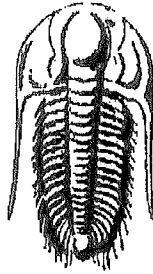


11-13s-34w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

P.O. Box 47
GreatBend KS 67530

15-109-20910

ATTN: Tom Funk

11 13 34 Logan KS

Sharpe- Beckman #1

Start Date: 2010.05.07 @ 01:30:00

End Date: 2010.05.07 @ 09:39:00

Job Ticket #: 38023 DST #: 1

**KCC
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RECEIVED

JUN 03 2010

KCC WICHITA

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Carmen Schmitt, Inc.

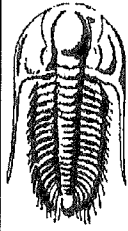
Sharpe- Beckman #1

11 13 34 Logan KS

DST # 1

LKC-H-I

2010.05.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
P.O. Box 47
GreatBend KS 67530
ATTN: Tom Funk

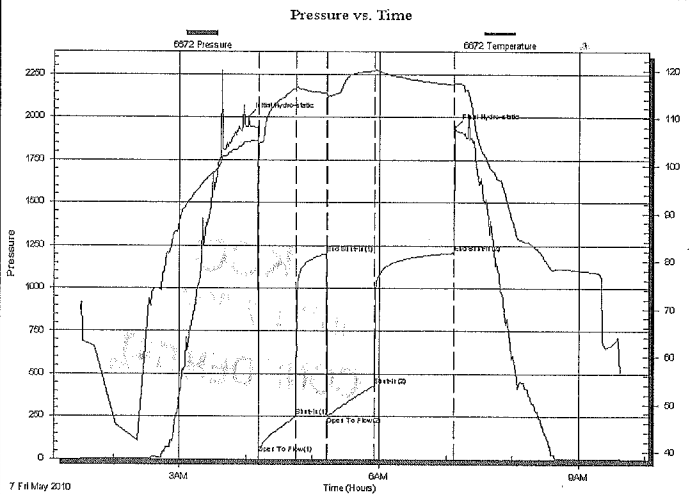
Sharpe- Beckman #1
11 13 34 Logan KS
Job Ticket: 38023 **DST#: 1**
Test Start: 2010.05.07 @ 01:30:00

GENERAL INFORMATION:

Formation: **LKC-H-I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:11:30
Time Test Ended: 09:39:00
Interval: **4044.00 ft (KB) To 4110.00 ft (KB) (TVD)**
Total Depth: 4110.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Kreutzer Jr.
Unit No: 36
Reference Elevations: 2982.00 ft (KB)
2970.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6672 Inside
Press@RunDepth: 432.50 psig @ 4051.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.05.07 End Date: 2010.05.07 Last Calib.: 2010.05.07
Start Time: 01:30:05 End Time: 09:38:59 Time On Btm: 2010.05.07 @ 04:02:00
Time Off Btm: 2010.05.07 @ 07:08:29

TEST COMMENT: IF: Strong blow B.O.B in 7 mins.
IS: Bled off, No blow back over 30 mins.
FF: Strong blow B.O.B in 8 mins.
FSI: Bled off, No blow back over 60 mins.,



PRESSURE SUMMARY

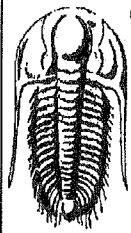
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.49	105.11	Initial Hydro-static
10	34.99	104.38	Open To Flow (1)
43	249.74	116.21	Shut-In(1)
71	1201.41	115.25	End Shut-In(1)
72	251.25	114.79	Open To Flow (2)
114	432.50	119.96	Shut-In(2)
185	1206.98	117.16	End Shut-In(2)
187	1941.79	117.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
270.00	mcw-25% m75%w	2.66
270.00	w cm-50%w 50%m	3.79
270.00	w cm-20%w 80%m	3.79

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
P.O. Box 47
GreatBend KS 67530
ATTN: TomFunk

