

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: Pintail Petroleum Ltd

225 N Market Ste 300  
Wichita, KS 67202

CONFIDENTIAL

AUG 05 2009

ATTN: Flip Phillips

29-14s-28w Gove, KS

Beesley DPR #1-29

Start Date: 2009.05.26 @ 21:20:48

End Date: 2009.05.27 @ 04:05:42

Job Ticket #: 34753 DST #: 1

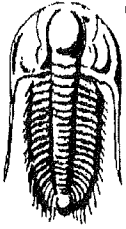
KANSAS CORPORATION COMMISSION

AUG 10 2009  
RECEIVED

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Pntail Petroleum Ltd  
 225 N Market Ste 300  
 Wichita, KS 67202  
 ATTN: Flip Phillips

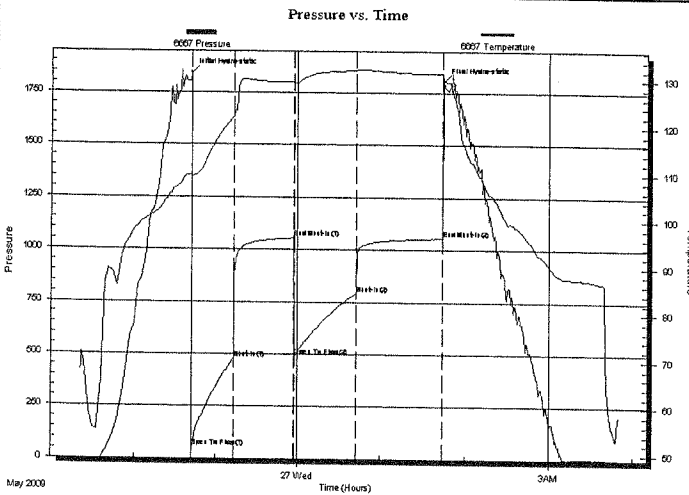
**Beesley DPR #1-29**  
**29-14s-28w Gove, KS**  
 Job Ticket: 34753      DST#: 1  
 Test Start: 2009.05.26 @ 21:20:48

## GENERAL INFORMATION:

Formation: F  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 22:42:13  
 Time Test Ended: 04:05:42  
 Interval: **3786.00 ft (KB) To 3827.00 ft (KB) (TVD)**  
 Total Depth: 3827.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Shane McBride  
 Unit No: 40  
 Reference Elevations: 2611.00 ft (KB)  
 2606.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6667      Inside**  
 Press@RunDepth: 790.78 psig @ 3787.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2009.05.26      End Date: 2009.05.27      Last Calib.: 2009.05.27  
 Start Time: 21:20:48      End Time: 03:50:42      Time On Btm: 2009.05.26 @ 22:41:58  
 Time Off Btm: 2009.05.27 @ 01:45:27

**TEST COMMENT:** B.O.B. in 3 min  
 No return  
 B.O.B. in 4 1/2 min  
 No return



## PRESSURE SUMMARY

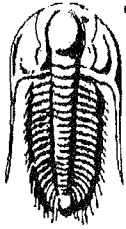
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.97	109.97	Initial Hydro-static
1	56.00	109.53	Open To Flow (1)
31	478.61	122.24	Shut-In(1)
76	1053.38	129.55	End Shut-In(1)
76	491.97	129.41	Open To Flow (2)
121	790.78	132.12	Shut-In(2)
183	1054.35	131.42	End Shut-In(2)
184	1802.67	130.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1426.00	water 100%w	17.77
124.00	s m c w 15% m 85% w	1.74
124.00	m c w 40% m 60% w	1.74

