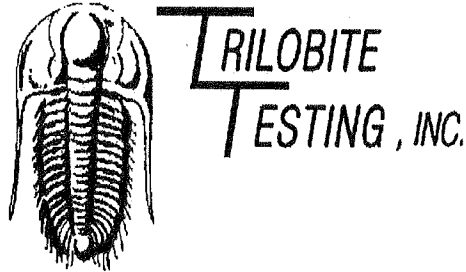


15-135-24925

26-16s-26w



### DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co.**

100 S. Main  
Suite 505  
Wichita, KS 67202-3738

ATTN: Kevin Davis/Sean Deen

**26-16s-26w Ness,KS**

**#1 Bernbeck A**

Start Date: 2009.07.10 @ 21:47:00

End Date: 2009.07.11 @ 04:18:17

Job Ticket #: 34630                      DST #: 1

*15-135-24925-0000*

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

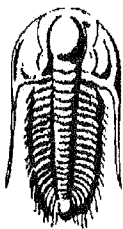
Pickrell Drilling Co. #1 Bernbeck A

26-16s-26w Ness,KS

DST # 1

Fl. Scott

2009.07.10



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pickrell Drilling Co.  
100 S. Main  
Suite 505  
Wichita, KS 67202-3738  
ATTN: Kevin Davis/Sean Deen05

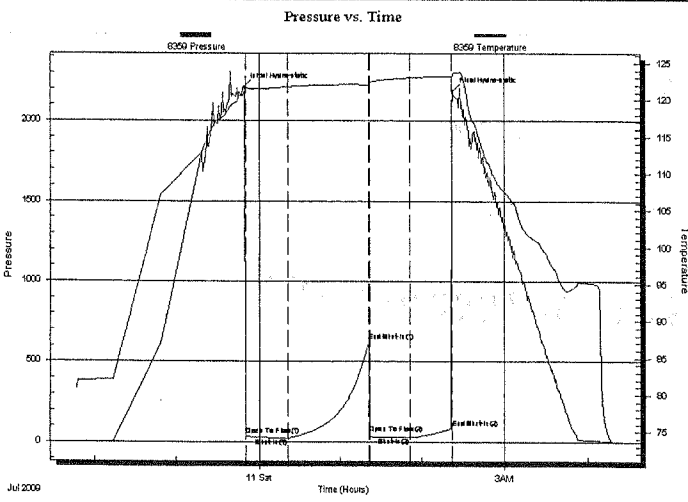
**#1 Bernbeck A**  
**26-16s-26w Ness,KS**  
Job Ticket: 34630      **DST#: 1**  
Test Start: 2009.07.10 @ 21:47:00

## GENERAL INFORMATION:

Formation: **Ft. Scott**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 23:50:30  
Time Test Ended: 04:18:17  
Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37  
Interval: **4424.00 ft (KB) To 4468.00 ft (KB) (TVD)**  
Reference Elevations: 2625.00 ft (KB)  
Total Depth: 4468.00 ft (KB) (TVD)      2620.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 5.00 ft

**Serial #: 8359      Inside**  
Press@RunDepth: 29.32 psig @ 4426.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2009.07.10      End Date: 2009.07.11      Last Calib.: 2009.07.11  
Start Time: 21:47:05      End Time: 04:18:18      Time On Btm: 2009.07.10 @ 23:49:18  
Time Off Btm: 2009.07.11 @ 02:22:17

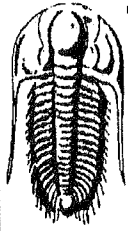
TEST COMMENT: IF: 1/2" Blow died @ 16 min.  
IS: No return.  
FF: Blow built to 5".  
FSI: No return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.60	121.06	Initial Hydro-static
2	40.85	121.05	Open To Flow (1)
32	26.38	121.73	Shut-In(1)
92	626.65	122.05	End Shut-In(1)
93	55.16	122.36	Open To Flow (2)
123	29.32	123.00	Shut-In(2)
153	87.11	123.21	End Shut-In(2)
153	2187.84	123.37	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	GMOCM 7%G 1%O 92%M	0.28
0.00	40 Feet GIP	0.00

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pickrell Drilling Co.

