

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Comanche Resources Comp**

6520 N. Western Ave  
Ste 300  
Oklahoma City, OK 73116

ATTN: Sean Deenihan

**20-19-34 Scott, KS**

**Conn #20-1**

Start Date: 2010.11.01 @ 07:33:29

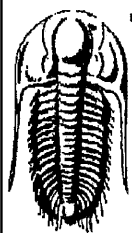
End Date: 2010.11.01 @ 13:40:44

Job Ticket #: 039689      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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# DRILL STEM TEST REPORT

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ATTN: Sean Deenihan

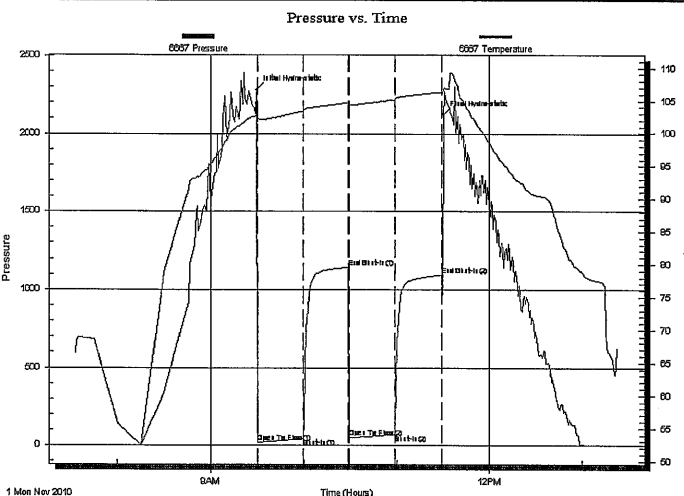
**Conn #20-1**  
**20-19-34 Scott, KS**  
Job Ticket: 039689      **DST#: 1**  
Test Start: 2010.11.01 @ 07:33:29

## GENERAL INFORMATION:

Formation: **Lower Lansing**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 09:29:44  
Time Test Ended: 13:40:44  
Interval: **4381.00 ft (KB) To 4454.00 ft (KB) (TVD)**  
Total Depth: **4454.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Shane McBride  
Unit No: 40  
Reference Elevations: 3142.00 ft (KB)  
3132.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6667**      Inside  
Press@RunDepth: 72.51 psig @ 4382.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.11.01      End Date: 2010.11.01      Last Calib.: 2010.11.01  
Start Time: 07:33:29      End Time: 13:22:44      Time On Btm: 2010.11.01 @ 09:29:29  
Time Off Btm: 2010.11.01 @ 11:29:59

**TEST COMMENT:** 2" in blow  
No return  
1/2" in + blow  
No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.86	102.73	Initial Hydro-static
1	20.68	101.76	Open To Flow (1)
31	44.89	103.43	Shut-In(1)
59	1142.77	104.68	End Shut-In(1)
60	49.80	104.31	Open To Flow (2)
90	72.51	105.15	Shut-In(2)
120	1094.78	106.33	End Shut-In(2)
121	2121.91	106.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
246.00	m c w 50% m 50% w	1.26

## Gas Rates

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Comanche Resources Comp

Conn #20-1

6520 N.Western Ave  
Ste 300  
Oklahoma City, OK 73116  
ATTN: Sean Deenihan

20-19-34 Scott, KS

Job Ticket: 039689

DST#: 1

Test Start: 2010.11.01 @ 07:33:29

## Tool Information

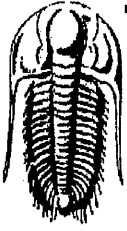
Drill Pipe:	Length: 4144.00 ft	Diameter: 3.80 inches	Volume: 58.13 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 59.32 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4381.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	100.00 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			4355.00	
Shut In Tool	5.00			4360.00	
Hydraulic tool	5.00			4365.00	
Jars	5.00			4370.00	
Safety Joint	2.00			4372.00	
Packer	5.00			4377.00	27.00 Bottom Of Top Packer
Packer	4.00			4381.00	
Stubb	1.00			4382.00	
Recorder	0.00	6771	Outside	4382.00	
Recorder	0.00	6667	Inside	4382.00	
Perforations	34.00			4416.00	
Change Over Sub	1.00			4417.00	
Drill Pipe	31.00			4448.00	
Change Over Sub	1.00			4449.00	
Bullnose	5.00			4454.00	73.00 Bottom Packers & Anchor

**Total Tool Length: 100.00**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Comanche Resources Comp

Conn #20-1

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Ste 300  
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ATTN: Sean Deenihan