Sharpe- Beckman #1
11 13 34 Logan KS
Job Ticket: 38023 **DST#: 1**
Test Start: 2010.05.07 @ 01:30:00

Tool Information

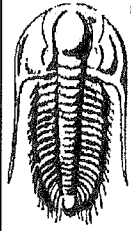
Drill Pipe:	Length: 3922.00 ft	Diameter: 3.80 inches	Volume: 55.02 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	55.63 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4044.00 ft			Final 70000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4021.00	
Hydraulic tool	5.00			4026.00	
Jars	5.00			4031.00	
Safety Joint	3.00			4034.00	
Packer	5.00			4039.00	28.00 Bottom Of Top Packer
Packer	5.00			4044.00	
Stubb	1.00			4045.00	
Perforations	5.00			4050.00	
Change Over Sub	1.00			4051.00	
Recorder	0.00	6672	Inside	4051.00	
Recorder	0.00	6752	Inside	4051.00	
Blank Spacing	30.00			4081.00	
Change Over Sub	1.00			4082.00	
Perforations	25.00			4107.00	
Bullnose	3.00			4110.00	66.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
P.O. Box 47
GreatBend KS 67530

ATTN: Tom Funk

Sharpe- Beckman #1
11 13 34 Logan KS
Job Ticket: 38023 **DST#: 1**
Test Start: 2010.05.07 @ 01:30:00

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: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 2.00 inches			

