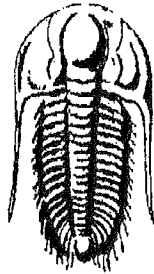


15-163-21778

1-15s-27w

IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: Pintail Petroleum LTD

CONFIDENTIAL

225 N Market Ste 300

Wichita Ks 67202

AUG 07 2009

ATTN: **KCO** Phillips

1-15s-27w Gove KS

Cheney-Frickey Unit #1-1

Start Date: 2009.06.12 @ 18:57:39

End Date: 2009.06.12 @ 23:06:04

Job Ticket #: 36435 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Pintail Petroleum LTD

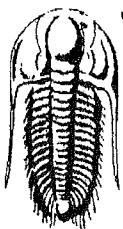
Cheney-Frickey Unit #1-1

1-15s-27w Gove KS

DST # 1

LKC-H-I

2009.06.12



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pintail Petroleum LTD

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**Cheney-Frickey Unit #1-1**

**1-15s-27w Gove KS**

Job Ticket: 36435 **DST#: 1**

Test Start: 2009.06.12 @ 18:57:39

## GENERAL INFORMATION:

Formation: **LKC H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:29:04

Time Test Ended: 23:06:04

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3715.00 ft (KB) To 3780.00 ft (KB) (TVD)**

Total Depth: 3780.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2325.00 ft (KB)

2320.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8365** Inside

Press@RunDepth: 17.99 psig @ 3752.01 ft (KB)

Start Date: 2009.06.12 End Date: 2009.06.12

Start Time: 18:57:39 End Time: 23:06:04

Capacity: 7000.00 psig

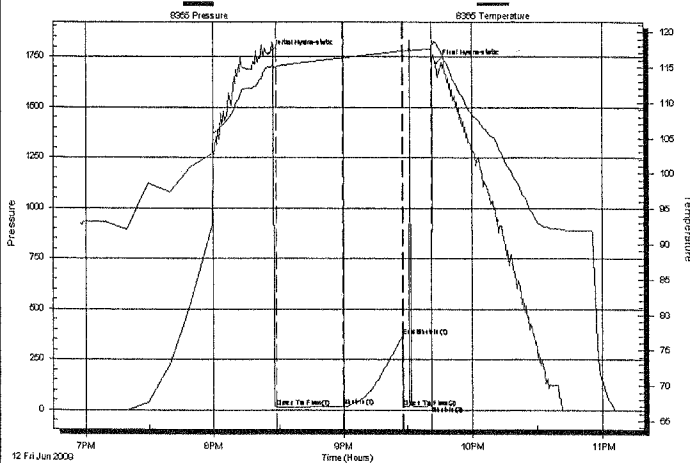
Last Calib.: 2009.06.12

Time On Btm: 2009.06.12 @ 20:25:34

Time Off Btm: 2009.06.12 @ 21:43:34

TEST COMMENT: IFP-surface bl died in 25 min  
FFP-no bl, flushed tool  
Times 30-30-15-out

Pressure vs. Time



## PRESSURE SUMMARY

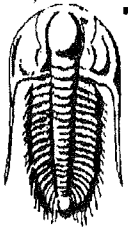
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.76	114.99	Initial Hydro-static
4	13.78	115.06	Open To Flow (1)
34	17.99	116.29	Shut-In(1)
62	366.41	117.34	End Shut-In(1)
63	16.67	117.19	Open To Flow (2)
76	21.25	117.61	Shut-In(2)
78	1714.94	118.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pintail Petroleum LTD  
225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**Cheney-Frickey Unit #1-1**  
**1-15s-27w Gove KS**  
Job Ticket: 36435      **DST#: 1**  
Test Start: 2009.06.12 @ 18:57:39

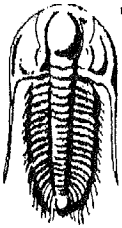
**Tool Information**

Drill Pipe:	Length: 3460.00 ft	Diameter: 3.80 inches	Volume: 48.53 bbl	Tool Weight: 2200.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3715.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.02 ft			
Tool Length:	86.02 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			3695.00	
Shut In Tool	5.00			3700.00	
Hydraulic tool	5.00			3705.00	
Packer	5.00			3710.00	21.00      Bottom Of Top Packer
Packer	5.00			3715.00	
Stubb	1.00			3716.00	
Perforations	3.00			3719.00	
Blank Spacing	33.00			3752.00	
Recorder	0.01	8365	Inside	3752.01	
Recorder	0.01	6625	Outside	3752.02	
Perforations	25.00			3777.02	
Bullnose	3.00			3780.02	65.02      Bottom Packers & Anchor

