plug to Abandon	2,483.59	2,483.59
80.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	616.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	110.00	110.00
1.00	CEMENT SUPERVISOR	Tony Pfannenstiel		
1.00	OPERATOR ASSISTANT	Danny Sinner		
1.00	OPERATOR ASSISTANT	Joe Goodson		
1.00	OPERATOR ASSISTANT	Tyler Dobson		

18418.0133  
710/43  
"Cement Plug"  
Well File

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 2,320.35

ONLY IF PAID ON OR BEFORE  
Apr 24, 2014

Subtotal	9,281.42
Sales Tax	271.60
Total Invoice Amount	9,553.02
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,553.02</b>



# ALLIED OIL & GAS SERVICES, LLC 055178

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Russell, Ks

DATE 3.30.14 SEC 33 TWP 6 RANGE 19 CALLED OUT \_\_\_\_\_ ON LOCATION \_\_\_\_\_ JOB START \_\_\_\_\_ JOB FINISH \_\_\_\_\_

WELL # 1-33 LOCATION Stockton Ks COUNTY ROCK STATE Ks

OLD OR NEW (Circle one) \_\_\_\_\_

CONTRACTOR McMallard Drilling OWNER \_\_\_\_\_

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. \_\_\_\_\_ CEMENT AMOUNT ORDERED 270SK

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 DEPTH 3635' 6040 + 4 1/2 gel # 1/4 cell

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES: MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_ COMMON 270SK @ 15.3 \$4,131.00

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_ POZMIX \_\_\_\_\_ @ \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_ GEL \_\_\_\_\_ @ \_\_\_\_\_

PERFS. \_\_\_\_\_ CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_ ASC \_\_\_\_\_ @ \_\_\_\_\_

EQUIPMENT

PUMP TRUCK CEMENTER Gary Spennsted

# 409 HELPER Johnny S

BULK TRUCK \_\_\_\_\_ @ \_\_\_\_\_

# 481 DRIVER Taylor / Joe C

BULK TRUCK \_\_\_\_\_ @ \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_ @ \_\_\_\_\_

HANDLING 270 #3 @ 1.40 \$ 378.00

MILEAGE 466 T/m 2.60 + 1211.60

TOTAL 5,835.83

REMARKS:

SERVICE 3635'

See Connecting Job log

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \$2,483.59

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE Heavy 80 @ 7.7 \$ 616.00

MANIFOLD Light 40 @ 4.4 \$ 176.00

TOTAL \$3,275.59

CHARGE TO: Carmon Schmitt

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP Frank

PLUG & FLOAT EQUIPMENT

1x 8 5/8 Warden Plug - \$ 110.00

TOTAL \$ 110.00

To: Allied Oil & Gas Services, LLC  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Frank Spennsted

SIGNATURE Frank Spennsted

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 9,281.42

DISCOUNT 2320.35 IF PAID IN 30 DAYS

Net 6961.07



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P. O. Box 47  
Great Bend KS 67530-0047  
ATTN: Dave Goldak

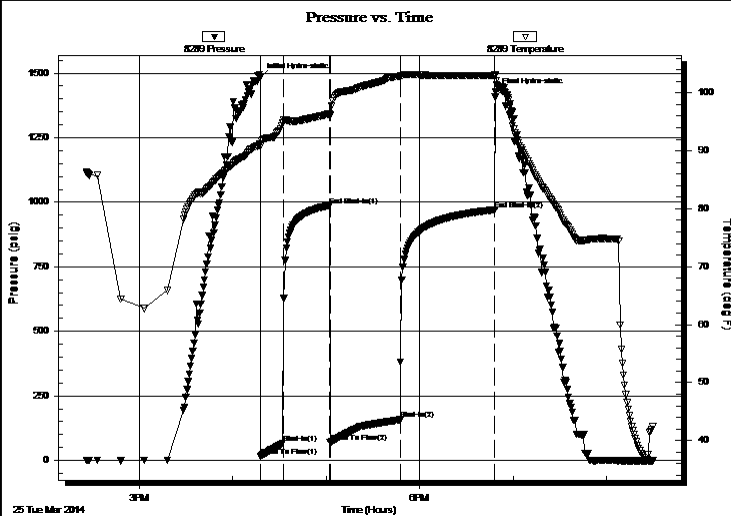
**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
Job Ticket: 56022      **DST#: 1**  
Test Start: 2014.03.25 @ 14:26:00

## GENERAL INFORMATION:

Formation: **Topeka**  
Deviated: No Whipstock: 2108.00 ft (KB)  
Time Tool Opened: 16:17:45  
Time Test Ended: 20:30:00  
Interval: **3122.00 ft (KB) To 3138.00 ft (KB) (TVD)**  
Total Depth: 3138.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Jim Svaty  
Unit No: 76  
Reference Elevations: 2108.00 ft (KB)  
2103.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8289      Outside**  
Press @ Run Depth: 158.27 psig @ 3123.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.03.25      End Date: 2014.03.25      Last Calib.: 2014.03.25  
Start Time: 14:26:02      End Time: 20:30:00      Time On Btm: 2014.03.25 @ 16:17:30  
Time Off Btm: 2014.03.25 @ 18:48:45

**TEST COMMENT:** 15-IFP- Surface Blow Building to 5 1/2 in.  
30-ISIP- No Blow  
45-FFP- BOB in 31 1/2 min.  
60-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1482.24	91.23	Initial Hydro-static
1	16.52	90.78	Open To Flow (1)
15	66.46	94.88	Shut-In(1)
45	986.80	96.34	End Shut-In(1)
45	69.64	96.09	Open To Flow (2)
90	158.27	102.84	Shut-In(2)
151	970.75	102.97	End Shut-In(2)
152	1426.18	103.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	MCW 5% m 95% w	1.95

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P. O. Box 47  
Great Bend KS 67530-0047  
ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
Job Ticket: 56022      **DST#: 1**  
Test Start: 2014.03.25 @ 14:26:00