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum Ltd

**Beesley DPR #1-29**

225 N Market Ste 300  
Wichita, KS 67202

**29-14s-28w Gove, KS**

Job Ticket: 34753

**DST#: 1**

ATTN: Flip Phillips

Test Start: 2009.05.26 @ 21:20:48

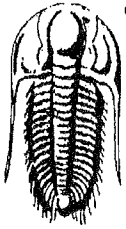
## Tool Information

Drill Pipe:	Length: 3546.00 ft	Diameter: 3.80 inches	Volume: 49.74 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 50.94 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3786.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	61.00 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			3767.00	
Shut In Tool	5.00			3772.00	
Hydraulic tool	5.00			3777.00	
Packer	5.00			3782.00	20.00 Bottom Of Top Packer
Packer	4.00			3786.00	
Stubb	1.00			3787.00	
Recorder	0.00	6667	Inside	3787.00	
Recorder	0.00	6771	Outside	3787.00	
Perforations	2.00			3789.00	
Change Over Sub	1.00			3790.00	
Drill Pipe	31.00			3821.00	
Change Over Sub	1.00			3822.00	
Bullnose	5.00			3827.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pintail Petroleum Ltd  
225 N Market Ste 300  
Wichita, KS 67202  
ATTN: Flip Phillips

**Beesley DPR #1-29**  
**29-14s-28w Gove, KS**  
Job Ticket: 34753      **DST#: 1**  
Test Start: 2009.05.26 @ 21:20:48

## 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:	35000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.56 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1426.00	water 100%w	17.771
124.00	s m c w 15%m 85%w	1.739
124.00	m c w 40%m 60%w	1.739

Total Length: 1674.00 ft      Total Volume: 21.249 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: rw .247 @ 54\*f = 35,000 chlor