**Total Tool Length: 86.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pintail Petroleum LTD

**Cheney-Frickey Unit #1-1**

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**1-15s-27w Gove KS**  
Job Ticket: 36435      **DST#: 1**  
Test Start: 2009.06.12 @ 18:57:39

## 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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.30 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

DST Test Number: 1

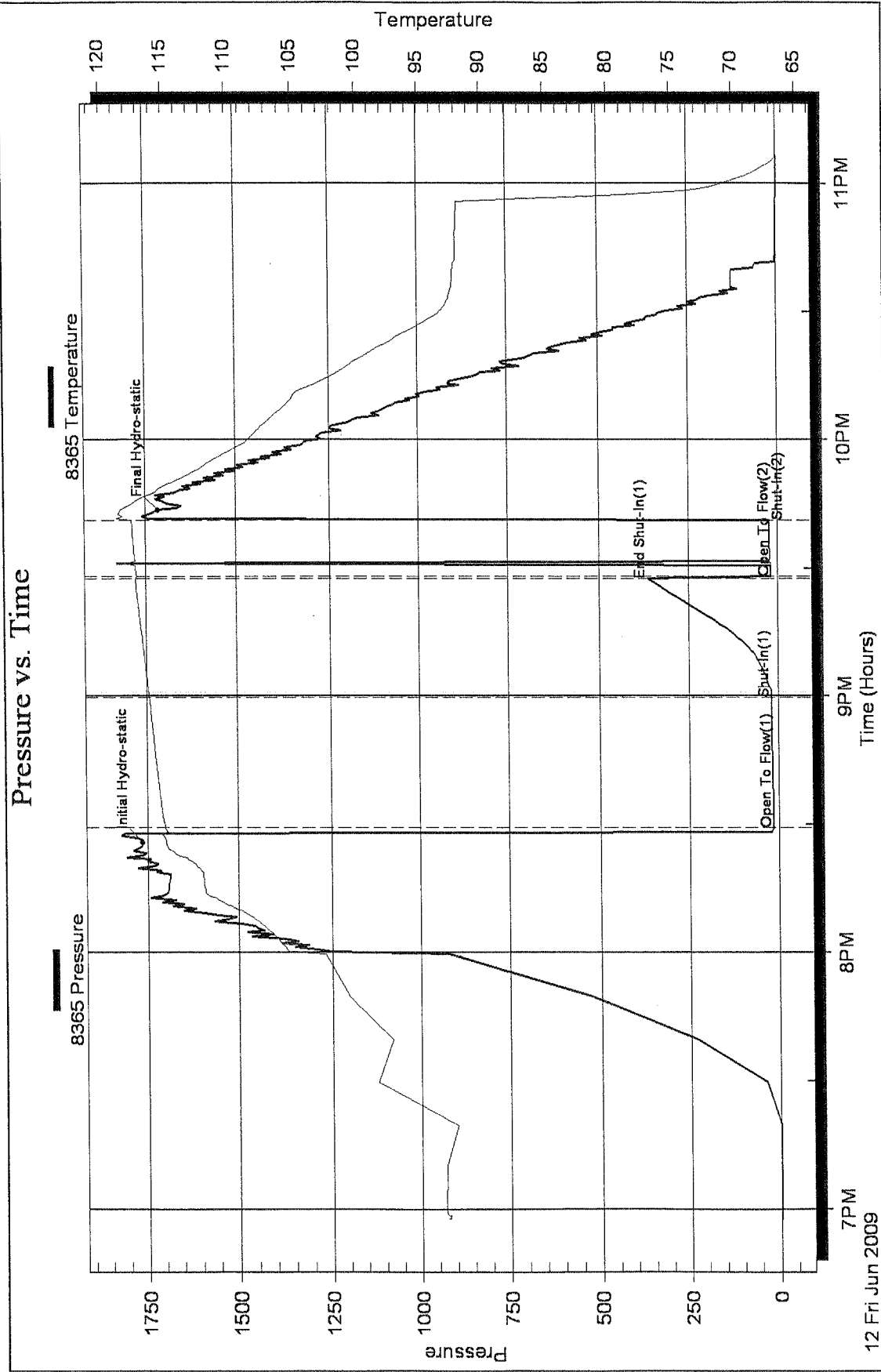
1-15s-27w Gove KS

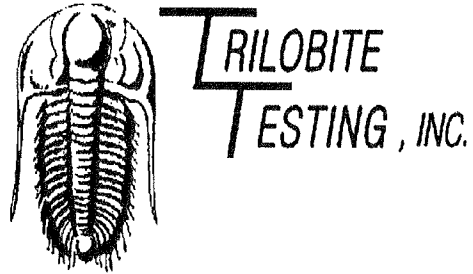
Rintail Petroleum LTD

Inside

Serial #: 8365

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum LTD**

225 N. Market  
Ste 300  
Wichita Ks 67202

ATTN: Flip Phillips

**1-15s-27w Gove KS**

**Cheney-Frickey Unit #1-1**

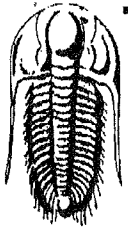
Start Date: 2009.06.13 @ 05:02:31

End Date: 2009.06.13 @ 09:36:25

Job Ticket #: 36436                      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

**TOOL DIAGRAM**

Pintail Petroleum LTD

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**Cheney-Frickey Unit #1-1**

**1-15s-27w Gove KS**

Job Ticket: 36436      **DST#: 2**

Test Start: 2009.06.13 @ 05:02:31

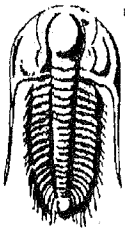
**Tool Information**

Drill Pipe:	Length: 3551.00 ft	Diameter: 3.80 inches	Volume: 49.81 bbl	Tool Weight: 2200.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 60000.00 lb
			<b>Total Volume: 50.99 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3780.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.02 ft			
Tool Length:	51.02 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			3760.00	
Shut In Tool	5.00			3765.00	
Hydraulic tool	5.00			3770.00	
Packer	5.00			3775.00	21.00      Bottom Of Top Packer
Packer	5.00			3780.00	
Stubb	1.00			3781.00	
Perforations	1.00			3782.00	
Recorder	0.01	8365	Inside	3782.01	
Recorder	0.01	6625	Outside	3782.02	
Perforations	25.00			3807.02	
Bullnose	3.00			3810.02	30.02      Bottom Packers & Anchor

**Total Tool Length: 51.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pintail Petroleum LTD

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**Cheney-Frickey Unit #1-1**

**1-15s-27w Gove KS**

Job Ticket: 36436

**DST#: 2**

Test Start: 2009.06.13 @ 05:02:31

## 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: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.35 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