20-19-34 Scott, KS

Job Ticket: 039689

DST#: 1

Test Start: 2010.11.01 @ 07:33:29

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 19000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.87 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 13500.00 ppm		
Filter Cake: 2.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
246.00	m c w 50% m 50% w	1.255

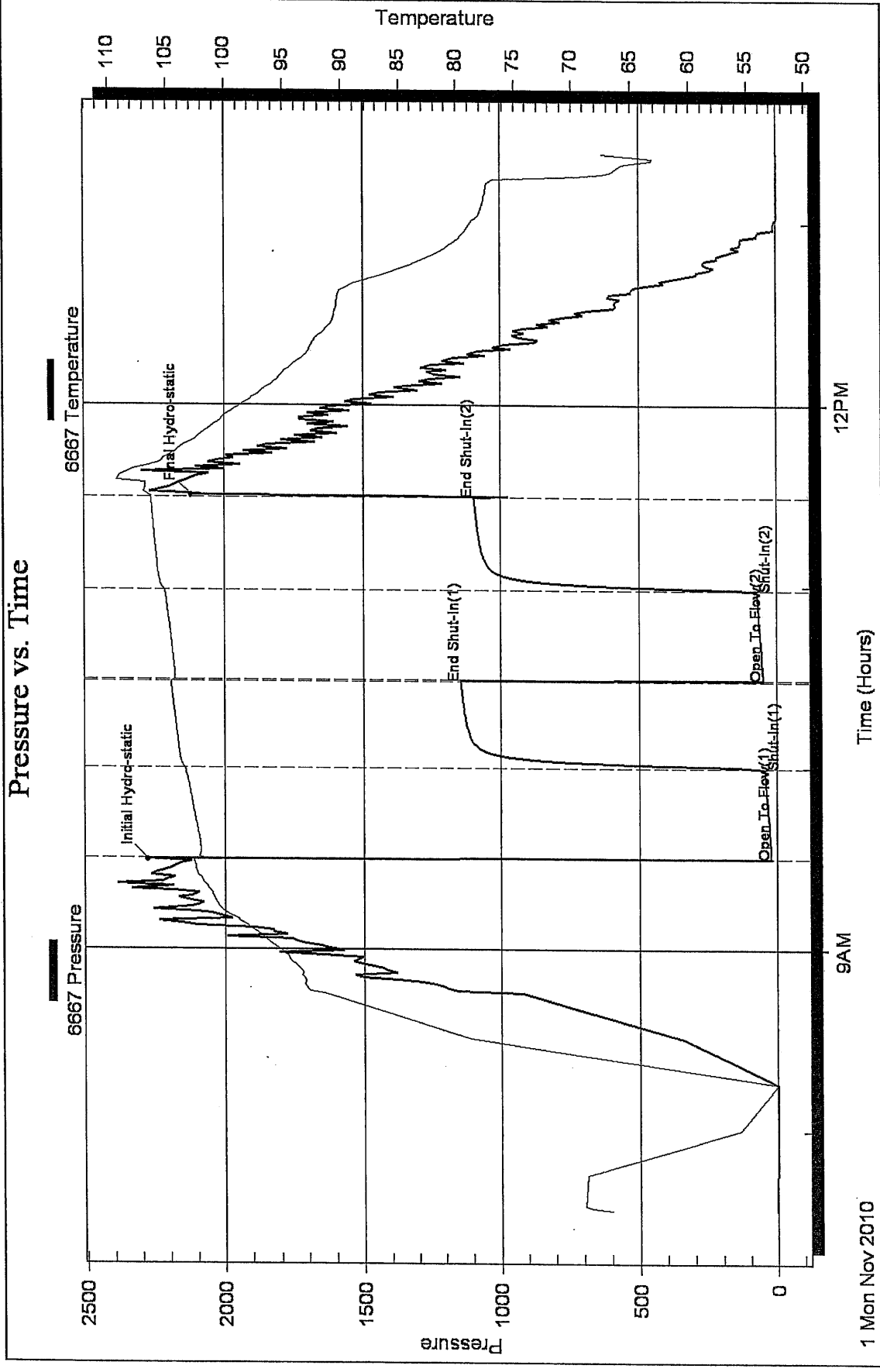
Total Length: 246.00 ft      Total Volume: 1.255 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: rw .307 @ 80\*f = 19,000 chlor