DST Test Number: 1

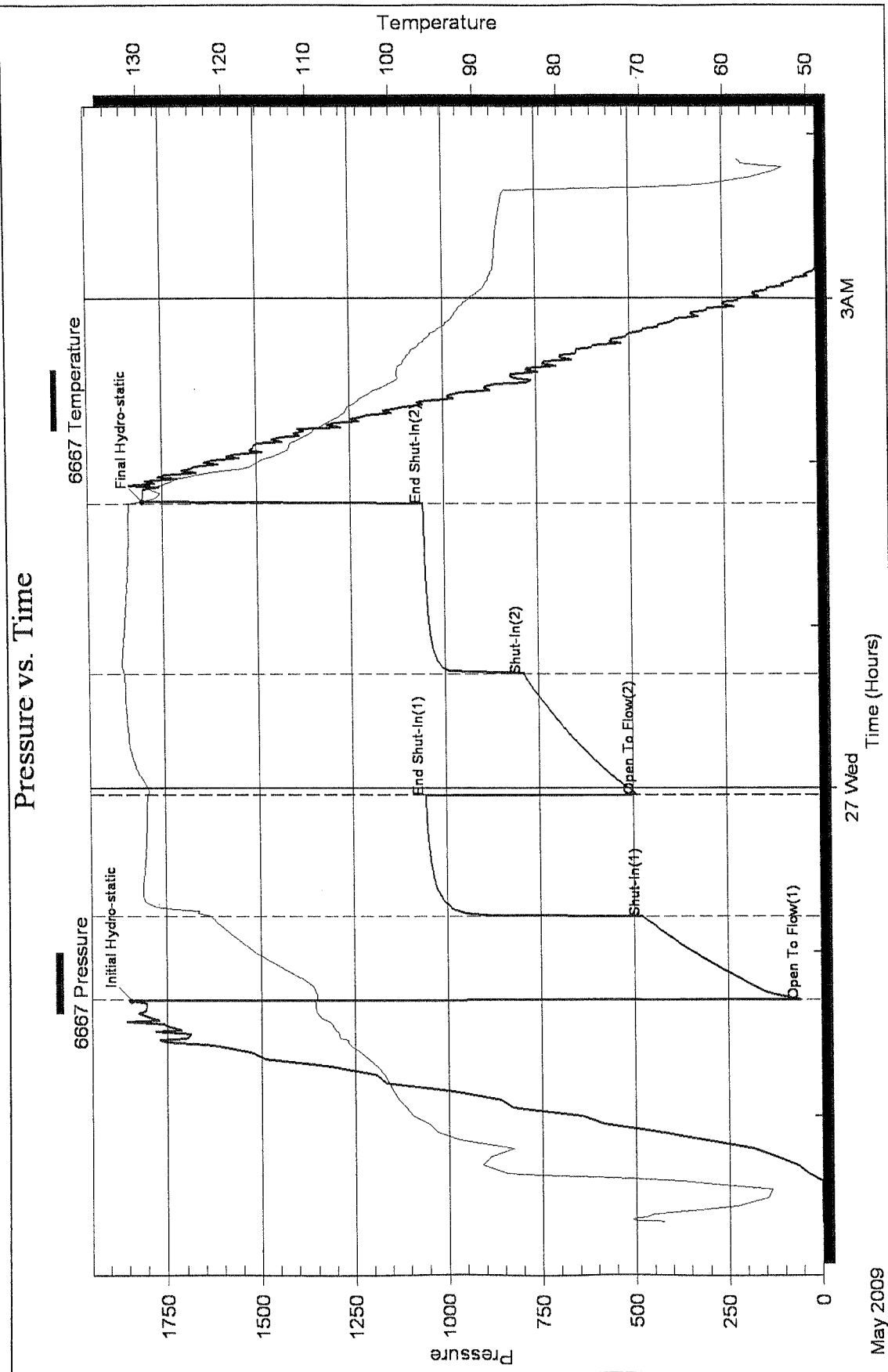
29-14s-28w Gove, KS

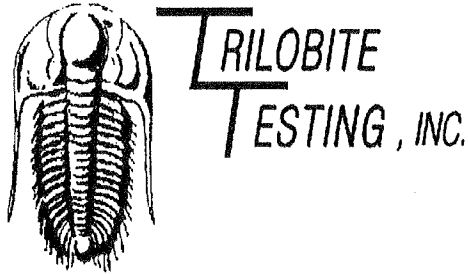
Rintail Petroleum Ltd

Inside

Serial #: 6667

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum Ltd**

225 N Market Ste 300  
Wichita, KS 67202

ATTN: Flip Phillips

**29-14s-28w Gove, KS**

**Beesley DPR #1-29**

Start Date: 2009.05.27 @ 15:40:32

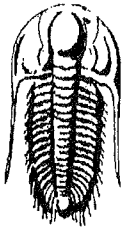
End Date: 2009.05.27 @ 22:30:11

Job Ticket #: 34754                      DST #: 2

Trilobite Testing, Inc

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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

**Beesley DPR #1-29**  
**29-14s-28w Gove, KS**  
 Job Ticket: 34754      DST#: 2  
 Test Start: 2009.05.27 @ 15:40:32

## GENERAL INFORMATION:

Formation: H-I-J  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:19:12  
 Time Test Ended: 22:30:11

Test Type: Conventional Bottom Hole  
 Tester: Shane McBride  
 Unit No: 40

Interval: **3908.00 ft (KB) To 3970.00 ft (KB) (TVD)**  
 Total Depth: 3970.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2611.00 ft (KB)  
 2606.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6667

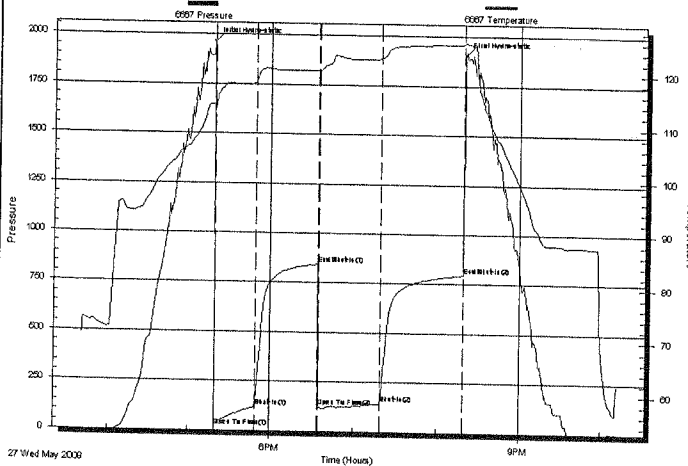
Inside

Press@RunDepth: 142.95 psig @ 3909.00 ft (KB)  
 Start Date: 2009.05.27      End Date: 2009.05.27  
 Start Time: 15:40:32      End Time: 22:13:11