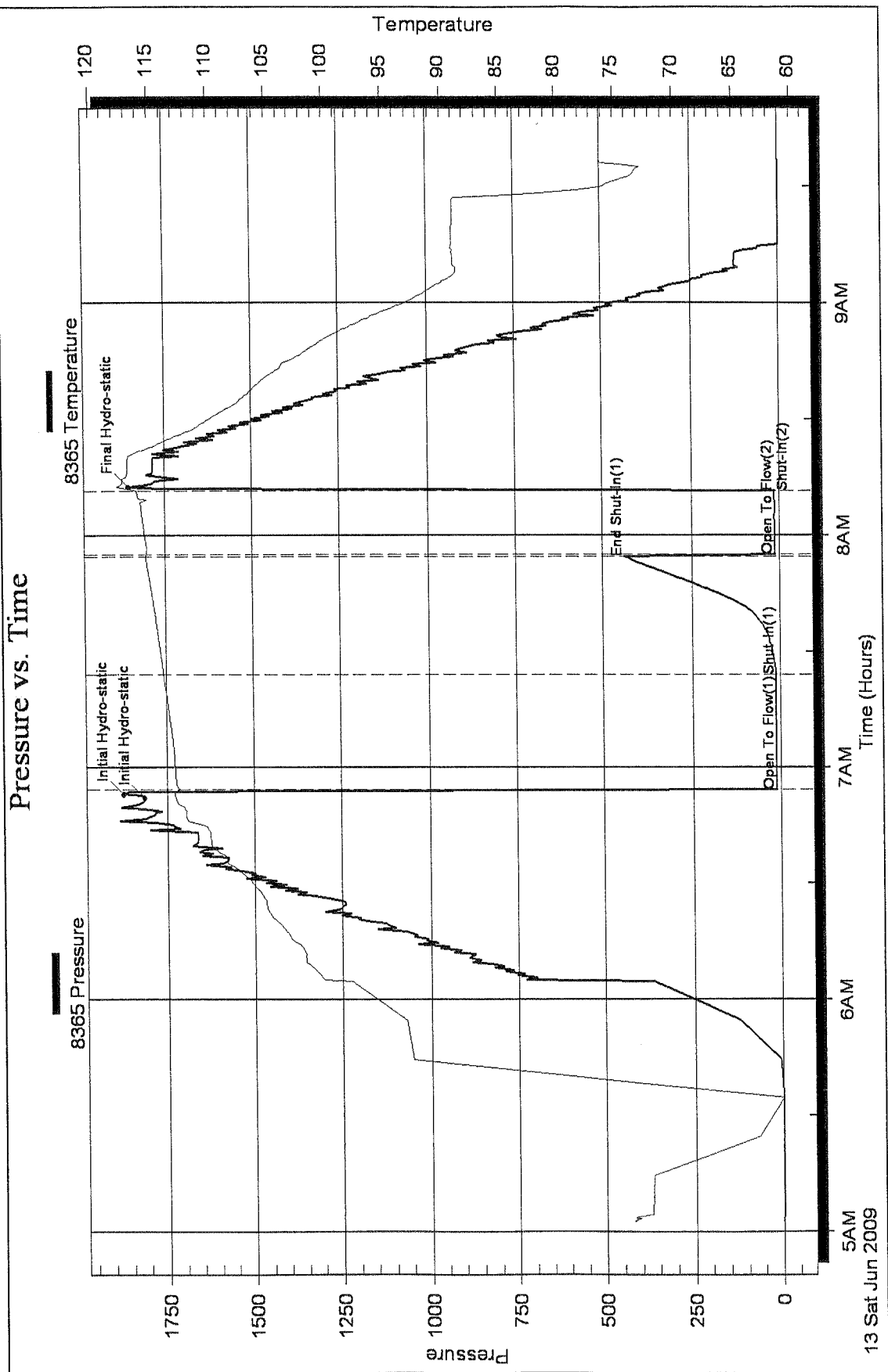
Serial #:

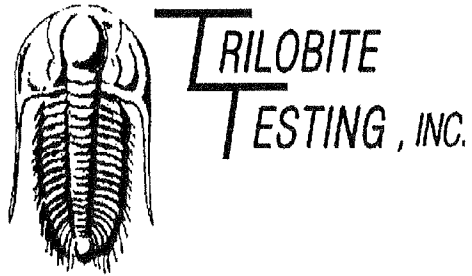
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum LTD**

225 N. Market  
Ste 300  
Wichita Ks 67202

ATTN: Flip Phillips

**1-15s-27w Gove KS**

**Cheney-Frickey Unit #1-1**

Start Date: 2009.06.14 @ 07:42:25

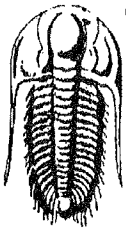
End Date: 2009.06.14 @ 12:07:49

Job Ticket #: 36437                      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

Pintail Petroleum LTD

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**Cheney-Frickey Unit #1-1**

**1-15s-27w Gove KS**

Job Ticket: 36437      DST#: 3

Test Start: 2009.06.14 @ 07:42:25

## GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock:      ft (KB)

Time Tool Opened: 09:30:20

Time Test Ended: 12:07:49

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **4040.00 ft (KB) To 4094.00 ft (KB) (TVD)**

Total Depth: 4094.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2325.00 ft (KB)

2320.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8365**      Inside

Press@RunDepth: 14.92 psig @ 4076.01 ft (KB)

Start Date: 2009.06.14

End Date:

2009.06.14

Start Time: 07:42:25

End Time:

12:07:49

Capacity: 7000.00 psig

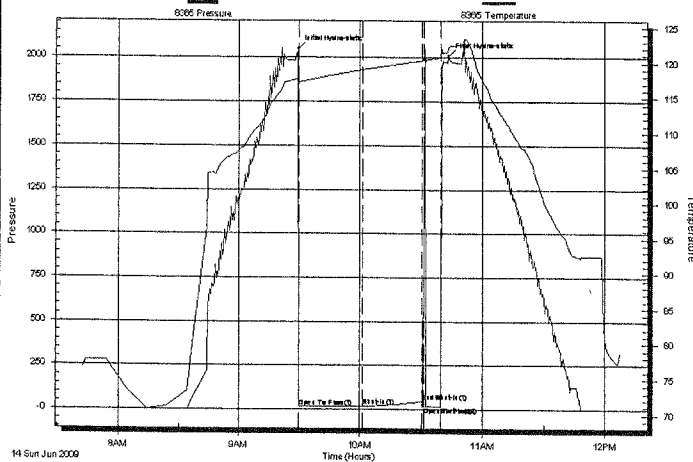
Last Calib.: 2009.06.14

Time On Btm: 2009.06.14 @ 09:29:50

Time Off Btm: 2009.06.14 @ 10:43:50

TEST COMMENT: IFP-surface bl thru-out  
FFP-no bl , flushed tool  
Times 30-30-10-out

Pressure vs. Time



## PRESSURE SUMMARY

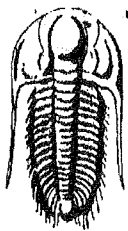
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.96	117.74	Initial Hydro-static
1	14.08	116.94	Open To Flow (1)
32	14.92	119.00	Shut-In(1)
61	45.26	120.30	End Shut-In(1)
62	15.64	120.31	Open To Flow (2)
70	17.96	120.74	Shut-In(2)
74	2008.67	122.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pntail Petroleum LTD

225 N.Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**Cheney-Frickey Unit #1-1**

**1-15s-27w Gove KS**

Job Ticket: 36437      DST#: 3  
Test Start: 2009.06.14 @ 07:42:25

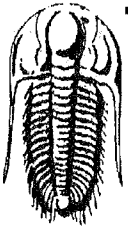
## Tool Information

Drill Pipe:	Length: 3804.00 ft	Diameter: 3.80 inches	Volume: 53.36 bbl	Tool Weight: 2200.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 55000.00 lb
			<b>Total Volume: 54.54 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4040.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.02 ft			
Tool Length:	75.02 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			4020.00	
Shut In Tool	5.00			4025.00	
Hydraulic tool	5.00			4030.00	
Packer	5.00			4035.00	21.00 Bottom Of Top Packer
Packer	5.00			4040.00	
Stubb	1.00			4041.00	
Perforations	3.00			4044.00	
Blank Spacing	32.00			4076.00	
Recorder	0.01	8365	Inside	4076.01	
Recorder	0.01	6625	Outside	4076.02	
Perforations	15.00			4091.02	
Bullnose	3.00			4094.02	54.02 Bottom Packers & Anchor

**Total Tool Length: 75.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pintail Petroleum LTD

**Cheney-Frickey Unit #1-1**

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**1-15s-27w Gove KS**  
Job Ticket: 36437      **DST#: 3**  
Test Start: 2009.06.14 @ 07:42:25

