



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1159070  
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: \_\_\_\_\_



1159070

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](mailto: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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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

<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> <input type="checkbox"/> Other <i>(Specify)</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	Gosselin 1-22
Doc ID	1159070

All Electric Logs Run

Dual Induction Log
Borehole Compensated Sonic Log
Dual Compensated Porosity Log
Microresistivity Log

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Home Office P.O. Box 32 Russell, KS 67665

No. 6922

Phone 785-483-2025

Cell 785-324-1041

Date	6-15-13	Sec.	27	Twp.	8	Range	20	County	Rooks	State	KS	On Location		Finish	12:45pm				
Lease								Location		Damar 2 <sup>nd</sup> 2 1/2 E Sinto									
Well No.								1-22		Owner									
Contractor								Mundin #8		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Type Job								Rotary Plug		Charge To									
Hole Size								7 7/8		T.D.		3620				Carmen Schmitt			
Csg.								Depth		Street									
Tbg. Size								Depth		City				State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered									
Meas Line								Displace		270 60/40 40/60 1/4 # F10									
EQUIPMENT								Common		162									
								Poz. Mix		108									
Pumptrk		1		No.		Cementer		Garry											
				No.		Helper		Cody											
Bulktrk				No.		Driver		Cody											
				No.		Driver		Cody											
Bulktrk		14		No.		Driver		Cody											
				No.		Driver		Cody											
JOB SERVICES & REMARKS								Hulls											
Remarks:								Salt											
Rat Hole								30SK		Flowseal		67#							
Mouse Hole								15SK		Kol-Seal									
Centralizers										Mud CLR 48									
Baskets										CFL-117 or CD110 CAF 38									
D/V or Port Collar								1st		3545		50SK							
								2nd		1590		25SK							
								3rd		860		100SK							
								4th		270		40SK							
								5th		40'		10SK + Plug							
														FLOAT EQUIPMENT					
														Guide Shoe					
														Centralizer					
														Baskets					
														AFU Inserts					
														Float Shoe					
														Latch Down					
														Pumptrk Charge					
																Mileage			
																37 plug			
																Tax			
																Discount			
																Total Charge			
Signature																			

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7909

Date	6-8-13	Sec.	22	Twp.	8	Range	20	County	Rooks	State	Ks	On Location		Finish	7:30 PM
Lease								Location		Zurich, Ks - N to Rd P, 5 1/4 W					
Gosselin								Well No.		1-22					
Contractor								Owner		5/1 into					
Murfin								8		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Surface							
Hole Size				T.D.				Charge To				Carmen Schmitt			
12 1/4"				218'											
Csg.				Depth				Street							
8 5/8"				218'											
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered				150 5x Common 3% CC			
15'				15'											
Meas Line				Displace				Common				150			
				12 3/4 BLS				2 1/2 Gal							
<b>EQUIPMENT</b>															
Pumptrk		No.		Cementer		Helper		Poz. Mix							
15				Nick											
Bulktrk		No.		Driver		Driver		Gel.							
12				David		L.		3							
Bulktrk		No.		Driver		Driver		Calcium							
p.m.				Rick				5							
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:				Cement did Circulate				Hulls							
								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling				158			
								Mileage							
<b>FLOAT EQUIPMENT</b>															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge				Surface			
								Mileage				37			
												Tax			
												Discount			
												Total Charge			
X Signature				[Signature]											



**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 6/11/2013  
 Invoice # **7909**

P.O.#:

Due Date: 7/11/2013

Division: *Russell*

# Invoice

**Contact:**

Carmen Schmitt Inc  
**Address/Job Location:**  
 Carmen Schmitt Inc  
 P.O. Box 47  
 Great Bend Ks 67530

**Reference:**

GOSELIN 1-22

**Description of Work:**

SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	150	\$ 2,102.29	Yes				
Pump Truck Mileage-Job to Nearest Camp	37	\$ 412.70	No				
Bulk Truck Matl-Material Service Charge	158	\$ 353.18	No				
Calcium Chloride	5	\$ 266.34	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	37	\$ 241.50	No				
Premium Gel (Bentonite)	3	\$ 54.59	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 4,451.14

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (667.67)

SubTotal for Taxable Items: \$ 2,059.73

SubTotal for Non-Taxable Items: \$ 1,723.74

Total: \$ 3,783.47

Tax: \$ 129.76

6.30% Rooks County Sales Tax

**Amount Due: \$ 3,913.23**

**Applied Payments:**

**Balance Due: \$ 3,913.23**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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18149.0001 Deck BFW  
 710/43  
 "Concrete Surf. 43g"  
 Well File



## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend KS 67530

ATTN: Derek Patterson

### **Gosselin #1-22**

#### **22-8s-20w Rooks,KS**

Start Date: 2013.06.11 @ 13:50:00

End Date: 2013.06.11 @ 21:34:30

Job Ticket #: 53895                      DST #: 1

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

Printed: 2013.06.18 @ 09:26:34



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

**22-8s-20w Rooks,KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53895

**DST#: 1**

ATTN: Derek Patterson

Test Start: 2013.06.11 @ 13:50:00

## GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:12:30

Time Test Ended: 21:34:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3164.00 ft (KB) To 3210.00 ft (KB) (TVD)**

Reference Elevations: 2036.00 ft (KB)

Total Depth: 3210.00 ft (KB) (TVD)

2031.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8319 Outside**

Press @ Run Depth: 121.86 psig @ 3165.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.11

End Date:

2013.06.11

Last Calib.:

2013.06.11

Start Time: 13:50:05

End Time:

21:34:29

Time On Btm:

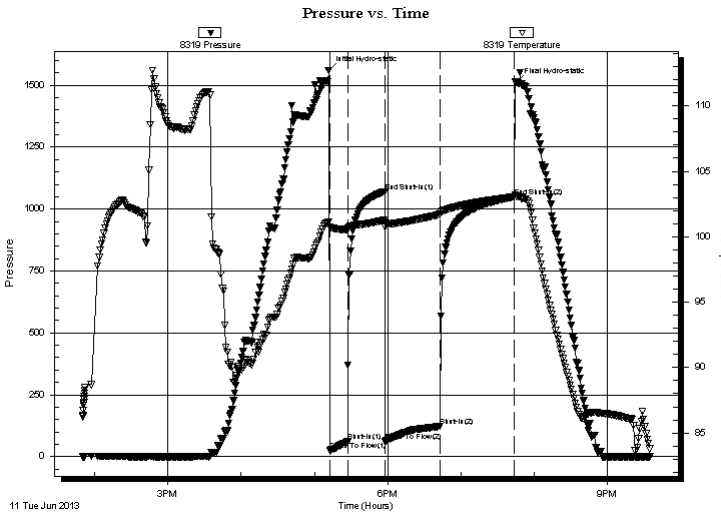
2013.06.11 @ 17:11:30

Time Off Btm:

2013.06.11 @ 19:45:30

**TEST COMMENT:** IF-3" blow  
ISI-No blow  
FF-4" blow  
FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1560.07	101.13	Initial Hydro-static
1	23.61	100.76	Open To Flow (1)
16	60.58	100.55	Shut-In(1)
46	1070.33	101.26	End Shut-In(1)
47	62.89	100.74	Open To Flow (2)
91	121.86	101.70	Shut-In(2)
152	1049.10	103.06	End Shut-In(2)
154	1511.48	103.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	Water	0.89
80.00	MCW 30%M 70%W	0.70
15.00	Oil Spotted Mud	0.21

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt, Inc.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53895

**DST#: 1**

ATTN: Derek Patterson

Test Start: 2013.06.11 @ 13:50:00

## Tool Information

Drill Pipe:	Length: 2962.00 ft	Diameter: 3.80 inches	Volume: 41.55 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.70 inches	Volume: 1.32 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3164.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3137.00	
Shut In Tool	5.00			3142.00	
Hydraulic tool	5.00			3147.00	
Jars	5.00			3152.00	
Safety Joint	2.00			3154.00	
Packer	5.00			3159.00	28.00 Bottom Of Top Packer
Packer	5.00			3164.00	
Stubb	1.00			3165.00	
Recorder	0.00	8166	Inside	3165.00	
Recorder	0.00	8319	Outside	3165.00	
Perforations	10.00			3175.00	
Change Over Sub	1.00			3176.00	
Drill Pipe	30.00			3206.00	
Change Over Sub	1.00			3207.00	
Bullnose	3.00			3210.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt, Inc.

**22-8s-20w Rooks,KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53895

**DST#: 1**

ATTN: Derek Patterson

Test Start: 2013.06.11 @ 13:50:00

### 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	Water	0.885
80.00	MCW 30%M 70%W	0.699
15.00	Oil Spotted Mud	0.210

Total Length: 220.00 ft      Total Volume: 1.794 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

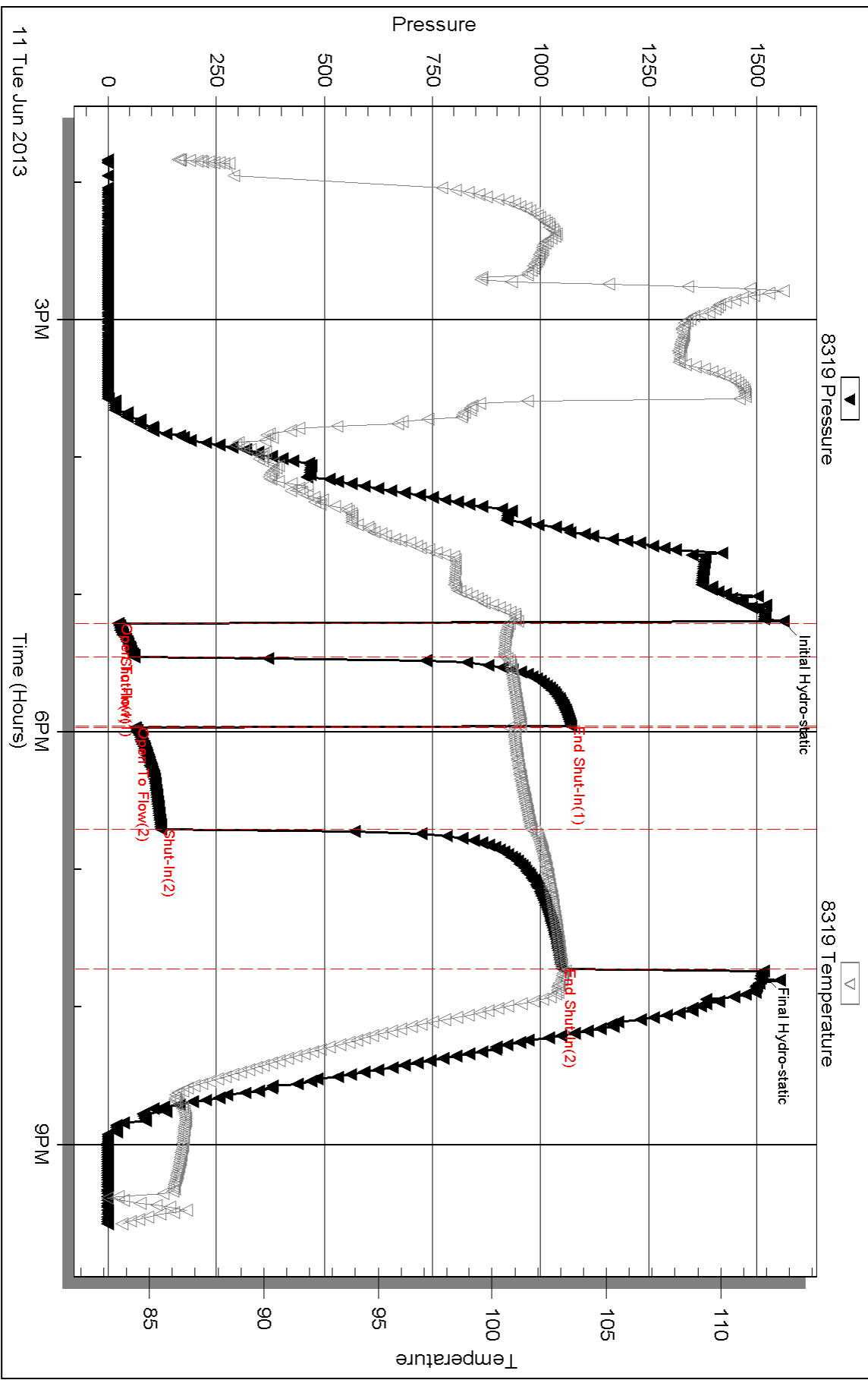
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



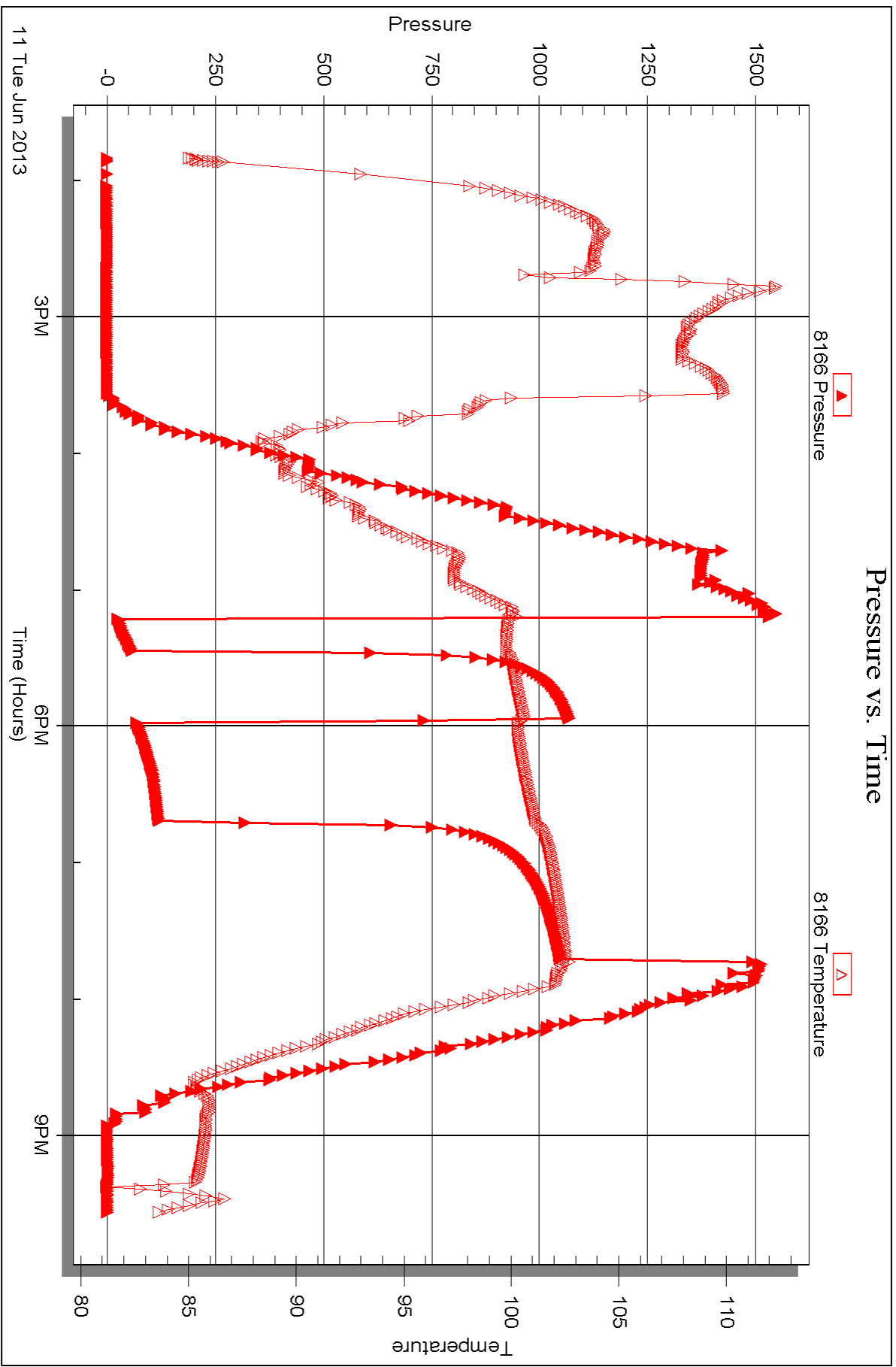
Serial #: 8166

Inside

Carmen Schmitt, Inc.