**#1 Bernbeck A**

100 S. Main  
Suite 505  
Wichita, KS 67202-3738  
ATTN: Kevin Davis/Sean Deen05

**26-16s-26w Ness,KS**

Job Ticket: 34630

**DST#: 1**

Test Start: 2009.07.10 @ 21:47:00

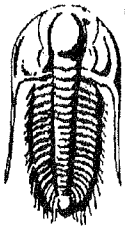
### Tool Information

Drill Pipe:	Length: 4408.00 ft	Diameter: 3.80 inches	Volume: 61.83 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<b>Total Volume: 61.83 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4424.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 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
Change Over Sub	1.00			4405.00	
Shut In Tool	5.00			4410.00	
Hydraulic tool	5.00			4415.00	
Packer	5.00			4420.00	20.00 Bottom Of Top Packer
Packer	4.00			4424.00	
Stubb	1.00			4425.00	
Perforations	1.00			4426.00	
Recorder	0.00	8359	Inside	4426.00	
Recorder	0.00	8351	Inside	4426.00	
Perforations	4.00			4430.00	
Change Over Sub	1.00			4431.00	
Drill Pipe	31.00			4462.00	
Change Over Sub	1.00			4463.00	
Bullnose	5.00			4468.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pickrell Drilling Co.

**#1 Bernbeck A**

100 S. Main  
Suite 505  
Wichita, KS 67202-3738  
ATTN: Kevin Davis/Sean Deen05

**26-16s-26w Ness,KS**

Job Ticket: 34630

**DST#: 1**

Test Start: 2009.07.10 @ 21:47:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 10.37 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbbl

psig

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GMOCM 7%G 1%O 92%M	0.281
0.00	40 Feet GIP	0.000

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

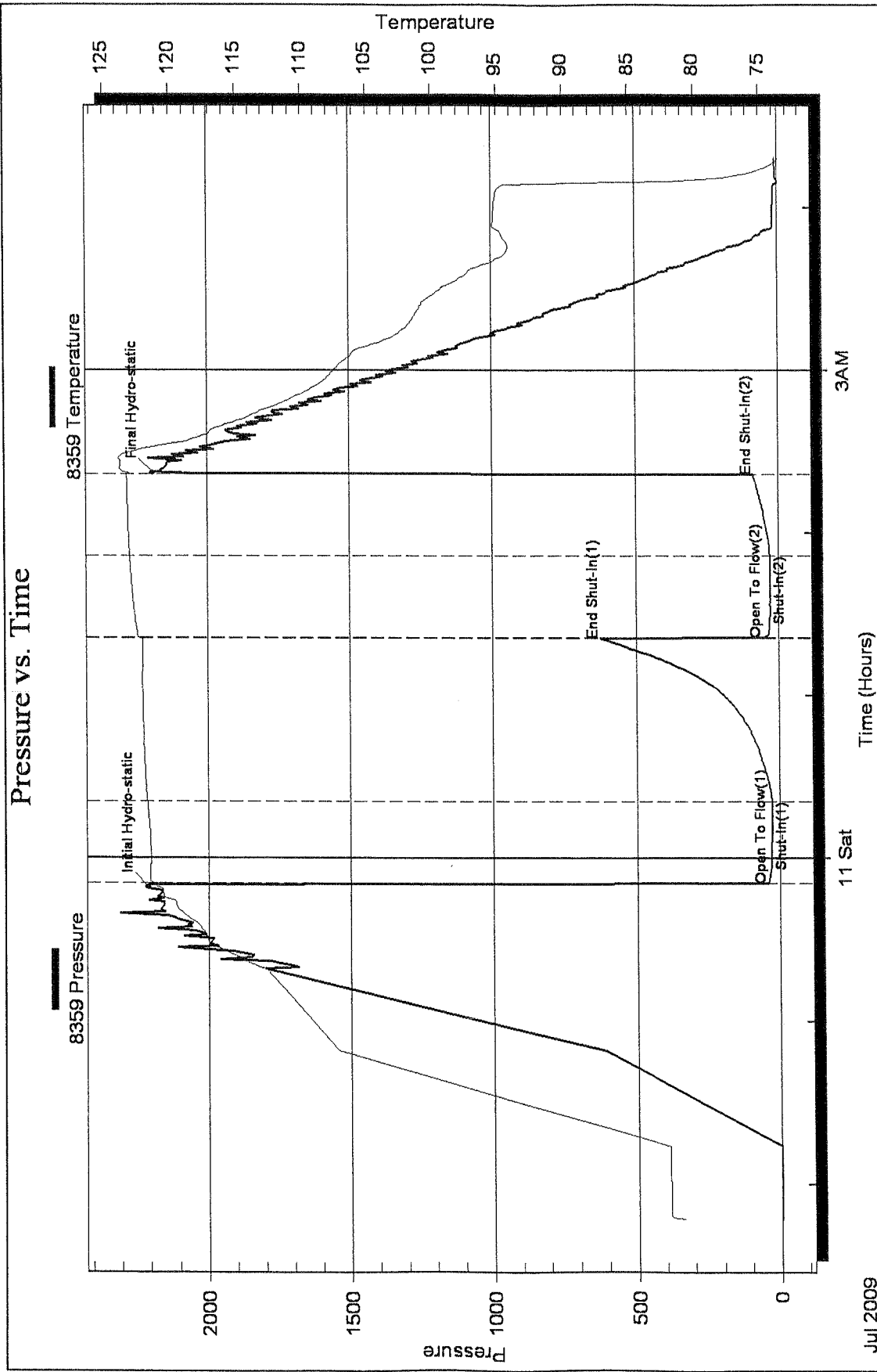
Serial #:

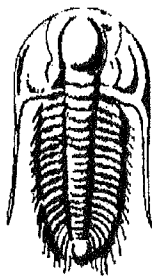
Laboratory Name:

Laboratory Location:

Recovery Comments: 40 Feet GIP

# Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co.**

100 S. Main  
Suite 505  
Wichita, KS 67202-3738

ATTN: Kevin Davis/Sean Deen

**26-16s-26w Ness,KS**

**#1 Bernbeck A**

Start Date: 2009.07.11 @ 20:59:00

End Date: 2009.07.12 @ 03:46:09

Job Ticket #: 34631                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Pickrell Drilling Co.

#1 Bernbeck A

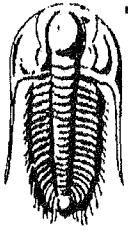
26-16s-26w Ness,KS

DST # 2

Mississippian

2009.07.11





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pickrell Drilling Co.

**#1 Bernbeck A**

100 S. Main  
Suite 505  
Wichita, KS 67202-3738  
ATTN: Kevin Davis/Sean Deen05

**26-16s-26w Ness,KS**

Job Ticket: 34631

**DST#: 2**

Test Start: 2009.07.11 @ 20:59:00

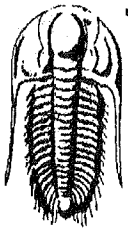
### Tool Information

Drill Pipe:	Length: 4502.00 ft	Diameter: 3.80 inches	Volume: 63.15 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4510.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 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			4491.00	
Shut In Tool	5.00			4496.00	
Hydraulic tool	5.00			4501.00	
Packer	5.00			4506.00	20.00 Bottom Of Top Packer
Packer	4.00			4510.00	
Stubb	1.00			4511.00	
Perforations	11.00			4522.00	
Recorder	0.00	8359	Inside	4522.00	
Recorder	0.00	8351	Inside	4522.00	
Change Over Sub	1.00			4523.00	
Drill Pipe	31.00			4554.00	
Change Over Sub	1.00			4555.00	
Bullnose	5.00			4560.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pickrell Drilling Co.  
100 S. Main  
Suite 505  
Wichita, KS 67202-3738  
ATTN: Kevin Davis/Sean Deen05