## 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: 7.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

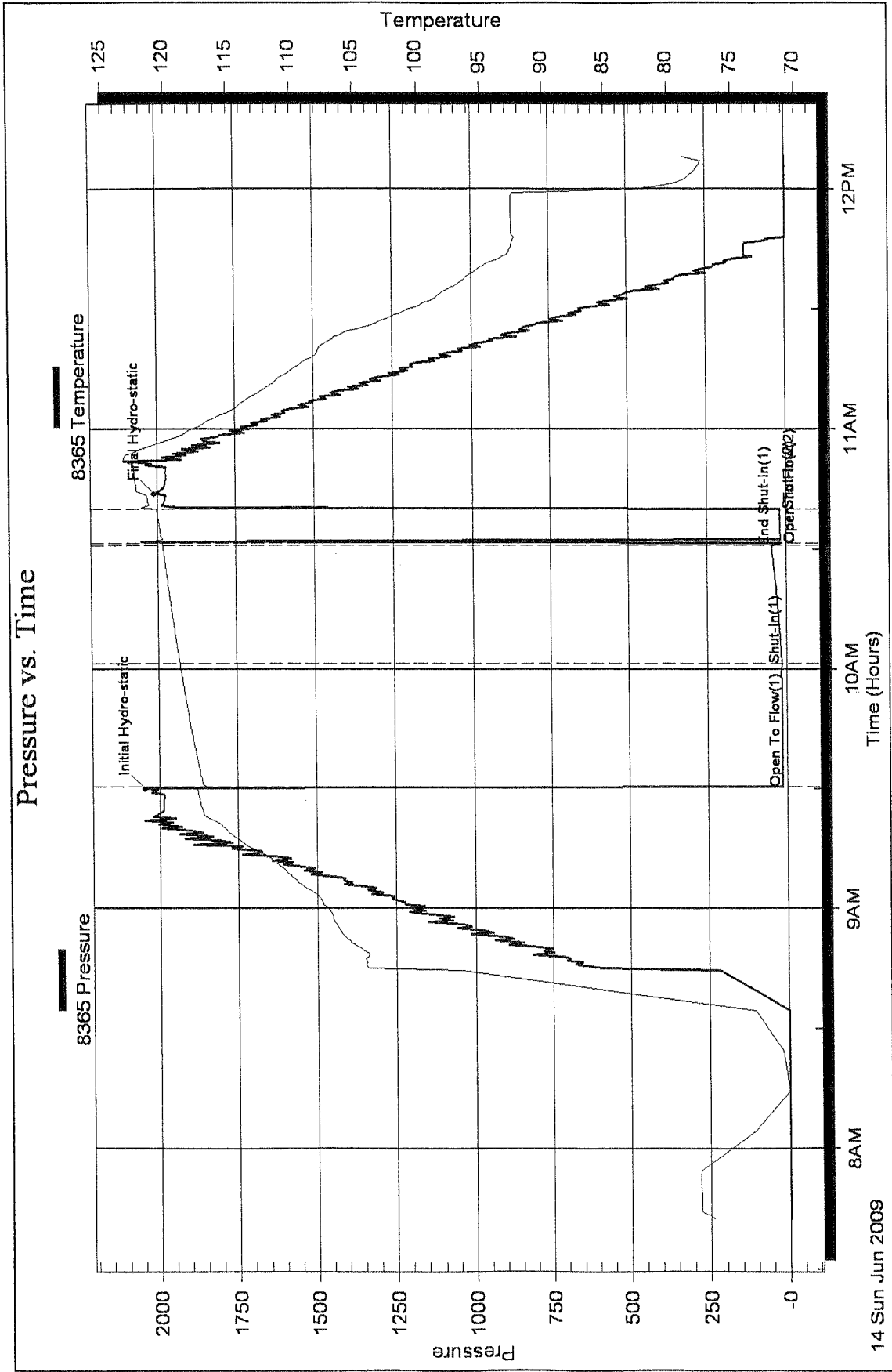
## Recovery Information

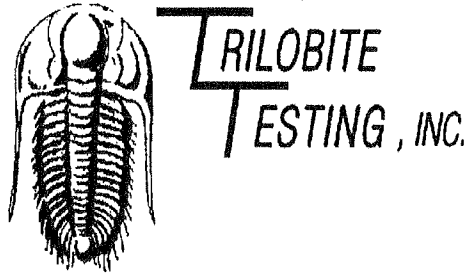
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum LTD**

225 N. Market  
Ste 300  
Wichita Ks 67202

ATTN: Flip Phillips

### **1-15s-27w Gove KS**

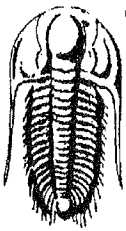
#### **Cheney-Frickey Unit #1-1**

Start Date: 2009.06.14 @ 21:16:27

End Date: 2009.06.15 @ 04:10:21

Job Ticket #: 36438                      DST #: 4

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pintail Petroleum LTD

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**Cheney-Frickey Unit #1-1**

**1-15s-27w Gove KS**

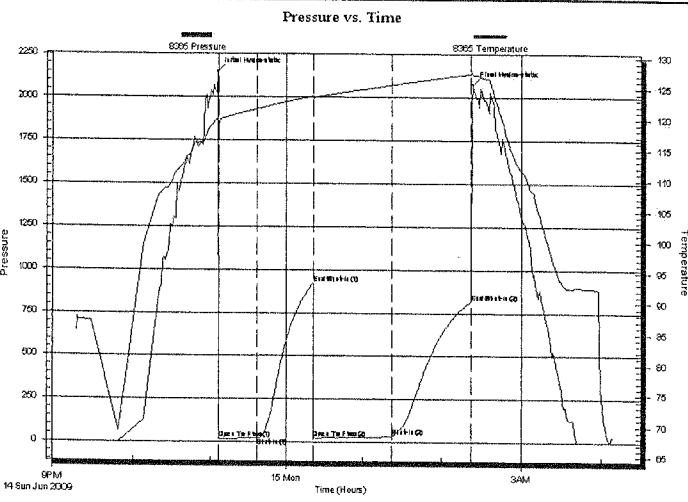
Job Ticket: 36438      DST#: 4  
Test Start: 2009.06.14 @ 21:16:27