## Mud and Cushion Information

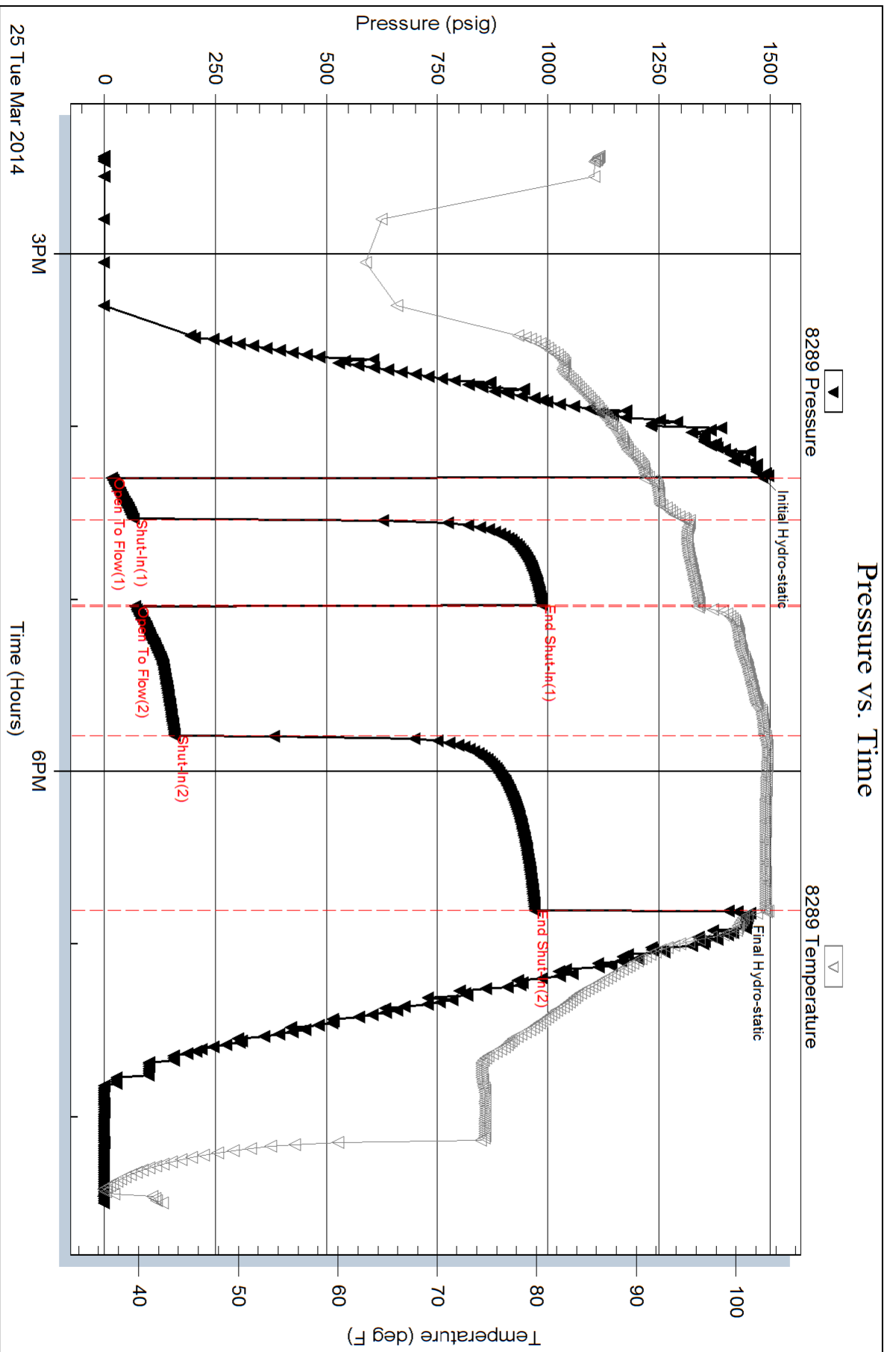
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	58000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	MCW 5% <sub>m</sub> 95% <sub>w</sub>	1.949

Total Length: 300.00 ft      Total Volume: 1.949 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: .238 @ 41