### Pressure vs. Time

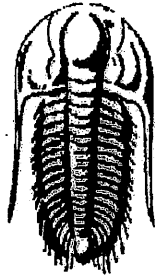


1 Mon Nov 2010

9 AM

12 PM





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## DRILL STEM TEST REPORT

Prepared For: **Comanche Resources Comp**

6520 N. Western Ave  
Ste 300  
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ATTN: Sean Deenihan

**20-19-34 Scott, KS**

**Conn #20-1**

Start Date: 2010.11.02 @ 04:40:59

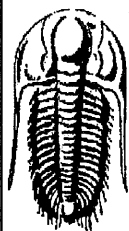
End Date: 2010.11.02 @ 10:55:29

Job Ticket #: 039690      DST #: 2

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# DRILL STEM TEST REPORT

Comanche Resources Comp

Conn #20-1

6520 N. Western Ave  
Ste 300  
Oklahoma City, OK 73116  
ATTN: Sean Deenihan

20-19-34 Scott, KS

Job Ticket: 039690

DST#: 2

Test Start: 2010.11.02 @ 04:40:59

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:40:14

Time Test Ended: 10:55:29

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4535.00 ft (KB) To 4599.00 ft (KB) (TVD)**

Reference Elevations: 3142.00 ft (KB)

Total Depth: 4599.00 ft (KB) (TVD)

3132.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

## Serial #: 6667

Inside

Press@RunDepth: 73.88 psig @ 4536.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.02

End Date: 2010.11.02

Last Calib.: 2010.11.02

Start Time: 04:40:59

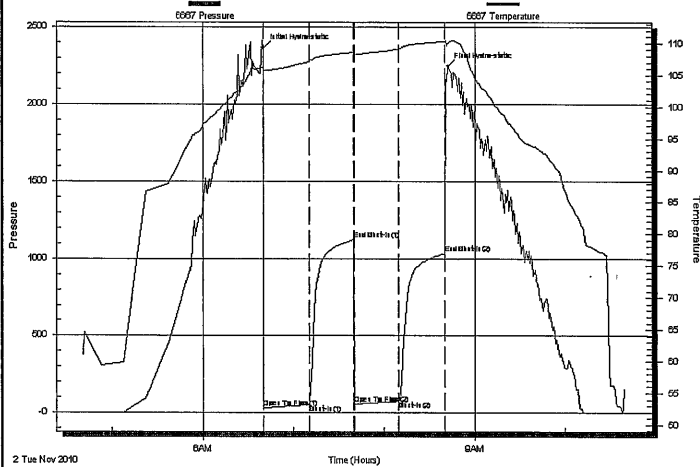
End Time: 10:40:29

Time On Btm: 2010.11.02 @ 06:39:59

Time Off Btm: 2010.11.02 @ 08:41:59

TEST COMMENT: 1/2" in blow  
No return  
1/8" in+ blow  
No return

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2365.75	106.24	Initial Hydro-static
1	31.64	105.56	Open To Flow (1)
31	52.42	107.14	Shut-In (1)
60	1122.40	108.62	End Shut-In (1)
61	57.97	108.23	Open To Flow (2)
90	73.88	109.14	Shut-In (2)
120	1032.70	110.31	End Shut-In (2)
122	2246.83	110.05	Final Hydro-static

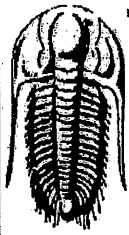
## Recovery

Length (ft)	Description	Volume (bbl)
65.00	mud 100% m	0.32

## Gas Rates

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





**TRILOBITE  
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Comanche Resources Comp

Conn #20-1

6520 N.Western Ave  
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ATTN: Sean Deenihan

20-19-34 Scott, KS

Job Ticket: 039690

DST#: 2

Test Start: 2010.11.02 @ 04:40:59

## Tool Information

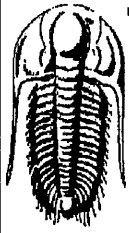
Drill Pipe:	Length: 4271.00 ft	Diameter: 3.80 inches	Volume: 59.91 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 90000.00 lb
			<b>Total Volume: 61.10 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4535.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	91.00 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			4509.00	
Shut In Tool	5.00			4514.00	
Hydraulic tool	5.00			4519.00	
Jars	5.00			4524.00	
Safety Joint	2.00			4526.00	
Packer	5.00			4531.00	27.00 Bottom Of Top Packer
Packer	4.00			4535.00	
Stubb	1.00			4536.00	
Recorder	0.00	6771	Outside	4536.00	
Recorder	0.00	6667	Inside	4536.00	
Perforations	25.00			4561.00	
Change Over Sub	1.00			4562.00	
Drill Pipe	31.00			4593.00	
Change Over Sub	1.00			4594.00	
Bullnose	5.00			4599.00	64.00 Bottom Packers & Anchor