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 23:06:52  
 Time Test Ended: 04:10:21  
 Interval: **4090.00 ft (KB) To 4182.00 ft (KB) (TVD)**  
 Total Depth: 4182.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 2325.00 ft (KB)  
 2320.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8365      Inside**  
 Press@RunDepth: 34.38 psig @ 4189.01 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2009.06.14      End Date: 2009.06.15      Last Calib.: 2009.06.15  
 Start Time: 21:16:27      End Time: 04:10:21      Time On Btm: 2009.06.14 @ 23:05:52  
 Time Off Btm: 2009.06.15 @ 02:23:51

**TEST COMMENT:** IFP-wk bl thru-out 1/4" to 1" bl  
 FFP-surface bl thru-out  
 Times 30-45-60-60



## PRESSURE SUMMARY

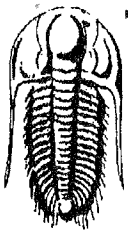
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.00	120.10	Initial Hydro-static
1	16.54	119.02	Open To Flow (1)
31	21.47	121.55	Shut-In(1)
75	922.84	123.65	End Shut-In(1)
76	25.13	123.38	Open To Flow (2)
136	34.38	125.48	Shut-In(2)
197	817.63	127.31	End Shut-In(2)
198	2076.59	127.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (tbb)
5.00	CO	0.02
20.00	O&GCM 5%G15%O80%M	0.10

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pintail Petroleum LTD

**Cheney-Frickey Unit #1-1**

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**1-15s-27w Gove KS**  
Job Ticket: 36438      DST#: 4  
Test Start: 2009.06.14 @ 21:16:27

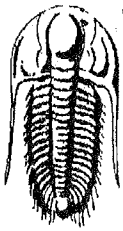
**Tool Information**

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 bbl	Tool Weight: 2200.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 60000.00 lb
			<b>Total Volume: 54.97 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4090.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	122.02 ft			
Tool Length:	143.02 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			4070.00	
Shut In Tool	5.00			4075.00	
Hydraulic tool	5.00			4080.00	
Packer	5.00			4085.00	21.00 Bottom Of Top Packer
Packer	5.00			4090.00	
Stubb	1.00			4091.00	
Perforations	4.00			4095.00	
Blank Spacing	94.00			4189.00	
Recorder	0.01	8365	Inside	4189.01	
Recorder	0.01	6625	Outside	4189.02	
Perforations	20.00			4209.02	
Bullnose	3.00			4212.02	122.02 Bottom Packers & Anchor

**Total Tool Length: 143.02**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum LTD

**Cheney-Frickey Unit #1-1**

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**1-15s-27w Gove KS**  
Job Ticket: 36438      DST#: 4  
Test Start: 2009.06.14 @ 21:16:27

## 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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.74 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 2.00 inches			

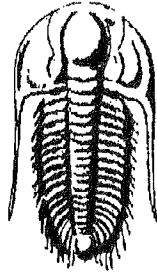
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	CO	0.025
20.00	O&GCM 5%G15%O80%M	0.098

Total Length: 25.00 ft      Total Volume: 0.123 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





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

## DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum LTD**

225 N. Market  
Ste 300  
Wichita Ks 67202

ATTN: Flip Phillips

**1-15s-27w Gove KS**

**Cheney-Frickey Unit #1-1**

Start Date: 2009.06.15 @ 10:02:11

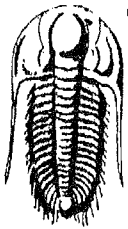
End Date: 2009.06.15 @ 14:40:35

Job Ticket #: 36439                      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pintail Petroleum LTD

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**Cheney-Frickey Unit #1-1**