Gosselin #1-22

DST Test Number: 1





## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend KS 67530

ATTN: Derek Patterson

### **Gosselin #1-22**

#### **22-8s-20w Rooks,KS**

Start Date: 2013.06.12 @ 13:35:00

End Date: 2013.06.12 @ 19:11:00

Job Ticket #: 53896                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.18 @ 09:26:00



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53896

**DST#: 2**

ATTN: Derek Patterson

Test Start: 2013.06.12 @ 13:35:00

## GENERAL INFORMATION:

Formation: **KC "B-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:05:30

Time Test Ended: 19:11:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3288.00 ft (KB) To 3334.00 ft (KB) (TVD)**

Reference Elevations: 2036.00 ft (KB)

Total Depth: 3334.00 ft (KB) (TVD)

2031.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

## Serial #: 6753

Inside

Press @ Run Depth: 178.11 psig @ 3289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.12

End Date: 2013.06.12

Last Calib.: 2013.06.12

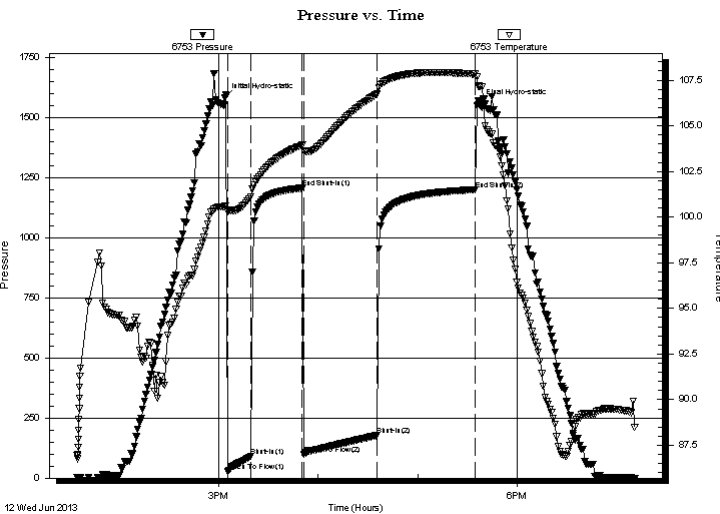
Start Time: 13:35:05

End Time: 19:10:59

Time On Btm: 2013.06.12 @ 15:04:00

Time Off Btm: 2013.06.12 @ 17:37:00

TEST COMMENT: IF-5" blow  
ISI-No blow  
FF-BOB in 38 min  
FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1585.16	100.59	Initial Hydro-static
2	26.58	100.28	Open To Flow (1)
16	91.28	101.12	Shut-In(1)
47	1207.23	103.94	End Shut-In(1)
48	100.25	103.62	Open To Flow (2)
92	178.11	106.74	Shut-In(2)
151	1200.69	107.83	End Shut-In(2)
153	1557.68	107.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	Water	1.31
120.00	SMCW 85%W 15%M	1.68
15.00	MCW 60%W 40%M	0.21

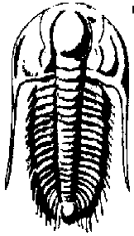
\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt, Inc.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53896

**DST#: 2**

ATTN: Derek Patterson

Test Start: 2013.06.12 @ 13:35:00

## Tool Information

Drill Pipe:	Length: 3090.00 ft	Diameter: 3.80 inches	Volume: 43.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.70 inches	Volume: 1.32 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3288.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 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			3261.00	
Shut In Tool	5.00			3266.00	
Hydraulic tool	5.00			3271.00	
Jars	5.00			3276.00	
Safety Joint	2.00			3278.00	
Packer	5.00			3283.00	28.00 Bottom Of Top Packer
Packer	5.00			3288.00	
Stubb	1.00			3289.00	
Recorder	0.00	6753	Inside	3289.00	
Recorder	0.00	8319	Outside	3289.00	
Perforations	10.00			3299.00	
Change Over Sub	1.00			3300.00	
Drill Pipe	30.00			3330.00	
Change Over Sub	1.00			3331.00	
Bullnose	3.00			3334.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**22-8s-20w Rooks,KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53896

**DST#: 2**

ATTN: Derek Patterson

Test Start: 2013.06.12 @ 13:35:00

## 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:

60000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
185.00	Water	1.310
120.00	SMCW 85%W 15%M	1.676
15.00	MCW 60%W 40%M	0.210

Total Length: 320.00 ft      Total Volume: 3.196 bbl

Num Fluid Samples: 0

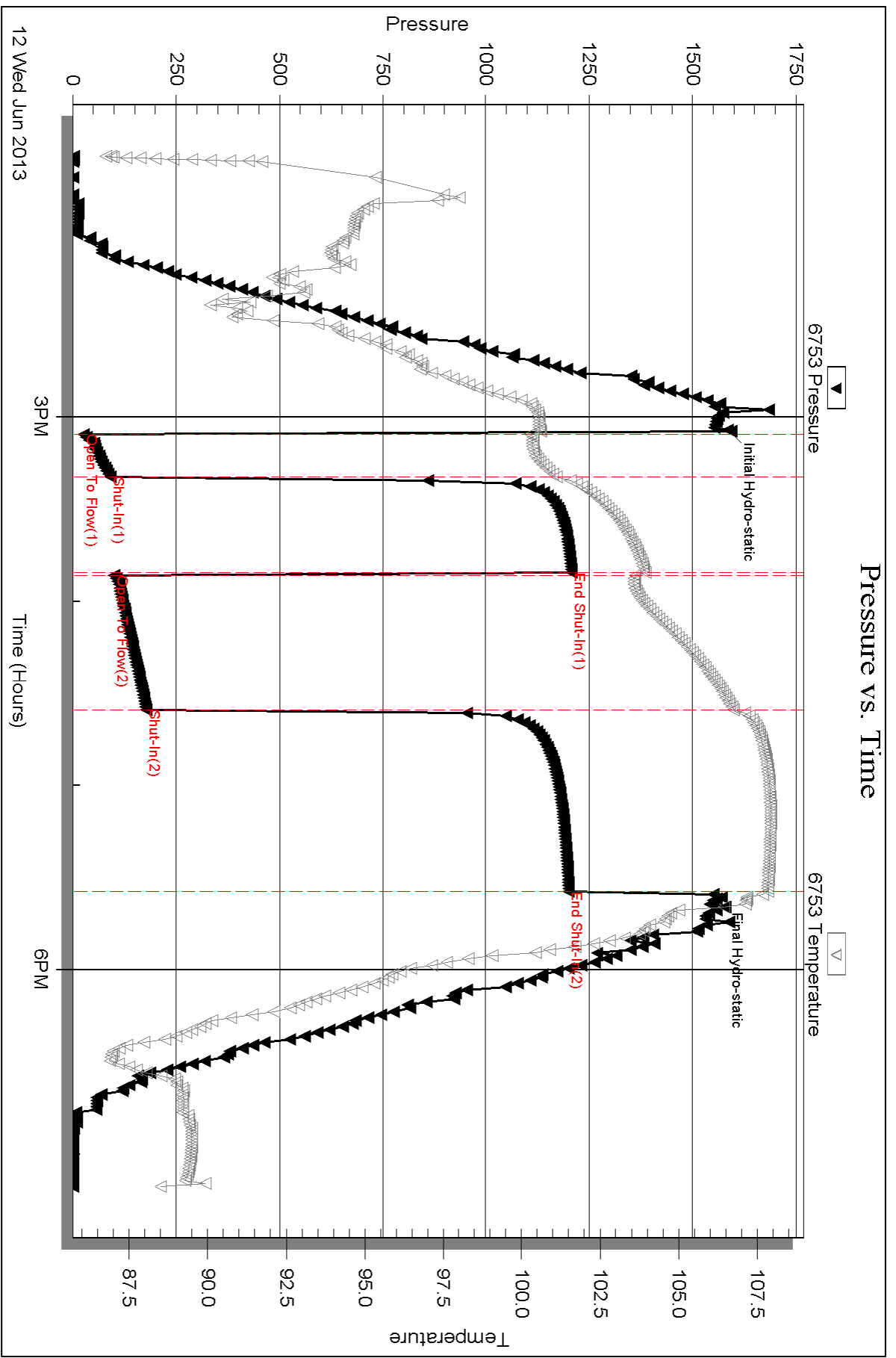
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

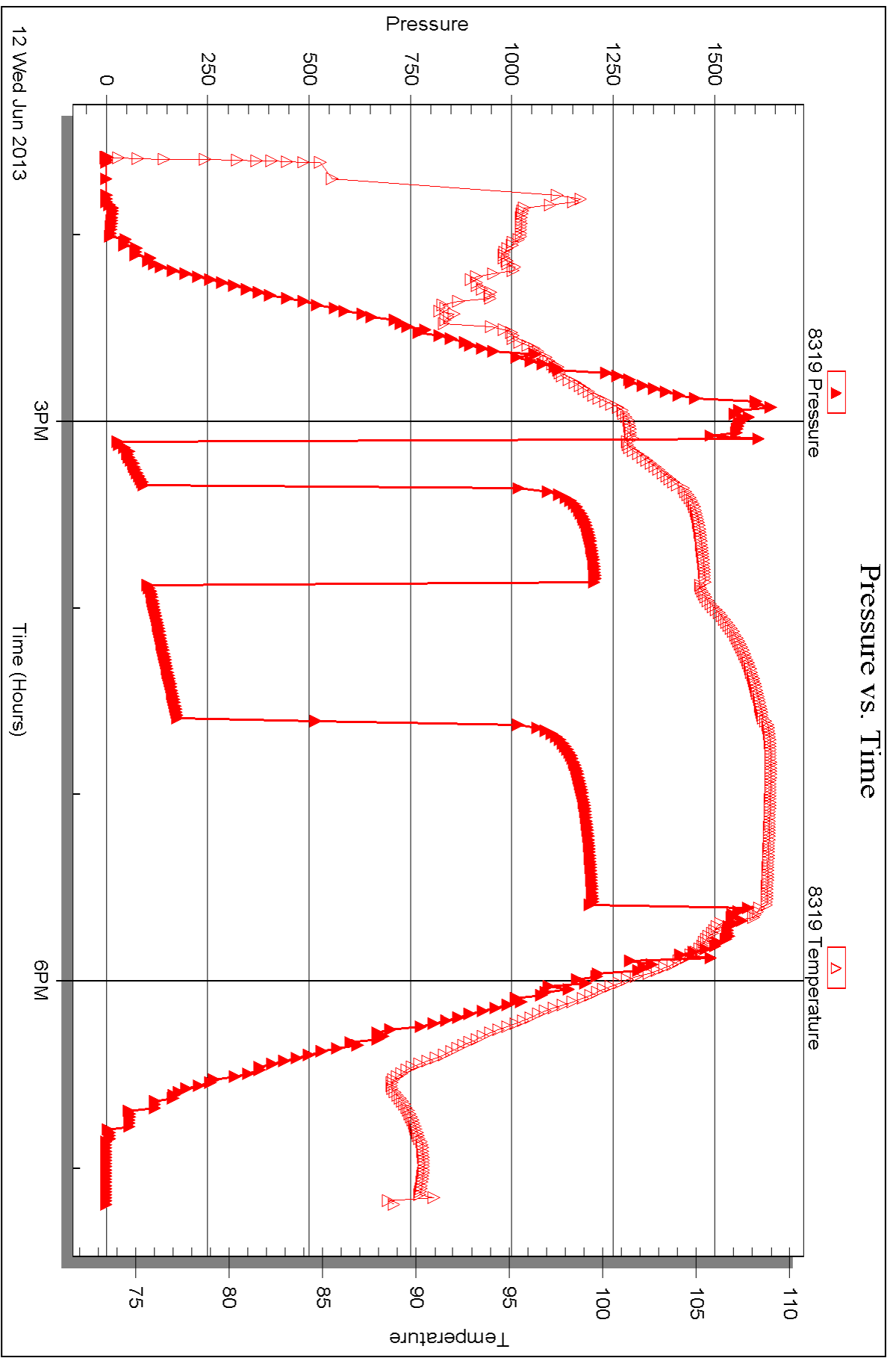


Serial #: 8319

Outside Carmen Schmitt, Inc.

Gosselin #1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 53896

Printed: 2013.06.18 @ 09:26:03



## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend KS 67530

ATTN: Derek Patterson

### **Gosselin #1-22**

#### **22-8s-20w Rooks,KS**

Start Date: 2013.06.13 @ 11:20:00

End Date: 2013.06.13 @ 16:05:30

Job Ticket #: 53897                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.18 @ 09:25:22

Carmen Schmitt, Inc. 22-8s-20w Rooks,KS Gosselin #1-22 DST # 3 KC "H-J" 2013.06.13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53897

**DST#: 3**

ATTN: Derek Patterson

Test Start: 2013.06.13 @ 11:20:00

## GENERAL INFORMATION:

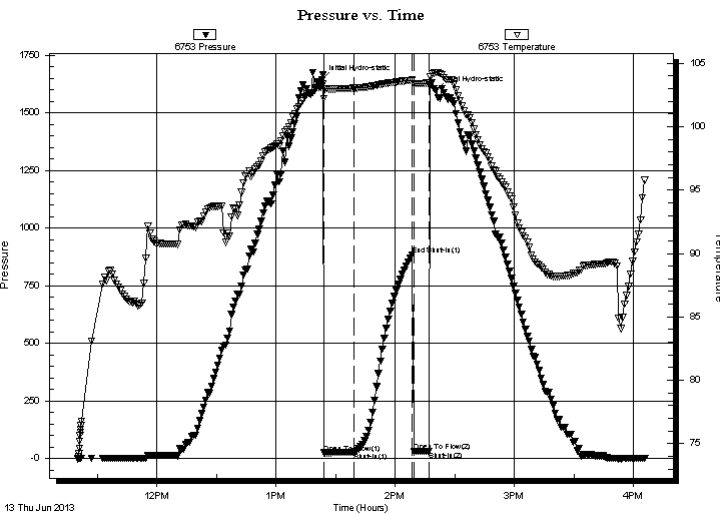
Formation: **KC "H-J"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 13:24:00  
 Tester: Brett Dickinson  
 Time Test Ended: 16:05:30  
 Unit No: 59  
 Interval: **3382.00 ft (KB) To 3448.00 ft (KB) (TVD)**  
 Reference Elevations: 2036.00 ft (KB)  
 Total Depth: 3448.00 ft (KB) (TVD)  
 2031.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

## Serial #: 6753

Inside

Press @ Run Depth: 28.45 psig @ 3383.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.13 End Date: 2013.06.13 Last Calib.: 2013.06.13  
 Start Time: 11:20:05 End Time: 16:05:29 Time On Btm: 2013.06.13 @ 13:23:00  
 Time Off Btm: 2013.06.13 @ 14:20:30

TEST COMMENT: IF-1/2" blow  
 IS-No blow  
 FF-Very weak surface blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.61	103.23	Initial Hydro-static
1	25.36	102.24	Open To Flow (1)
16	28.45	103.05	Shut-In(1)
46	883.72	103.67	End Shut-In(1)
47	31.05	103.42	Open To Flow (2)
54	33.54	103.45	Shut-In(2)
58	1598.87	104.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 2%O 98%M	0.04

\* 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.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53897

**DST#: 3**

ATTN: Derek Patterson

Test Start: 2013.06.13 @ 11:20:00

## Tool Information

Drill Pipe:	Length: 3188.00 ft	Diameter: 3.80 inches	Volume: 44.72 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.70 inches	Volume: 1.32 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3382.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 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			3355.00	
Shut In Tool	5.00			3360.00	
Hydraulic tool	5.00			3365.00	
Jars	5.00			3370.00	
Safety Joint	2.00			3372.00	
Packer	5.00			3377.00	28.00 Bottom Of Top Packer
Packer	5.00			3382.00	
Stubb	1.00			3383.00	
Recorder	0.00	6753	Inside	3383.00	
Recorder	0.00	8319	Outside	3383.00	
Perforations	30.00			3413.00	
Change Over Sub	1.00			3414.00	
Drill Pipe	30.00			3444.00	
Change Over Sub	1.00			3445.00	
Bullnose	3.00			3448.00	66.00 Bottom Packers & Anchor

**Total Tool Length: 94.00**





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**22-8s-20w Rooks,KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53897

**DST#: 3**

ATTN: Derek Patterson

Test Start: 2013.06.13 @ 11:20:00

**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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	VSOCM 2%O 98%M	0.035

Total Length: 5.00 ft      Total Volume: 0.035 bbl

Num Fluid Samples: 0

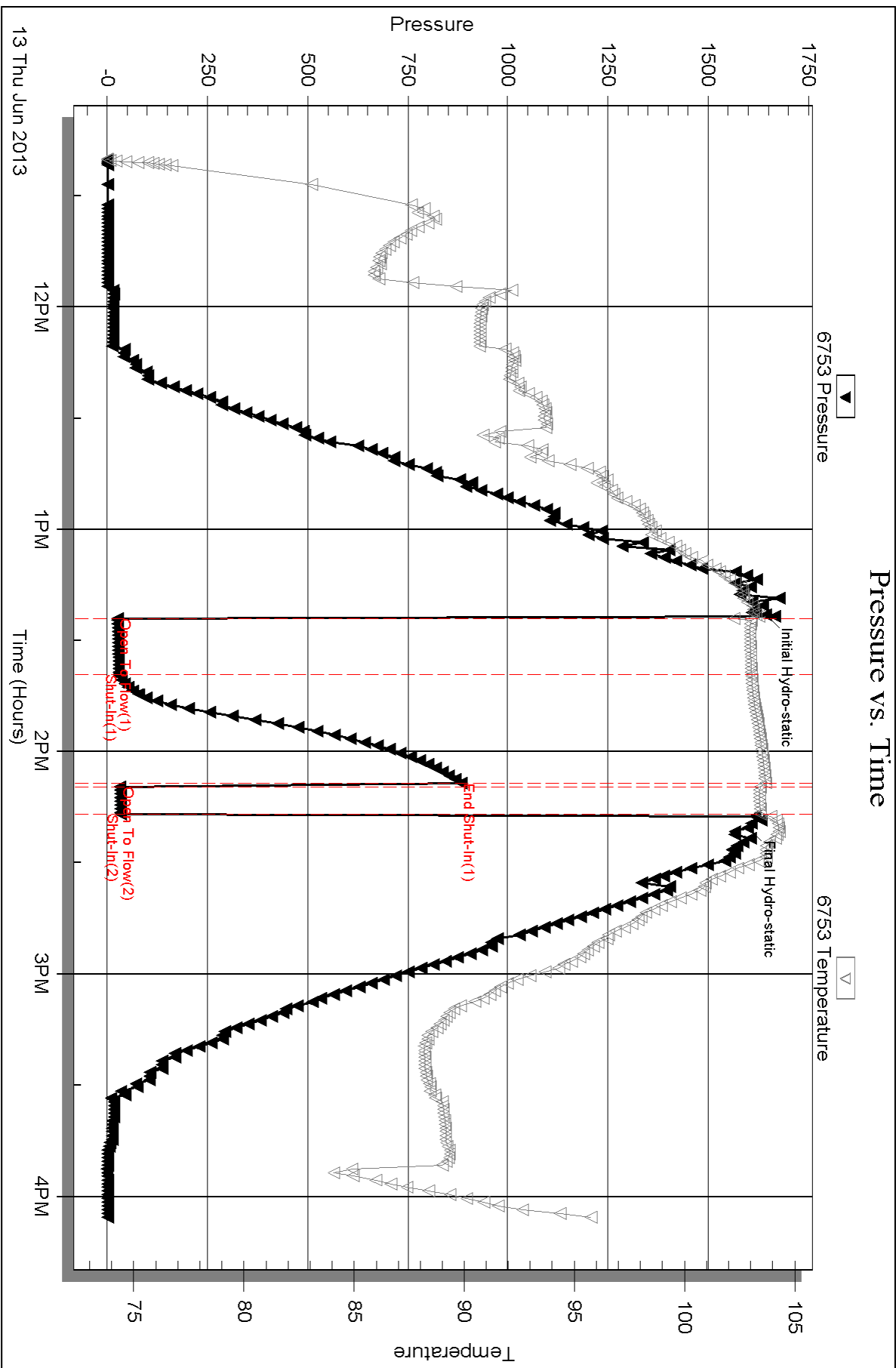
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

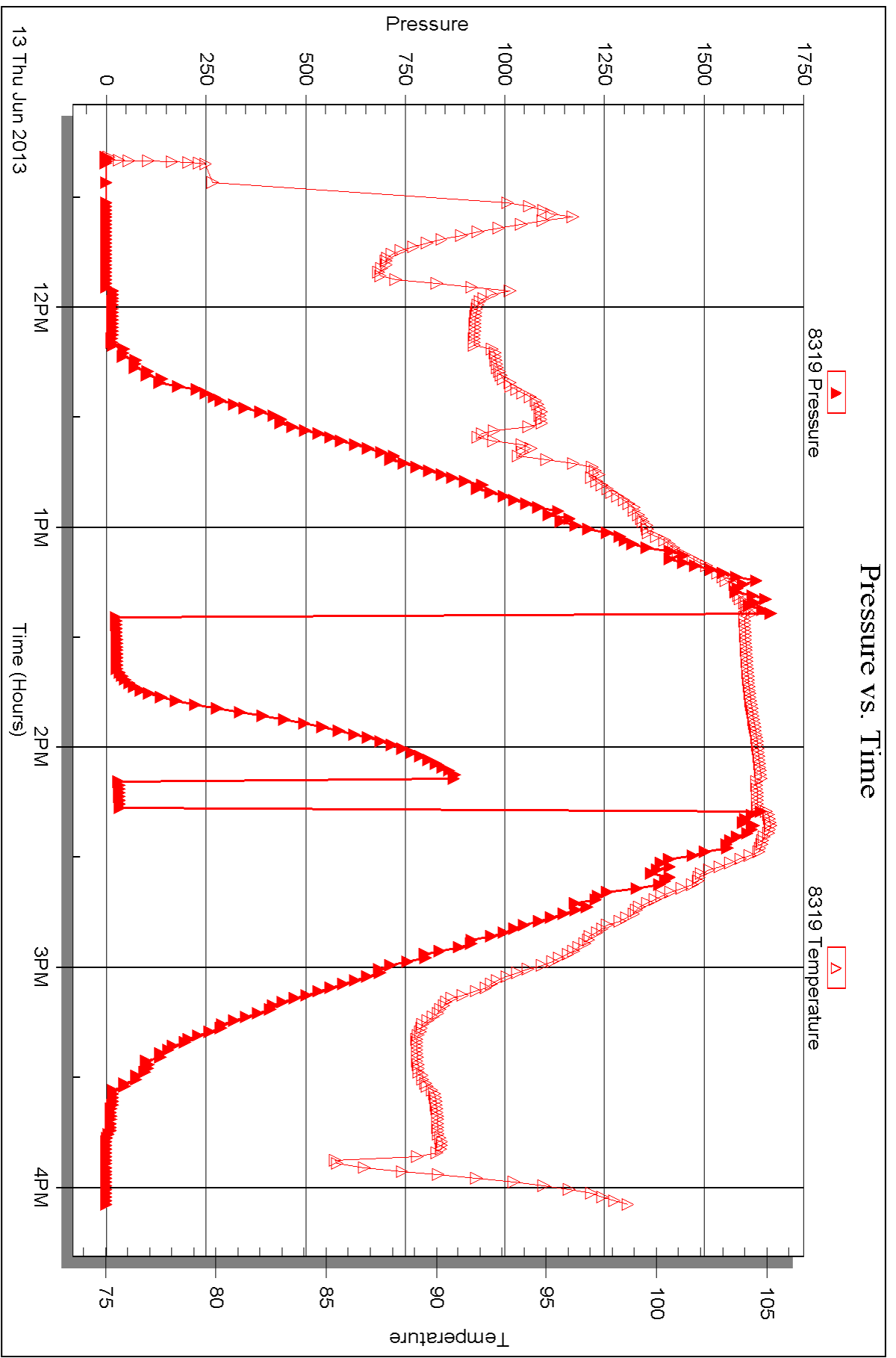


Serial #: 8319

Outside Carmen Schmitt, Inc.