**#1 Bernbeck A**  
**26-16s-26w Ness,KS**  
Job Ticket: 34631      **DST#: 2**  
Test Start: 2009.07.11 @ 20:59:00

## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 2.00 inches			

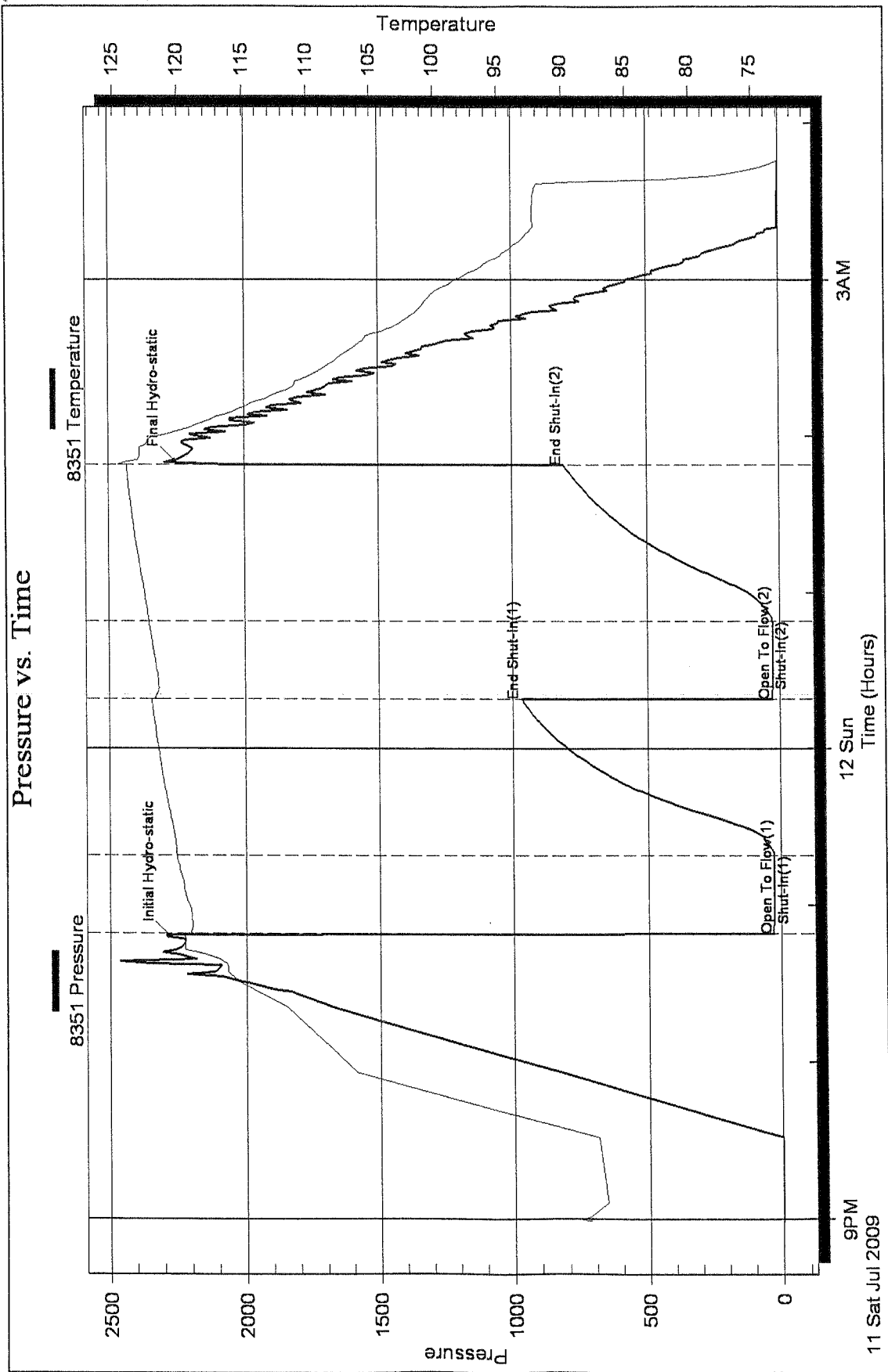
## Recovery Information

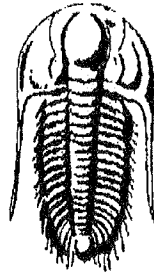
Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM 3%O 97%M	0.281
0.00	No GIP	0.000

Total Length: 20.00 ft      Total Volume: 0.281 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: **Pickrell Drilling Co.**

100 S. Main  
Suite 505  
Wichita, KS 67202-3738

ATTN: Kevin Davis/Sean Deen

**26-16s-26w Ness,KS**

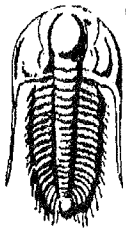
**#1 Bernbeck A**

Start Date: 2009.07.12 @ 11:30:00

End Date: 2009.07.12 @ 19:52:39

Job Ticket #: 34632                      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

Pickrell Drilling Co.  
100 S. Main  
Suite 505  
Wichita, KS 67202-3738  
ATTN: Kevin Davis/Sean Deen05