**1-15s-27w Gove KS**

Job Ticket: 36439 **DST#: 5**

Test Start: 2009.06.15 @ 10:02:11

## GENERAL INFORMATION:

Formation: **Mlss**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 11:48:36

Time Test Ended: 14:40:35

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

**Interval: 4175.00 ft (KB) To 4195.00 ft (KB) (TVD)**

Total Depth: **4195.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2325.00 ft (KB)**

**2320.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 8365**

**Inside**

Press@RunDepth: **31.15 psig @ 4176.01 ft (KB)**

Start Date: **2009.06.15**

End Date:

**2009.06.15**

Start Time: **10:02:11**

End Time:

**14:40:35**

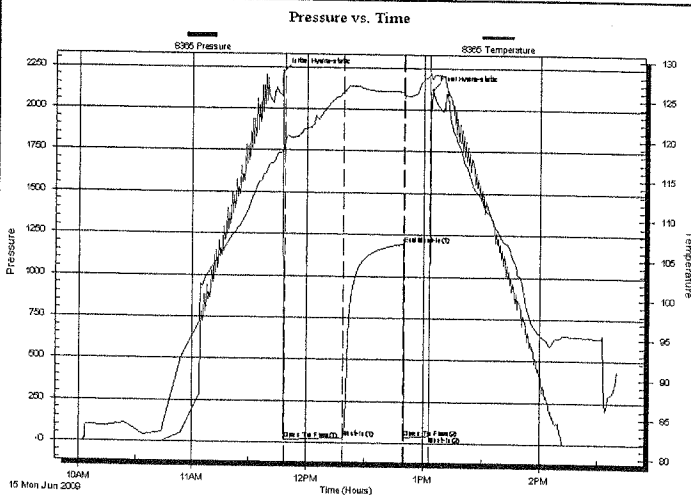
Capacity: **7000.00 psig**

Last Calib.: **2009.06.15**

Time On Btm: **2009.06.15 @ 11:48:06**

Time Off Btm: **2009.06.15 @ 13:04:36**

TEST COMMENT: IFP-wk bl thru-out 1/4" to 1" bl  
FFP-surface bl  
Times 30-30-15-out



## PRESSURE SUMMARY

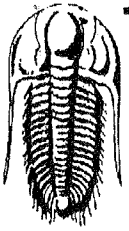
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.83	118.67	Initial Hydro-static
1	16.17	118.74	Open To Flow (1)
31	31.15	126.07	Shut-In(1)
62	1194.27	125.99	End Shut-In(1)
62	34.42	125.25	Open To Flow (2)
75	43.99	128.16	Shut-In(2)
77	2118.19	127.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	CO	0.00
60.00	SOCMW 2%O25%M73%W	0.30

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum LTD

Cheney-Frickey Unit #1-1

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

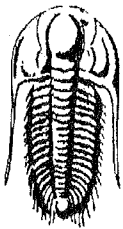
1-15s-27w Gove KS  
Job Ticket: 36439      DST#: 5  
Test Start: 2009.06.15 @ 10:02:11

## Tool Information

Drill Pipe:	Length: 3929.00 ft	Diameter: 3.80 inches	Volume: 55.11 bbl	Tool Weight: 2200.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 56.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4175.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	41.02 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			4155.00	
Shut In Tool	5.00			4160.00	
Hydraulic tool	5.00			4165.00	
Packer	5.00			4170.00	21.00      Bottom Of Top Packer
Packer	5.00			4175.00	
Stubb	1.00			4176.00	
Recorder	0.01	8365	Inside	4176.01	
Recorder	0.01	6625	Outside	4176.02	
Perforations	16.00			4192.02	
Bullnose	3.00			4195.02	20.02      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.02</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pintail Petroleum LTD

**Cheney-Frickey Unit #1-1**

225 N. Market  
Ste 300  
Wichita Ks 67202  
ATTN: Flip Phillips

**1-15s-27w Gove KS**  
Job Ticket: 36439      **DST#: 5**  
Test Start: 2009.06.15 @ 10:02:11

## 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:	30000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	CO	0.005
60.00	SOCMW 2%O25%M73%W	0.295

Total Length: 61.00 ft      Total Volume: 0.300 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .2 @ 78F

Serial #: 8365

Inside

Pintail Petroleum LTD

1-15s-27w Gove KS

DST Test Number: 5

### Pressure vs. Time