Capacity: 7000.00 psig  
 Last Calib.: 2009.05.27  
 Time On Btm: 2009.05.27 @ 17:18:42  
 Time Off Btm: 2009.05.27 @ 20:19:42

TEST COMMENT: B.O.B. in 10 min.  
 No return  
 B.O.B. in 8 min.  
 Return blow in 3 min built to 3 1/2" in

Pressure vs. Time



## PRESSURE SUMMARY

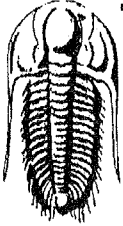
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.05	114.21	Initial Hydro-static
1	19.97	113.87	Open To Flow (1)
31	119.56	118.04	Shut-In(1)
75	844.09	120.60	End Shut-In(1)
76	124.87	120.37	Open To Flow (2)
121	142.95	122.88	Shut-In(2)
180	795.18	125.70	End Shut-In(2)
181	1902.41	125.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
347.00	g o c m 20%g 35%o 45%m	2.64
0.00	1012' gas in pipe	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pntail Petroleum Ltd

**Beesley DPR #1-29**

225 N Market Ste 300  
Wichita, KS 67202

**29-14s-28w Gove, KS**

Job Ticket: 34754

**DST#: 2**

ATTN: Flip Phillips

Test Start: 2009.05.27 @ 15:40:32

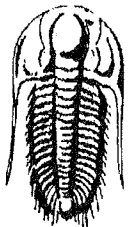
## Tool Information

Drill Pipe:	Length: 3668.00 ft	Diameter: 3.80 inches	Volume: 51.45 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3908.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 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			3889.00	
Shut In Tool	5.00			3894.00	
Hydraulic tool	5.00			3899.00	
Packer	5.00			3904.00	20.00 Bottom Of Top Packer
Packer	4.00			3908.00	
Stubb	1.00			3909.00	
Recorder	0.00	6667	Inside	3909.00	
Recorder	0.00	6771	Outside	3909.00	
Perforations	23.00			3932.00	
Change Over Sub	1.00			3933.00	
Drill Pipe	31.00			3964.00	
Change Over Sub	1.00			3965.00	
Bullnose	5.00			3970.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 82.00**



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Pintail Petroleum Ltd

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225 N Market Ste 300  
Wichita, KS 67202

29-14s-28w Gove, KS

ATTN: Flip Phillips

Job Ticket: 34754

DST#: 2

Test Start: 2009.05.27 @ 15:40:32

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 6.19 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 4500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
347.00	g o c m 20%g 35%o 45%m	2.636
0.00	1012' gas in pipe	0.000