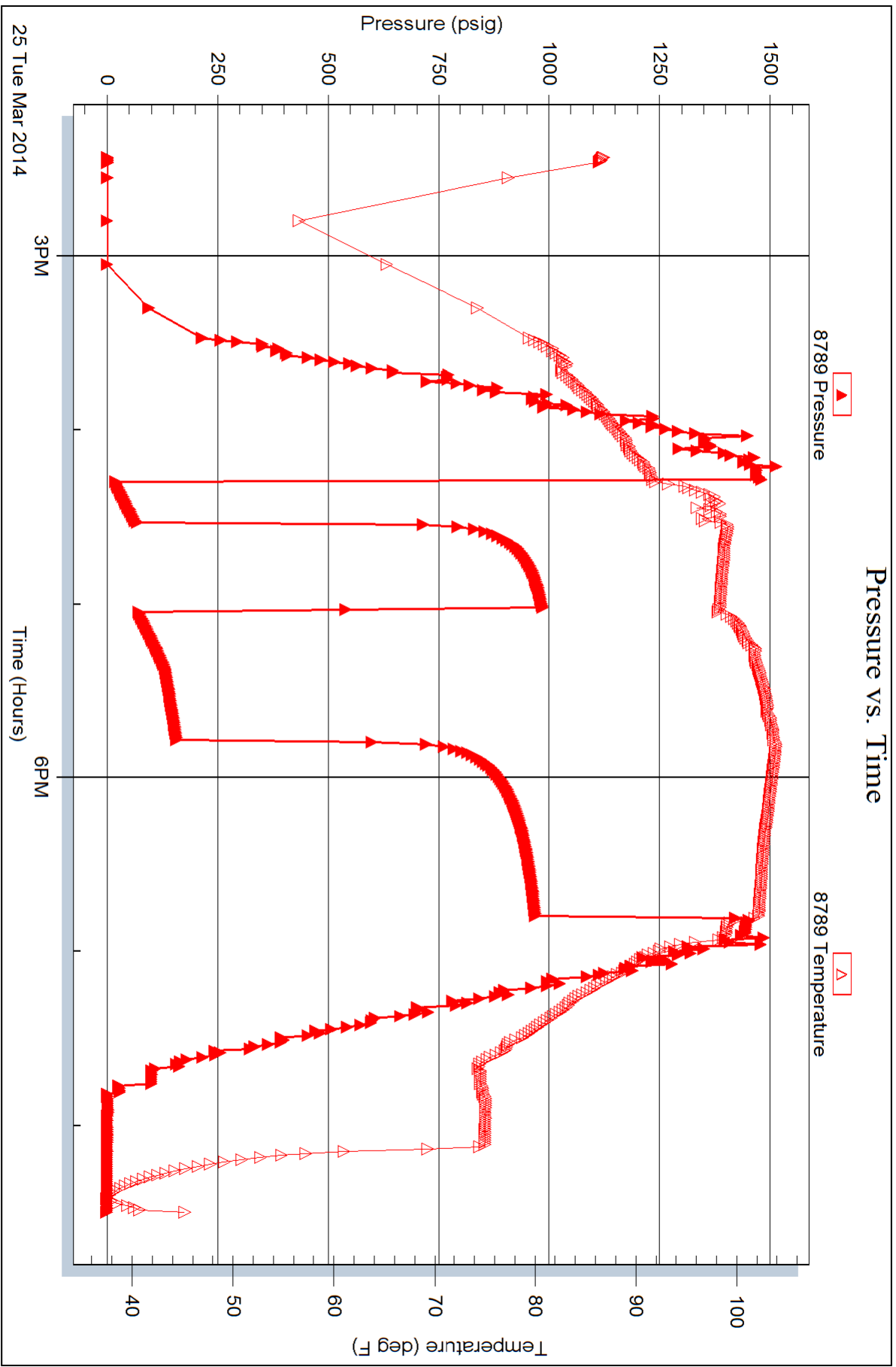
Serial #: 8789

Inside

Carmen Schmitt Inc

Bentz-Griebel 1-33

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P. O. Box 47  
Great Bend KS 67530-0047  
ATTN: Dave Goldak

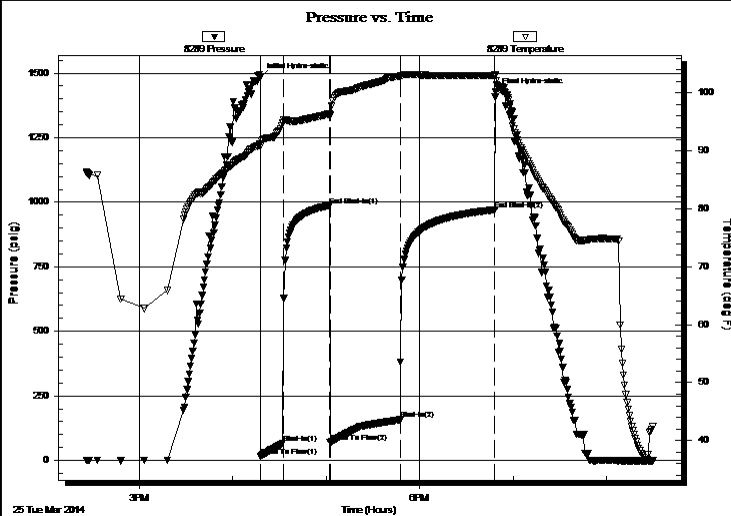
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Unit No: 76  
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2103.00 ft (CF)  
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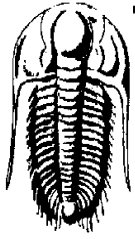
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15	66.46	94.88	Shut-In(1)
45	986.80	96.34	End Shut-In(1)
45	69.64	96.09	Open To Flow (2)
90	158.27	102.84	Shut-In(2)
151	970.75	102.97	End Shut-In(2)
152	1426.18	103.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	MCW 5% m 95% w	1.95

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 P. O. Box 47  
 Great Bend KS 67530-0047  
 ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
 Job Ticket: 56022 **DST#: 1**  
 Test Start: 2014.03.25 @ 14:26:00

**GENERAL INFORMATION:**

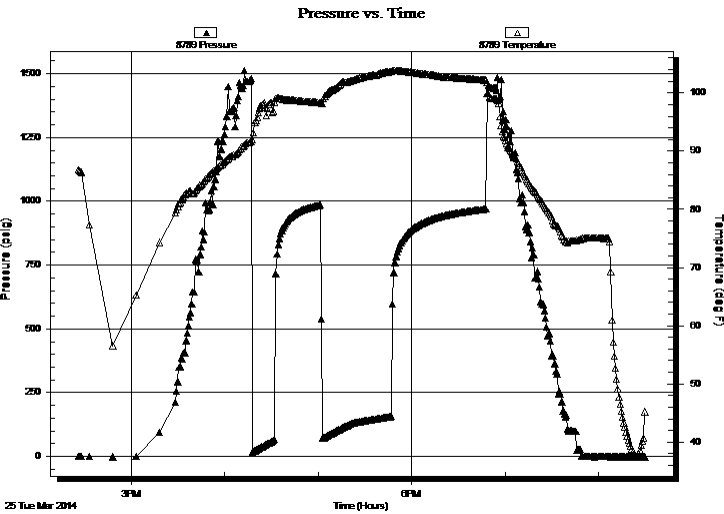
Formation: **Topeka**  
 Deviated: No Whipstock: 2108.00 ft (KB)  
 Time Tool Opened: 16:17:45  
 Time Test Ended: 20:30:00  
**Interval: 3122.00 ft (KB) To 3138.00 ft (KB) (TVD)**  
 Total Depth: 3138.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 76  
 Reference Elevations: 2108.00 ft (KB)  
 2103.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8789 Inside**

Press @ Run Depth: psig @ 3123.00 ft (KB)  
 Start Date: 2014.03.25 End Date: 2014.03.25  
 Start Time: 14:26:02 End Time: 20:29:45  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.03.25  
 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 15-IFP- Surface Blow Building to 5 1/2 in.  
 30-ISIP- No Blow  
 45-FFP- BOB in 31 1/2 min.  
 60-FSIP- No Blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
300.00	MCW 5% m 95% w	1.95

**Gas Rates**

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt Inc  
P. O. Box 47  
Great Bend KS 67530-0047  
ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
Job Ticket: 56022      **DST#: 1**  
Test Start: 2014.03.25 @ 14:26:00

