

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Carmen Schmitt Inc

13-16-28 Lane,Ks

Bentley #2

Start Date: 2003.10.27 @ 21:32:45

End Date: 2003.10.28 @ 02:44:28

Job Ticket #: 17716 DST #: 1

15-101-21823
SE NW SE
1650 FSL 1800 FEL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Carmen Schmitt Inc

Bentley #2

13-16-28 Lane,Ks

DST # 1

G,H,I,J

2003.10.27



**TRILOBITE
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DRILL STEM TEST REPORT

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

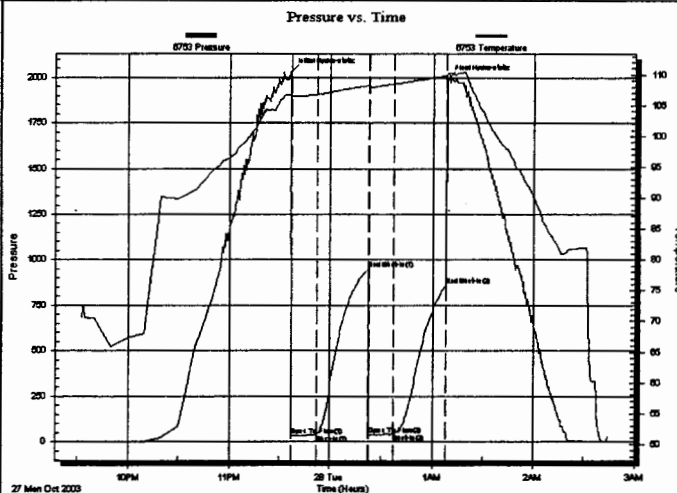
Bentley #2
13-16-28 Lane, Ks
Job Ticket: 17716 **DST#: 1**
Test Start: 2003.10.27 @ 21:32:45

GENERAL INFORMATION:

Formation: **G,H,I,J**
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
Time Tool Opened: **23:36:58** Tester: **Shane McBride**
Time Test Ended: **02:44:28** Unit No: **25**
Interval: **4044.00 ft (KB) To 4141.00 ft (KB) (TVD)** Reference Elevations: **2658.00 ft (KB)**
Total Depth: **4141.00 ft (KB) (TVD)** **2653.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 6753 **Inside**
Press@RunDepth: **40.54 psig @ 4045.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2003.10.27** End Date: **2003.10.28** Last Calib.: **1899.12.30**
Start Time: **21:32:45** End Time: **02:44:28** Time On Btm: **2003.10.27 @ 23:36:43**
Time Off Btm: **2003.10.28 @ 01:08:28**

TEST COMMENT: **1/2" in @ open died in 12 min**
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2028.50	106.93	Initial Hydro-static
1	32.56	106.50	Open To Flow (1)
16	36.77	106.79	Shut-In(1)
46	951.16	108.25	End Shut-In(1)
47	38.00	108.02	Open To Flow (2)
61	40.54	108.49	Shut-In(2)
92	858.44	109.82	End Shut-In(2)
92	1992.00	110.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w/oil spots on top 100% m	0.07

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

Bentley #2

PO Box 47
Great Bend, KS 67530

13-16-28 Lane, Ks

Job Ticket: 17716

DST#: 1

ATTN: Carmen Schmitt Inc

Test Start: 2003.10.27 @ 21:32:45

Tool Information

Drill Pipe:	Length: 4043.00 ft	Diameter: 3.80 inches	Volume: 56.71 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	56.71 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4044.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	97.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4018.00	
Shut In Tool	5.00			4023.00	
Hydraulic tool	5.00			4028.00	
Jars	5.00			4033.00	
Safety Joint	2.00			4035.00	
Packer	5.00			4040.00	27.00 Bottom Of Top Packer
Packer	4.00			4044.00	
Stubb	1.00			4045.00	
Recorder	0.00	6753	Inside	4045.00	
Perforations	27.00			4072.00	
Change Over Sub	1.00			4073.00	
drillpipe	62.00			4135.00	
Change Over Sub	1.00			4136.00	
Recorder	0.00	11058	Outside	4136.00	
Bullnose	5.00			4141.00	97.00 Bottom Packers & Anchor

Total Tool Length: 124.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

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

Bentley #2
13-16-28 Lane, Ks
Job Ticket: 17716 **DST#: 1**
Test Start: 2003.10.27 @ 21:32:45