Total Length: 347.00 ft

Total Volume: 2.636 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

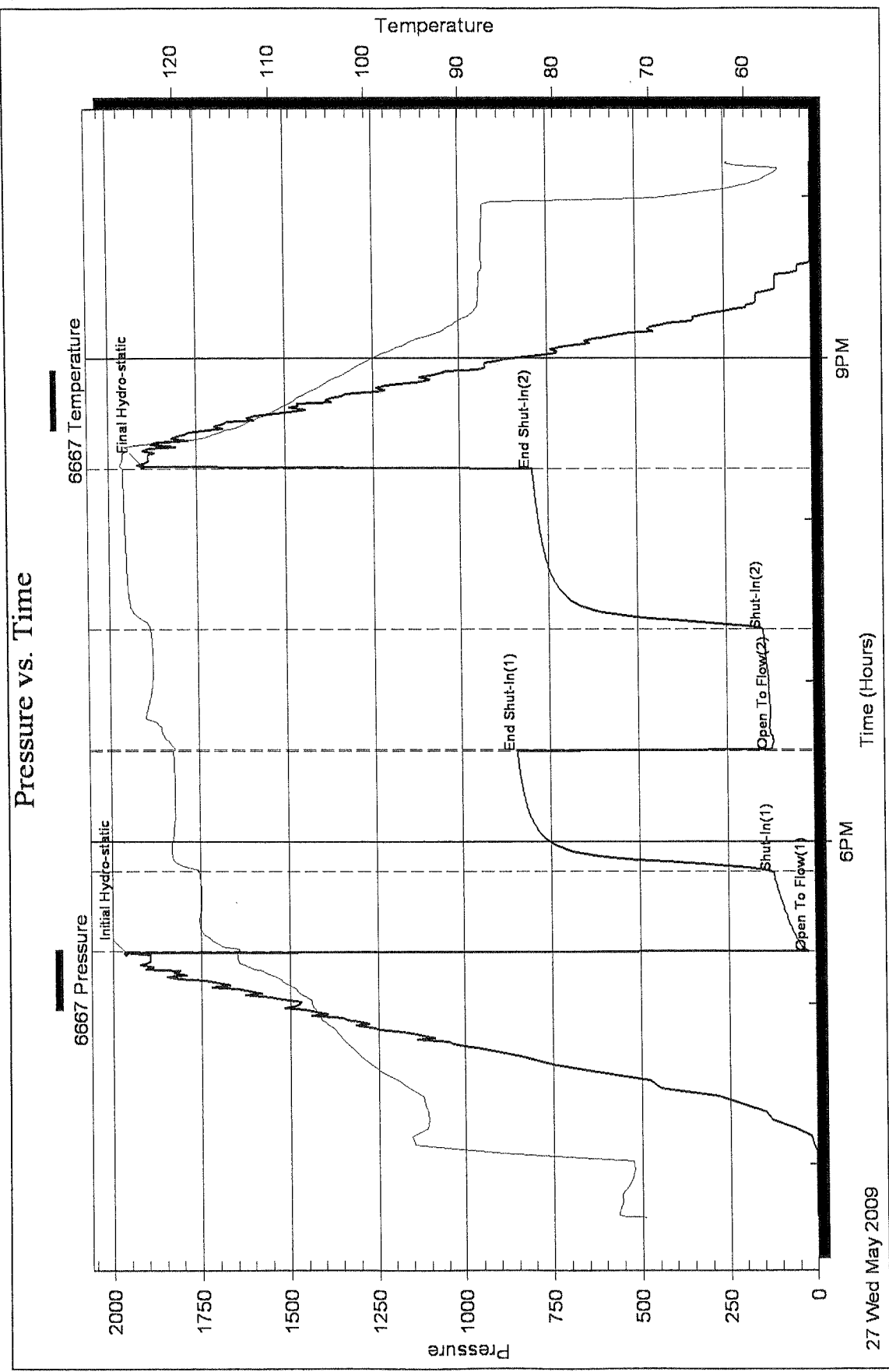
Serial #:

Laboratory Name:

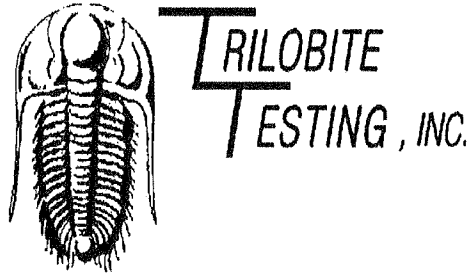
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



27 Wed May 2009



## DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum Ltd**

225 N Market Ste 300  
Wichita, KS 67202

ATTN: Flip Phillips

**29-14s-28w Gove, KS**

**Beesley DPR #1-29**

Start Date: 2009.05.28 @ 05:15:51

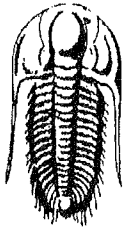
End Date: 2009.05.28 @ 09:50:00

Job Ticket #: 34755                      DST #: 3

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# DRILL STEM TEST REPORT

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225 N Market Ste 300  
Wichita, KS 67202  
ATTN: Flip Phillips

**Beesley DPR #1-29**  
**29-14s-28w Gove, KS**  
Job Ticket: 34755      **DST#: 3**  
Test Start: 2009.05.28 @ 05:15:51

## GENERAL INFORMATION:

Formation: K-L  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 06:56:46  
Time Test Ended: 09:50:00