### Mud and Cushion Information

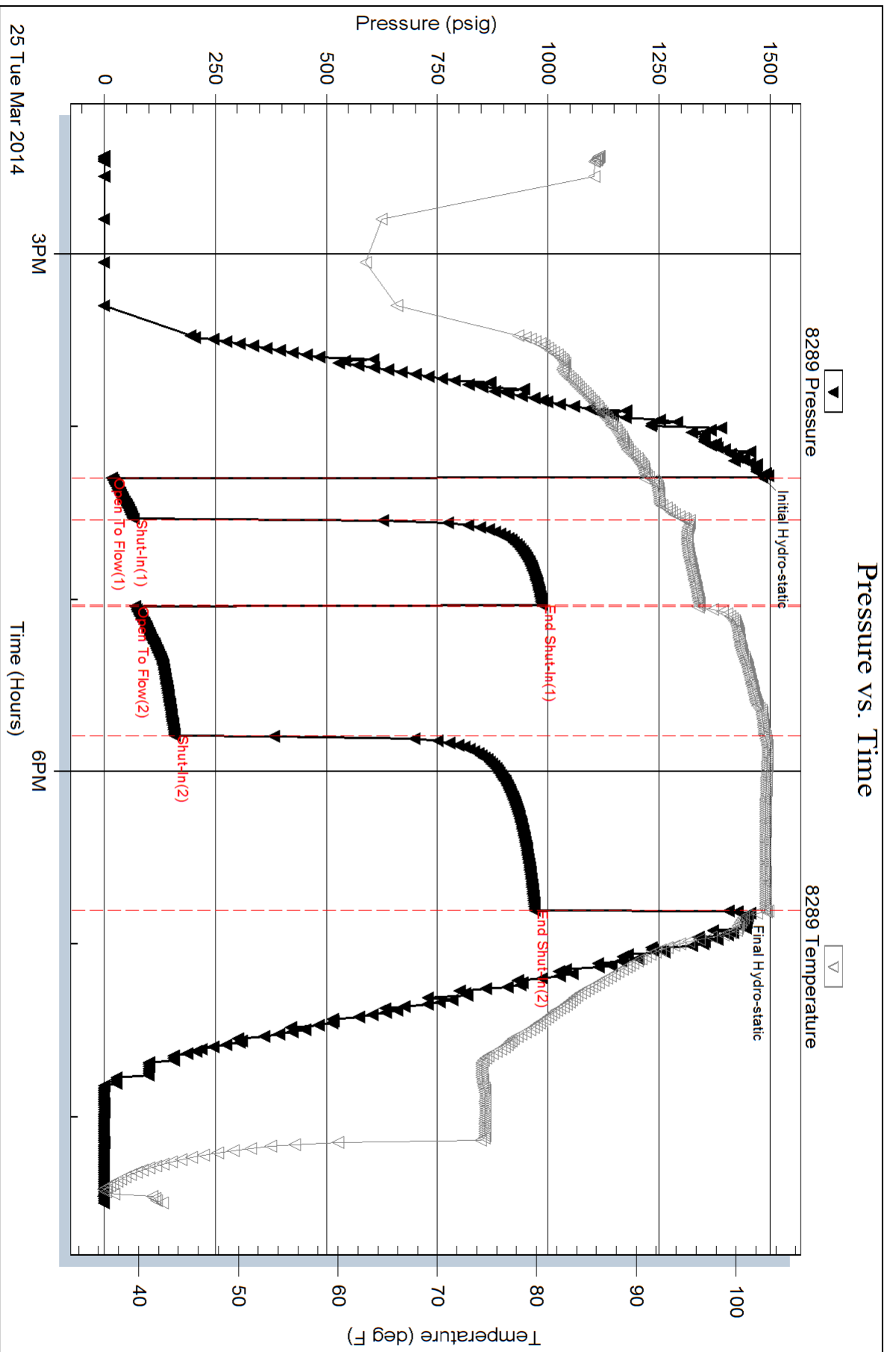
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	58000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	MCW 5% <sub>m</sub> 95% <sub>w</sub>	1.949

Total Length: 300.00 ft      Total Volume: 1.949 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: .238 @ 41