Gosselin #1-22

DST Test Number: 3





## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend KS 67530

ATTN: Derek Patterson

### **Gosselin #1-22**

### **22-8s-20w Rooks,KS**

Start Date: 2013.06.13 @ 23:15:00

End Date: 2013.06.14 @ 03:14:00

Job Ticket #: 53898                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.18 @ 09:24:29

Carmen Schmitt, Inc. 22-8s-20w Rooks,KS Gosselin #1-22 DST # 4 KC "K" 2013.06.13



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53898

**DST#: 4**

ATTN: Derek Patterson

Test Start: 2013.06.13 @ 23:15:00

## GENERAL INFORMATION:

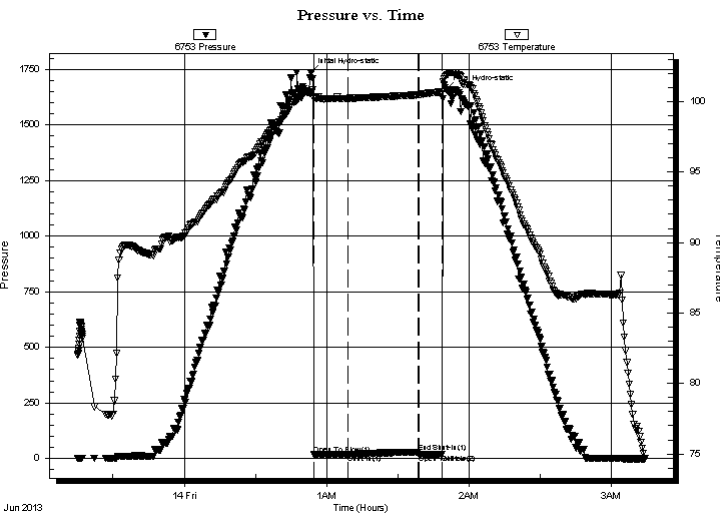
Formation: **KC "K"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:54:30  
 Time Test Ended: 03:14:00  
 Interval: **3445.00 ft (KB) To 3470.00 ft (KB) (TVD)**  
 Total Depth: 3470.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2036.00 ft (KB)  
 2031.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6753

Inside

Press @ Run Depth: 18.69 psig @ 3446.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.13 End Date: 2013.06.14 Last Calib.: 2013.06.14  
 Start Time: 23:15:05 End Time: 03:14:00 Time On Btm: 2013.06.14 @ 00:53:30  
 Time Off Btm: 2013.06.14 @ 01:50:30

TEST COMMENT: IF-Very weak surface blow  
 IS-No blow  
 FF-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.35	100.64	Initial Hydro-static
1	18.23	100.26	Open To Flow (1)
16	18.69	100.23	Shut-In(1)
45	29.28	100.48	End Shut-In(1)
46	18.82	100.48	Open To Flow (2)
55	18.98	100.68	Shut-In(2)
57	1659.16	101.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Oil spotted Mud	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.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53898

**DST#: 4**

ATTN: Derek Patterson

Test Start: 2013.06.13 @ 23:15:00

## Tool Information

Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.70 inches	Volume: 1.32 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3445.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3418.00	
Shut In Tool	5.00			3423.00	
Hydraulic tool	5.00			3428.00	
Jars	5.00			3433.00	
Safety Joint	2.00			3435.00	
Packer	5.00			3440.00	28.00 Bottom Of Top Packer
Packer	5.00			3445.00	
Stubb	1.00			3446.00	
Recorder	0.00	6753	Inside	3446.00	
Recorder	0.00	8319	Outside	3446.00	
Perforations	21.00			3467.00	
Bullnose	3.00			3470.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**22-8s-20w Rooks,KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53898

**DST#: 4**

ATTN: Derek Patterson

Test Start: 2013.06.13 @ 23:15:00

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Oil spotted Mud	0.014

Total Length: 2.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

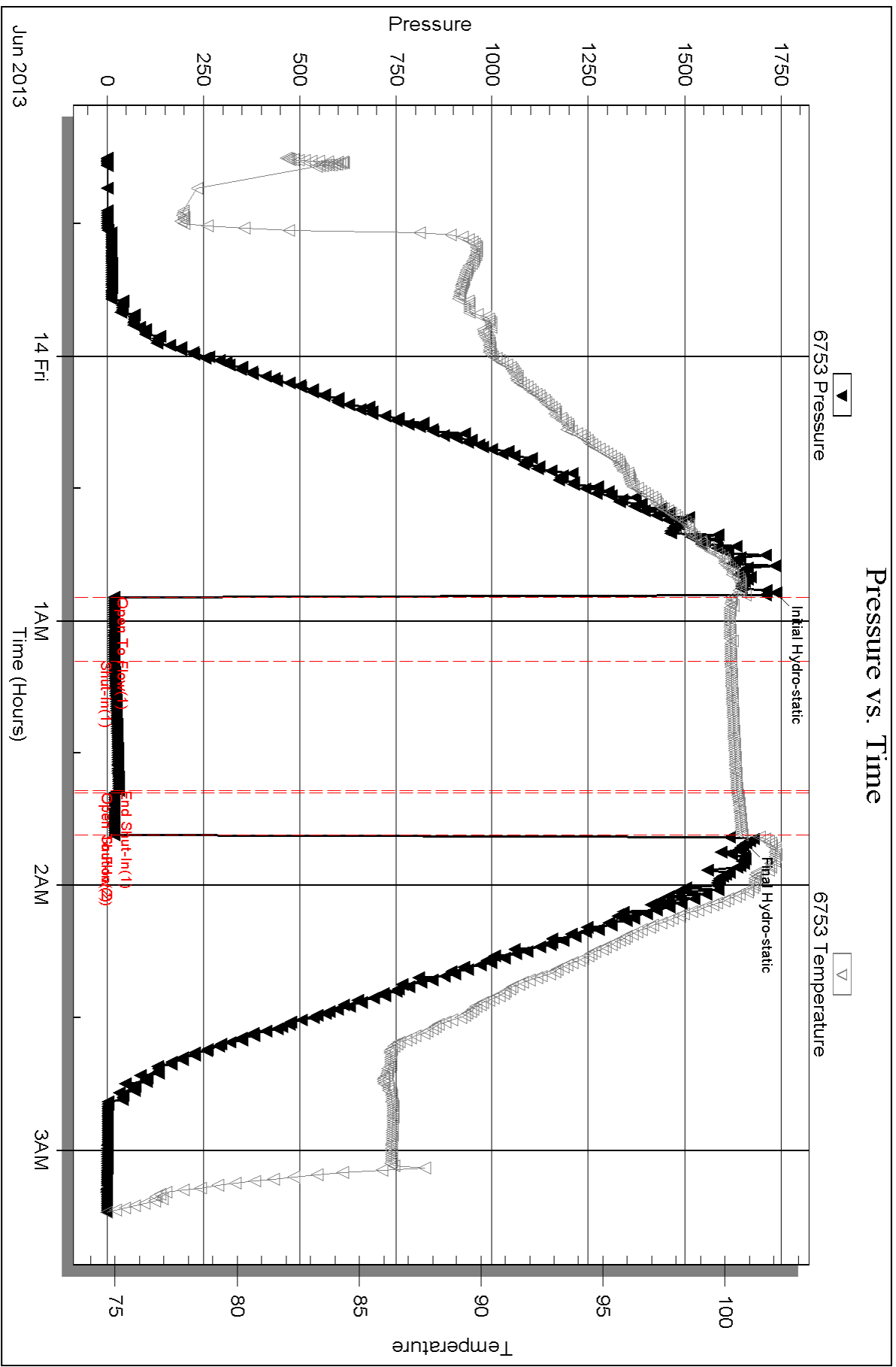
Serial #:

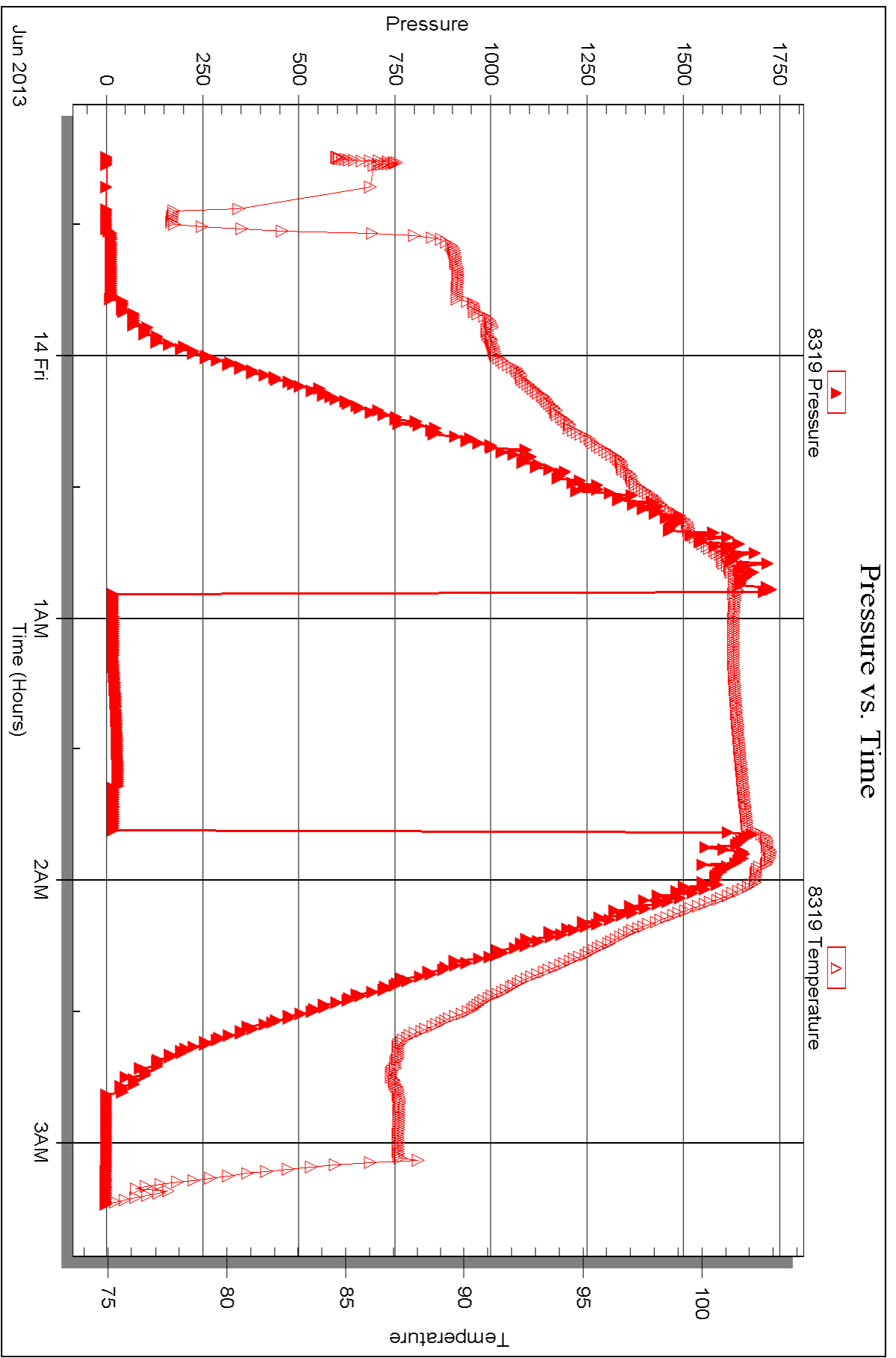
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend KS 67530

ATTN: Derek Patterson

### **Gosselin #1-22**

### **22-8s-20w Rooks,KS**

Start Date: 2013.06.14 @ 13:05:00

End Date: 2013.06.14 @ 17:51:00

Job Ticket #: 53899                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.18 @ 09:22:53

Carmen Schmitt, Inc. 22-8s-20w Rooks,KS Gosselin #1-22 DST # 5 Cong Sd/ Arbuckle 2013.06.14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53899

**DST#: 5**

ATTN: Derek Patterson

Test Start: 2013.06.14 @ 13:05:00

## GENERAL INFORMATION:

Formation: **Cong Sd/ Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:09:00

Time Test Ended: 17:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3484.00 ft (KB) To 3584.00 ft (KB) (TVD)**

Reference Elevations: 2036.00 ft (KB)

Total Depth: 3544.00 ft (KB) (TVD)

2031.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6753**

**Inside**

Press @ Run Depth: 24.63 psig @ 3485.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.14

End Date:

2013.06.14

Last Calib.: 2013.06.14

Start Time: 13:05:05

End Time:

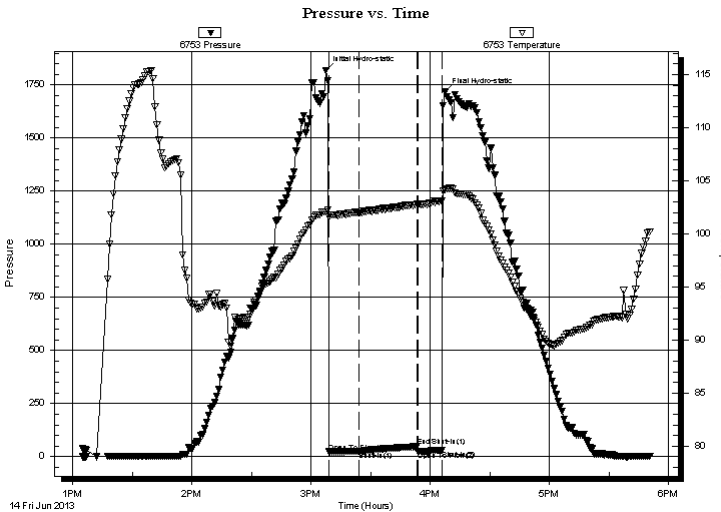
17:50:59

Time On Btm: 2013.06.14 @ 15:07:30

Time Off Btm: 2013.06.14 @ 16:07:30

**TEST COMMENT:** IF-Very weak surface blow died in 12 min  
IS-No blow  
FF-No blow flush tool No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1818.28	102.05	Initial Hydro-static
2	22.94	101.62	Open To Flow (1)
17	24.63	101.95	Shut-In(1)
46	47.84	102.83	End Shut-In(1)
47	25.43	102.83	Open To Flow (2)
59	31.31	103.13	Shut-In(2)
60	1715.91	104.16	Final Hydro-static

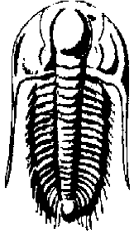
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.04

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc.  
 PO Box 47  
 Great Bend KS 67530  
 ATTN: Derek Patterson

**22-8s-20w Rooks,KS**  
**Gosselin #1-22**  
 Job Ticket: 53899 **DST#: 5**  
 Test Start: 2013.06.14 @ 13:05:00

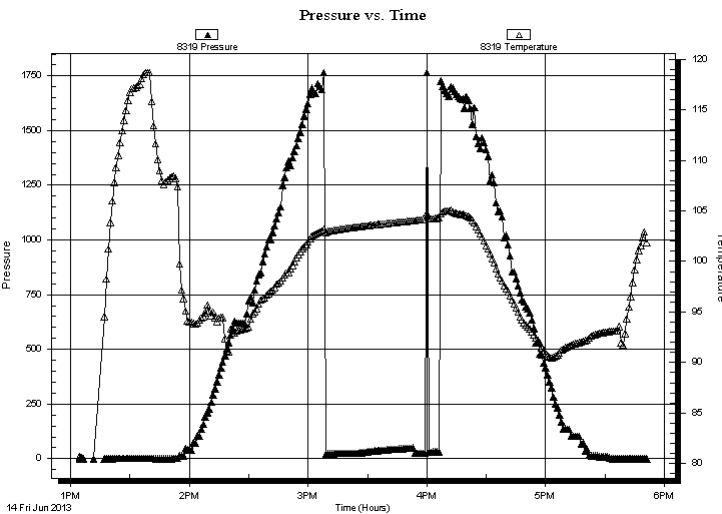
**GENERAL INFORMATION:**

Formation: <b>Cong Sd/ Arbuckle</b>		
Deviated: No Whipstock: ft (KB)		Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 15:09:00		Tester: Brett Dickinson
Time Test Ended: 17:51:00		Unit No: 59
<b>Interval: 3484.00 ft (KB) To 3584.00 ft (KB) (TVD)</b>		Reference Elevations: 2036.00 ft (KB)
Total Depth: 3544.00 ft (KB) (TVD)		2031.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 5.00 ft