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:	2500 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

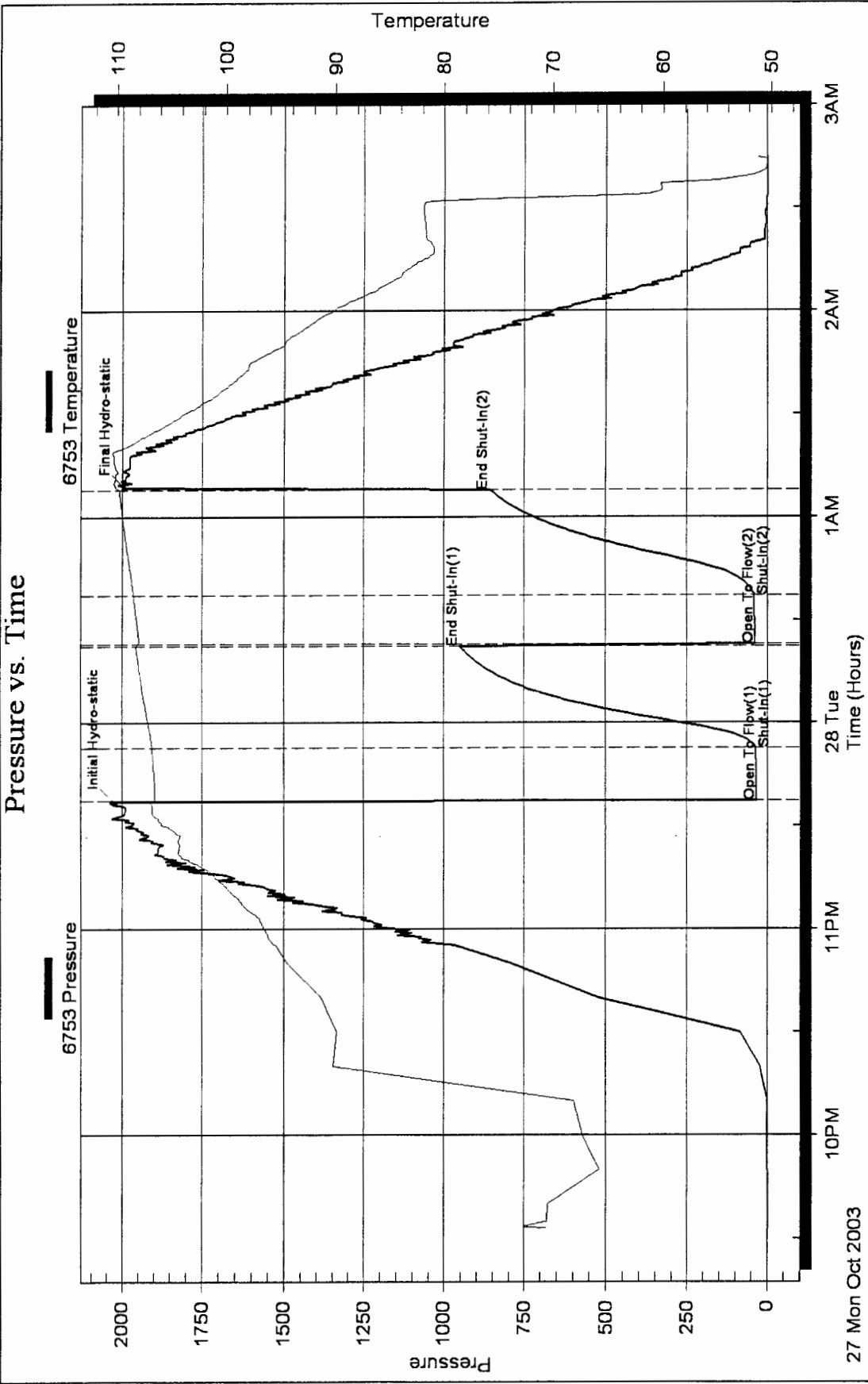
Length ft	Description	Volume bbl
5.00	mud w/oil spots on top 100%m	0.070

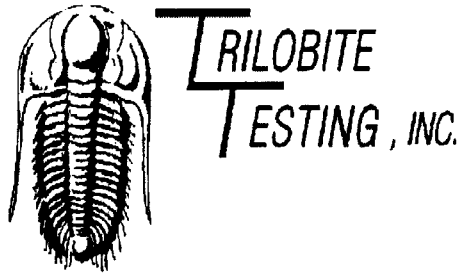
Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Carmen Schmitt Inc