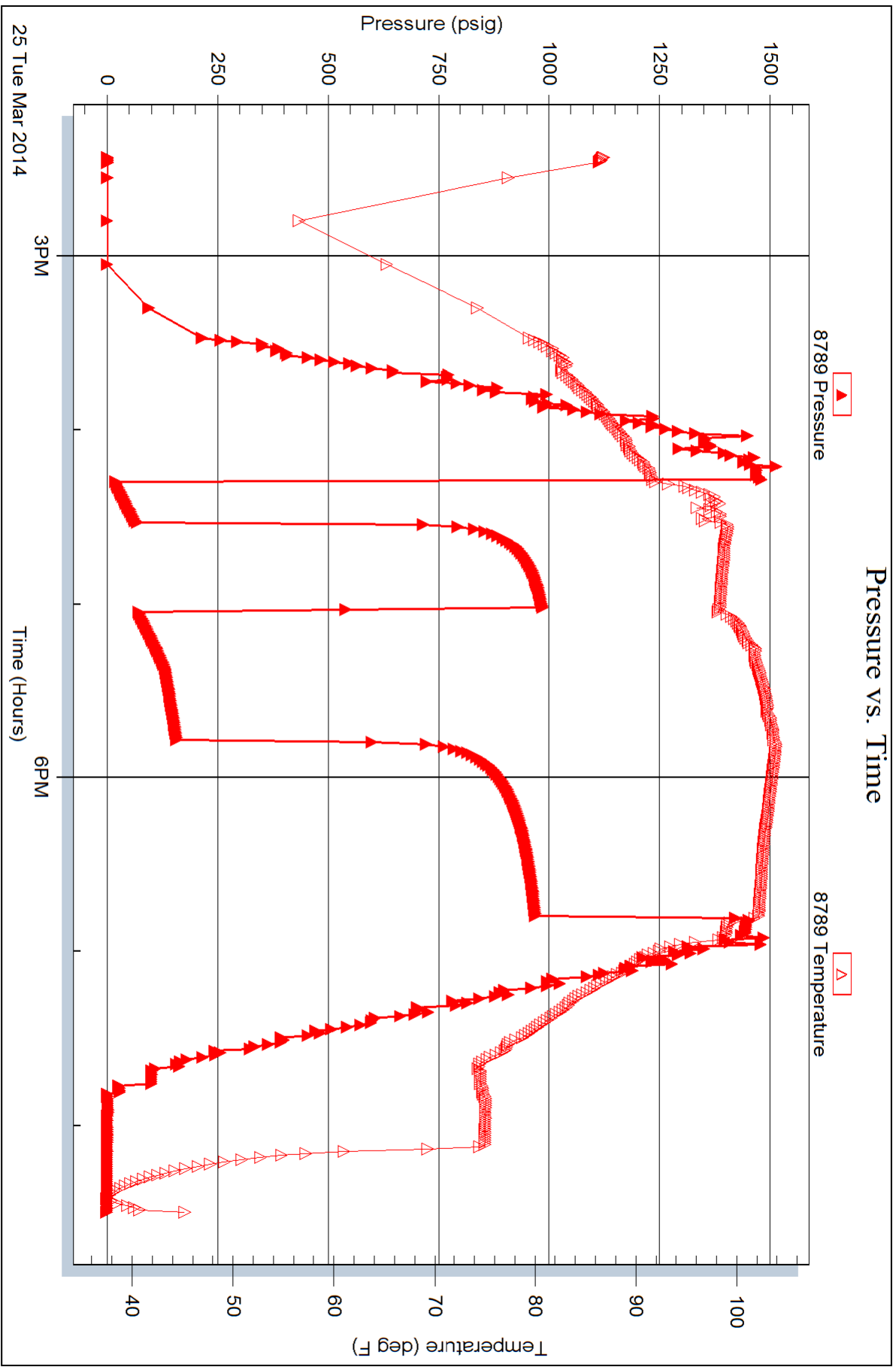
Serial #: 8789

Inside

Carmen Schmitt Inc

Bentz-Griebel 1-33

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56022

Printed: 2014.03.25 @ 22:48:46



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 PO Box 47  
 Great Bend KS 67530-0047  
 ATTN: Dave Goldak

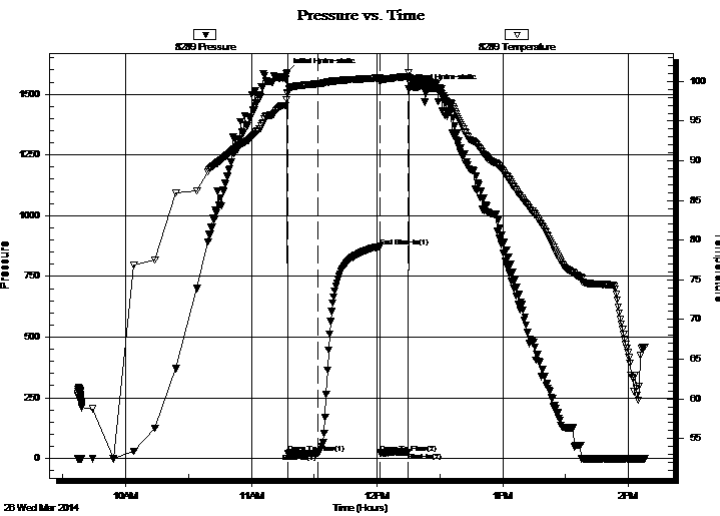
**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
 Job Ticket: 56023 **DST#: 2**  
 Test Start: 2014.03.26 @ 09:37:00

## GENERAL INFORMATION:

Formation: **Oread**  
 Deviated: No Whipstock: 2108.00 ft (KB)  
 Time Tool Opened: 11:17:15  
 Time Test Ended: 14:08:00  
 Interval: **3262.00 ft (KB) To 3273.00 ft (KB) (TVD)**  
 Total Depth: 3273.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jim Svaty  
 Unit No: 76  
 Reference Elevations: 2108.00 ft (KB)  
 2103.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8289 Outside**  
 Press@RunDepth: 20.02 psig @ 3263.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.26 End Date: 2014.03.26 Last Calib.: 2014.03.26  
 Start Time: 09:37:02 End Time: 14:08:00 Time On Btm: 2014.03.26 @ 11:17:00  
 Time Off Btm: 2014.03.26 @ 12:15:00

TEST COMMENT: 15-IFP- Surface Blow Building to 1/2in.  
 30-ISIP- No Blow  
 12-FFP- No Blow  
 Pulled



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.12	98.52	Initial Hydro-static
1	20.64	98.50	Open To Flow (1)
15	20.02	99.70	Shut-In(1)
45	873.27	100.44	End Shut-In(1)
45	22.80	99.94	Open To Flow (2)
58	24.63	100.63	Shut-In(2)
58	1522.94	101.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.01

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
 PO Box 47  
 Great Bend KS 67530-0047  
 ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
 Job Ticket: 56023      **DST#: 2**  
 Test Start: 2014.03.26 @ 09:37:00