**Serial #: 8319 Outside**

Press @RunDepth: psig @ 3485.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.06.14	End Date: 2013.06.14
Start Time: 13:04:35	End Time: 17:50:59
	Last Calib.: 2013.06.14
	Time On Btm:
	Time Off Btm:

**TEST COMMENT:** IF-Very weak surface blow died in 12 min  
 IS-No blow  
 FF-No blow flush tool No blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.04

\* 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.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53899

**DST#: 5**

ATTN: Derek Patterson

Test Start: 2013.06.14 @ 13:05:00

## Tool Information

Drill Pipe:	Length: 3284.00 ft	Diameter: 3.80 inches	Volume: 46.07 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.70 inches	Volume: 1.32 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	52000.00 lb
Drill Pipe Above KB:	14.00 ft			Final	52000.00 lb
Depth to Top Packer:	3484.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	88.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3457.00	
Shut In Tool	5.00			3462.00	
Hydraulic tool	5.00			3467.00	
Jars	5.00			3472.00	
Safety Joint	2.00			3474.00	
Packer	5.00			3479.00	28.00 Bottom Of Top Packer
Packer	5.00			3484.00	
Stubb	1.00			3485.00	
Recorder	0.00	6753	Inside	3485.00	
Recorder	0.00	8319	Outside	3485.00	
Perforations	24.00			3509.00	
Change Over Sub	1.00			3510.00	
Drill Pipe	30.00			3540.00	
Change Over Sub	1.00			3541.00	
Bullnose	3.00			3544.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53899

**DST#: 5**

ATTN: Derek Patterson

Test Start: 2013.06.14 @ 13:05:00

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.035

Total Length: 5.00 ft      Total Volume: 0.035 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

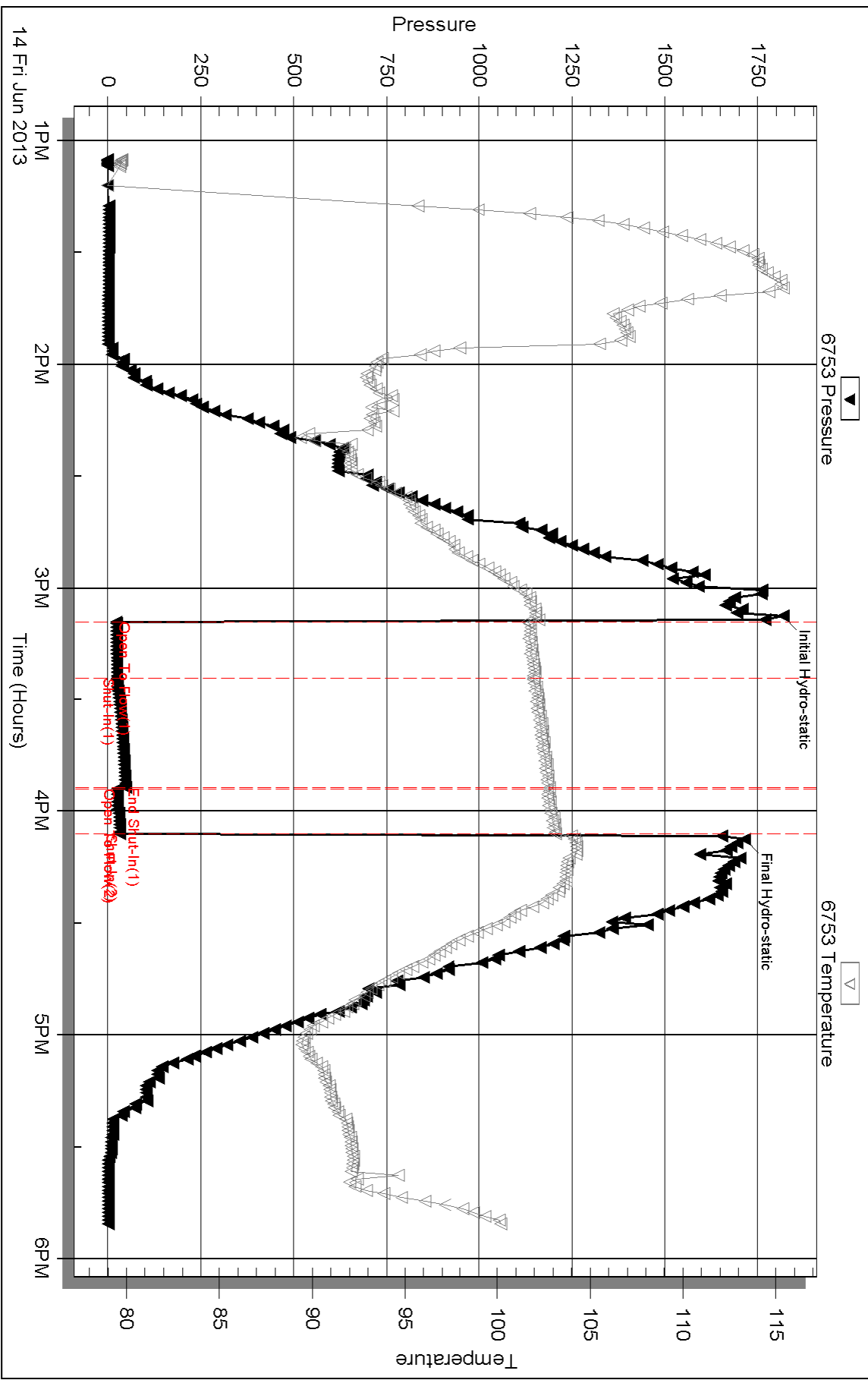
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



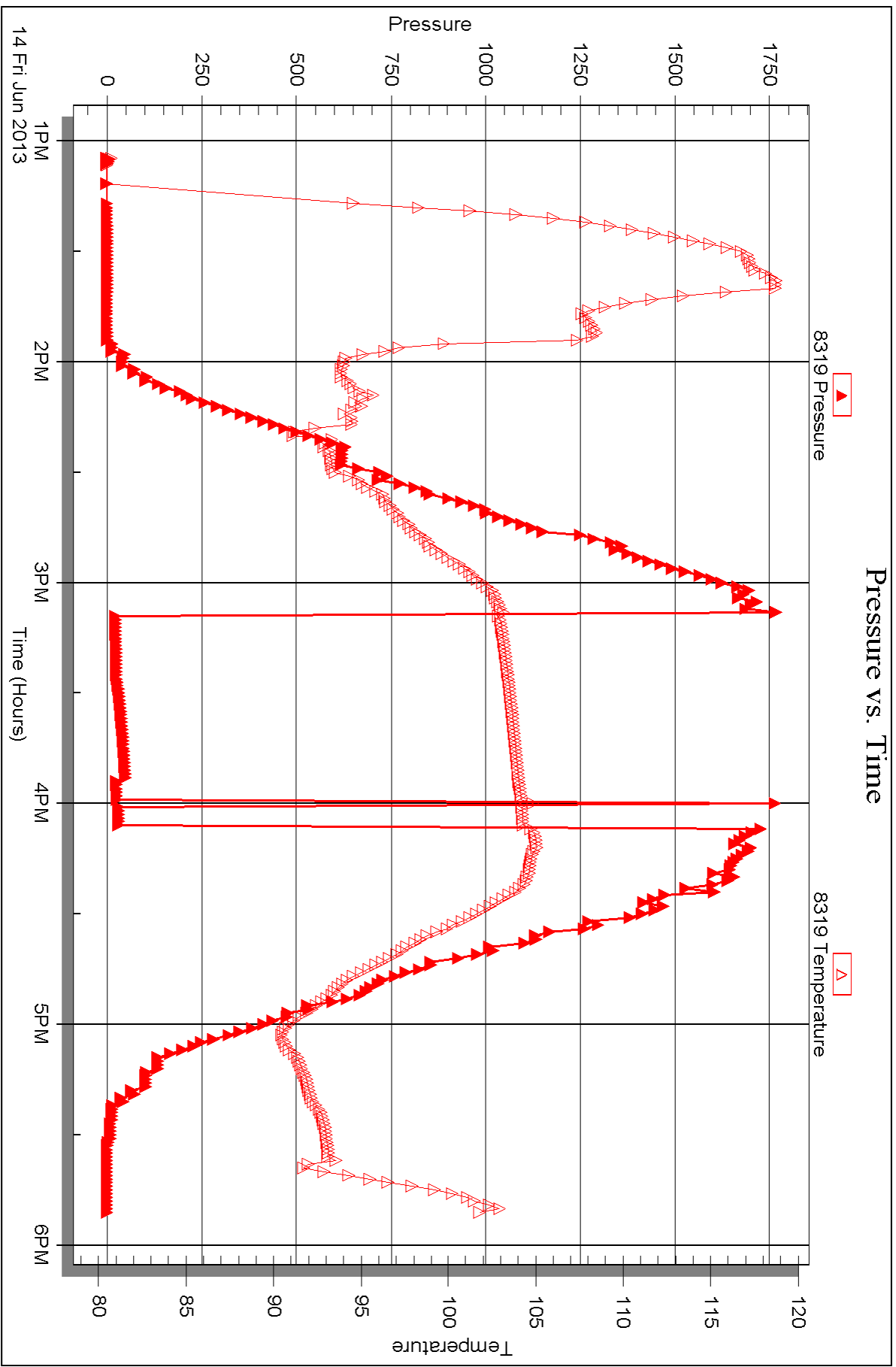


Serial #: 8319

Outside Carmen Schmitt, Inc.

Gosselin #1-22

DST Test Number: 5





## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend KS 67530

ATTN: Derek Patterson

### **Gosselin #1-22**

#### **22-8s-20w Rooks,KS**

Start Date: 2013.06.15 @ 11:50:00

End Date: 2013.06.15 @ 17:46:30

Job Ticket #: 53900                      DST #: 6

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

Printed: 2013.06.18 @ 09:18:57



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53900

**DST#: 6**

ATTN: Derek Patterson

Test Start: 2013.06.15 @ 11:50:00

## GENERAL INFORMATION:

Formation: **KC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:41:30

Time Test Ended: 17:46:30

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3342.00 ft (KB) To 3355.00 ft (KB) (TVD)**

Reference Elevations: 2036.00 ft (KB)

Total Depth: 3622.00 ft (KB) (TVD)

2031.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6753 Outside**

Press @ Run Depth: 810.44 psig @ 3351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.15

End Date: 2013.06.15

Last Calib.: 2013.06.15

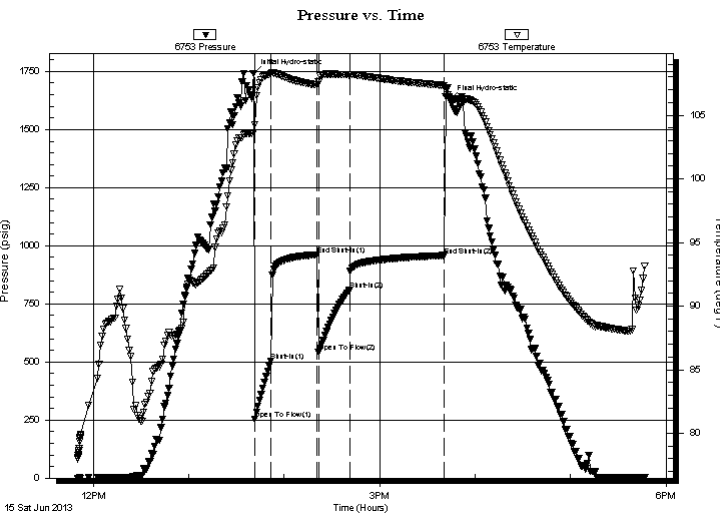
Start Time: 11:50:05

End Time: 17:46:29

Time On Btm: 2013.06.15 @ 13:40:30

Time Off Btm: 2013.06.15 @ 15:44:00

**TEST COMMENT:** IF-BOB in 1min  
ISI-1" blow  
FF-BOB in 1min  
FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.44	103.61	Initial Hydro-static
1	252.88	104.24	Open To Flow (1)
11	504.81	108.25	Shut-In(1)
40	962.22	107.37	End Shut-In(1)
41	541.74	107.61	Open To Flow (2)
61	810.44	108.16	Shut-In(2)
120	958.33	107.35	End Shut-In(2)
124	1627.95	106.30	Final Hydro-static

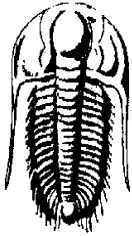
## Recovery

Length (ft)	Description	Volume (bbl)
1510.00	Gassy Water	19.89
125.00	Mcw 80%W 20%M	1.75
35.00	Wcm 35%W 65%M	0.49

## Gas Rates

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

\* Recovery from multiple tests



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

22-8s-20w Rooks,KS

PO Box 47  
Great Bend KS 67530

Gosselin #1-22

Job Ticket: 53900

DST#: 6

ATTN: Derek Patterson

Test Start: 2013.06.15 @ 11:50:00

### GENERAL INFORMATION:

Formation: **KC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:41:30

Time Test Ended: 17:46:30

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3342.00 ft (KB) To 3355.00 ft (KB) (TVD)**

Reference Elevations: 2036.00 ft (KB)

Total Depth: 3622.00 ft (KB) (TVD)

2031.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8319**      **Inside**

Press @ RunDepth:      psig @      3351.00 ft (KB)

Capacity:      8000.00 psig

Start Date:      2013.06.15

End Date:      2013.06.15

Last Calib.:      2013.06.15

Start Time:      11:50:05

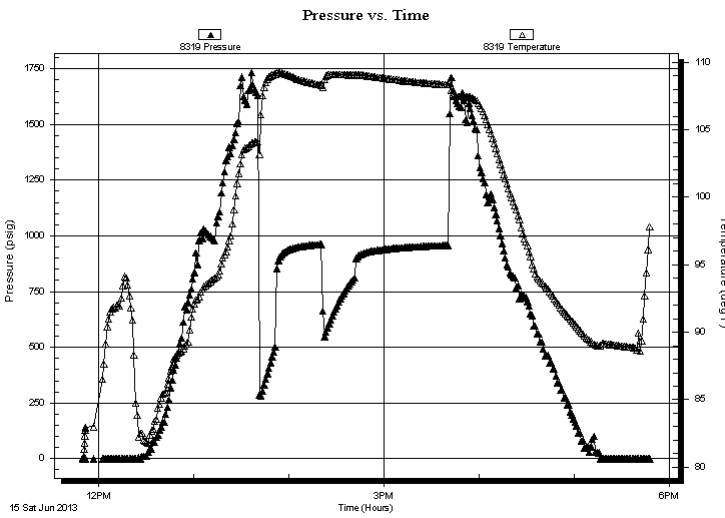
End Time:      17:47:29

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF-BOB in 1min  
ISI-1" blow  
FF-BOB in 1min  
FSI-No blow

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
1510.00	Gassy Water	19.89
125.00	Mcw 80%W 20%M	1.75
35.00	Wcm 35%W 65%M	0.49

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

**22-8s-20w Rooks, KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53900

**DST#: 6**

ATTN: Derek Patterson

Test Start: 2013.06.15 @ 11:50:00

### GENERAL INFORMATION:

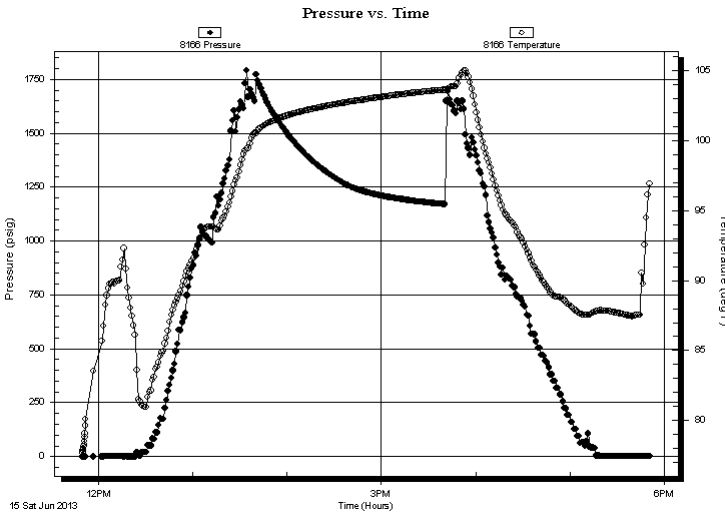
Formation: **KC "F"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:41:30  
 Time Test Ended: 17:46:30  
 Interval: **3342.00 ft (KB) To 3355.00 ft (KB) (TVD)**  
 Total Depth: 3622.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2036.00 ft (KB)  
 2031.00 ft (CF)  
 KB to GR/CF: 5.00 ft

### Serial #: 8166 Below (Straddle)

Press @ Run Depth: psig @ 3360.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.15 End Date: 2013.06.15 Last Calib.: 2013.06.15  
 Start Time: 11:50:05 End Time: 17:50:29 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-BOB in 1min  
 ISI-1" blow  
 FF-BOB in 1min  
 FSI-No blow

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
1510.00	Gassy Water	19.89
125.00	Mcw 80%W 20%M	1.75
35.00	Wcm 35%W 65%M	0.49

\* 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.