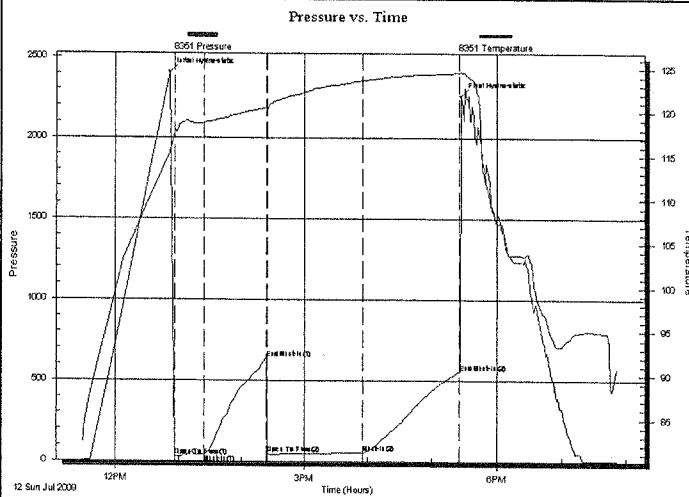
**#1 Bernbeck A**  
**26-16s-26w Ness,KS**  
Job Ticket: 34632      **DST#: 3**  
Test Start: 2009.07.12 @ 11:30:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 12:57:00  
Time Test Ended: 19:52:39  
Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37  
Interval: **4557.00 ft (KB) To 4576.00 ft (KB) (TVD)**  
Reference Elevations: 2625.00 ft (KB)  
Total Depth: 4576.00 ft (KB) (TVD)                      2620.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good                      KB to GR/CF: 5.00 ft

**Serial #: 8351      Inside**  
Press@RunDepth: 51.87 psig @ 4567.00 ft (KB)                      Capacity: 7000.00 psig  
Start Date: 2009.07.12      End Date: 2009.07.12                      Last Calib.: 2009.07.12  
Start Time: 11:30:01      End Time: 19:52:40                      Time On Btm: 2009.07.12 @ 12:52:00  
Time Off Btm: 2009.07.12 @ 17:27:20

**TEST COMMENT:** IF: Slow building 3 1/4" blow.  
IS: No return.  
FF: Slow building 3 1/2 blow.  
FSI: No return.



## PRESSURE SUMMARY

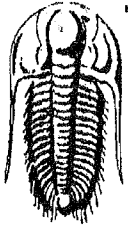
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2405.18	115.41	Initial Hydro-static
5	30.96	117.63	Open To Flow (1)
33	38.64	118.77	Shut-In(1)
93	638.60	120.47	End Shut-In(1)
93	45.33	120.36	Open To Flow (2)
183	51.87	123.62	Shut-In(2)
274	551.86	124.51	End Shut-In(2)
276	2257.85	124.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GO 5%G 95%O	0.42
60.00	SOCM 2%O 98%M	0.84
0.00	30 Feet GIP	0.00
0.00	RW .550 @ 90 Degrees F = 8,000	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pickrell Drilling Co.

**#1 Bernbeck A**

100 S. Main  
Suite 505  
Wichita, KS 67202-3738  
ATTN: Kevin Davis/Sean Deen05

**26-16s-26w Ness,KS**  
Job Ticket: 34632      **DST#: 3**  
Test Start: 2009.07.12 @ 11:30:00

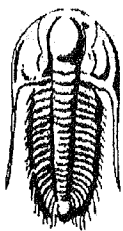
**Tool Information**

Drill Pipe:	Length: 4565.00 ft	Diameter: 3.80 inches	Volume: 64.03 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4557.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 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			4538.00	
Shut In Tool	5.00			4543.00	
Hydraulic tool	5.00			4548.00	
Packer	5.00			4553.00	20.00 Bottom Of Top Packer
Packer	4.00			4557.00	
Stubb	1.00			4558.00	
Perforations	9.00			4567.00	
Recorder	0.00	8359	Inside	4567.00	
Recorder	0.00	8351	Inside	4567.00	
Perforations	4.00			4571.00	
Bullnose	5.00			4576.00	19.00 Bottom Packers & Anchor

**Total Tool Length: 39.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co.

#1 Bernbeck A

100 S. Main  
Suite 505  
Wichita, KS 67202-3738

26-16s-26w Ness, KS

ATTN: Kevin Davis/Sean Deen05

Job Ticket: 34632

DST#: 3

Test Start: 2009.07.12 @ 11:30:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 9.58 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: 36 deg API  
Water Salinity: 8000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GO 5%G 95%O	0.421
60.00	SOCM 2%O 98%M	0.842
0.00	30 Feet GIP	0.000
0.00	RW .550 @ 90 Degrees F = 8,000	0.000

Total Length: 90.00 ft      Total Volume: 1.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 39 @ 90 Degrees F = 36

RW: .550 @ 90 Degrees F = 8000 chlorides.

### Pressure vs. Time