## Mud and Cushion Information

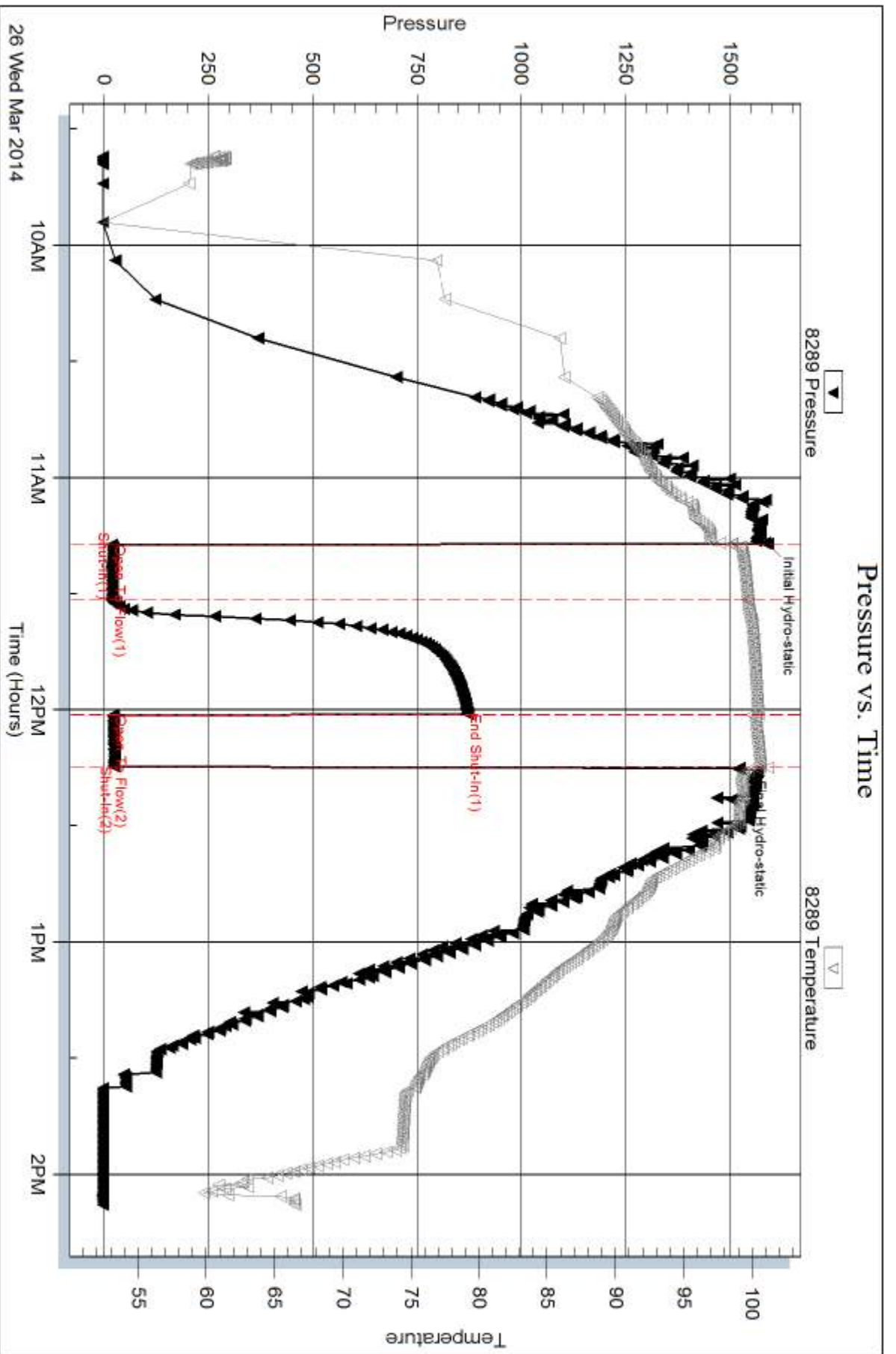
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100%	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:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P. O. Box 47  
Great Bend KS 67530-0047  
ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
Job Ticket: 56024 **DST#: 3**  
Test Start: 2014.03.27 @ 02:39:00

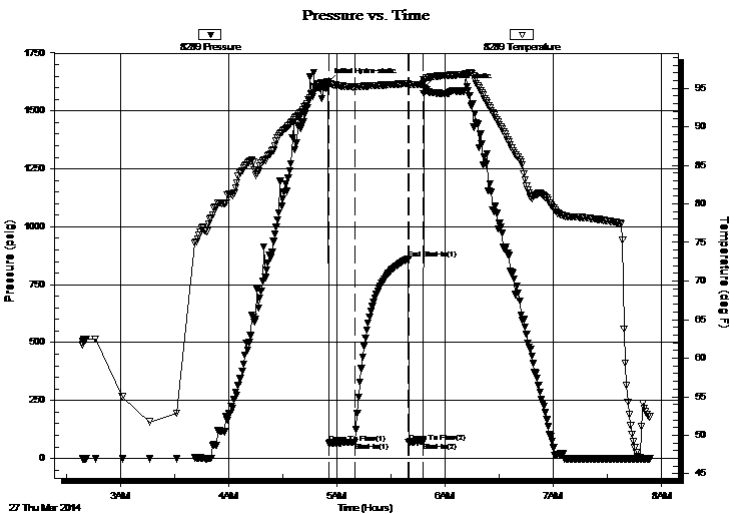
## GENERAL INFORMATION:

Formation: **Toronto & LKC " A "**  
Deviated: No Whipstock: 2108.00 ft (KB)  
Time Tool Opened: 04:55:30  
Time Test Ended: 07:54:00  
Interval: **3296.00 ft (KB) To 3343.00 ft (KB) (TVD)**  
Total Depth: 3343.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jim Svaty  
Unit No: 76  
Reference Elevations: 2108.00 ft (KB)  
2103.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8289 Outside**  
Press@RunDepth: 70.41 psig @ 3308.00 ft (KB)  
Start Date: 2014.03.27 End Date: 2014.03.27  
Start Time: 02:39:02 End Time: 07:53:45  
Capacity: 8000.00 psig  
Last Calib.: 2014.03.27  
Time On Btm: 2014.03.27 @ 04:55:00  
Time Off Btm: 2014.03.27 @ 05:48:15

TEST COMMENT: 15-IFP- Surface Blow to 2 1/2in.  
30-ISIP- No Blow  
8-FFP- No Blow  
Pulled

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1624.33	95.88	Initial Hydro-static
1	66.31	95.53	Open To Flow (1)
15	70.41	95.16	Shut-In(1)
45	861.04	95.61	End Shut-In(1)
45	71.02	95.34	Open To Flow (2)
53	71.91	95.51	Shut-In(2)
54	1599.46	95.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud 100%	0.37

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt Inc  
P. O. Box 47  
Great Bend KS 67530-0047  
ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
Job Ticket: 56024      **DST#: 3**  
Test Start: 2014.03.27 @ 02:39:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