**22-8s-20w Rooks,KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53900

**DST#: 6**

ATTN: Derek Patterson

Test Start: 2013.06.15 @ 11:50:00

## Tool Information

Drill Pipe:	Length: 3157.00 ft	Diameter: 3.80 inches	Volume: 44.28 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.70 inches	Volume: 1.32 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3342.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	3355.00 ft			
Interval between Packers:	13.00 ft			
Tool Length:	311.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3315.00	
Shut In Tool	5.00			3320.00	
Hydraulic tool	5.00			3325.00	
Jars	5.00			3330.00	
Safety Joint	3.00			3333.00	
Packer	4.00			3337.00	28.00 Bottom Of Top Packer
Packer	5.00			3342.00	
Stubb	1.00			3343.00	
Perforations	8.00			3351.00	
Recorder	0.00	8319	Inside	3351.00	
Recorder	0.00	6753	Outside	3351.00	
Blank Off Sub	4.00			3355.00	13.00 Tool Interval
Packer	4.00			3359.00	
Stubb	1.00			3360.00	
Recorder	0.00	8166	Below	3360.00	
perforations	8.00			3368.00	
Change Over Sub	1.00			3369.00	
Blank Spacing	252.00			3621.00	
Change Over Sub	1.00			3622.00	
Bullnose	3.00			3625.00	270.00 Bottom Packers & Anchor

**Total Tool Length: 311.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt, Inc.

**22-8s-20w Rooks,KS**

PO Box 47  
Great Bend KS 67530

**Gosselin #1-22**

Job Ticket: 53900

**DST#: 6**

ATTN: Derek Patterson

Test Start: 2013.06.15 @ 11:50:00

### 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:

72000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 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
1510.00	Gassy Water	19.889
125.00	Mcw 80%W 20%M	1.753
35.00	Wcm 35%W 65%M	0.491

Total Length: 1670.00 ft      Total Volume: 22.133 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

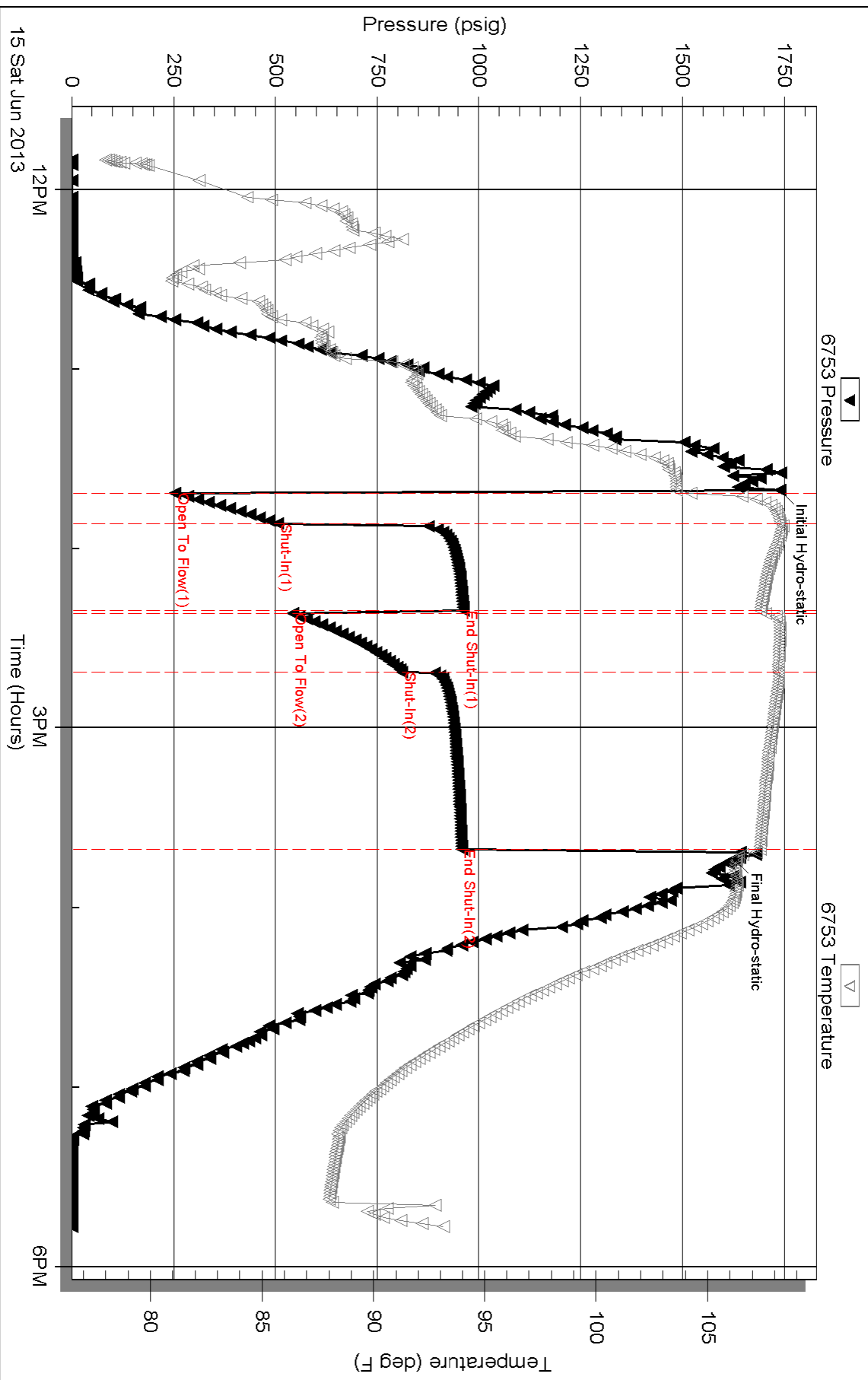
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





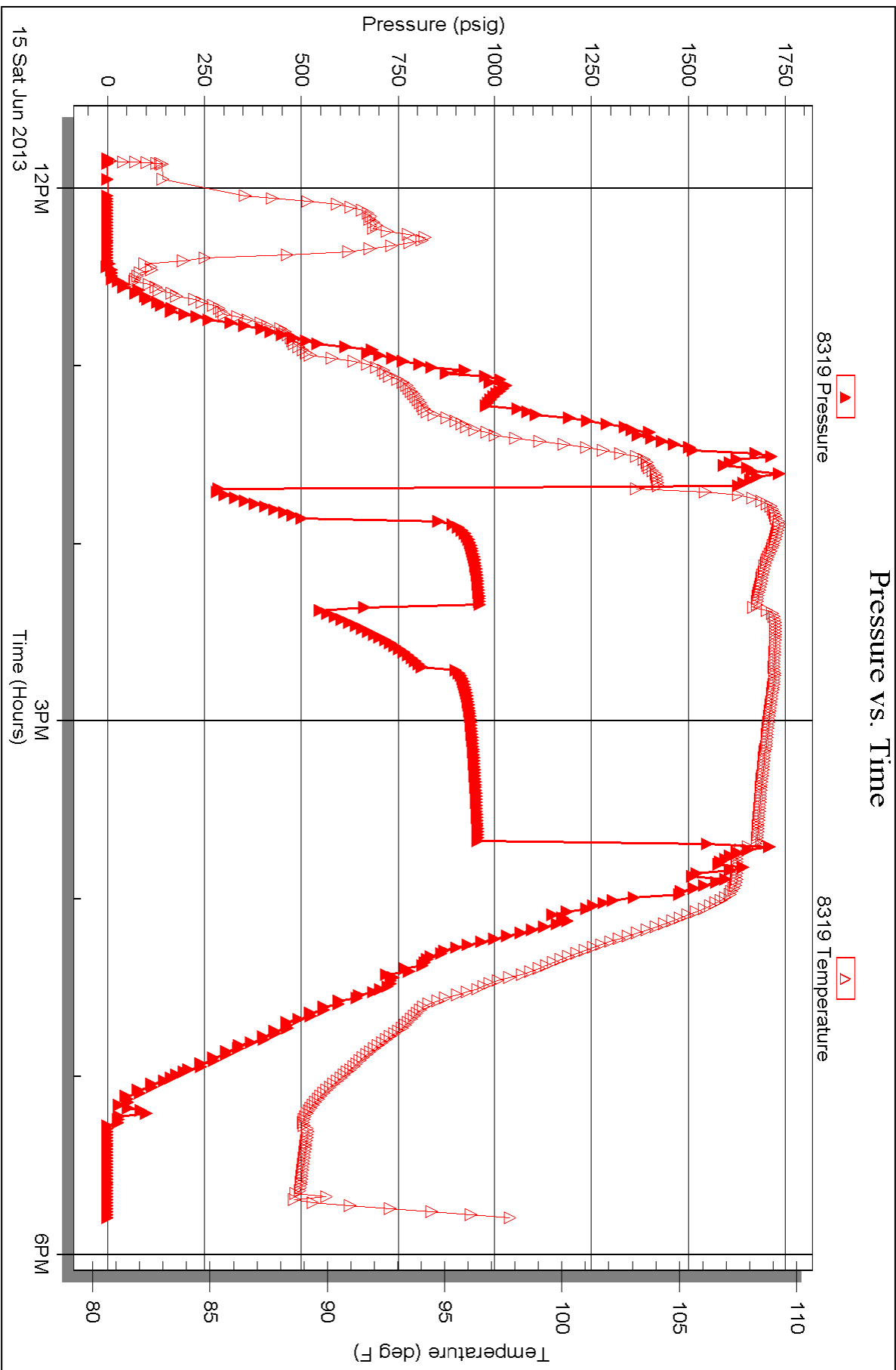
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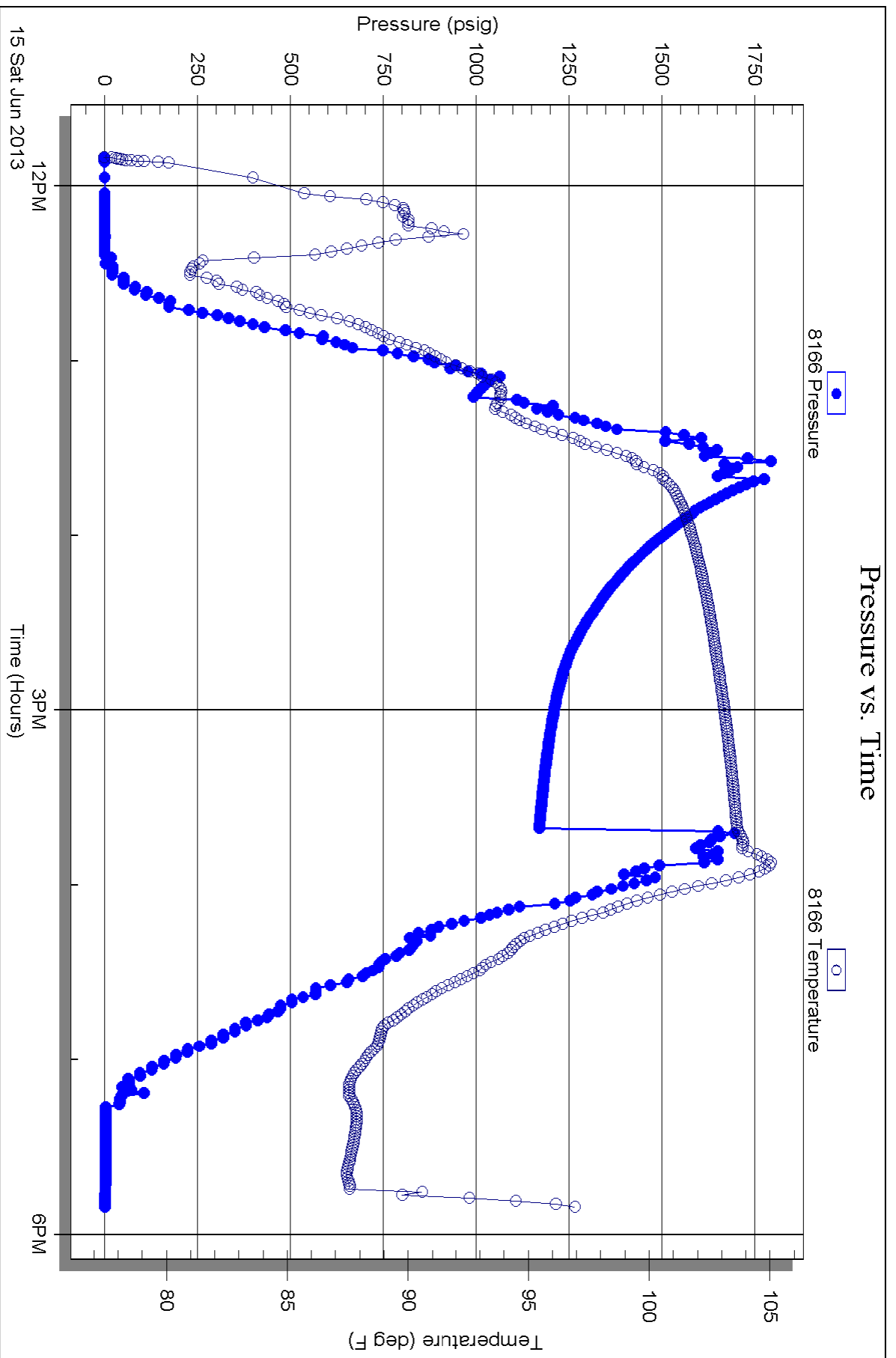
Inside

Carmen Schritt, Inc.

Gosselin #1-22

DST Test Number: 6







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53895

Well Name & No. Gosselin # 1-22 Test No. 1 Date 6/11/13  
 Company Carmen Schmitt, Inc Elevation 2036 KB 2031 GL  
 Address PO Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Derek Patterson Rig Martin #8  
 Location: Sec. 22 Twp. 8s Rge. 20w Co. Rocks State KS

Interval Tested 3164 - 3210 Zone Tested Topeka  
 Anchor Length 46 Drill Pipe Run 2962 Mud Wt. 8.9  
 Top Packer Depth 3159 Drill Collars Run 186 Vis 50  
 Bottom Packer Depth 3164 Wt. Pipe Run — WL 6.8  
 Total Depth 3210 Chlorides 4200 ppm System LCM 2

Blow Description IF - 3in blow  
FSI - No blow  
FF - 4in blow  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>water</u>				
<u>80</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
<u>15</u>	<u>oil spotted mud</u>				

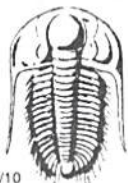
Rec Total 220 BHT 103 Gravity \_\_\_\_\_ API RW .14 @ 80 ° F Chlorides 48000 ppm

(A) Initial Hydrostatic 1,560  Test 1150 T-On Location 12:50  
 (B) First Initial Flow 24  Jars 250 T-Started 13:50  
 (C) First Final Flow 61  Safety Joint 75 T-Open 17:12  
 (D) Initial Shut-In 4,070  Circ Sub \_\_\_\_\_ T-Pulled 19:42  
 (E) Second Initial Flow 63  Hourly Standby \_\_\_\_\_ T-Out 21:35  
 (F) Second Final Flow 122  Mileage 107ft 165.85  
 (G) Final Shut-In 4,049  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 4,511  Straddle \_\_\_\_\_

Initial Open 15  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Packer \_\_\_\_\_  
 Final Shut-In 60  Extra Recorder \_\_\_\_\_  
 Sub Total 0  
 Total 1640.85  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1640.85

Approved By \_\_\_\_\_ Our Representative Bob Decker

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53896

4/10

Well Name & No. Gosselin # 1-22 Test No. 2 Date 6/12/13  
 Company Carmen Schmitt, Inc. Elevation 2036 KB 2031 GL  
 Address PO Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Derek Patterson Rig Murfin #8  
 Location: Sec. 22 Twp. 8s Rge. 20w Co. Becks State KS

Interval Tested 3288-3334 Zone Tested KC<sup>o</sup>B<sub>1</sub>C<sup>o</sup>  
 Anchor Length 46 Drill Pipe Run 3090 Mud Wt. 8.9  
 Top Packer Depth 3283 Drill Collars Run 186 Vis 61  
 Bottom Packer Depth 3288 Wt. Pipe Run - WL 6.8  
 Total Depth 3334 Chlorides 1,900 ppm System LCM 4  
 Blow Description IF - 5 in blow  
ISI - No blow  
FF - BOB in 38 min  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MCW</u>			<u>60</u>	<u>40</u>
<u>120</u>	<u>SNCW</u>			<u>85</u>	<u>15</u>
<u>185</u>	<u>water</u>				

Rec Total 320 BHT 108 Gravity \_\_\_\_\_ API RW 1 @ 88 ° F Chlorides 60,000 ppm  
 (A) Initial Hydrostatic 6,585  Test 1150 T-On Location 13:00  
 (B) First Initial Flow 27  Jars 250 T-Started ~~15:05~~ 14:30  
 (C) First Final Flow 91  Safety Joint 75 T-Open ~~15:05~~ 15:05  
 (D) Initial Shut-In 1,207  Circ Sub \_\_\_\_\_ T-Pulled 17:35  
 (E) Second Initial Flow 100  Hourly Standby \_\_\_\_\_ T-Out 19:10  
 (F) Second Final Flow 178  Mileage 107 RT 165.85 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,201  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,558  Straddle \_\_\_\_\_  
 Initial Open 15  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Shale Packer \_\_\_\_\_  
 Final Flow 45  Extra Packer \_\_\_\_\_  
 Final Shut-In 60  Extra Recorder \_\_\_\_\_  
 Sub Total 1640.85  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1640.85  Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1640.85  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Brian D...

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53897

Well Name & No. Gosselin # 1-22 Test No. 3 Date 6/13/13  
 Company Carmen Schmitt, Inc Elevation 2036 KB 2031 GL  
 Address PO Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Derek Patterson Rig Murfin # 8  
 Location: Sec. 22 Twp. 8s Rge. 20w Co. Rooks State KS

Interval Tested 3382 - 3448 Zone Tested KC "H-J"  
 Anchor Length 66 Drill Pipe Run 3188 Mud Wt. 8.9  
 Top Packer Depth 3377 Drill Collars Run 186 Vis 61  
 Bottom Packer Depth 3382 Wt. Pipe Run - WL 6.8  
 Total Depth 3448 Chlorides 1,900 ppm System LCM 4  
 Blow Description IF - 1/2 in blow  
ISI - No blow  
FF - Very weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>vs ocm</u>		<u>2</u>		<u>98</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 104 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 4,644  Test 1150 T-On Location 11:00  
 (B) First Initial Flow 25  Jars 250 T-Started \_\_\_\_\_  
 (C) First Final Flow 28  Safety Joint 75 T-Open 13:27  
 (D) Initial Shut-In 884  Circ Sub \_\_\_\_\_ T-Pulled 14:22  
 (E) Second Initial Flow 31  Hourly Standby \_\_\_\_\_ T-Out 16:10  
 (F) Second Final Flow \_\_\_\_\_  Mileage 107.7 165.85  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 4,599  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

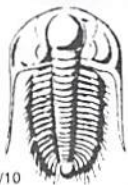
Initial Open 15  
 Initial Shut-In 30  
 Final Flow 10  
 Final Shut-In \_\_\_\_\_

Sub Total 1640.85

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Sub Total 0  
 Total 1640.85  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Bert Dier

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53898

4/10

Well Name & No. Gosselin #1-22 Test No. 4 Date 6/13/13  
 Company Carmen Schmitt, Inc. Elevation 2036 KB 2031 GL  
 Address PO Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Derek Patterson Rig Murfin #8  
 Location: Sec. 22 Twp. 8s Rge. 20w Co. ROOKS State KS

Interval Tested 3445 - 3470 Zone Tested KC"K"  
 Anchor Length 25 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.9  
 Top Packer Depth 3440 Drill Collars Run 186 Vis 61  
 Bottom Packer Depth 3445 Wt. Pipe Run - WL 6.8  
 Total Depth 3470 Chlorides 1,900 ppm System LCM 4  
 Blow Description IF - Very weak surface blow  
ISI - No blow  
FF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>oilspotted mud</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

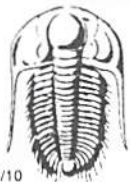
Rec Total 2 BHT 100 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>6,736</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>22:55</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:15</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>00:55</u>
(D) Initial Shut-In <u>29</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:50</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:15</u>
(F) Second Final Flow _____	<input checked="" type="checkbox"/> Mileage <u>107.7</u> 165.85	Comments _____
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic _____	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1640.85</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1640.85</u>	

Approved By \_\_\_\_\_

Our Representative Butt Dickinson

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53899

Well Name & No. Gosselin #1-22 Test No. 5 Date 6/14/13  
 Company Carmen Schmitt, Inc. Elevation 2036 KB 2031 GL  
 Address PO Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Derek Patterson Rig Murfin #8  
 Location: Sec. 22 Twp. 8s Rge. 20w Co. Rooks State KS

Interval Tested 3484 - 3544 Zone Tested Cong Sol / Arbuckle  
 Anchor Length 60 Drill Pipe Run 3284 Mud Wt. 8.9  
 Top Packer Depth 3479 Drill Collars Run 186 Vis 61  
 Bottom Packer Depth 3484 Wt. Pipe Run — WL 6.8  
 Total Depth 3544 Chlorides 1,900 ppm System LCM 4  
 Blow Description IF - Very weak surface blow died in 12 min  
IST - No blow  
FF - No blow (flush tool) No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</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 5 BHT 103 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