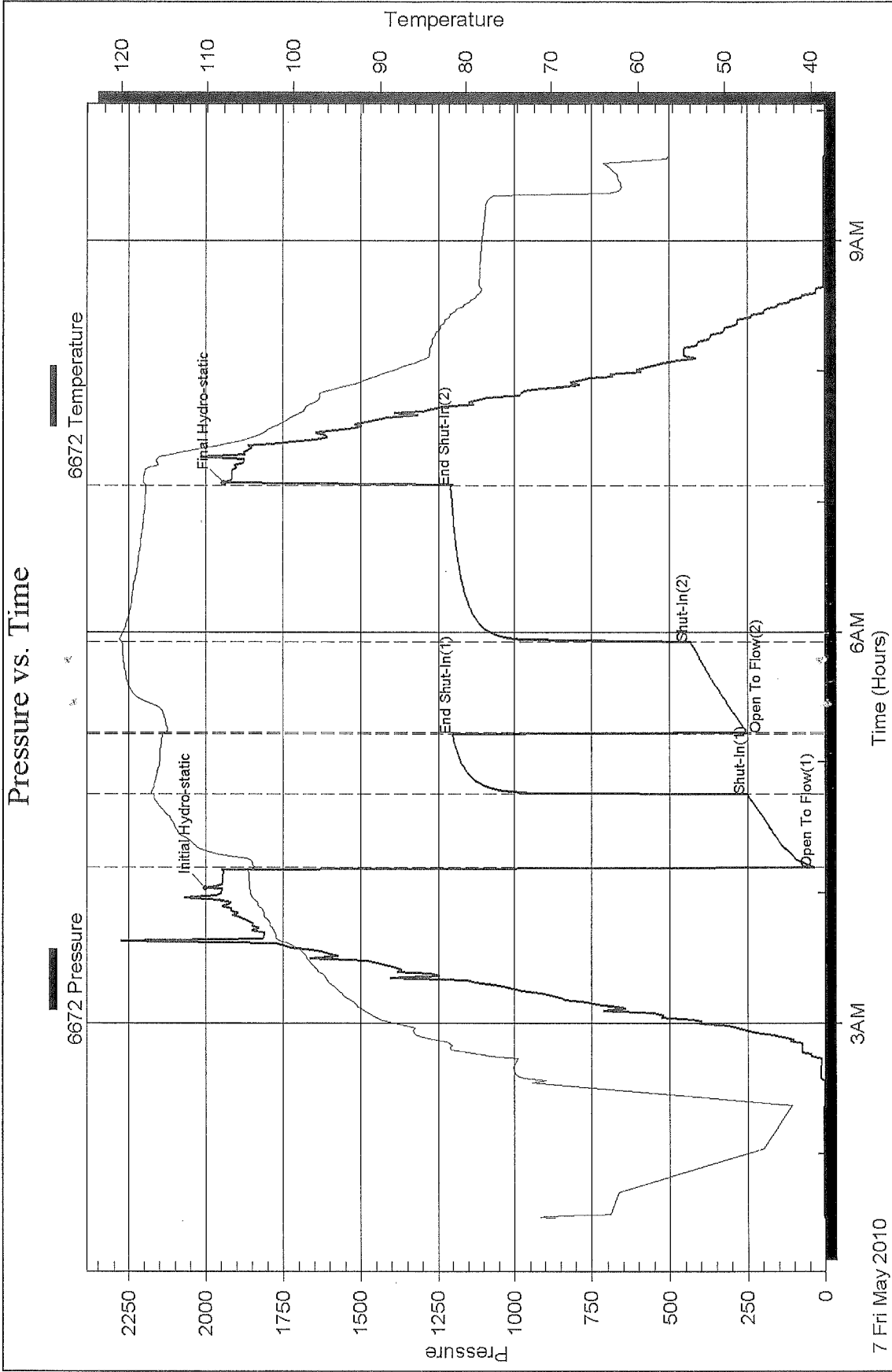
Recovery Information

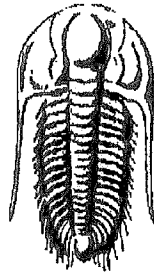
Recovery Table

Length ft	Description	Volume bbl
270.00	mcw -25% m 75% w	2.658
270.00	w cm-50% w 50% m	3.787
270.00	w cm-20% w 80% m	3.787

Total Length: ft Total Volume: 14.019 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

P.O. Box 47
GreatBend KS 67530

ATTN: Tom Funk

11 13 34 Logan KS

Sharpe- Beckman #1

Start Date: 2010.05.09 @ 04:15:00

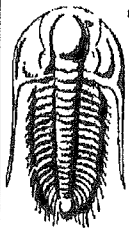
End Date: 2010.05.09 @ 12:21:30

Job Ticket #: 38024 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
P.O. Box 47
Great Bend KS 67530
ATTN: Tom Funk

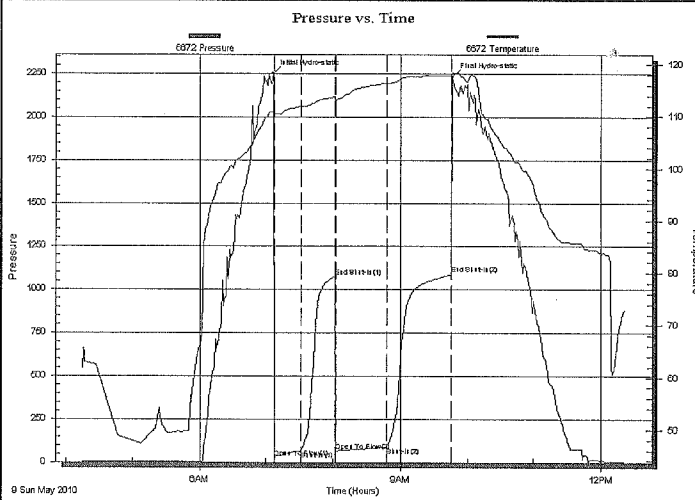
Sharpe- Beckman #1
11 13 34 Logan KS
Job Ticket: 38024 DST#: 2
Test Start: 2010.05.09 @ 04:15:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:07:30
Time Test Ended: 12:21:30
Interval: **4450.00 ft (KB) To 4530.00 ft (KB) (TVD)**
Total Depth: 4530.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Kreutzer Jr.
Unit No: 36
Reference Elevations: 2982.00 ft (KB)
2970.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6672 Inside
Press@RunDepth: 89.84 psig @ 4457.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.05.09 End Date: 2010.05.09 Last Calib.: 2010.05.09
Start Time: 04:15:05 End Time: 12:21:29 Time On Btm: 2010.05.09 @ 07:06:30
Time Off Btm: 2010.05.09 @ 09:46:59

TEST COMMENT: IF: Weak blow, Built to 3 1/4 in. over 15 mins.
ISI: No blow back over 30 mins.
FF: Fair blow, Built to B.O.B in 25 mins.
FSI: No blow back over 60 mins.