13-16-28 Lane,Ks

Bentley #2

Start Date: 2003.10.28 @ 11:27:44

End Date: 2003.10.28 @ 16:00:00

Job Ticket #: 17717 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Carmen Schmitt Inc

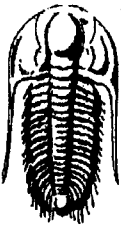
Bentley #2

13-16-28 Lane,Ks

DST # 2

K

2003.10.28



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DRILL STEM TEST REPORT

Carmen Schmitt Inc
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 Great Bend, KS 67530
 ATTN: Carmen Schmitt Inc

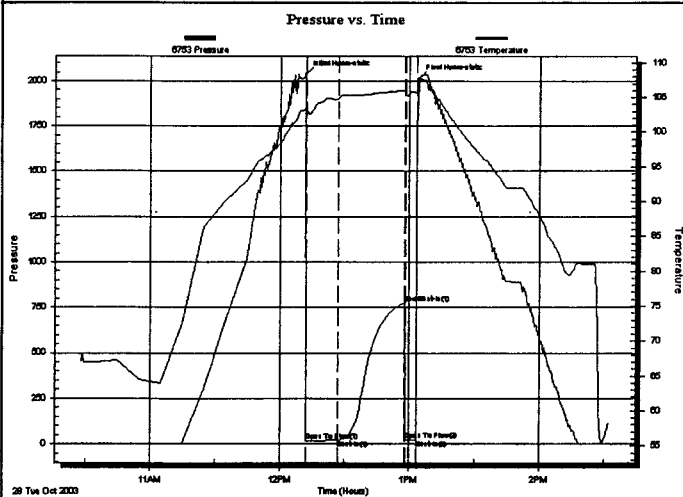
Bentley #2
13-16-28 Lane, Ks
 Job Ticket: 17717 DST#: 2
 Test Start: 2003.10.28 @ 11:27:44

GENERAL INFORMATION:

Formation: K
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:25:12
 Time Test Ended: 16:00:00
 Interval: 4138.00 ft (KB) To 4175.00 ft (KB) (TVD)
 Total Depth: 4175.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 25
 Reference Elevations: 2658.00 ft (KB)
 2653.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6753 **Inside**
 Press@RunDepth: 19.99 psig @ 4139.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2003.10.28 End Date: 2003.10.28 Last Calib.: 1899.12.30
 Start Time: 10:27:44 End Time: 14:32:42 Time On Btm: 2003.10.28 @ 12:11:57
 Time Off Btm: 2003.10.28 @ 13:03:57

TEST COMMENT: Weak blow died in 12 min
 No return
 No blow ,pull tool



PRESSURE SUMMARY

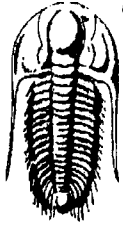
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2037.69	103.47	Initial Hydro-static
1	15.13	102.58	Open To Flow (1)
15	19.99	104.87	Shut-in(1)
46	774.75	105.99	End Shut-In(1)
46	21.83	105.51	Open To Flow (2)
52	23.74	105.70	Shut-in(2)
52	2013.23	107.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w/oil spots on top	0.07

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530

Bentley #2
13-16-28 Lane, Ks
Job Ticket: 17717 **DST#: 2**
Test Start: 2003.10.28 @ 11:27:44

Tool Information

Drill Pipe:	Length: 4136.00 ft	Diameter: 3.80 inches	Volume: 58.02 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 58.02 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4138.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	64.00 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			4112.00	
Shut In Tool	5.00			4117.00	
Hydraulic tool	5.00			4122.00	
Jars	5.00			4127.00	
Safety Joint	2.00			4129.00	
Packer	5.00			4134.00	27.00 Bottom Of Top Packer
Packer	4.00			4138.00	
Stubb	1.00			4139.00	
Recorder	0.00	6753	Inside	4139.00	
Perforations	31.00			4170.00	
Recorder	0.00	11058	Outside	4170.00	
Bullnose	5.00			4175.00	37.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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Bentley #2

13-16-28 Lane, Ks

Job Ticket: 17717

DST#: 2

ATTN: Carmen Schmitt Inc

Test Start: 2003.10.28 @ 11:27:44

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:	2500 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w /oil spots on top	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