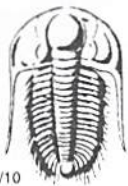
(A) Initial Hydrostatic 1,818  Test 1150 T-On Location 12:20  
 (B) First Initial Flow 23  Jars 250 T-Started 13:05  
 (C) First Final Flow 25  Safety Joint 75 T-Open 15:07  
 (D) Initial Shut-In 48  Circ Sub \_\_\_\_\_ T-Pulled 16:02  
 (E) Second Initial Flow 25  Hourly Standby \_\_\_\_\_ T-Out 17:50  
 (F) Second Final Flow \_\_\_\_\_  Mileage 107.7 185.65 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,716  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 10  
 Final Shut-In \_\_\_\_\_

Sub Total 1640.85  
 Total 1640.85  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Beth Dickman

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53900

4/10

Well Name & No. Gosselin #1-22 Test No. 6 Date 6/15/13  
 Company Carmen Schmitt, Inc. Elevation 2036 KB 20.31 GL  
 Address PO Box 47 Great Bend KS 67530  
 Co. Rep / Geo. Derek Patterson Rig Murkin #8  
 Location: Sec. 22 Twp. 8s Rge. 20w Co. Books State KS

Interval Tested 3342 - 3355 Zone Tested KC "F"  
 Anchor Length 13 Drill Pipe Run 3157 Mud Wt. 9.1  
 Top Packer Depth 3337, 3342 Drill Collars Run 186 Vis .56  
 Bottom Packer Depth 3355 Wt. Pipe Run — WL 2.6  
 Total Depth 3622 Chlorides 6,800 ppm System LCM 4

Blow Description IF - BOB in 1 min  
FSI - in blow  
FF - BOB in 1 min  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>wcm</u>			<u>35</u>	<u>65</u>
<u>125</u>	<u>mcw</u>			<u>80</u>	<u>20</u>
<u>1510</u>	<u>water easy water</u>				

Rec Total 1670 BHT 107 Gravity \_\_\_\_\_ API RW .09 @ 85° F Chlorides 72,000 ppm

(A) Initial Hydrostatic <u>1,739</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>11:50</u>
(B) First Initial Flow <u>253</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:50</u>
(C) First Final Flow <u>505</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:40</u>
(D) Initial Shut-In <u>962</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>15:40</u>
(E) Second Initial Flow <u>542</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:45</u>
(F) Second Final Flow <u>810</u>	<input checked="" type="checkbox"/> Mileage <u>107.7</u> 165.85	Comments _____
(G) Final Shut-In <u>958</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1,628</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____

Initial Open 10  
 Initial Shut-In 30  
 Final Flow 20  
 Final Shut-In 60

Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Sub Total 2240.85

Sub Total 2240.85

Total 2240.85

MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Butt Debra

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# Carmen Schmitt, Inc.

Scale 1:240 Imperial

Well Name: Gosselin #1-22  
Surface Location: 571' FNL and 1565' FEL  
Bottom Location:  
API: 15-163-24124-0000  
License Number: 6569  
Spud Date: 6/8/2013 Time: 2:45 PM  
Region: Sec. 22 - T08S - R20W, Rooks County  
Drilling Completed: 6/15/2013 Time: 3:25 AM  
Surface Coordinates:  
Bottom Hole Coordinates:  
Ground Elevation: 2031.00ft  
K.B. Elevation: 2036.00ft  
Logged Interval: 2900.00ft To: 3620.00ft  
Total Depth: 3620.00ft  
Formation:  
Drilling Fluid Type: Chemical/Fresh Water Gel

## OPERATOR

Company: Carmen Schmitt, Inc.  
Address: P.O. Box 47  
Great Bend, KS 67530  
Contact Geologist: Carmen Schmitt  
Contact Phone Nbr: 620.793.5100  
Well Name: Gosselin #1-22  
Location: 571' FNL and 1565' FEL  
Pool: API: 15-163-24124-0000  
State: Kansas Field: Wildcat  
Country: USA

## LOGGED BY



Company: Valhalla Exploration, LLC  
Address: 8100 E. 22nd St. North  
Building 1800-2  
Wichita, KS 67226  
Phone Nbr: 316.655.3550  
Logged By: Geologist Name: Derek W. Patterson

## REMARKS

After review of the geologic report, open hole logs, and DST results, it was decided upon by operator to plug and abandon the Gosselin #1-22 as a dry hole. Said well was plugged on June 15, 2013.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

## GENERAL INFORMATION

### Service Companies

Drilling Contractor: Murfin Drilling Company - Rig #8  
Tool Pusher: Rodney Farr  
Daylight Driller: James Hale  
Evening Driller: Travis Martin  
Morning Driller: Ryan Hadley

Gas Detector: None

Drilling Fluid: Mud-Co/Service Mud  
Engineer: Gary Schmidtberger

Logging Company: Pioneer Well Services  
Engineer: Chris Desaire  
Logs Ran: DI, CDNL, Micro, Sonic

Testing Company: Trilobite Testing  
Tester: Brett Dickinson

Deviation Survey	
Depth	Survey
218'	3/4°
3210'	1°
3620'	1/2°

Pipe Strap	
Depth	Pipe Strap
3210'	3.21' Short to Board

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	HTCo.	MXC	6050905 RT	0'	218'	218'	2.5
2	7 7/8"	HTCo.	GX20C	5227217 RR	218'	3620'	3402'	65.5

Surface Casing	
6.8.2013	Ran 5 joints of 23 #/ft 8 5/8" casing, tallying 210.38', set @ 218' KB. Cemented with 150 sacks Common(3% CC, 2% gel). Cement did circulate. Plug down @ 1930 hrs 6.8.13. By Quality.

Production Casing	

### DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
6.11.2013	3163'	Geologist Derek W. Patterson depart Wichita for Gosselin #1-22, 2100 hrs 6.10.13. Geologist on location, 0035 hrs 6.11.13. Drilling and connections Permian beds and into Pennsylvanian beds. Displace mud system @ 2761'. Drilling and connections Topeka. Run 3 stand short trip to re-tally pipe @ 3062'. Resume drilling and connections Topeka. Made 933' over past 24 hrs of operations. WOB: 35-38k RPM: 80 PP: 650 SPM: 60 DMC: \$4,906.60 CMC: \$5,672.00
6.12.2013	3299'	Drilling and connections Topeka. CFS @ 3210' (Topeka - Plattsmouth). Shows warrant test. CTCH, conduct 20 stand short trip. CTCH, drop survey, strap out for DST #1, 1245 hrs 6.11.13. Rig up tester, make up tool, TIH with tool. Conducting DST #1, test successful. Rig lost volume while on bottom for test; make up tank and run into system. TIH with bit breaking circulation to try to repair loss of circulation zone. CTCH back on bottom. Resume drilling following DST #1, 0220 hrs 6.12.13. Drilling and connections Topeka, Heebner, and into Toronto. CFS @ 3260' (Toronto). Resume drilling and connections Toronto and into Lansing. CFS @ 3299' (LKC 'A'). Made 136' over past 24 hrs of operations. WOB: 38k RPM: 80 PP: 650 SPM: 60 DMC: \$2,649.70 CMC: \$8,321.70
6.13.2013	3430'	CFS @ 3299' (LKC 'A'). Resume drilling and connections Lansing. CFS @ 3318' (LKC 'B'). Resume drilling Lansing. CFS @ 3334' (LKC 'C'). Shows warrant test. CTCH, TOH for DST #2, 1200 hrs 6.12.13. Make up tool, TIH with tool. Conducting DST #2, test successful. TIH with bit, CTCH. Resume drilling following DST #2, 2235 hrs 6.12.13. Drilling and connections Lansing. CFS @ 3354' (LKC 'F'). Resume drilling and connections Lansing. CFS @ 3370' (LKC 'G'). Resume drilling and connections Lansing. CFS @ 3410' (LKC 'H'). Resume drilling and connections Lansing. CFS @ 3430' (LKC 'I'). Made 131' over past 24 hrs of operations. WOB: 38k RPM: 80 PP: 650 SPM: 60 DMC: \$1,703.35 CMC: \$10,025.05
6.14.2013	3488'	CFS @ 3430' (LKC 'I'). Resume drilling Lansing. CFS @ 3448' (LKC 'J'/Stark). Shows warrant test. CTCH, TOH for DST #3, 1000 hrs 6.13.13. Make up tool, TIH with tool. Conducting DST #3, test successful. TIH with bit, CTCH. Resume drilling following DST #3, 1900 hrs 6.13.13. Drilling and connections Lansing. CFS @ 3470' (LKC 'K'). Shows warrant test. CTCH, TOH for DST #4, 2150 hrs 6.13.13. Make up tool, TIH with tool. Conducting DST #4, test successful. TIH with bit, CTCH. Resume drilling following DST #4, 0545 hrs 6.14.13. Drilling and connections Lansing and into Base Kansas City. CFS @ 3488' (BKC). Made 58' over past 24 hrs of operations. WOB: 38k RPM: 80 PP: 650 SPM: 60 DMC: \$967.85 CMC: \$10,992.90
6.15.2013	RTD - 3620' LTD - 3622'	CFS @ 3488' (BKC). Resume drilling and connections Base Kansas City, Marmaton, Basal Penn Conglomerate, and into Erosional Arbuckle. CFS @ 3544' (Arb). Shows warrant test. CTCH, TOH for DST #5, 1145 hrs 6.14.13. Make up tool, TIH with tool. Conducting DST #5, test successful. TIH with bit, CTCH. Resume drilling following DST #5, 2015 hrs 6.14.13. Drilling Erosional Arbuckle and into competent Arbuckle. CFS @ 3551' (Arb), CFS @ 3555' (Arb), CFS @ 3562' (Arb), CFS @ 3569' (Arb). Resume drilling and connections Arbuckle ahead to RTD of 3620'.















RTD reached, 0325 hrs 6.15.13. CTCH, drop survey, TOH for open hole logging operations, 0515 hrs 6.15.13. Rig up loggers. Commence open hole logging operations.  
 Made 132' over past 24 hrs of operations.  
 WOB: 38k RPM: 80 PP: 650 SPM: 60  
 DMC: \$441.95 CMC: \$11,434.85

6.16.2013 RTD - 3620' LTD - 3622' Conduct open hole logging operations. Decision made to run straddle test across Lansing 'F' zone. Make up tool, TIH with tool. Conducting DST #6, test successful. Orders received to plug and abandon the Gosselin #1-22 as a dry hole. Said well was plugged on 6.15.13. Geologist Derek W. Patterson off location, 1830 hrs 6.15.13. DMC: \$15.80 CMC: \$11,459.65

### WELL COMPARISON SHEET

Drilling Well					Comparison Well				Comparison Well			
Carmen Schmitt - Gosselin #1-22 Sec. 22 - T08S - R20W 571' FNL & 1565' FEL					American Southern - Gosselin #1 Sec. 22 - T08S - R20W NE NE NE				National Dev - Balthazor 'OWWO' #1 Sec. 22 - T08S - R20W NW NW SE			
2036 KB					Dry 2030 KB		Structural Relationship		Dry 2013 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	3022	-986	3021	-985	3015	-985	-1	0	3000	-987	1	2
King Hill	3118	-1082	3117	-1081	3110	-1080	-2	-1	3095	-1082	0	1
Queen Hill	3168	-1132	3167	-1131	3160	-1130	-2	-1	3145	-1132	0	1
Heebner	3224	-1188	3224	-1188	3217	-1187	-1	-1	3203	-1190	2	2
Toronto	3250	-1214	3248	-1212	3242	-1212	-2	0	3225	-1212	-2	0
Lansing	3264	-1228	3264	-1228	3258	-1228	0	0	3241	-1228	0	0
LKC 'B'	3305	-1269	3304	-1268	3298	-1268	-1	0	3282	-1269	0	1
LKC 'C'	3324	-1288	3322	-1286	3317	-1287	-1	1	3299	-1286	-2	0
LKC 'E'	3337	-1301	3338	-1302	3332	-1302	1	0	3317	-1304	3	2
LKC 'F'	3345	-1309	3346	-1310	3340	-1310	1	0	3324	-1311	2	1
LKC 'G'	3356	-1320	3358	-1322	3353	-1323	3	1	3333	-1320	0	-2
Muncie Creek	3385	-1349	3384	-1348	3378	-1348	-1	0	3360	-1347	-2	-1
LKC 'H'	3397	-1361	3396	-1360	3391	-1361	0	1	3373	-1360	-1	0
LKC 'I'	3418	-1382	3418	-1382	3413	-1383	1	1	3394	-1381	-1	-1
LKC 'J'	3435	-1399	3433	-1397	3430	-1400	1	3	3412	-1399	0	2
Stark	3448	-1412	3447	-1411	3442	-1412	0	1	3425	-1412	0	1
LKC 'K'	3460	-1424	3458	-1422	3452	-1422	-2	0	3434	-1421	-3	-1
Hushpuckney	3467	-1431	3467	-1431	3461	-1431	0	0	3444	-1431	0	0
LKC 'L'	3476	-1440	3475	-1439	3472	-1442	2	3	3456	-1443	3	4
Base Kansas City	3487	-1451	3485	-1449	3480	-1450	-1	1	3462	-1449	-2	0
Marmaton	3515	-1479	3516	-1480	3513	-1483	4	3	3494	-1481	2	1
Basal Penn Cglm	3531	-1495	3531	-1495	3533	-1503	8	8	3514	-1501	6	6
Shaley Arbuckle	3539	-1503	3545	-1509	3542	-1512	9	3	Not Called			
Arbuckle	3549	-1513	3565	-1529	3555	-1525	12	-4	3524	-1511	-2	-18
Precambrian	Not Penetrated				3776	-1746	N/A		Not Penetrated			
Total Depth	3620	-1584	3622	-1586	3840	-1810	226	224	3580	-1567	-17	-19

### ROCK TYPES

 Congl	 DOL3	 LMST3	 SHALE CAR	 SHALE RED
 DOL1	 LMST1	 Ss	 SHALE GRN	 SHALE TEAL
 DOL2	 LMST2	 SHALE BRN	 SHALE GRA	

### ACCESSORIES

#### MINERAL

∟ Dolomitic  
 P Pyrite  
 \* Sandy  
 .. Silty  
 △ Chert White

#### FOSSIL

F Fossils < 20%  
 φ Oolite  
 ⚙ Oomoldic










#### STRINGER

■ Limestone1  
 ■ Limestone3  
 ■ Shale Gray  
 ■ Shale Red

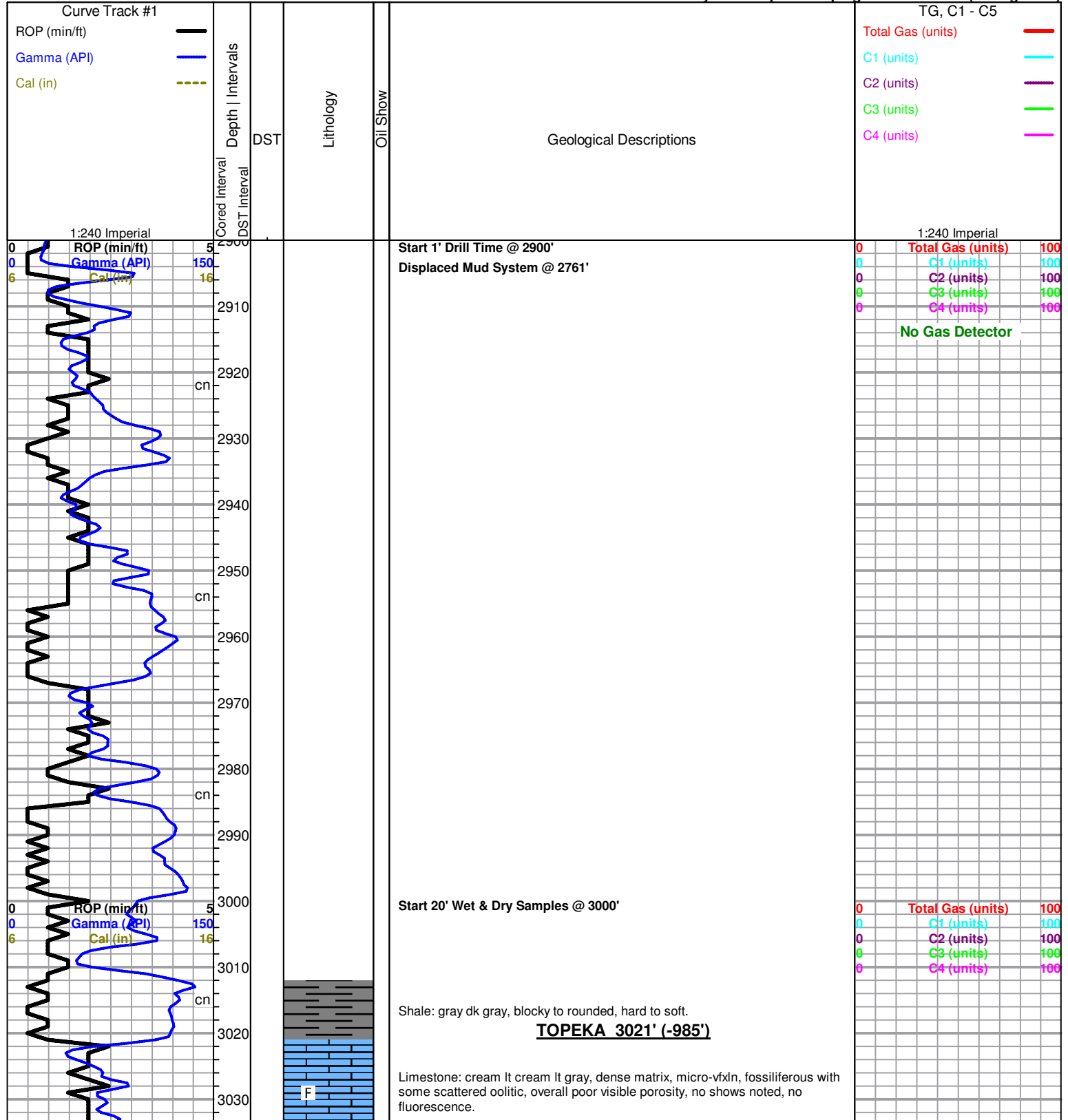
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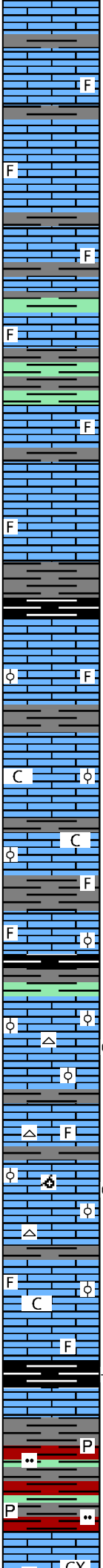
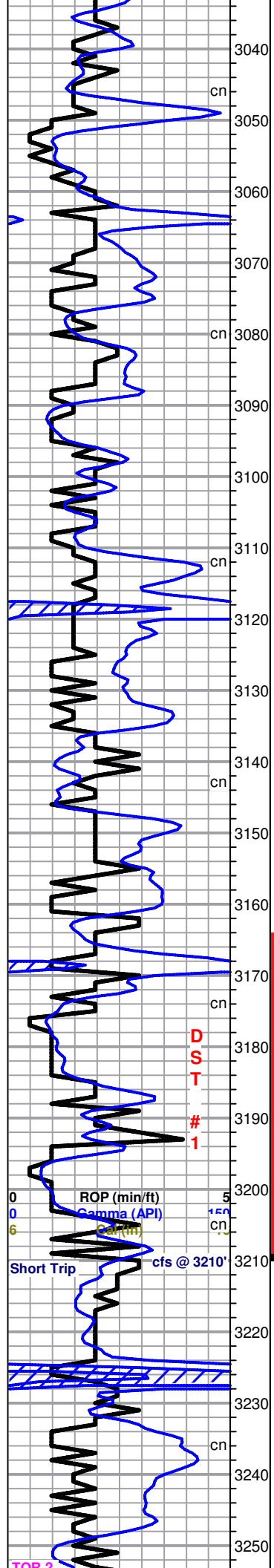
C Chalky  
 CX Cryptocrystalline

### OTHER SYMBOLS

- MISC**
-  Daily Report
  -  Digital Photo
  -  Document
  -  Folder
  -  Link
  -  Vertical Log File
  -  Horizontal Log File
  -  Core Log File
  -  Drill Cuttings Rpt

- DST**
-  DST1
  -  DST2
  -  DST3
  -  Core
  -  tail pipe





Limestone: cream lt gray gray, dense tight matrix, microxln, fossiliferous, poor visible porosity, no shows noted, no fluorescence.

Limestone: lt cream cream tan, softer sub-friable matrix, micro-vfxln, scattered poor oolitic to sub-fossiliferous, fair interxln porosity, no shows noted, no fluorescence.

Limestone: cream gray, dense tight matrix, microxln, sub-fossiliferous to barren, poor visible porosity, no shows noted, no fluorescence, with fair amount of interbedded Shale: gray dk gray dk green, rounded and soft, fissile to platy, some limey.

Limestone: cream lt cream, dense matrix, micro-vfxln, fair amount of oolitic/fossiliferous material, poor visible porosity, no shows noted, no fluorescence.

**KING HILL 3117' (-1081')**

Shale: black, carbonaceous, blocky to rounded, most soft to waxy, no gas show.

Limestone: lt cream cream lt tan, sub-friable matrix, vf-fxln, most heavily oolitic to fossiliferous, fair-good interfossiliferous porosity throughout, no shows noted, very poor-no mineral fluorescence.

Limestone: off white lt cream, softer sub-chalky matrix, micro-vfxln, sub-oolitic to barren, few pieces with fair-good interxln/pinpoint porosity, fair-poor saturated stain in those with porosity, no live shows noted, very poor spotty fluorescence, no cut, no odor.

**Start 10' Wet & Dry Samples @ 3150'**

Limestone: lt cream off white lt gray, dense matrix, vf-fxln, heavily oolitic/fossiliferous, fair-good interfossiliferous porosity, no shows noted, poor-no mineral fluorescence, no odor, with interbedded Shale: gray dk gray, blocky to rounded, mostly soft.

**QUEEN HILL 3167' (-1131')**

Shale: trace black, carbonaceous, blocky to rounded, soft and waxy, with Shale: gray dk gray lt green, blocky to rounded, hard to soft.

Limestone: off white lt cream, friable matrix, vfxln, heavily oolitic, good interoolitic/pinpoint porosity, scattered pieces with fair saturated stain and poor-fair show stringy heavy dk brown oil upon break, spotty lt yellow fluorescence, poor-fair bluish-white cut, faint odor, with scattered Chert: gray cream, opaque, fresh and sharp, sub-fossiliferous to barren, no shows noted.

Limestone: cream lt cream lt gray, dense tight matrix, micro-vfxln, sub-fossiliferous, poor visible porosity, no shows noted, no fluorescence, with continued Chert.

3210' cfs - Limestone: tan lt brown, dense matrix, vfxln, heavily oolitic with some scattered poor oomoldic development, good interoolitic/pinpoint porosity, 2ndary xln fill in porosity, even brown saturated stain, fair show heavy dk brown oil from porosity with slight increase upon break, spotty lt yellow fluorescence, milky-white cut, faint odor, with scattered Chert.

Limestone: gray lt gray some cream mottled, dense sub-chalky matrix, microxln, fossiliferous/oolitic in part, poor visible porosity, no shows noted, no fluorescence.

**HEEBNER 3224' (-1188')**

Shale: black, carbonaceous, dense and firm, some slightly waxy and soft, good show gas with increase upon break.

Shale: gray dk gray brick red dk green, blocky to rounded, mostly firm and hard with some softer and waxy, silty/pyritic in part.

**TORONTO 3248' (-1212')**

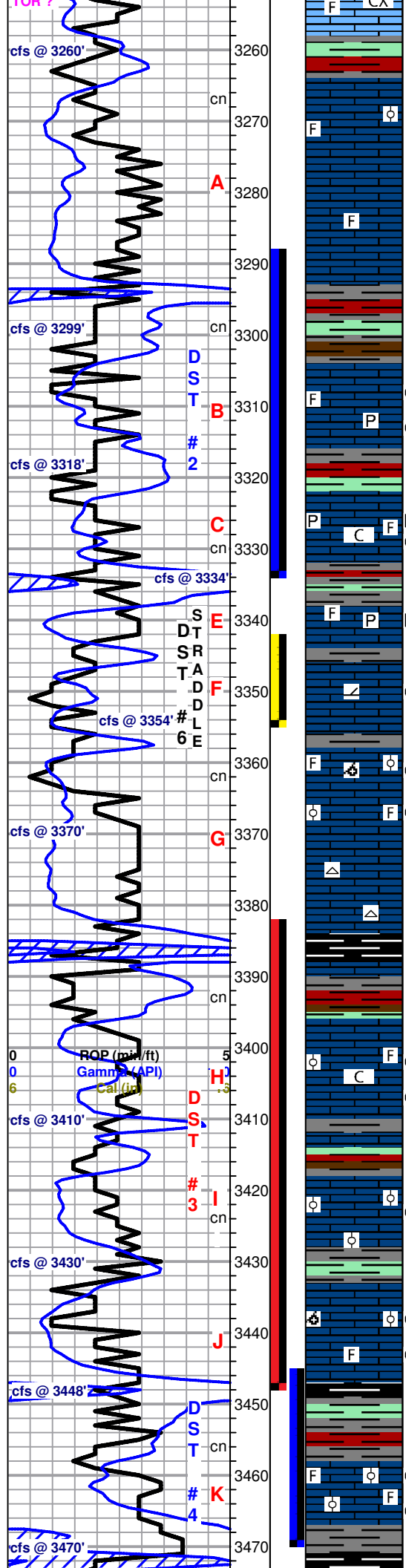
3260' cfs - Limestone: lt gray white lt cream, dense tight matrix, micro-xln, mostly barren with some scattered sub-fossiliferous, poor visible porosity, no shows noted, no fluorescence.

**Mud-Co Mud Ck @ 3145'**  
 0605 hrs 6.11.13  
 Vis: 50 Wt: 8.9  
 PV: 12 YP: 20  
 WL: 6.8  
 Cake: 1/32nd  
 pH: 11.5  
 CHL: 1,200 ppm  
 Cal: Nil  
 Solids: 4.3  
 LCM: 2 #/bbl  
 DMC: \$2,649.70  
 CMC: \$8,321.70

DST #1.bmp

Vis: 61  
 Wt: 9.0  
 LCM: 4 #/bbl

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



**LANSING 3264' (-1228')**

Limestone: cream lt gray, dense tight matrix, micro-vfxln, sub-oolitic/fossiliferous grading to fossiliferous, poor interxln to fair interfossiliferous porosity, no shows noted, poor dull white mineral fluorescence.

Limestone: cream lt cream off white, dense tight matrix, micro-cryptoxln, mostly barren with some scattered sub-fossiliferous, poor-no visible porosity, fair amount of 2ndary xln fill and along edges, no shows noted, very poor dull white mineral fluorescence, with Chert: white bone white, opaque, fresh and sharp, barren.

3299' cfs - Shale: gray dk gray dk red dk green some brown, blocky and hard, some limy in part, scattered splintery material, sample washes dk reddish-brown.

3318' cfs - Limestone: off white lt cream, friable to dense matrix, f-vfxln, most fossiliferous, pyritic in part, scattered good interxln/micro vug porosity, spotty saturated stain, poor show brown oil with slight increase upon break, even-spotty dull yellow fluorescence, bluish-white to milky-white cut, no odor.

Limestone: lt cream lt gray, dense tight matrix, micro-vfxln, barren, poor visible porosity, no shows noted, no fluorescence.

3334' cfs - Limestone: lt cream cream off white, dense sub-chalky matrix, vf-fxln, most fossiliferous, pyritic in part, fair-good interxln/interfossiliferous porosity with some poor-no visible porosity, most carrying fair edge stain (some dead), poor-fair show brown oil in porosity with increase upon break/under lamp, spotty dull yellow fluorescence, bluish-white cut, no odor.

Limestone: off white lt cream, mostly dense matrix, micro-vfxln, sub-fossiliferous, poor visible porosity, few scattered pieces with dead tarry stain along edges, no live shows noted, poor fluorescence, little-no cut, no odor, with loose Pyrite nodules.

3354' cfs 40"/60" - Limestone: lt tan cream, friable dolomitic matrix, vf-fxln, most barren, fair-good interxln porosity, fair golden spotty-even saturated stain, very poor show live oil upon break in a couple of pieces, poor spotty lt yellow fluorescence, poor bluish-white cut, no odor.

3370' cfs - Limestone: off white lt cream, mostly dense matrix, vfxln, oolitic/fossiliferous, fair-good interoolitic/vuggy/trace oomoldic porosity throughout, spotty-even lt brown saturated stain, very poor show lt brown oil upon break in few pieces, poor dull whitish-yellow fluorescence, poor bluish-white cut, no odor, grading to Limestone: cream lt cream, dense tight matrix, vfxln, oolitic/fossiliferous in part, decrease in visible porosity and staining from above, no live shows noted, poor fluorescence, no cut, no odor.

Limestone: lt gray lt cream white, dense tight cherty matrix, micro-cryptoxln, barren, very cherty, no visible porosity, no shows noted, no fluorescence, no odor.

**MUNCIE CREEK 3384' (-1348')**

Shale: black, carbonaceous, mostly rounded and soft, some waxy, fair gas show upon break.

Shale: gray dk gray brick red some brown dk green, blocky to rounded, mostly soft.

3410' cfs - Limestone: cream lt tan lt cream, slightly chalky dense tight matrix, micro-vfxln, most micro fossiliferous/oolitic, overall poor visible porosity with some scattered fair pinpoint, scattered spotty brown stain, no live shows noted, poor whitish-yellow fluorescence, poor-no cut, no odor.

Shale: gray dk gray brick red dk green dk brown, blocky to rounded, mostly soft, some splintery material.

3430' cfs - Limestone: off white white, dense to sub-friable matrix, vfxln, heavily oolitic compact, fair interoolitic porosity with abundant 2ndary xln fill between oolites, even to spotty saturated stain in porosity, some dead tarry gilsonitic staining, poor-fair show free oil upon break/left under lamp, dull lt yellow fluorescence, yellowish-white cut, faint gassy odor.

3448' cfs - Limestone: tan cream, friable matrix, vfxln, oolitic with excellent small oomoldic dev/porosity, 2ndary xln within porosity, even brown saturated stain, good show free oil upon break, even bright lt yellow fluorescence, milky-white cut, grading to Limestone: cream, dense matrix, micro-vfxln, sub-fossiliferous, scattered pinpoint porosity, even to spotty brown saturated stain, fair-poor show upon break, continued fluorescence and cut, faint odor.

**STARK 3447' (-1411')**

Shale: black dk gray, carbonaceous in part, with Shale: gray dk gray dk green brick red, blocky and hard, fair amount of splintery material.

Limestone: off white lt cream, dense/brittle matrix, vfxln, heavily compact fossiliferous/oolitic, fair interfossiliferous porosity with abundant 2ndary xln, free oil in tray, brown saturated stain, fair-good show brown oil upon break, spotty-even bright lt yellow fluorescence, milky-white cut, no odor.

**HUSHPUCKNEY 3467' (-1431')**

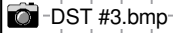
Shale: gray dk gray, blocky, mostly firm and hard, splintery/fissile in part, grading to Shale: black, carbonaceous and Shale: gray dk gray dk green.

Mud-Co Mud Ck @ 3285'  
 0618 hrs 6.12.13  
 Vis: 61 Wt: 8.9  
 PV: 15 YP: 29  
 WL: 6.8  
 Cake: 1/32nd  
 pH: 10.5  
 CHL: 1,900 ppm  
 Cal: Tr  
 Solids: 4.3  
 LCM: 4 #/bbl  
 DMC: \$1,703.35  
 CMC:  
 \$10,025.05

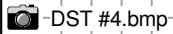


Vis: 59  
 Wt: 9.0  
 LCM: 4+ #/bbl

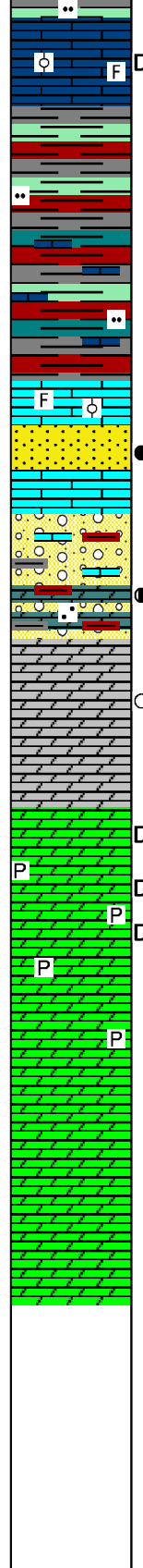
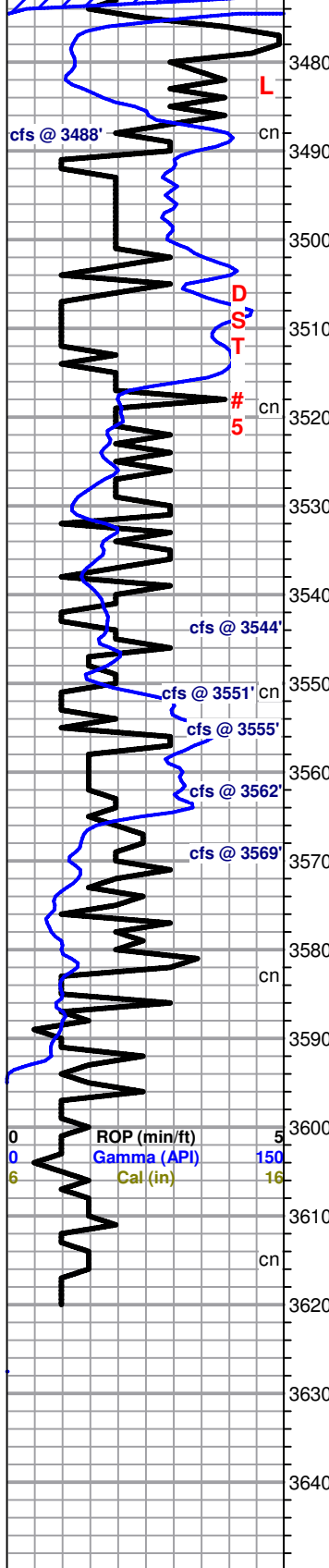
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Mud-Co Mud Ck @ 3430'  
 0715 hrs 6.13.13  
 Vis: 50 Wt: 9.0  
 PV: 16 YP: 24  
 WL: 7.2  
 Cake: 1/32nd  
 pH: 7.2  
 CHL: 1,900 ppm  
 Cal: Tr  
 Solids: 4.9  
 LCM: 4 #/bbl  
 DMC: \$967.85  
 CMC: \$10,992.90



Vis: 52  
 Wt: 9.0  
 LCM: 5 #/bbl



3488' cfs - Limestone: cream lt cream lt gray, dense tight matrix, vfxln, most fossiliferous/oolitic, poor visible porosity, few pieces with poor dead black stain along edge, no live shows noted, no fluorescence, no cut, no odor.

**BASE KANSAS CITY 3485' (-1449')**

Shale: gray dk gray dk green brick red, most blocky and firm, abundant splintery/fissile material, some silty in part, sample washes reddish-brown.

Shale: gray dk gray dk green teal brick red, most blocky and firm, abundant splintery/fissile material, some silty in part, with Limestone stringers: white lt cream, dense matrix, microxln, fossiliferous/oolitic to barren, no visible porosity, no shows noted, no fluorescence, sample washes reddish-brown.

**MARMATON 3516' (-1480')**

Limestone: off white lt cream, dense tight matrix, micro-vfxln, most fossiliferous/oolitic, poor visible porosity, no shows noted, poor fluorescence.

Sandstone: tan, sub-friable calcareous matrix, vfgrained, well sorted and fairly cemented, fair-good intergranular porosity, even saturated stain, good show lt brown oil, even bright lt yellow fluorescence, milky-white cut, no odor.

3544' cfs - Conglomerate: mixed Shale, Clay, Limestone, and Dolomite: off white lt cream, mostly dense matrix, vf-coarsexln, good rhombic dev, arenaceous in part, fair-good interxln/vuggy porosity, good dk saturated stain in porosity, good show heavy oil upon break, even lt yellow fluorescence, milky-white cut, no odor.

**REWORKED ARBUCKLE 3545' (-1509')**

3551' cfs/3555' cfs - Dolomite: white lt pink, dense tight matrix, f-coarsexln, poor rhombic dev, poor porosity, trace lt brown stain, no live shows noted, even bright white fluorescence, poor-no cut, no odor.

3562' cfs (3558'-3564') - Dolomite: lt cream off white, mostly dense tight matrix, f-coarsexln, slight inc in xln dev and associated porosity, no shows noted, even whitish-yellow fluorescence, no cut, no odor.

**ARBUCKLE 3565' (-1529')**

3569' cfs (3565'-3569') - Dolomite: still carrying predominately same as above, a few pieces of Dolomite: white, dense matrix, f-coarsexln, poor rhombic dev, poor interxln-fair vuggy porosity, couple of pieces with dead tarry stain, no live shows noted, even dull lt yellow fluorescence, fair cut, no odor (may be from uphole reworked section).

(3572'-3580') - INFLUX Dolomite: white, dense to slightly friable matrix, vf-coarsexln, most pyritic, scattered good rhombic dev and associated porosity with some vuggy porosity, most carrying heavy dk black dead tarry stain, no live shows noted, dull lt yellow fluorescence, white cut, no odor.