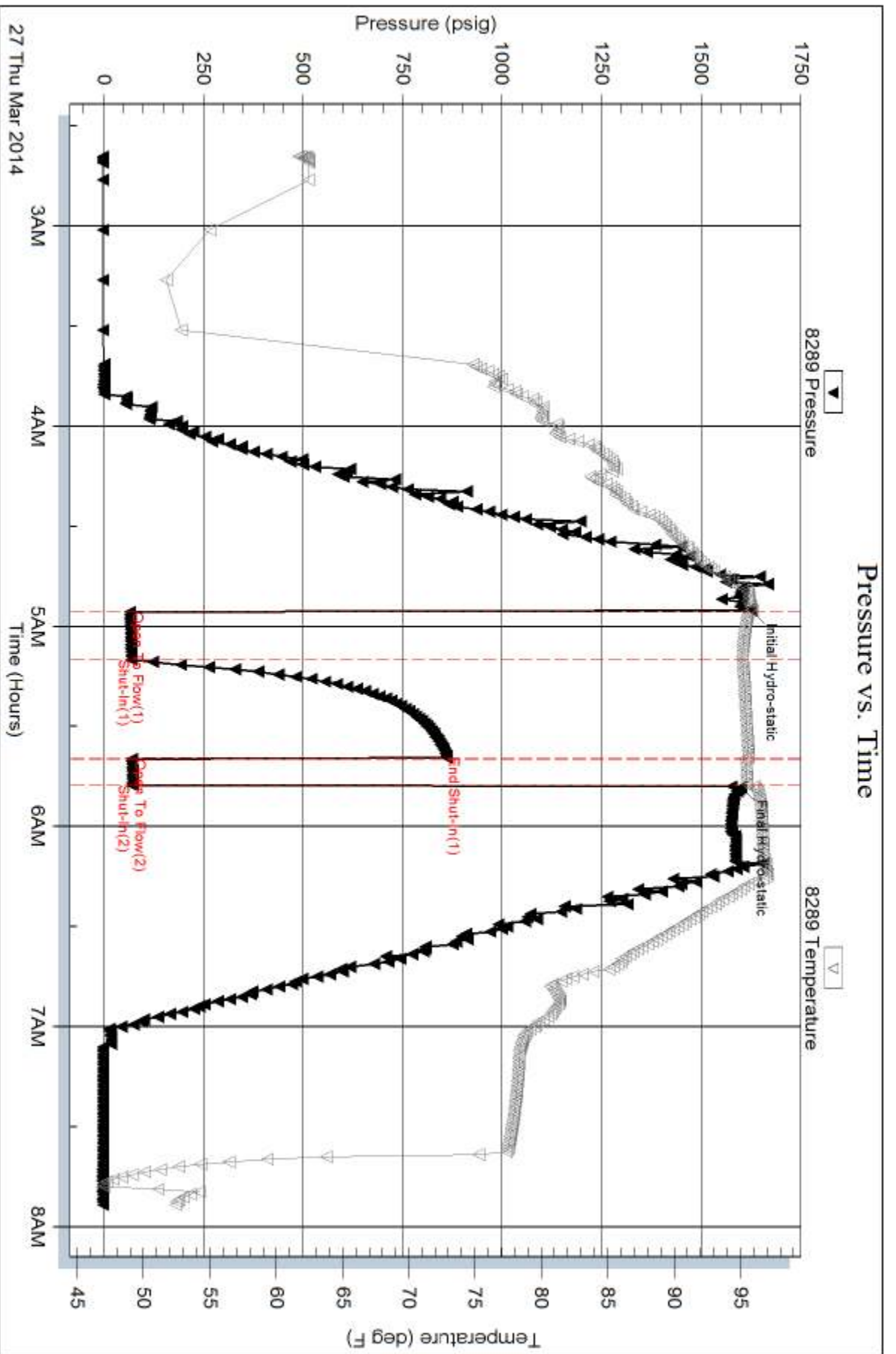
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Mud 100%	0.369

Total Length: 75.00 ft      Total Volume: 0.369 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P. O. Box 47  
Great Bend KS 67530-0047  
ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
Job Ticket: 57576 **DST#: 5**  
Test Start: 2014.03.28 @ 14:38:00

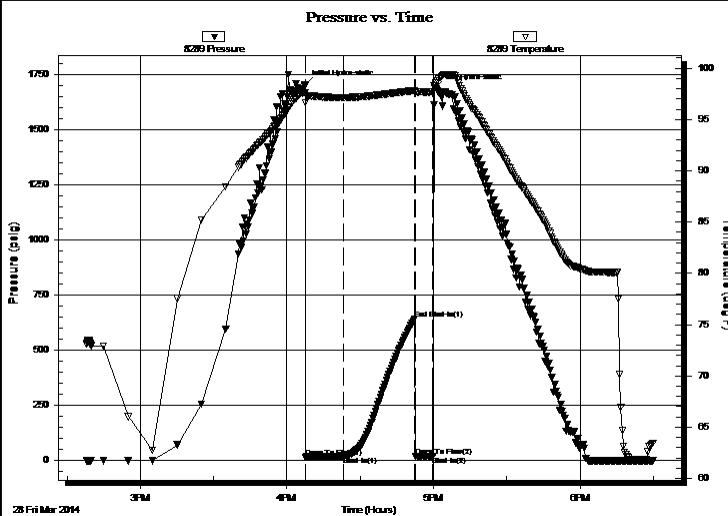
## GENERAL INFORMATION:

Formation: **LKC "H & I"**  
Deviated: No Whipstock: 2108.00 ft (KB)  
Time Tool Opened: 16:07:45  
Time Test Ended: 18:30:00  
Interval: **3449.00 ft (KB) To 3497.00 ft (KB) (TVD)**  
Total Depth: 3497.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jim Svaty  
Unit No: 76  
Reference Elevations: 2108.00 ft (KB)  
2103.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 8289 Outside

Press @ Run Depth: 17.58 psig @ 3450.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.03.28 End Date: 2014.03.28 Last Calib.: 2014.03.28  
Start Time: 14:38:02 End Time: 18:30:00 Time On Btm: 2014.03.28 @ 16:07:30  
Time Off Btm: 2014.03.28 @ 17:00:30

TEST COMMENT: 15-IFP- Surface Blow  
30-ISIP- No Blow  
7-FFP- No Blow  
Pulled



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.69	97.64	Initial Hydro-static
1	16.39	96.66	Open To Flow (1)
16	17.58	97.15	Shut-In(1)
45	641.00	97.83	End Shut-In(1)
46	18.67	97.63	Open To Flow (2)
53	19.34	97.70	Shut-In(2)
53	1688.37	98.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.01

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P. O. Box 47  
Great Bend KS 67530-0047  
ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
Job Ticket: 57576      **DST#: 5**  
Test Start: 2014.03.28 @ 14:38:00