PRESSURE SUMMARY

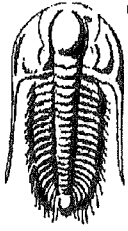
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.48	110.90	Initial Hydro-static
1	27.71	110.42	Open To Flow (1)
26	67.88	111.93	Shut-In (1)
56	1076.27	113.76	End Shut-In (1)
57	67.41	113.29	Open To Flow (2)
102	89.84	116.36	Shut-In (2)
159	1088.80	117.81	End Shut-In (2)
161	2232.04	118.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	gsocm-10%g5%o85% m	0.61
61.00	socm-5%o95% m	0.86
0.00	244' gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

Sharpe- Beckman #1

P.O. Box 47
GreatBend KS 67530

11 13 34 Logan KS

Job Ticket: 38024

DST#: 2

ATTN: Tom Funk

Test Start: 2010.05.09 @ 04:15:00

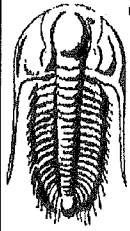
Tool Information

Drill Pipe:	Length: 4318.00 ft	Diameter: 3.80 inches	Volume: 60.57 bbl	Tool Weight: 2800.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.18 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4450.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4427.00	
Hydraulic tool	5.00			4432.00	
Jars	5.00			4437.00	
Safety Joint *	3.00			4440.00	
Packer	5.00			4445.00	28.00 Bottom Of Top Packer
Packer	5.00			4450.00	
Stubb	1.00			4451.00	
Perforations	5.00			4456.00	
Change Over Sub	1.00			4457.00	
Recorder	0.00	6672	Inside	4457.00	
Recorder	0.00	6752	Inside	4457.00	
Blank Spacing	61.00			4518.00	
Change Over Sub	1.00			4519.00	
Perforations	8.00			4527.00	
Bullnose	3.00			4530.00	80.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
P.O. Box 47
GreatBend KS 67530
ATTN: Tom Funk

Sharpe- Beckman #1
11 13 34 Logan KS
Job Ticket: 38024 **DST#: 2**
Test Start: 2010.05.09 @ 04:15:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5800.00 ppm			
Filter Cake: 2.00 inches			

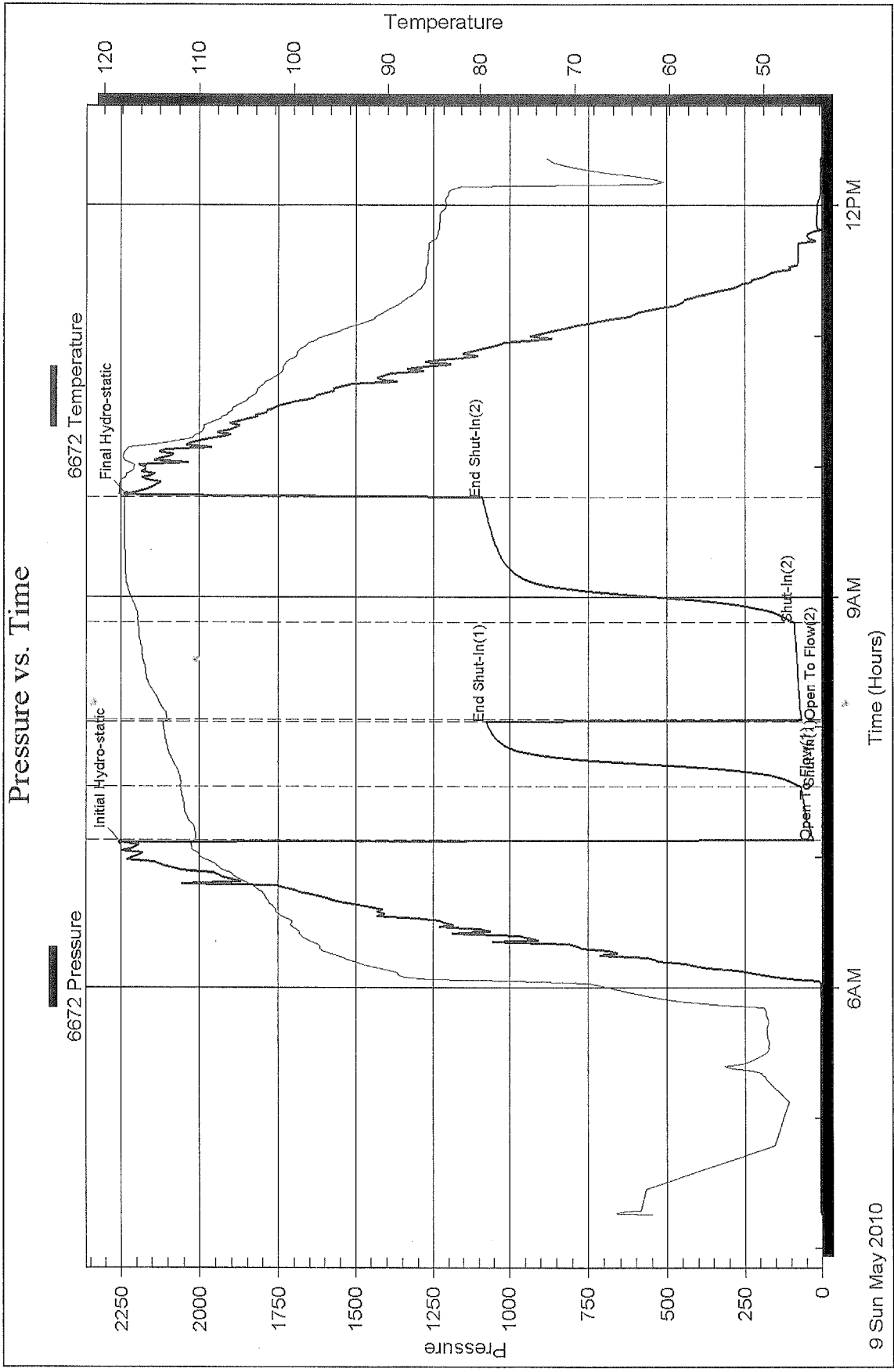
Recovery Information

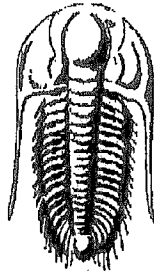
Recovery Table

Length ft	Description	Volume bbl
124.00	gsocm-10%g5%o85%m	0.610
61.00	socm-5%o95%m	0.856
0.00	244' gas in pipe	0.000

Total Length: 185.00 ft Total Volume: 1.466 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

P.O. Box 47
GreatBend KS 67530

ATTN: Tom Funk

11 13 34 Logan KS

Sharpe- Beckman #1

Start Date: 2010.05.10 @ 00:50:00

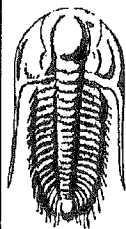
End Date: 2010.05.10 @ 09:06:30

Job Ticket #: 38025 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

P.O. Box 47
Great Bend KS 67530

ATTN: Tom Funk

Sharpe- Beckman #1

11 13 34 Logan KS

Job Ticket: 38025

DST#: 3

Test Start: 2010.05.10 @ 00:50:00

GENERAL INFORMATION:

Formation: **Basal sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:26:30

Time Test Ended: 09:06:30

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: **4530.00 ft (KB) To 4613.00 ft (KB) (TVD)**

Total Depth: 4613.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2982.00 ft (KB)

2970.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6672

Inside

Press@RunDepth: 190.31 psig @ 4537.00 ft (KB)

Start Date: 2010.05.10

End Date:

2010.05.10

Start Time: 00:50:05

End Time:

09:06:29

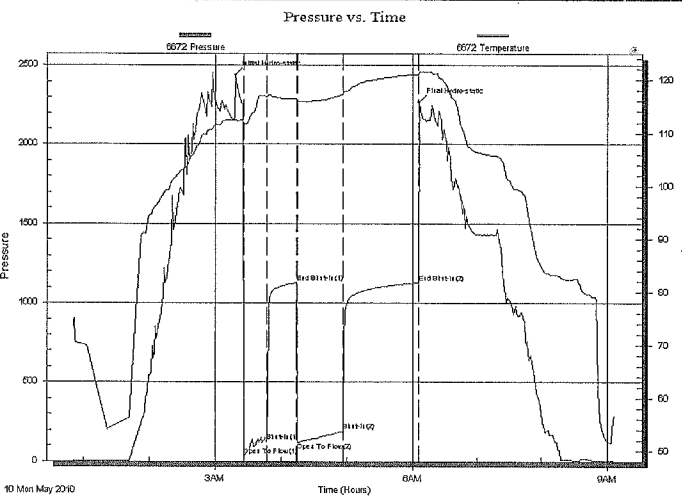
Capacity: 8000.00 psig

Last Calib.: 2010.05.10

Time On Btm: 2010.05.10 @ 03:18:30

Time Off Btm: 2010.05.10 @ 06:06:30

TEST COMMENT: IF: Fair blow, built to 5 in. over 15 mins.
 IS: No blow back over 30 mins.
 FF: Weak blow, built to 7 in. over 45 mins.
 FSI: No blow back over 60 mins.



PRESSURE SUMMARY

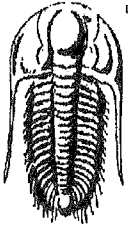
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2437.01	112.36	Initial Hydro-static
8	35.01	111.56	Open To Flow (1)
29	123.66	116.80	Shut-In(1)
56	1127.45	116.39	End Shut-In(1)
57	121.75	115.93	Open To Flow (2)
98	190.31	117.29	Shut-In(2)
167	1127.41	121.00	End Shut-In(2)
168	2268.22	121.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw-25% m75% w	0.61
120.00	w cm-40% w 60% m	1.68
180.00	w cm-20% w 80% m	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

Sharpe- Beckman #1

P.O. Box 47
GreatBend KS 67530

11 13 34 Logan KS

Job Ticket: 38025

DST#: 3

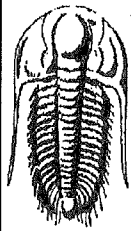
ATTN: TomFunk

Test Start: 2010.05.10 @ 00:50:00

Tool Information

Drill Pipe:	Length: 4384.00 ft	Diameter: 3.80 inches	Volume: 61.50 bbl	Tool Weight: 2800.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.11 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4530.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4507.00	
Hydraulic tool	5.00			4512.00	
Jars	5.00			4517.00	
Safety Joint	3.00			4520.00	
Packer	5.00			4525.00	28.00 Bottom Of Top Packer
Packer	5.00			4530.00	
Stubb	1.00			4531.00	
Perforations	5.00			4536.00	
Change Over Sub	1.00			4537.00	
Recorder	0.00	6672	Inside	4537.00	
Recorder	0.00	6752	Inside	4537.00	
Blank Spacing	61.00			4598.00	
Change Over Sub	1.00			4599.00	
Perforations	11.00			4610.00	
Bullnose	3.00			4613.00	83.00 Bottom Packers & Anchor
Total Tool Length:		111.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

Sharpe- Beckman #1

P.O. Box 47
GreatBend KS 67530

11 13 34 Logan KS

Job Ticket: 38025

DST#: 3

ATTN: Tom Funk

Test Start: 2010.05.10 @ 00:50:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.49 in²

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw -25% m 75% w	0.610
120.00	w cm -40% w 60% m	1.683
180.00	w cm -20% w 80% m	2.525

Total Length: 424.00 ft Total Volume: 4.818 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