**Total Tool Length: 91.00**



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**FLUID SUMMARY**

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ATTN: Sean Deenihan

20-19-34 Scott, KS  
Job Ticket: 039690      **DST#: 2**  
Test Start: 2010.11.02 @ 04:40:59

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 4.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8500.00 ppm			
Filter Cake: 2.00 inches			

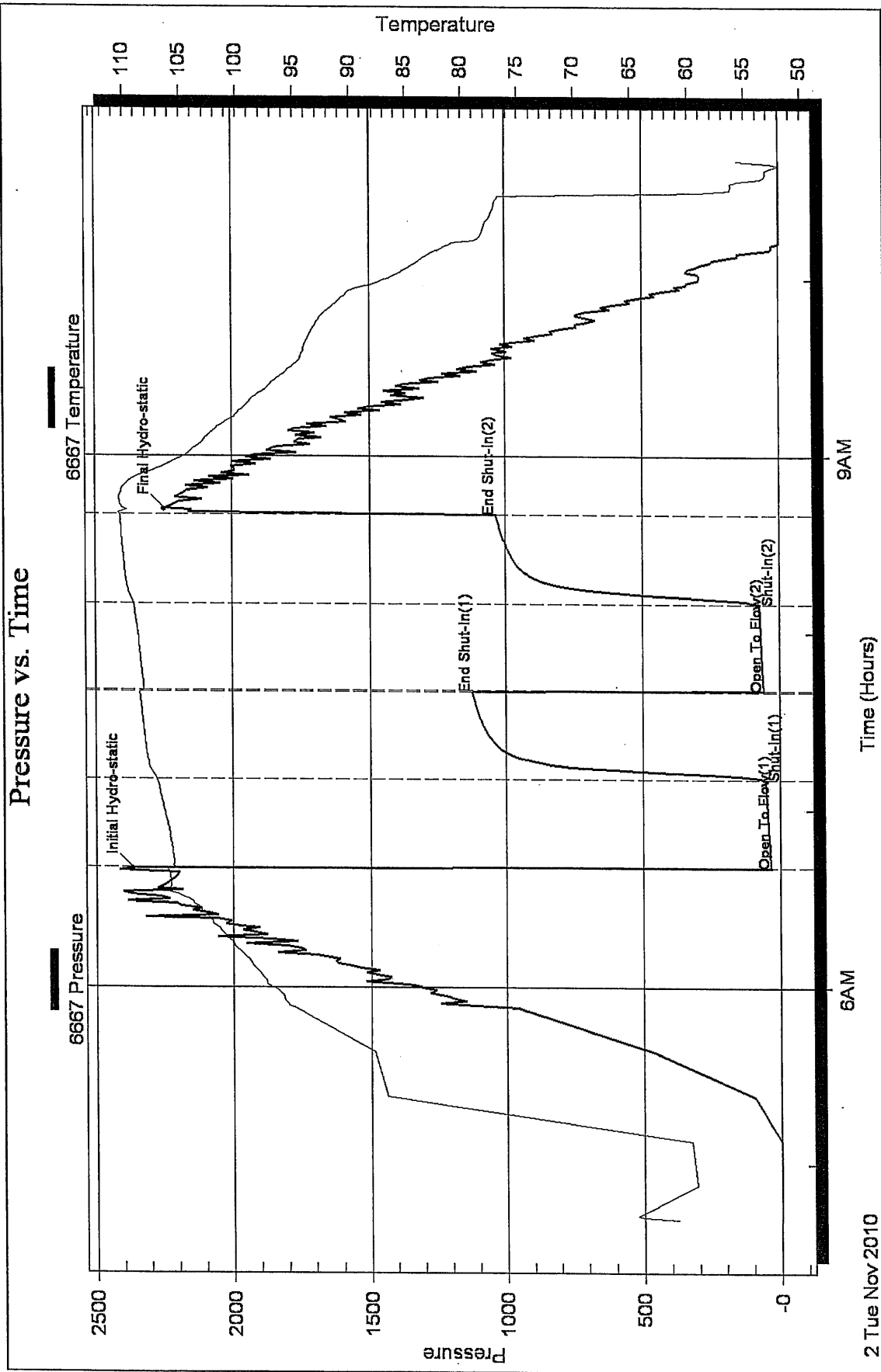
**Recovery Information**

Recovery Table

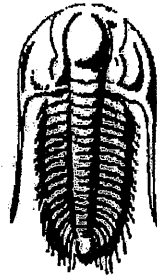
Length ft	Description	Volume bbl
65.00	mud 100%m	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time







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6520 N. Western Ave  
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ATTN: Sean Deenihan