## Mud and Cushion Information

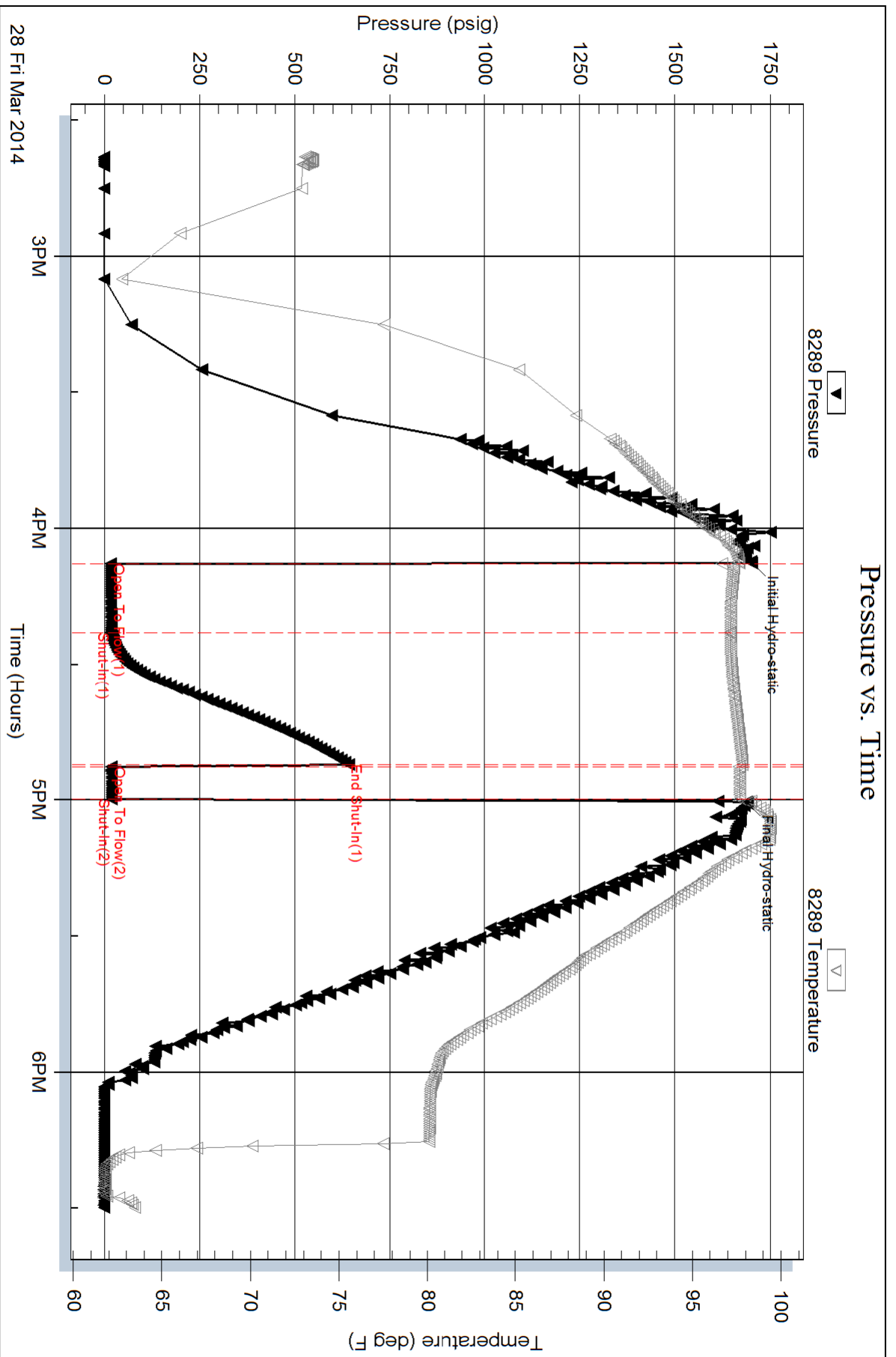
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
 P. O. Box 47  
 Great Bend KS 67530-0047  
 ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
 Job Ticket: 57577 **DST#: 6**  
 Test Start: 2014.03.29 @ 04:07:00

## GENERAL INFORMATION:

Formation: **LKC " J & K "**  
 Deviated: No Whipstock: 2108.00 ft (KB)  
 Time Tool Opened: 06:40:30  
 Time Test Ended: 09:27:00  
 Interval: **3495.00 ft (KB) To 3540.00 ft (KB) (TVD)**  
 Total Depth: 3540.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jim Svaty  
 Unit No: 76  
 Reference Elevations: 2108.00 ft (KB)  
 2103.00 ft (CF)  
 KB to GR/CF: 5.00 ft

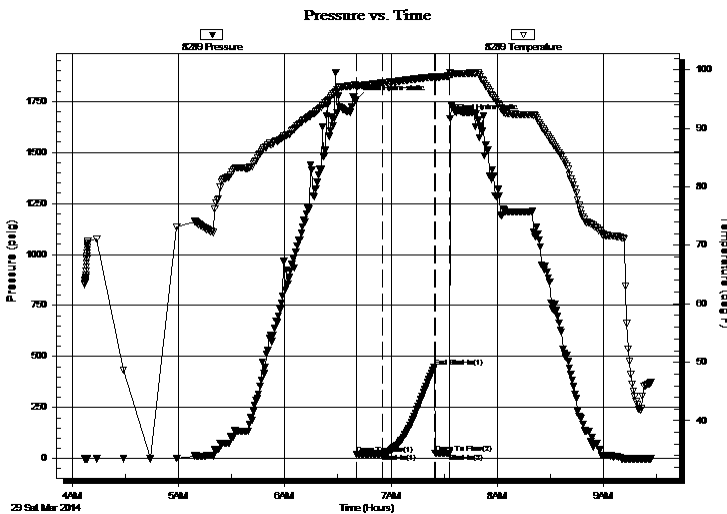
## Serial #: 8289

Outside

Press @ Run Depth: 23.68 psig @ 3505.00 ft (KB)  
 Start Date: 2014.03.29 End Date: 2014.03.29  
 Start Time: 04:07:02 End Time: 09:27:00  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.03.29  
 Time On Btm: 2014.03.29 @ 06:40:15  
 Time Off Btm: 2014.03.29 @ 07:33:15

TEST COMMENT: 15-IFP- Surface Blow Building to 3/4 in.  
 30-ISIP- No Blow  
 8-FFP- No Blow  
 Pulled

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1759.30	97.57	Initial Hydro-static
1	21.67	97.11	Open To Flow (1)
15	23.68	97.77	Shut-In(1)
44	449.48	98.84	End Shut-In(1)
45	25.16	98.71	Open To Flow (2)
53	25.94	98.97	Shut-In(2)
53	1666.01	99.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.01

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P. O. Box 47  
Great Bend KS 67530-0047  
ATTN: Dave Goldak

**33 6s 19w Rooks**  
**Bentz-Griebel 1-33**  
Job Ticket: 57577      **DST#: 6**  
Test Start: 2014.03.29 @ 04:07:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100%	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:

