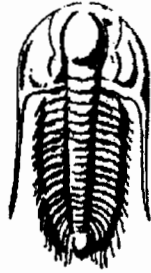


RECEIVED  
FEB 11 2004  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, Ks 67530

ATTN: Carmen Schmitt

**13-16-28-Lane-Ks** W

### **Bentley #1**

Start Date: 2003.08.25 @ 05:55:34

End Date: 2003.08.25 @ 13:08:04

Job Ticket #: 16161                      DST #: 1

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

Carmen Schmitt, Inc

Bentley #1


13-16-28-Lane-Ks

DST # 1

C

LKC

2003.08.25

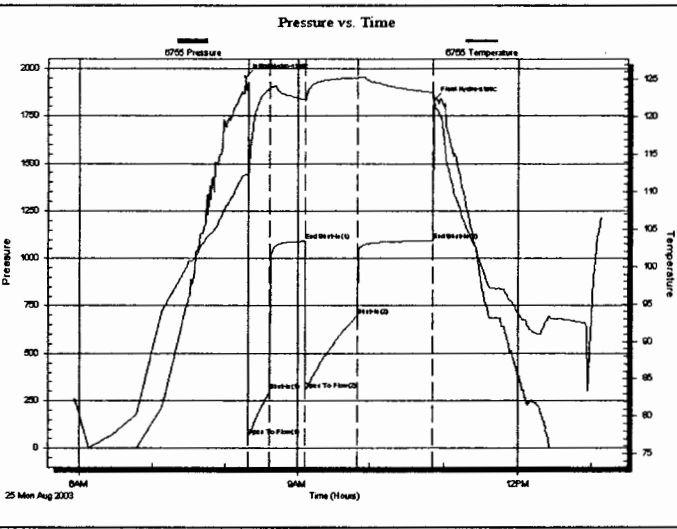
	<b>DRILL STEM TEST REPORT</b>	
	Carmen Schmitt, Inc PO Box 47 Great Bend, Ks 67530 ATTN: Carmen Schmitt	<b>Bentley #1</b> <b>13-16-28-Lane-Ks</b> Job Ticket: 16161 <b>DST#: 1</b> Test Start: 2003.08.25 @ 05:55:34

**GENERAL INFORMATION:**

Formation: <b>C LKC</b>	<b>RECEIVED</b> <b>FEB 11 2004</b> <b>KCC WICHITA</b>	Test Type: Conventional Bottom Hole
Deviated: <b>No Whipstock:</b> ft (KB)		Tester: Dan Bangle
Time Tool Opened: 08:19:04		Unit No: 21
Time Test Ended: 13:08:04		Reference Elevations: 2699.00 ft (KB) 2694.00 ft (CF)
Interval: <b>3969.00 ft (KB) To 4000.00 ft (KB) (TVD)</b>		KB to GR/CF: 5.00 ft
Total Depth: 4000.00 ft (KB) (TVD)		
Hole Diameter: 7.88 inches	Hole Condition: Good	

<b>Serial #: 6755</b>	<b>Inside</b>				
Press@RunDepth: 695.75 psig @ 3970.00 ft (KB)	Capacity: 7000.00 psig				
Start Date: 2003.08.25	End Date: 2003.08.25	Last Calib.: 2003.08.25			
Start Time: 05:55:35	End Time: 13:08:04	Time On Btm: 2003.08.25 @ 08:16:34			
		Time Off Btm: 2003.08.25 @ 10:51:34			

**TEST COMMENT:** F-Strong BOB in 3 min  
FF-Strong BOB in 5 min  
Times-15-30-45-60



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1955.13	112.33	Initial Hydro-static
3	64.16	111.97	Open To Flow (1)
20	299.57	123.83	Shut-In(1)
50	1090.69	122.30	End Shut-In(1)
50	308.27	122.14	Open To Flow (2)
93	695.75	125.18	Shut-In(2)
154	1092.55	123.28	End Shut-In(2)
155	1830.37	122.75	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
805.00	Silly o c w tr 3%o 97%w	10.47
495.00	O C Wtr 10%o 90%w	6.94
90.00	O C Wtr 30%o 70%w	1.26
10.00	C O	0.14
0.00	Rw .18 @ 80 = 46000ppm	0.00

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Carmen Schmitt, Inc

**Bentley #1**

PO Box 47  
Great Bend, Ks 67530

**13-16-28-Lane-Ks**

Job Ticket: 16161      **DST#: 1**

ATTN: Carmen Schmitt

Test Start: 2003.08.25 @ 05:55:34

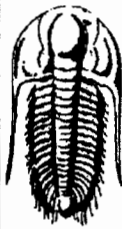
**Tool Information**

Drill Pipe:	Length: 3863.00 ft	Diameter: 3.80 inches	Volume: 54.19 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3969.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**RECEIVED**  
**FEB 11 2004**  
**KCC WICHITA**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3941.00	
Shut In Tool	5.00			3946.00	
Hydraulic tool	5.00			3951.00	
Jars	5.00			3956.00	
Safety Joint	3.00			3959.00	
Packer	5.00			3964.00	29.00      Bottom Of Top Packer
Packer	5.00			3969.00	
Stubb	1.00			3970.00	
Recorder	0.00	6755	Inside	3970.00	
Perforations	27.00			3997.00	
Recorder	0.00	13254	Outside	3997.00	
Bullnose	3.00			4000.00	31.00      Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE TESTING, INC**

### DRILL STEM TEST REPORT

### FLUID SUMMARY

Carmen Schmitt, Inc  
PO Box 47  
Great Bend, Ks 67530  
ATTN: Carmen Schmitt

**Bentley #1**  
**13-16-28-Lane-Ks**  
Job Ticket: 16161      **DST#: 1**  
Test Start: 2003.08.25 @ 05:55:34

#### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	46000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume:		
Water Loss: 10.34 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 3000.00 ppm			
Filter Cake: inches			

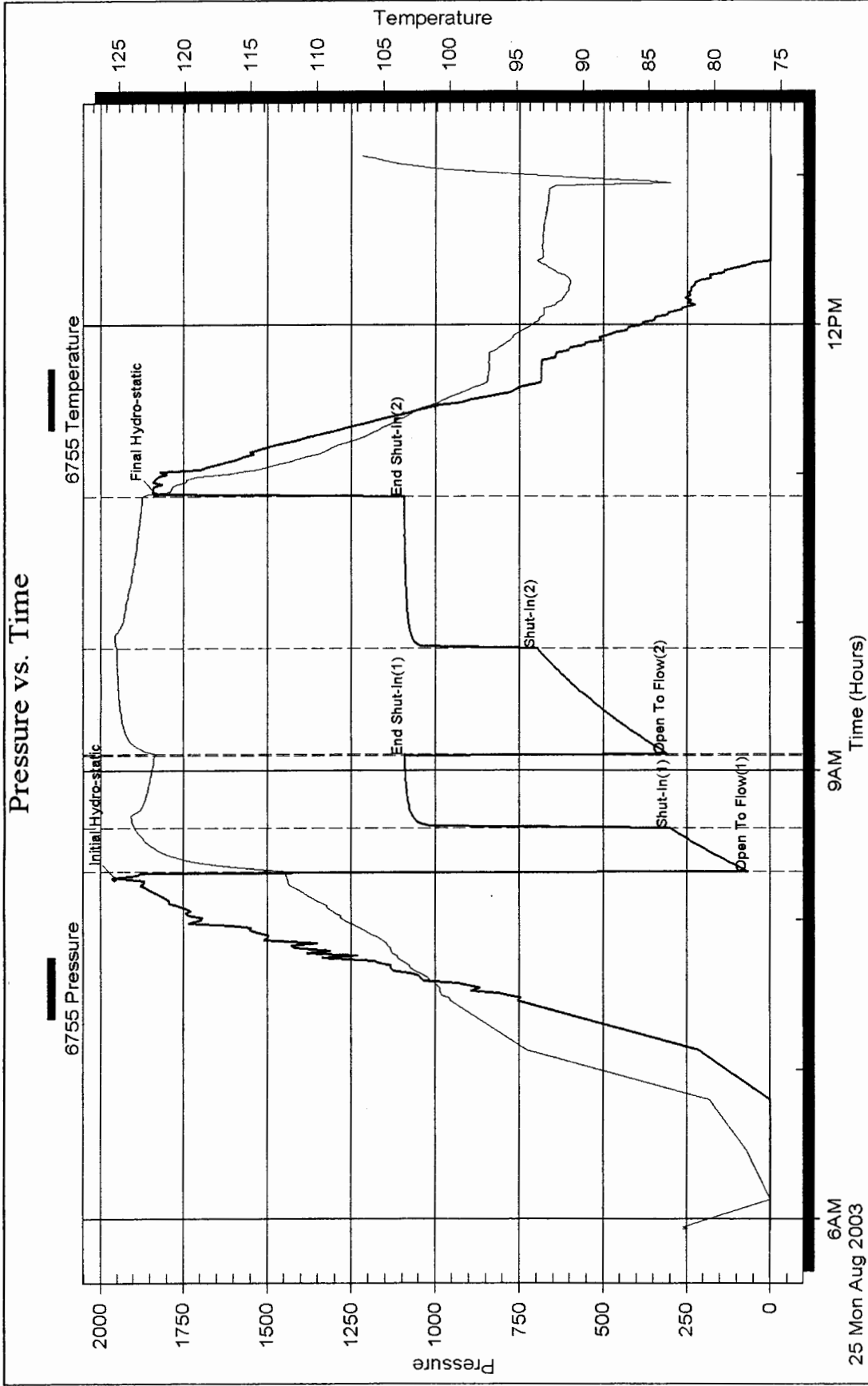
#### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
805.00	Sltly o c w tr 3%o 97%w	10.472
495.00	O C Wtr 10%o 90%w	6.944
90.00	O C Wtr 30%o 70%w	1.262
10.00	C O	0.140
0.00	Rw .18 @ 80 = 46000ppm	0.000

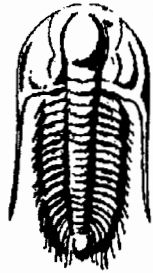
Total Length: 1400.00 ft      Total Volume: 18.818 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

**RECEIVED**  
**FEB 11 2004**  
**KCC WICHITA**



RECEIVED  
 FEB 11 2004  
 KCC WICHITA

RECEIVED  
FEB 11 2004  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, Ks 67530

ATTN: Carmen Schmitt

**13-16-28-Lane-Ks**

**Bentley #1**

Start Date: 2003.08.26 @ 01:45:33

End Date: 2003.08.26 @ 09:00:03

Job Ticket #: 16162                      DST #: 2

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

Carmen Schmitt, Inc

Bentley #1

13-16-28-Lane-Ks

DST # 2

G-H

LKC

2003.08.26





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt, Inc

**Bentley #1**

PO Box 47  
Great Bend, Ks 67530

**13-16-28-Lane-Ks**

Job Ticket: 16162      **DST#: 2**

ATTN: Carmen Schmitt

Test Start: 2003.08.26 @ 01:45:33

**Tool Information**

Drill Pipe:	Length: 3988.00 ft	Diameter: 3.80 inches	Volume: 55.94 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	41.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4066.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				


**RECEIVED  
FEB 11 2004  
KCC WICHITA**

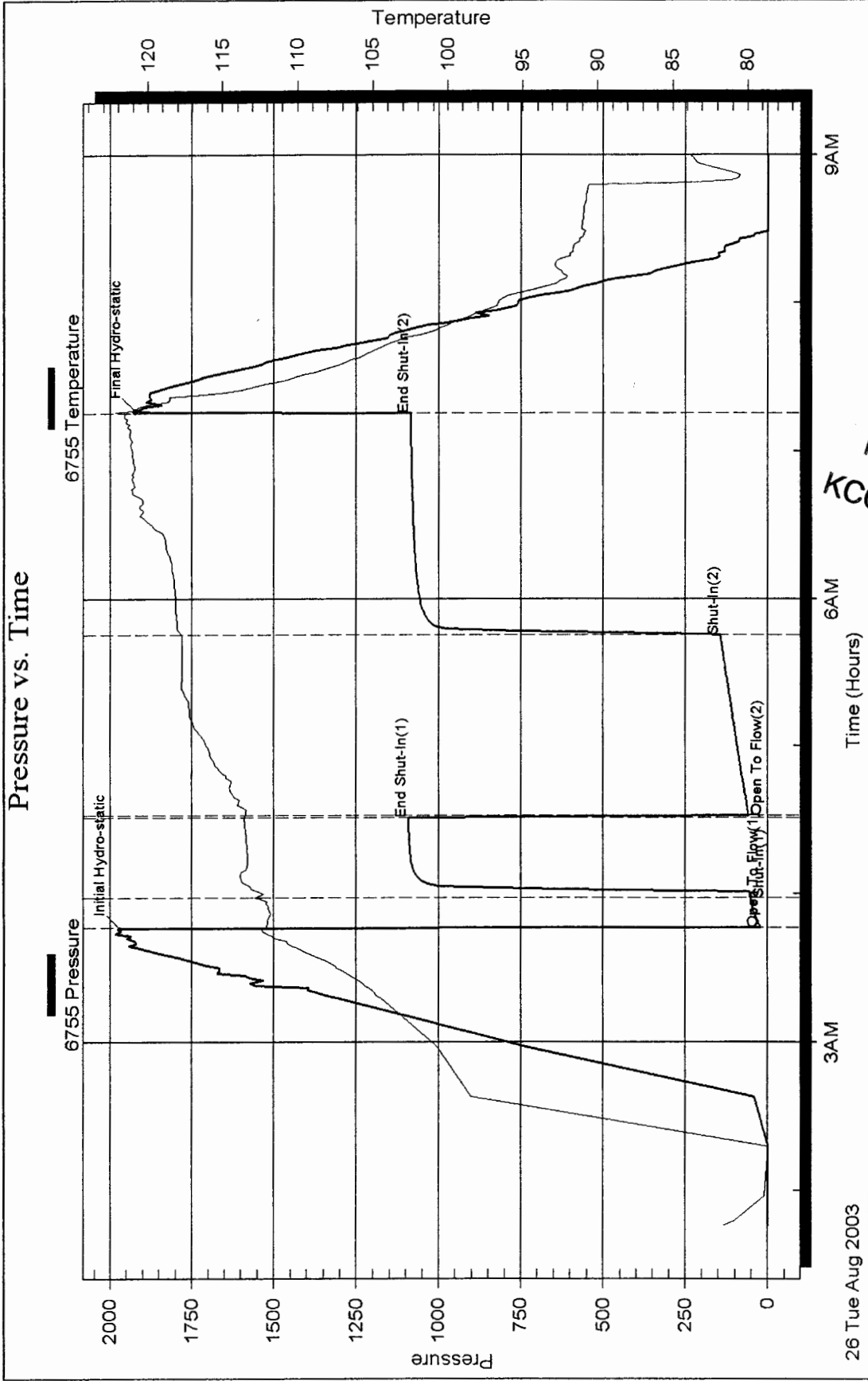
**Tool Description**

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

Change Over Sub	1.00			4038.00	
Shut In Tool	5.00			4043.00	
Hydraulic tool	5.00			4048.00	
Jars	5.00			4053.00	
Safety Joint	3.00			4056.00	
Packer	5.00			4061.00	29.00      Bottom Of Top Packer
Packer	5.00			4066.00	
Stubb	1.00			4067.00	
Recorder	0.00	6755	Inside	4067.00	
Perforations	40.00			4107.00	
Recorder	0.00	13254	Outside	4107.00	
Bullnose	3.00			4110.00	44.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**

 <b>TRILOBITE TESTING, INC.</b>		DRILL STEM TEST REPORT		FLUID SUMMARY							
		Carmen Schmitt, Inc		Bentley #1							
PO Box 47 Great Bend, Ks 67530		13-16-28-Lane-Ks		Job Ticket: 16162      DST#: 2							
ATTN: Carmen Schmitt		Test Start: 2003.08.26 @ 01:45:33									
<b>Mud and Cushion Information</b>											
Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API						
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm						
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl								
Water Loss:	8.75 in <sup>3</sup>	Gas Cushion Type:									
Resistivity:	ohm.m	Gas Cushion Pressure:	psig								
Salinity:	3200.00 ppm										
Filter Cake:	inches										
<b>Recovery Information</b>											
Recovery Table											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Length ft</th> <th style="width: 55%;">Description</th> <th style="width: 30%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">275.00</td> <td>Wtr Rw .25 @ 80 = 25000ppm</td> <td style="text-align: center;">3.038</td> </tr> </tbody> </table>						Length ft	Description	Volume bbl	275.00	Wtr Rw .25 @ 80 = 25000ppm	3.038
Length ft	Description	Volume bbl									
275.00	Wtr Rw .25 @ 80 = 25000ppm	3.038									
Total Length:	275.00 ft	Total Volume:	3.038 bbl								
Num Fluid Samples:	0	Num Gas Bombs:	0	Serial #:							
Laboratory Name:		Laboratory Location:									
Recovery Comments:											
<p style="font-size: 24pt; font-weight: bold; transform: rotate(-15deg);">RECEIVED</p> <p style="font-size: 24pt; font-weight: bold; transform: rotate(-15deg);">FEB 11 2004</p> <p style="font-size: 24pt; font-weight: bold; transform: rotate(-15deg);">KCC WICHITA</p>											



RECEIVED  
 FEB 11 2004  
 KCC WICHITA

RECEIVED  
FEB 11 2004  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, Ks 67530

ATTN: Carmen Schmitt

**13-16-28-Lane-Ks**

**Bentley #1**

Start Date: 2003.08.26 @ 17:30:43

End Date: 2003.08.27 @ 02:35:43

Job Ticket #: 16163                      DST #: 3

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

Carmen Schmitt, Inc

Bentley #1

13-16-28-Lane-Ks

DST # 3

1

LKC

2003.08.26





**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc

**Bentley #1**

PO Box 47  
Great Bend, Ks 67530

**13-16-28-Lane-Ks**

Job Ticket: 16163      **DST#: 3**

ATTN: Carmen Schmitt

Test Start: 2003.08.26 @ 17:30:43

### Tool Information

Drill Pipe:	Length: 4019.00 ft	Diameter: 3.80 inches	Volume: 56.38 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 56.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	40.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4098.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**RECEIVED**  
**FEB 11 2004**  
**KCC WICHITA**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4070.00	
Shut In Tool	5.00			4075.00	
Hydraulic tool	5.00			4080.00	
Jars	5.00			4085.00	
Safety Joint	3.00			4088.00	
Packer	5.00			4093.00	29.00      Bottom Of Top Packer
Packer	5.00			4098.00	
Stubb	1.00			4099.00	
Recorder	0.00	6755	Inside	4099.00	
Perforations	36.00			4135.00	
Recorder	0.00	13254	Outside	4135.00	
Bullnose	3.00			4138.00	40.00      Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc

**Bentley #1**

PO Box 47  
Great Bend, Ks 67530

**13-16-28-Lane-Ks**

Job Ticket: 16163      **DST#: 3**

ATTN: Carmen Schmitt

Test Start: 2003.08.26 @ 17:30:43

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 28000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.33 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Mdy Wtr Rw .20 @ 78 = 28000ppm	0.920
40.00	OCMdyW 20%o 60%w 20%m	0.561
145.00	MCGsyO 10%g 60%o 30%m	2.034
226.00	CGsyO 20%g 80%o	3.170
0.00	908 GIP36	0.000

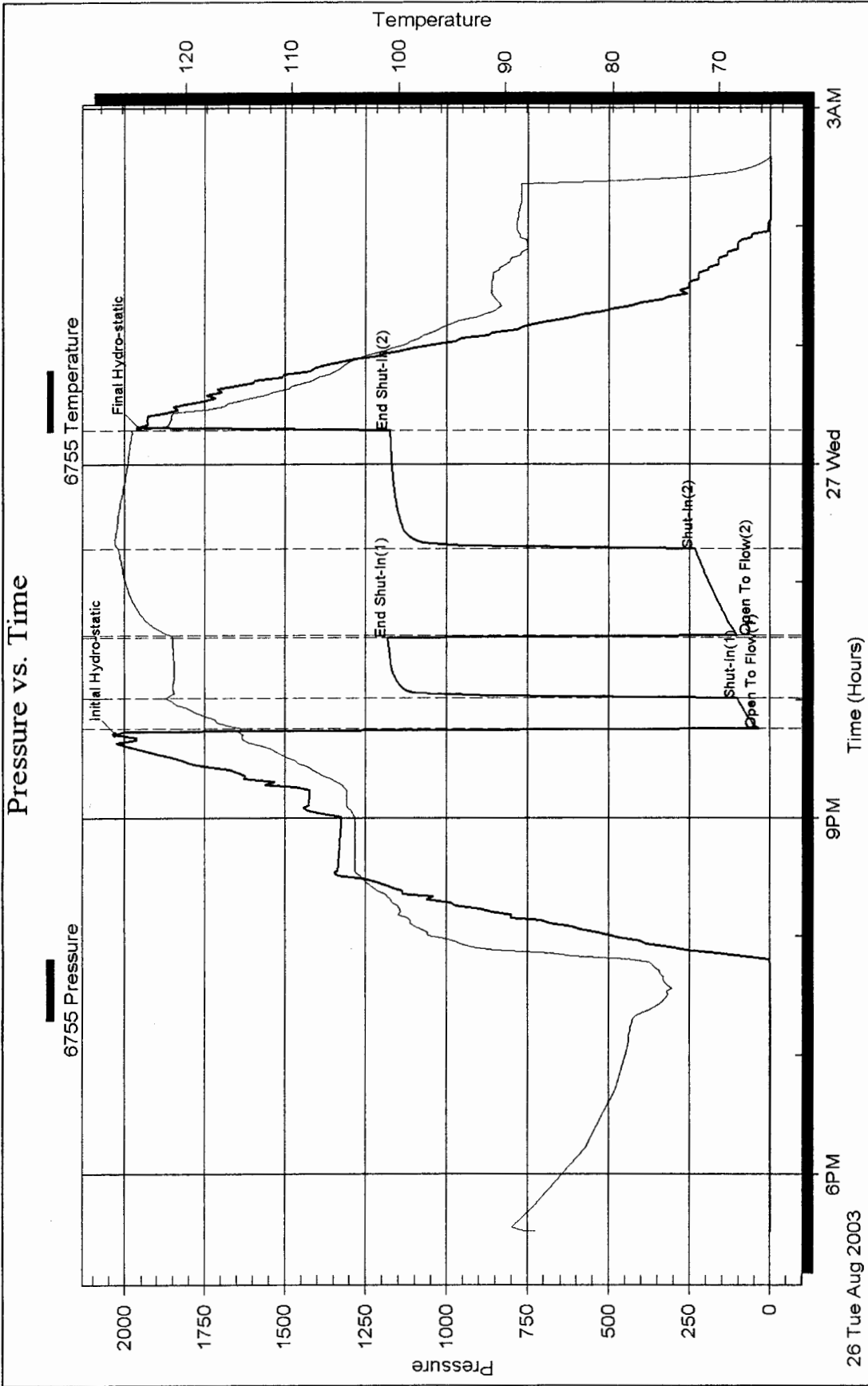
Total Length: 535.00 ft      Total Volume: 6.685 bbl

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

Laboratory Name:      Laboratory Location:

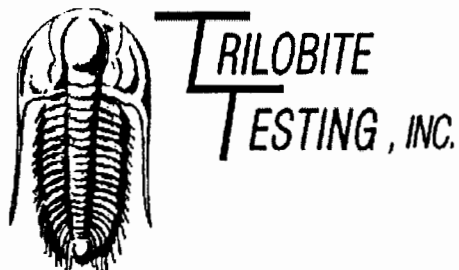
Recovery Comments:

**RECEIVED**  
**FEB 11 2004**  
**KCC WICHITA**



RECEIVED  
 FEB 11 2004  
 KCC WICHITA

RECEIVED  
FEB 11 2004  
KCC WICHITA



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, Ks 67530

ATTN: Carmen Schmitt

**13-16-28-Lane-Ks**

**Bentley #1**

Start Date: 2003.08.27 @ 12:35:29

End Date: 2003.08.27 @ 19:50:59

Job Ticket #: 16164                      DST #: 4

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

Carmen Schmitt, Inc

Bentley #1

13-16-28-Lane-Ks

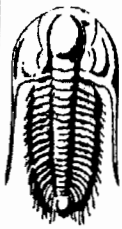
DST # 4

J

LKC

2003.08.27





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Carmen Schmitt, Inc  
PO Box 47  
Great Bend, Ks 67530  
ATTN: Carmen Schmitt

**Bentley #1**  
**13-16-28-Lane-Ks**  
Job Ticket: 16164      **DST#: 4**  
Test Start: 2003.08.27 @ 12:35:29


**Tool Information**

Drill Pipe:	Length: 4051.00 ft	Diameter: 3.80 inches	Volume: 56.82 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4138.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**RECEIVED**  
**FEB 11 2004**  
**KCC WICHITA**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4110.00	
Shut In Tool	5.00			4115.00	
Hydraulic tool	5.00			4120.00	
Jars	5.00			4125.00	
Safety Joint	3.00			4128.00	
Packer	5.00			4133.00	29.00      Bottom Of Top Packer
Packer	5.00			4138.00	
Stubb	1.00			4139.00	
Recorder	0.00	6755	Inside	4139.00	
Perforations	28.00			4167.00	
Recorder	0.00	13254	Outside	4167.00	
Bullnose	3.00			4170.00	32.00      Bottom Packers & Anchor

**Total Tool Length: 61.00**

 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT		FLUID SUMMARY
	Carmen Schmitt, Inc  PO Box 47 Great Bend, Ks 67530  ATTN: Carmen Schmitt	<b>Bentley #1</b>  <b>13-16-28-Lane-Ks</b>  Job Ticket: 16164 <b>DST#: 4</b>  Test Start: 2003.08.27 @ 12:35:29	

**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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

**Recovery Information**

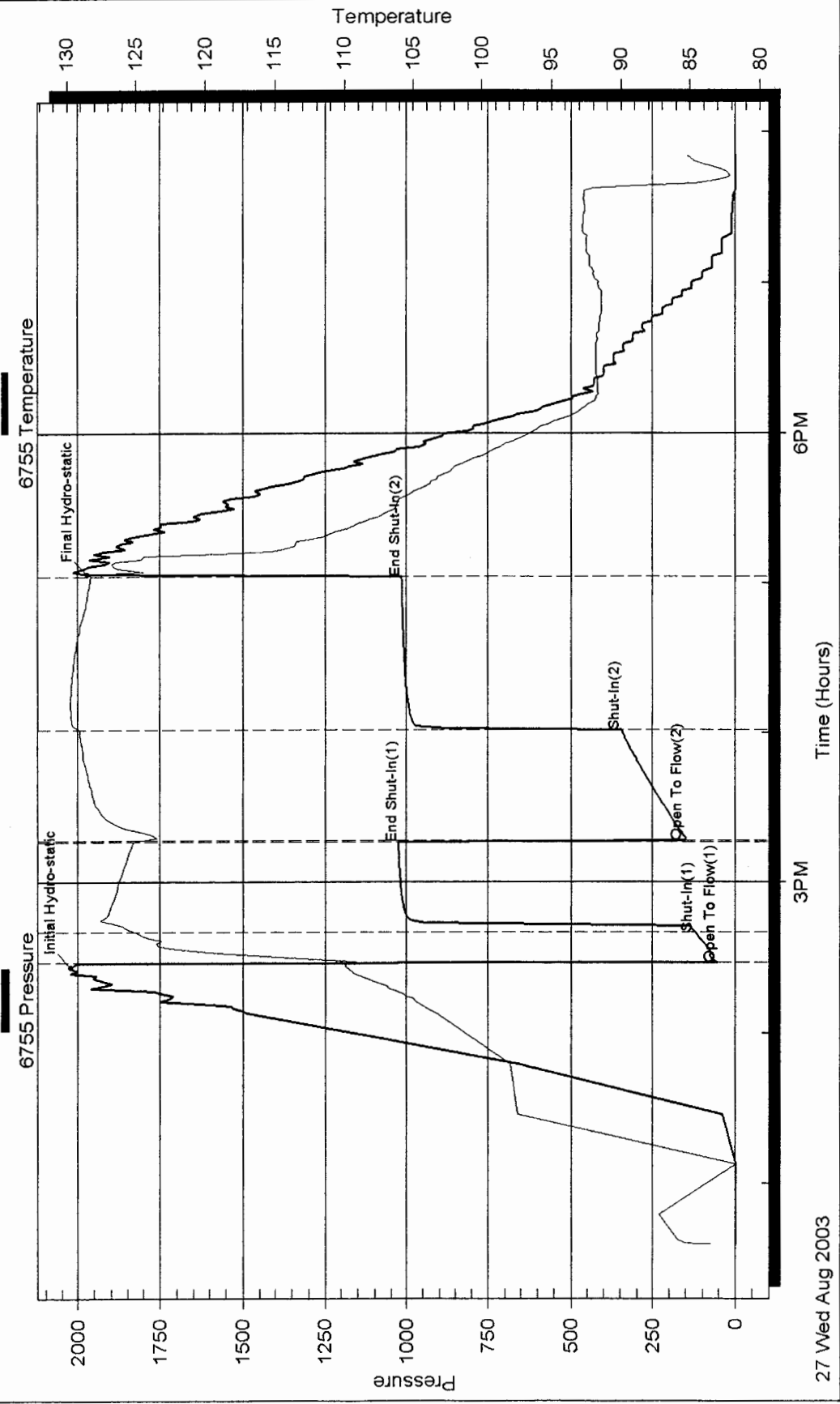
Recovery Table

Length ft	Description	Volume bbl
155.00	MCGsyO 20%g 60%o 20%m	1.354
755.00	CGsyO 20%g 80%o	10.591
0.00	1875 GIP	0.000

Total Length: 910.00 ft	Total Volume: 11.945 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:
Laboratory Name:	Laboratory Location:	
Recovery Comments:		

RECEIVED  
 FEB 11 2004  
 KCC WICHITA

# Pressure vs. Time



27 Wed Aug 2003

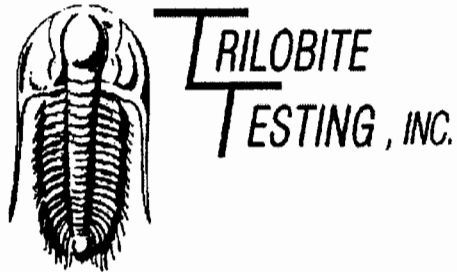
3PM

Time (Hours)

6PM

RECEIVED  
 FEB 11 2004  
 KCC WICHITA

RECEIVED  
FEB 11 2004  
KCC WICHITA



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, Ks 67530

ATTN: Carmen Schmitt

**13-16-28-Lane-Ks**

**Bentley #1**

Start Date: 2003.08.28 @ 04:55:44

End Date: 2003.08.28 @ 12:17:44

Job Ticket #: 16165                      DST #: 5

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

Carmen Schmitt, Inc

Bentley #1


13-16-28-Lane-Ks

DST # 5

K

LKC

2003.08.28



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67530  
 ATTN: Carmen Schmitt

**Bentley #1**  
**13-16-28-Lane-Ks**  
 Job Ticket: 16165      **DST#: 5**  
 Test Start: 2003.08.28 @ 04:55:44

**GENERAL INFORMATION:**

Formation: **K LKC**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 07:09:44  
 Time Test Ended: 12:17:44

**Interval: 4171.00 ft (KB) To 4204.00 ft (KB) (TVD)**  
**Total Depth: 4204.00 ft (KB) (TVD)**  
**Hole Diameter: 7.88 inches** Hole Condition: **Good**

Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 21

Reference Elevations: 2699.00 ft (KB)  
 2694.00 ft (CF)  
 KB to GR/CF: 5.00 ft

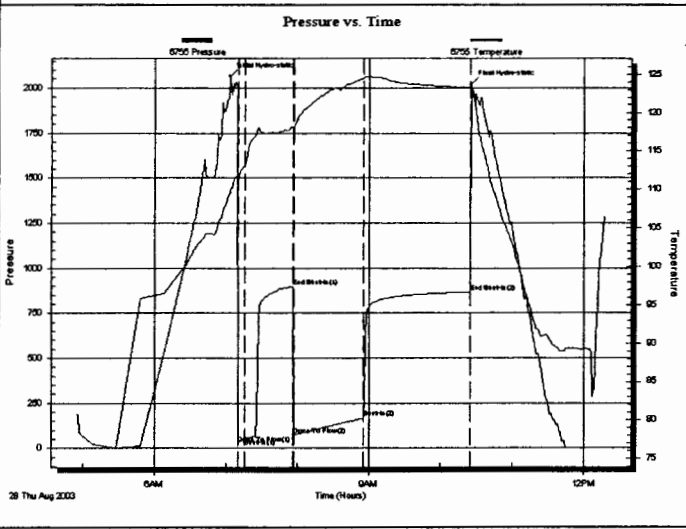
**RECEIVED**  
**FEB 11 2004**  
**KCC WICHITA**

**Serial #: 6755**      **Inside**

Press@RunDepth: 165.49 psig @ 4172.00 ft (KB)  
 Start Date: 2003.08.28      End Date: 2003.08.28  
 Start Time: 04:55:45      End Time: 12:17:44

Capacity: 7000.00 psig  
 Last Calib.: 2003.08.28  
 Time On Btm: 2003.08.28 @ 07:02:44  
 Time Off Btm: 2003.08.28 @ 10:25:44

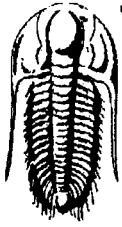
**TEST COMMENT:** IF-Weak building to 6 1/4"  
 FF-Weak building to fair BOB in 60 min  
 Times-15-30-60-90



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.98	109.63	Initial Hydro-static
7	22.54	111.09	Open To Flow (1)
13	57.03	113.16	Shut-In(1)
53	895.76	118.08	End Shut-In(1)
54	72.97	117.94	Open To Flow (2)
113	165.49	124.50	Shut-In(2)
203	866.41	123.29	End Shut-In(2)
203	2017.99	123.37	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
310.00	Mdy Wtr 80%w 20%m	3.53
10.00	DM	0.14
5.00	CO	0.07
0.00	Rw .16 @ 80 = 42000	0.00

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67530  
 ATTN: Carmen Schmitt

**Bentley #1**  
**13-16-28-Lane-Ks**  
 Job Ticket: 16165      **DST#: 5**  
 Test Start: 2003.08.28 @ 04:55:44

**Tool Information**


Drill Pipe:	Length: 4113.00 ft	Diameter: 3.80 inches	Volume: 57.69 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 58.13 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	61.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4171.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

**RECEIVED**  
**FEB 11 2004**  
**KCC WICHITA**

**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			4143.00	
Shut In Tool	5.00			4148.00	
Hydraulic tool	5.00			4153.00	
Jars	5.00			4158.00	
Safety Joint	3.00			4161.00	
Packer	5.00			4166.00	29.00      Bottom Of Top Packer
Packer	5.00			4171.00	
Stubb	1.00			4172.00	
Recorder	0.00	6755	Inside	4172.00	
Perforations	29.00			4201.00	
Recorder	0.00	13254	Outside	4201.00	
Bullnose	3.00			4204.00	33.00      Bottom Packers & Anchor

**Total Tool Length: 62.00**

 <b>TRILOBITE TESTING, INC</b>	<b>DRILL STEM TEST REPORT</b>		<b>FLUID SUMMARY</b>
	Carmen Schmitt, Inc PO Box 47 Great Bend, Ks 67530  ATTN: Carmen Schmitt	<b>Bentley #1</b>  <b>13-16-28-Lane-Ks</b> Job Ticket: 16165 <b>DST#: 5</b>  Test Start: 2003.08.28 @ 04:55:44	

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil Apt:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	42000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
310.00	Mdy Wtr 80%w 20%m	3.529
10.00	DM	0.140
5.00	CO	0.070
0.00	Rw .16 @ 80 = 42000	0.000

Total Length: 325.00 ft      Total Volume: 3.739 bbl

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

Laboratory Name:      Laboratory Location:

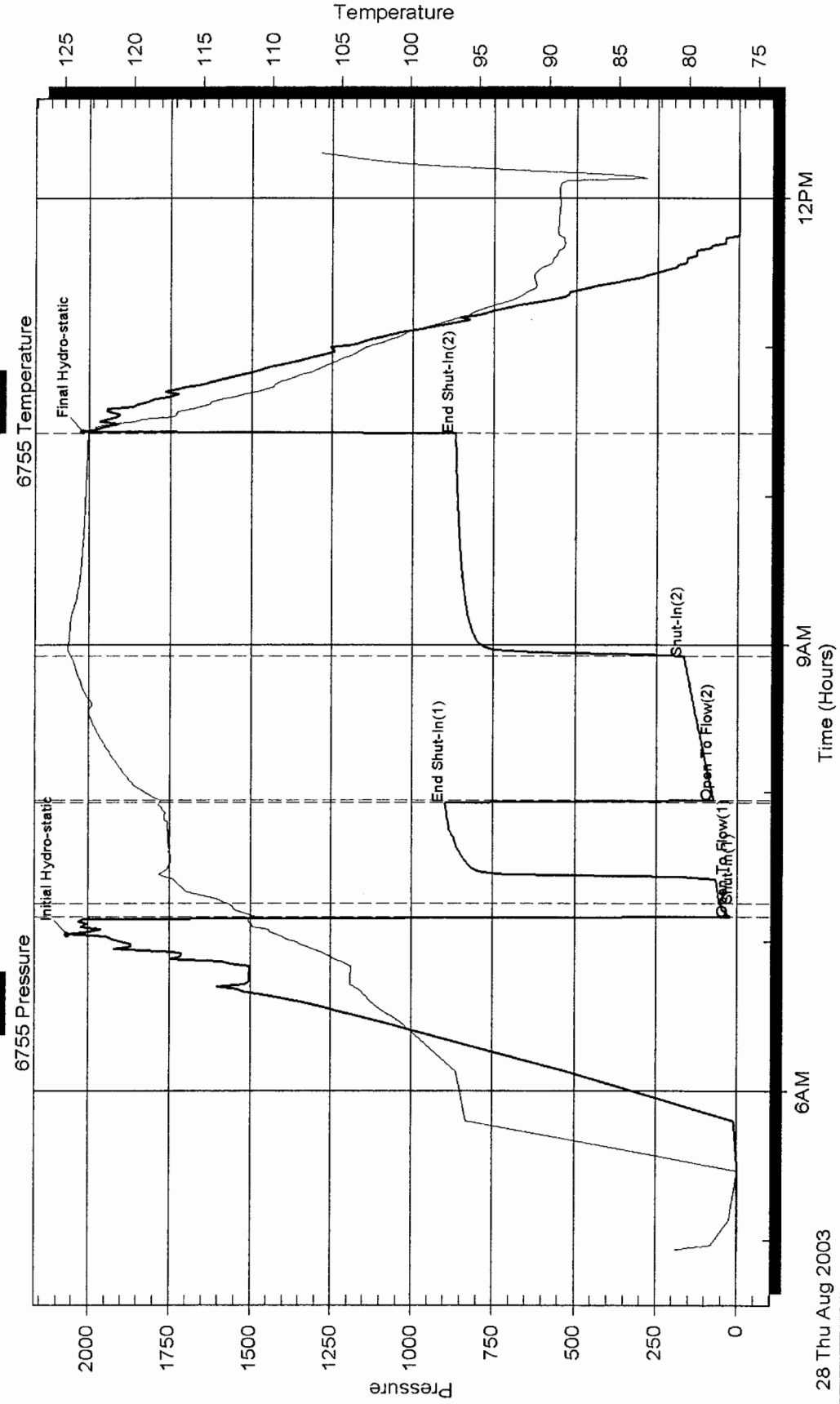
Recovery Comments:

**RECEIVED**

**FEB 11 2004**

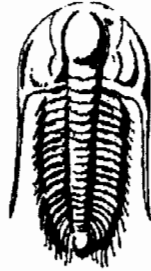
**KCC WICHITA**

### Pressure vs. Time



RECEIVED  
 FEB 11 2004  
 KCC WICHITA

RECEIVED  
FEB 11 2004  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, Ks 67530

ATTN: Carmen Schmitt

**13-16-28-Lane-Ks**

**Bentley #1**

Start Date: 2003.08.29 @ 10:55:21

End Date: 2003.08.29 @ 17:49:21

Job Ticket #: 16166                      DST #: 6

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

Carmen Schmitt, Inc

Bentley #1

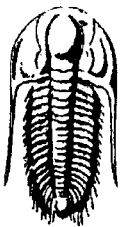
13-16-28-Lane-Ks

DST # 6

Marmaton

2003.08.29





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc

**Bentley #1**

PO Box 47  
Great Bend, Ks 67530

**13-16-28-Lane-Ks**

Job Ticket: 16166

**DST#: 6**

ATTN: Carmen Schmitt

Test Start: 2003.08.29 @ 10:55:21

### Tool Information

Drill Pipe: Length: 4238.00 ft Diameter: 3.80 inches Volume: 59.45 bbl  
 Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl  
 Drill Collar: Length: 90.00 ft Diameter: 2.25 inches Volume: 0.44 bbl  
 Total Volume: 59.89 bbl

Drill Pipe Above KB: 91.00 ft  
 Depth to Top Packer: 4304.00 ft  
 Depth to Bottom Packer: ft  
 Interval between Packers: 43.00 ft  
 Tool Length: 110.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Weight: 2400.00 lb  
 Weight set on Packer: 25000.00 lb  
 Weight to Pull Loose: 90000.00 lb  
 Tool Chased 0.00 ft  
 String Weight: Initial 58000.00 lb  
 Final 58000.00 lb

**RECEIVED  
FEB 11 2004  
KCC WICHITA**

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

Change Over Sub	39.00			4276.00	
Shut In Tool	5.00			4281.00	
Hydraulic tool	5.00			4286.00	
Jars	5.00			4291.00	
Safety Joint	3.00			4294.00	
Packer	5.00			4299.00	67.00 Bottom Of Top Packer
Packer	5.00			4304.00	
Stubb	1.00			4305.00	
Recorder	0.00	6755	inside	4305.00	
Perforations	39.00			4344.00	
Recorder	0.00	13254	Outside	4344.00	
Bullnose	3.00			4347.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 110.00**



**TRILOBITE TESTING, INC.**

### DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc  
PO Box 47  
Great Bend, Ks 67530  
ATTN: Carmen Schmitt

**Bentley #1**  
**13-16-28-Lane-Ks**  
Job Ticket: 16166      **DST#: 6**  
Test Start: 2003.08.29 @ 10:55:21

#### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 9.59 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2500.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

#### Recovery Information

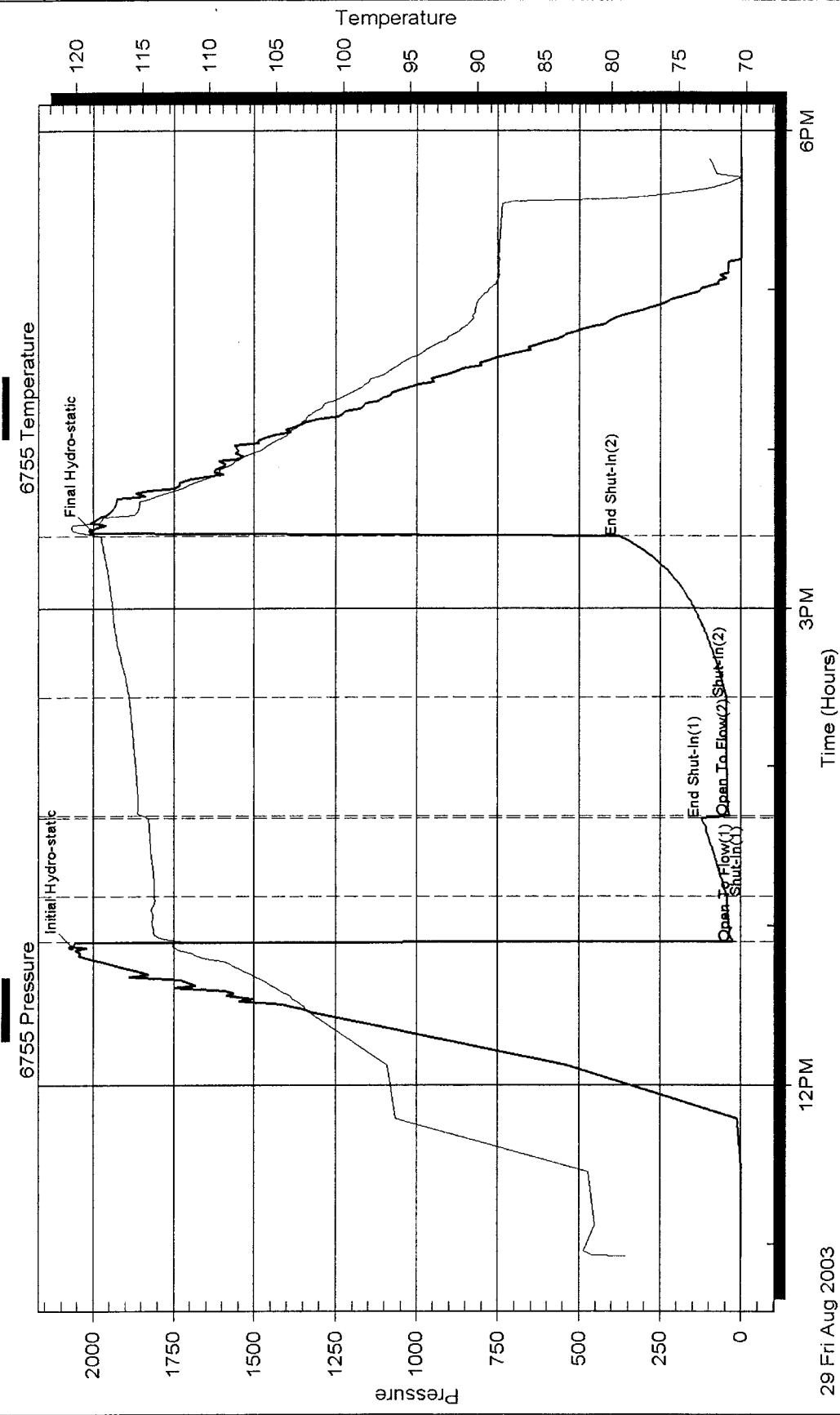
Recovery Table

Length ft	Description	Volume bbl
75.00	StillyOCM 2%o 98%m	0.369

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

**RECEIVED**  
**FEB 11 2004**  
**KCC WICHITA**

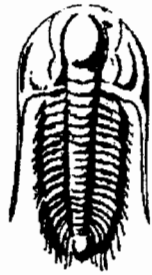
# Pressure vs. Time



29 Fri Aug 2003

RECEIVED  
 FEB 1 | 2004  
 KCC WICHITA

RECEIVED  
FEB 11 2004  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, Ks 67530

ATTN: Carmen Schmitt

**13-16-28-Lane-Ks**

**Bentley #1**

Start Date: 2003.08.30 @ 08:30:13

End Date: 2003.08.30 @ 16:45:13

Job Ticket #: 16167      DST #: 7

Carmen Schmitt, Inc

Bentley #1

13-16-28-Lane-Ks

DST # 7

Fort Scott

2003.08.30

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67530  
 ATTN: Carmen Schmitt

**Bentley #1**  
**13-16-28-Lane-Ks**  
 Job Ticket: 16167      **DST#: 7**  
 Test Start: 2003.08.30 @ 08:30:13

**GENERAL INFORMATION:**

Formation: **Fort Scott**  
 Deviated: **No** Whipstock:      ft (KB)  
 Time Tool Opened: 10:33:13  
 Time Test Ended: 16:45:13  
**Interval: 4398.00 ft (KB) To 4457.00 ft (KB) (TVD)**  
 Total Depth: 4457.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

**RECEIVED**  
**FEB 11 2004**  
**KCC WICHITA**

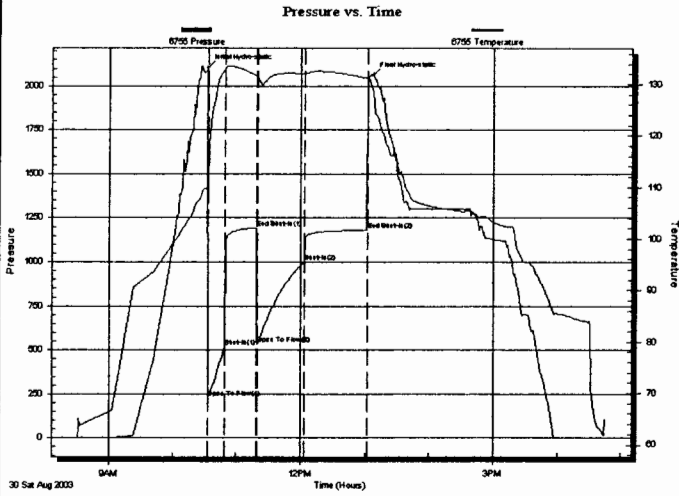
Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 21  
 Reference Elevations: 2699.00 ft (KB)  
 2694.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6755**

**Inside**

Press@RunDepth: 1001.01 psig @ 4405.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2003.08.30      End Date: 2003.08.30      Last Calib.: 2003.08.30  
 Start Time: 08:30:14      End Time: 16:45:13      Time On Btm: 2003.08.30 @ 10:32:43  
 Time Off Btm: 2003.08.30 @ 13:06:13

**TEST COMMENT:** F-Strong BOB in 1.5 min  
 FF-Strong BOB in 1 min-GTS in 8 min-TSTM-Sample taken  
 Times-15-30-45-60



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.99	109.87	Initial Hydro-static
1	225.53	110.27	Open To Flow (1)
17	518.04	132.98	Shut-in(1)
46	1193.32	131.72	End Shut-in(1)
47	532.04	131.30	Open To Flow (2)
91	1001.01	132.04	Shut-in(2)
149	1183.65	131.18	End Shut-in(2)
154	2060.79	129.24	Final Hydro-static