**20-19-34 Scott, KS**

**Conn #20-1**

Start Date: 2010.11.02 @ 22:50:49

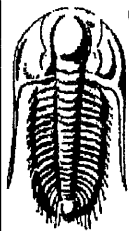
End Date: 2010.11.03 @ 05:15:04

Job Ticket #: 039691          DST #: 3

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Conn #20-1

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ATTN: Sean Deenihan

20-19-34 Scott, KS

Job Ticket: 039691

DST#: 3

Test Start: 2010.11.02 @ 22:50:49

## GENERAL INFORMATION:

Formation: Pawnee, Ft Scott, Ch

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:53:04

Time Test Ended: 05:15:04

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: 4588.00 ft (KB) To 4674.00 ft (KB) (TVD)

Total Depth: 4674.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3142.00 ft (KB)

3132.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6667

Inside

Press@RunDepth: 28.43 psig @ 4589.00 ft (KB)

Start Date: 2010.11.02

End Date:

2010.11.03

Start Time: 22:50:49

End Time:

04:56:04

Capacity: 8000.00 psig

Last Calib.: 2010.11.03

Time On Btm: 2010.11.03 @ 00:52:34

Time Off Btm: 2010.11.03 @ 02:54:49

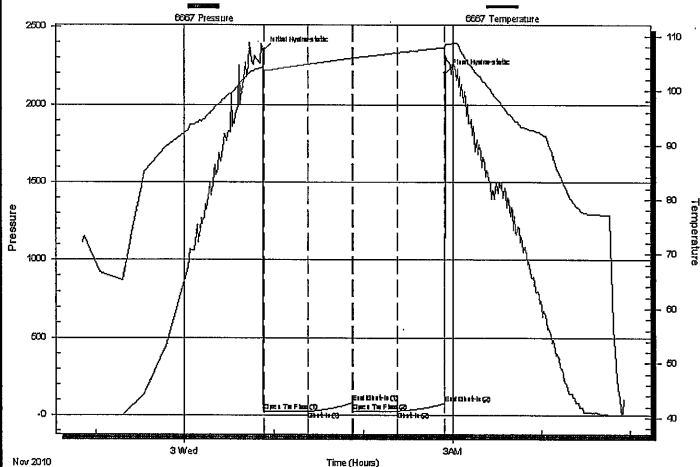
TEST COMMENT: 1/4" in blow died in 28 min.

No return

No blow

No return

Pressure vs. Time



## PRESSURE SUMMARY

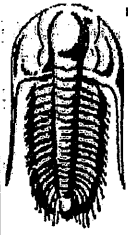
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.04	104.23	Initial Hydro-static
1	25.28	103.78	Open To Flow (1)
31	27.26	104.81	Shut-In(1)
60	82.45	105.97	End Shut-In(1)
61	26.76	105.95	Open To Flow (2)
90	28.43	106.93	Shut-In(2)
122	76.83	107.87	End Shut-In(2)
123	2203.64	108.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%m	0.01

## Gas Rates

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



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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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6520 N. Western Ave  
Ste 300  
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ATTN: Sean Deenihan

**20-19-34 Scott, KS**

Job Ticket: 039691

DST#: 3

Test Start: 2010.11.02 @ 22:50:49

### Tool Information

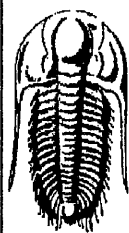
Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 85000.00 lb
		<b>Total Volume:</b>	<b>61.97 bbl</b>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial: 68000.00 lb
Depth to Top Packer:	4588.00 ft			Final: 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	113.00 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			4562.00	
Shut In Tool	5.00			4567.00	
Hydraulic tool	5.00			4572.00	
Jars	5.00			4577.00	
Safety Joint	2.00			4579.00	
Packer	5.00			4584.00	27.00 Bottom Of Top Packer
Packer	4.00			4588.00	
Stubb	1.00			4589.00	
Recorder	0.00	6771	Outside	4589.00	
Recorder	0.00	6667	Inside	4589.00	
Perforations	15.00			4604.00	
Change Over Sub	1.00			4605.00	
Drill Pipe	63.00			4668.00	
Change Over Sub	1.00			4669.00	
Bullnose	5.00			4674.00	86.00 Bottom Packers & Anchor

**Total Tool Length: 113.00**



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ATTN: Sean Deenihan

**20-19-34 Scott, KS**  
Job Ticket: 039691      **DST#: 3**  
Test Start: 2010.11.02 @ 22:50:49

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 4.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8500.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100% <sub>m</sub>	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



### Pressure vs. Time