(3581'-3592') - INFLUX Dolomite: lt cream cream, dense matrix, vf-fxln with some scattered coarsexln, pyritic in part, fair-good rhombic dev and associated porosity, no shows noted, dull white mineral fluorescence, no cut, no odor.

(3593'-3606') - Dolomite: lt cream cream, dense matrix, vf-fxln with some scattered coarsexln, pyritic in part, fair-good rhombic dev and associated fair porosity, some scattered small vugs, no shows noted, dull white mineral fluorescence, no cut no odor.

(3607'-3620') - Dolomite: lt cream cream, dense matrix, vf-fxln with some scattered coarsexln, fair-good rhombic dev and associated fair porosity, some scattered small vugs, no shows noted, dull white mineral fluorescence, no cut no odor.

**LTD 3622' (-1586')**

**RTD 3620' (-1584')**

Orders Received To Plug and Abandon Well As A Dry Hole

Geologist Derek W. Patterson Off Location, 1830 hrs 6.15.13

Respectfully Submitted,  
Derek W. Patterson

Mud-Co Mud Ck @ 3485'  
0635 hrs 6.14.13  
Vis: 53 Wt: 9.0  
PV: 15 YP: 21  
WL: 7.6  
Cake: 1/32nd  
pH: 10.5  
CHL: 1,800 ppm  
Cal: Tr  
Solids: 4.9  
LCM: 4 #/bbl  
DMC: \$441.95  
CMC: \$11,434.85

DST #5.bmp

Vis: 56  
Wt: 9.0  
LCM: 4 #/bbl

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Mud-Co Mud Ck @ 3620'  
0630 hrs 6.15.13  
Vis: 56 Wt: 9.1  
PV: 14 YP: 25  
WL: 7.6  
Cake: 1/32nd  
pH: 10.5  
CHL: 1,800 ppm  
Cal: 20 ppm  
Solids: 5.7  
LCM: 4 #/bbl  
DMC: \$15.80  
CMC:

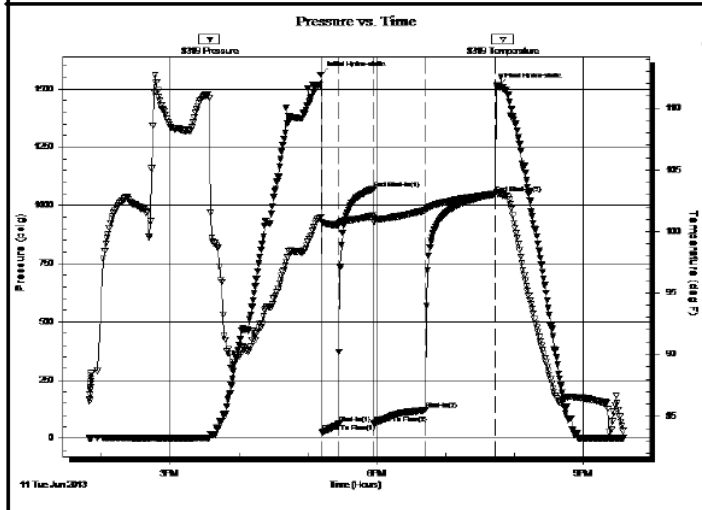
 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT	
	<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">                 Carmen Schmitt, Inc.                  PO Box 47                  GreatBend KS 67530                  ATTN: Derek Patterson             </td> <td style="width:50%; border: none; text-align: right;"> <b>22-8s-20w, Rooks, KS</b>  <b>Gosselin #1-22</b>                  Job Ticket: 53895      <b>DST#: 1</b>                  Test Start: 2013.06.11 @ 13:50:00             </td> </tr> </table>	Carmen Schmitt, Inc. PO Box 47 GreatBend KS 67530 ATTN: Derek Patterson
Carmen Schmitt, Inc. PO Box 47 GreatBend KS 67530 ATTN: Derek Patterson	<b>22-8s-20w, Rooks, KS</b> <b>Gosselin #1-22</b> Job Ticket: 53895 <b>DST#: 1</b> Test Start: 2013.06.11 @ 13:50:00	

**GENERAL INFORMATION:**

Formation: <b>Topeka</b> Deviated: No    Whipstock:                      ft (KB) Time Tool Opened: 17:12:30 Time Test Ended: 21:34:30	Test Type: Conventional Bottom Hole (Initial) Tester: Brett Dickinson Unit No: 59
<b>Interval: 3164.00 ft (KB) To 3210.00 ft (KB) (TVD)</b>	Reference Elevations: 2036.00 ft (KB) 2031.00 ft (CF)
Total Depth: 3210.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches    Hole Condition: Fair	

<b>Serial #: 8319</b>	<b>Outside</b>				
Press@RunDepth:	121.86 psig @	3165.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2013.06.11	End Date:	2013.06.11	Last Calib.:	2013.06.11
Start Time:	13:50:05	End Time:	21:34:29	Time On Btm:	2013.06.11 @ 17:11:30
				Time Off Btm:	2013.06.11 @ 19:45:30

**TEST COMMENT:** IF-3in blow  
 IS-No blow  
 FF-4in blow  
 FSI-No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1560.07	101.13	Initial Hydro-static
1	23.61	100.76	Open To Flow (1)
16	60.58	100.55	Shut-In(1)
46	1070.33	101.26	End Shut-In(1)
47	62.89	100.74	Open To Flow (2)
91	121.86	101.70	Shut-In(2)
152	1049.10	103.06	End Shut-In(2)
154	1511.48	103.10	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
125.00	Water	0.89
80.00	MCW 30%M 70%W	0.70
15.00	Oil Spotted Mud	0.21

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



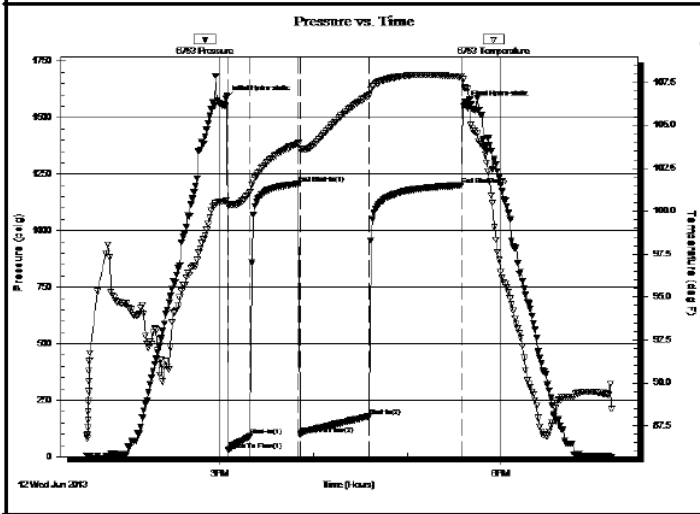
 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT	
	<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">                 Carmen Schmitt, Inc.                  PO Box 47                  GreatBend KS 67530                  ATTN: Derek Patterson             </td> <td style="width:50%; border: none; text-align: right;"> <b>22-8s-20w, Rooks, KS</b>  <b>Gosselin #1-22</b>                  Job Ticket: 53896      <b>DST#: 2</b>                  Test Start: 2013.06.12 @ 13:35:00             </td> </tr> </table>	Carmen Schmitt, Inc. PO Box 47 GreatBend KS 67530 ATTN: Derek Patterson
Carmen Schmitt, Inc. PO Box 47 GreatBend KS 67530 ATTN: Derek Patterson	<b>22-8s-20w, Rooks, KS</b> <b>Gosselin #1-22</b> Job Ticket: 53896 <b>DST#: 2</b> Test Start: 2013.06.12 @ 13:35:00	

**GENERAL INFORMATION:**

Formation: <b>KC "B,C"</b> Deviated: No    Whipstock:                      ft (KB) Time Tool Opened: 15:05:30 Time Test Ended: 19:11:00	Test Type: Conventional Bottom Hole (Reset) Tester: Brett Dickinson Unit No: 59
<b>Interval: 3288.00 ft (KB) To 3334.00 ft (KB) (TVD)</b>	Reference Elevations: 2036.00 ft (KB) 2031.00 ft (CF)
Total Depth: 3334.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches    Hole Condition: Fair	

<b>Serial #: 6753</b>	<b>Inside</b>				
Press@RunDepth:	178.11 psig @	3289.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2013.06.12	End Date:	2013.06.12	Last Calib.:	2013.06.12
Start Time:	13:35:05	End Time:	19:10:59	Time On Btm:	2013.06.12 @ 15:04:00
				Time Off Btm:	2013.06.12 @ 17:37:00

**TEST COMMENT:** IF-5in blow  
 ISI-No blow  
 FF-BOB in 38min  
 FSI-No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1585.16	100.59	Initial Hydro-static
2	26.58	100.28	Open To Flow (1)
16	91.28	101.12	Shut-In(1)
47	1207.23	103.94	End Shut-In(1)
48	100.25	103.62	Open To Flow (2)
92	178.11	106.74	Shut-In(2)
151	1200.69	107.83	End Shut-In(2)
153	1557.68	107.16	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
185.00	Water	1.31
120.00	SMCW 85%W 15%M	1.68
15.00	MCW 60%W 40%M	0.21

\* Recovery from multiple tests

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

 <b>TRILOBITE TESTING, INC</b>	<b>DRILL STEM TEST REPORT</b>							
	<table style="width:100%;"> <tr> <td style="width:50%;">Carmen Schmitt, Inc.</td> <td style="width:50%; text-align: right;"><b>22-8s-20w, Rooks, KS</b></td> </tr> <tr> <td>PO Box 47 Great Bend KS 67530</td> <td style="text-align: right;"><b>Gosselin #1-22</b></td> </tr> <tr> <td>ATTN: Derek Patterson</td> <td style="text-align: right;">Job Ticket: 53897      <b>DST#: 3</b></td> </tr> <tr> <td></td> <td style="text-align: right;">Test Start: 2013.06.13 @ 11:20:00</td> </tr> </table>	Carmen Schmitt, Inc.	<b>22-8s-20w, Rooks, KS</b>	PO Box 47 Great Bend KS 67530	<b>Gosselin #1-22</b>	ATTN: Derek Patterson	Job Ticket: 53897 <b>DST#: 3</b>	
Carmen Schmitt, Inc.	<b>22-8s-20w, Rooks, KS</b>							
PO Box 47 Great Bend KS 67530	<b>Gosselin #1-22</b>							
ATTN: Derek Patterson	Job Ticket: 53897 <b>DST#: 3</b>							
	Test Start: 2013.06.13 @ 11:20:00							

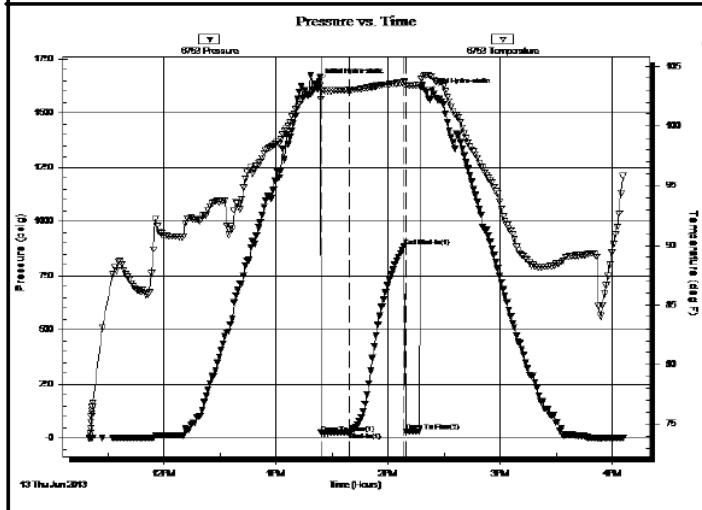
**GENERAL INFORMATION:**

Formation: <b>KC"H-J"</b>	Test Type: Conventional Bottom Hole (Reset)
Deviated: No    Whipstock:                      ft (KB)	Tester: Brett Dickinson
Time Tool Opened: 13:24:00	Unit No: 59
Time Test Ended: 16:05:30	
<b>Interval: 3382.00 ft (KB) To 3448.00 ft (KB) (TVD)</b>	Reference Elevations: 2036.00 ft (KB)
Total Depth: 3448.00 ft (KB) (TVD)	2031.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 5.00 ft

**Serial #: 6753      Inside**

Press@RunDepth: 28.45 psig @ 3383.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.06.13      End Date: 2013.06.13	Last Calib.: 2013.06.13
Start Time: 11:20:05      End Time: 16:05:29	Time On Btm: 2013.06.13 @ 13:23:00
	Time Off Btm: 2013.06.13 @ 14:20:30

**TEST COMMENT:** IF-1/2in blow  
 IS-No blow  
 FF-Very weak surface blow

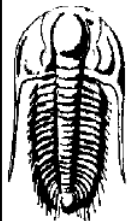


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.61	103.23	Initial Hydro-static
1	25.36	102.24	Open To Flow (1)
16	28.45	103.05	Shut-In(1)
46	883.72	103.67	End Shut-In(1)
47	31.05	103.42	Open To Flow (2)
58	1598.87	104.27	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	VSOCM 2%O 98%M	0.04

\* Recovery from multiple tests

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Carmen Schmitt, Inc.

**22-8s-20w, Rooks, KS**

PO Box 47  
GreatBend KS 67530

**Gosselin #1-22**

Job Ticket: 53898

**DST#: 4**

ATTN: Derek Patterson

Test Start: 2013.06.13 @ 23:15:00

**GENERAL INFORMATION:**

Formation: **KC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:54:30

Time Test Ended: 03:14:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3445.00 ft (KB) To 3470.00 ft (KB) (TVD)**

Reference Elevations: 2036.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

2031.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6753**

**Inside**

Press@RunDepth: 18.69 psig @ 3446.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.13

End Date: 2013.06.14

Last Calib.: 2013.06.14

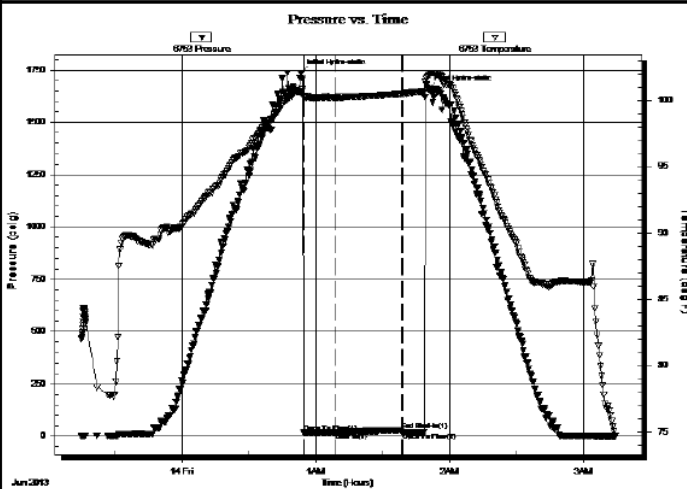
Start Time: 23:15:05

End Time: 03:14:00

Time On Btm: 2013.06.14 @ 00:53:30

Time Off Btm: 2013.06.14 @ 01:50:30

**TEST COMMENT:** IF-Very weak surface blow  
ISI-No blow  
FF-No blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.35	100.64	Initial Hydro-static
1	18.23	100.26	Open To Flow (1)
16	18.69	100.23	Shut-In(1)
45	29.28	100.48	End Shut-In(1)
46	18.82	100.48	Open To Flow (2)
57	1659.16	101.86	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
2.00	Oilspotted Mud	0.01

**Gas Rates**

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

\* Recovery from multiple tests

 <b>TRILOBITE TESTING, INC</b>	<b>DRILL STEM TEST REPORT</b>	
	Carmen Schmitt, Inc. PO Box 47 GreatBend KS 67530  ATTN: Derek Patterson	<b>22-8s-20w, Rooks, KS</b>  <b>Gosselin #1-22</b> Job Ticket: 53899 <b>DST#: 5</b>  Test Start: 2013.06.14 @ 13:05:00

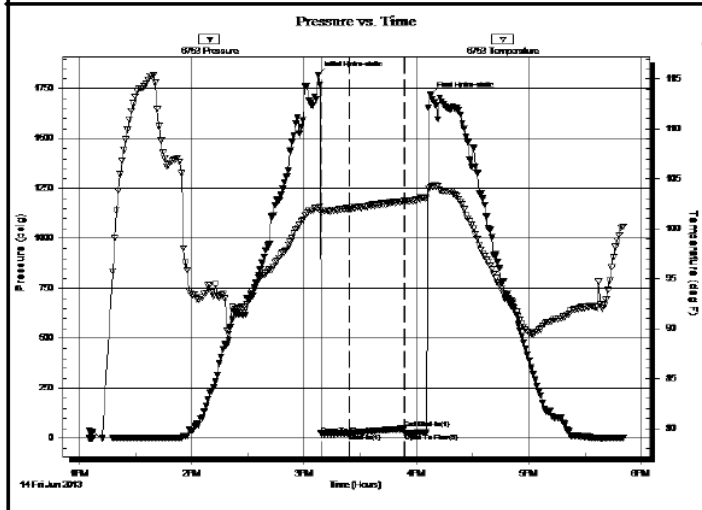
**GENERAL INFORMATION:**

Formation: <b>Cong Sd/ Arbuckle</b> Deviated: No    Whipstock:                      ft (KB) Time Tool Opened: 15:09:00 Time Test Ended: 17:51:00	Test Type: Conventional Bottom Hole (Reset) Tester: Brett Dickinson Unit No: 59
Interval: <b>3484.00 ft (KB) To 3584.00 ft (KB) (TVD)</b> Total Depth: 3544.00 ft (KB) (TVD) Hole Diameter: 7.88 inches    Hole Condition: Fair	Reference Elevations: 2036.00 ft (KB) 2031.00 ft (CF) KB to GR/CF: 5.00 ft

**Serial #: 6753      Inside**

Press@RunDepth: 24.63 psig @ 3485.00 ft (KB) Start Date: 2013.06.14      End Date: 2013.06.14 Start Time: 13:05:05      End Time: 17:50:59	Capacity: 8000.00 psig Last Calib.: 2013.06.14 Time On Btm: 2013.06.14 @ 15:07:30 Time Off Btm: 2013.06.14 @ 16:07:30
--	--

**TEST COMMENT:** IF-Very weak surface blow died in 12min  
 ISI-No blow  
 FF-No blow flush tool No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1818.28	102.05	Initial Hydro-static
2	22.94	101.62	Open To Flow (1)
17	24.63	101.95	Shut-In(1)
46	47.84	102.83	End Shut-In(1)
47	25.43	102.83	Open To Flow (2)
60	1715.91	104.16	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud	0.04

\* Recovery from multiple tests

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

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 19, 2013

Carmen Schmitt  
Carmen Schmitt, Inc.  
PO BOX 47  
GREAT BEND, KS 67530-0047

Re: ACO1  
API 15-163-24124-00-00  
Gosselin 1-22  
NE/4 Sec.22-08S-20W  
Rooks County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Carmen Schmitt