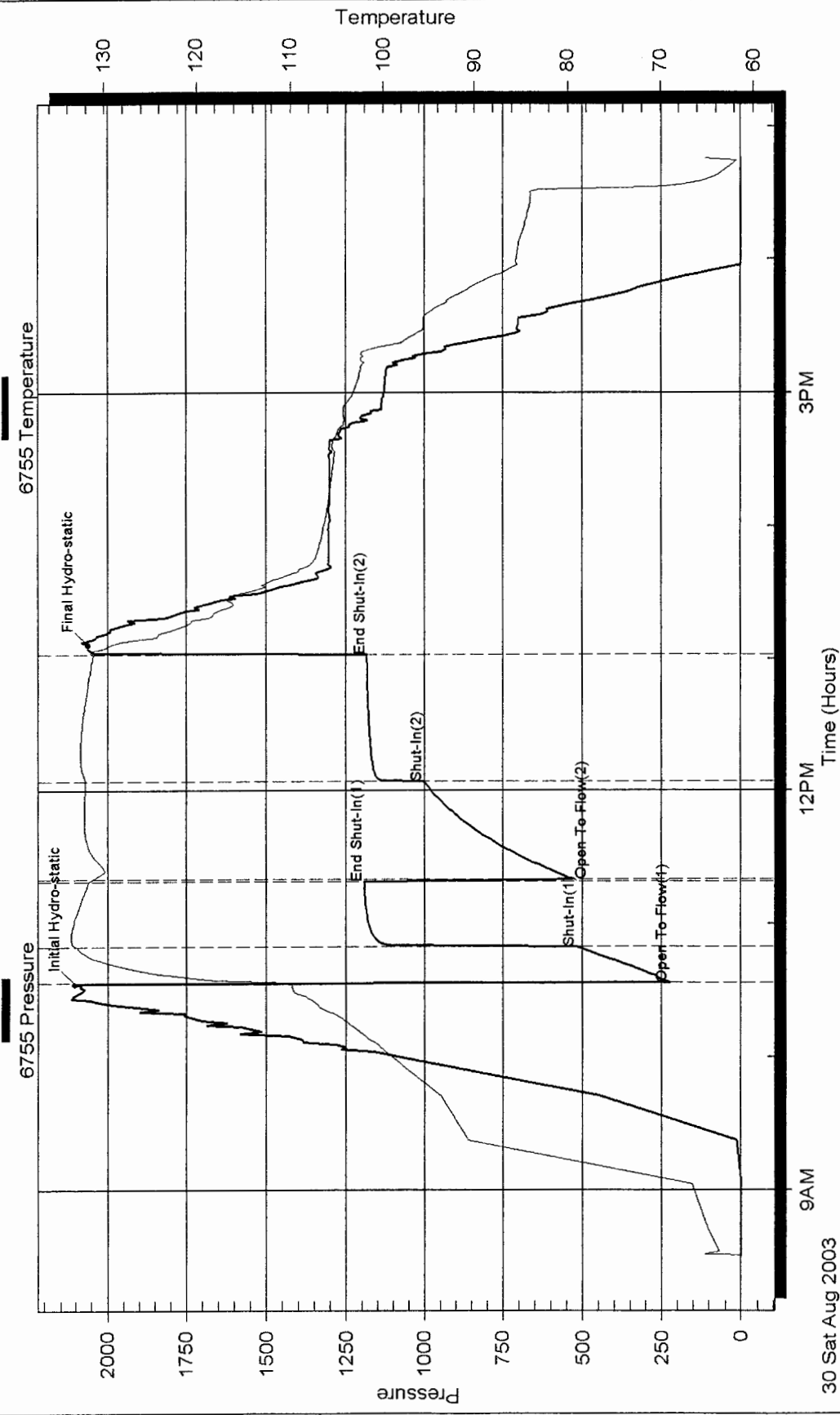
**Recovery**

Length (ft)	Description	Volume (bbl)
2920.00	CGsyO 30%g 70%o	40.14

**Gas Rates**

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

### Pressure vs. Time



RECEIVED  
 FEB 11 2004  
 KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc

**Bentley #1**

PO Box 47  
Great Bend, Ks 67530

**13-16-28-Lane-Ks**

Job Ticket: 16167

**DST#: 7**

ATTN: Carmen Schmitt


Test Start: 2003.08.30 @ 08:30:13

### Tool Information

Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 90000.00 lb
		<b>Total Volume:</b>	<b>61.22 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	54.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4398.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

RECEIVED  
FEB 11 2004  
KCC WICHITA

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4370.00	
Shut In Tool	5.00			4375.00	
Hydraulic tool	5.00			4380.00	
Jars	5.00			4385.00	
Safety Joint	3.00			4388.00	
Packer	5.00			4393.00	29.00 Bottom Of Top Packer
Packer	5.00			4398.00	
Stubb	1.00			4399.00	
Perforations	5.00			4404.00	
Change Over Sub	1.00			4405.00	
Recorder	0.00	6755	Inside	4405.00	
Blank Spacing	31.00			4436.00	
Change Over Sub	0.00			4436.00	
Recorder	0.00	13254	Outside	4436.00	
Perforations	17.00			4453.00	
Bullnose	3.00			4456.00	58.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>87.00</b>				

 <b>TRILOBITE TESTING, INC.</b>		DRILL STEM TEST REPORT		FLUID SUMMARY						
		Carmen Schmitt, Inc		<b>Bentley #1</b>						
PO Box 47 Great Bend, Ks 67530		<b>13-16-28-Lane-Ks</b>								
ATTN: Carmen Schmitt		Job Ticket: 16167	<b>DST#: 7</b>							
		Test Start: 2003.08.30 @ 08:30:13								
<b>Mud and Cushion Information</b>										
Mud Type:	Gel Chem	Cushion Type:		Oil API: 42 deg API						
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity: ppm						
Viscosity:	44.00 sec/qt	Cushion Volume:	bbl							
Water Loss:	8.79 in <sup>3</sup>	Gas Cushion Type:								
Resistivity:	ohm.m	Gas Cushion Pressure:	psig							
Salinity:	2000.00 ppm									
Filter Cake:	inches									
<b>Recovery Information</b>										
Recovery Table										
<table border="1"> <thead> <tr> <th>Length ft</th> <th>Description</th> <th>Volume bbl</th> </tr> </thead> <tbody> <tr> <td>2920.00</td> <td>CGsyO 30%g 70%o</td> <td>40.140</td> </tr> </tbody> </table>					Length ft	Description	Volume bbl	2920.00	CGsyO 30%g 70%o	40.140
Length ft	Description	Volume bbl								
2920.00	CGsyO 30%g 70%o	40.140								
Total Length:	2920.00 ft	Total Volume:	40.140 bbl							
Num Fluid Samples:	0	Num Gas Bombs:	0	Serial #:						
Laboratory Name:		Laboratory Location:								
Recovery Comments:										
<p><b>RECEIVED</b> <b>FEB 11 2004</b> <b>KCC WICHITA</b></p>										