Test Type: Conventional Bottom Hole  
Tester: Shane McBride  
Unit No: 40

Interval: **3970.00 ft (KB) To 4041.00 ft (KB) (TVD)**  
Total Depth: 4041.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair

Reference Elevations: 2611.00 ft (KB)  
2606.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 6667

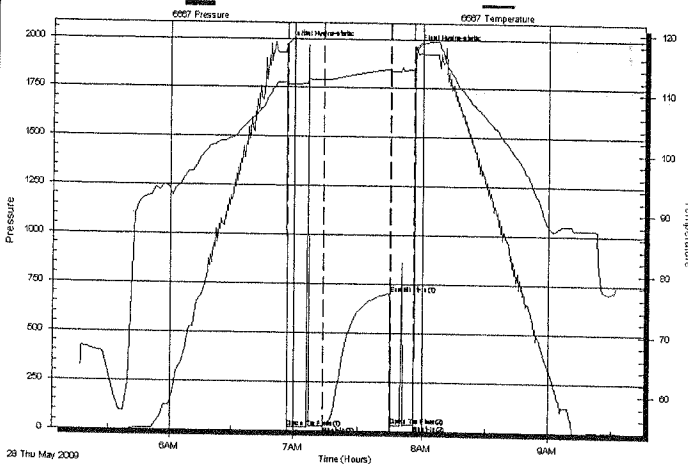
Inside

Press@RunDepth: 24.97 psig @ 3971.00 ft (KB)  
Start Date: 2009.05.28      End Date: 2009.05.28  
Start Time: 05:15:51      End Time: 09:33:00

Capacity: 7000.00 psig  
Last Calib.: 2009.05.28  
Time On Btm: 2009.05.28 @ 06:56:16  
Time Off Btm: 2009.05.28 @ 07:56:46

TEST COMMENT: 1/4" in @ open died to surface blow flush tool good surge surface blow  
No return  
No blow flush tool good surge no blow pulled tool

Pressure vs. Time



## PRESSURE SUMMARY

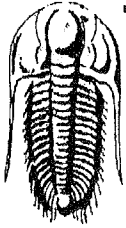
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.70	111.91	Initial Hydro-static
1	16.26	111.48	Open To Flow (1)
18	24.97	112.21	Shut-In(1)
49	703.39	114.12	End Shut-In(1)
49	26.39	113.84	Open To Flow (2)
60	31.83	114.09	Shut-In(2)
61	1954.37	115.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.05

## Gas Rates

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



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

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Wichita, KS 67202  
ATTN: Flip Phillips

**Beesley DPR #1-29**  
**29-14s-28w Gove, KS**  
Job Ticket: 34755      **DST#: 3**  
Test Start: 2009.05.28 @ 05:15:51

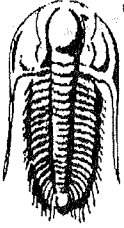
**Tool Information**

Drill Pipe:	Length: 3736.00 ft	Diameter: 3.80 inches	Volume: 52.41 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 53.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3970.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	91.00 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			3951.00	
Shut In Tool	5.00			3956.00	
Hydraulic tool	5.00			3961.00	
Packer	5.00			3966.00	20.00 Bottom Of Top Packer
Packer	4.00			3970.00	
Stubb	1.00			3971.00	
Recorder	0.00	6667	Inside	3971.00	
Recorder	0.00	6771	Outside	3971.00	
Perforations	32.00			4003.00	
Change Over Sub	1.00			4004.00	
Drill Pipe	31.00			4035.00	
Change Over Sub	1.00			4036.00	
Bullnose	5.00			4041.00	71.00 Bottom Packers & Anchor

**Total Tool Length: 91.00**



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Wichita, KS 67202

**29-14s-28w Gove, KS**

ATTN: Flip Phillips

Job Ticket: 34755

DST#: 3

Test Start: 2009.05.28 @ 05:15:51

**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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100% <sub>m</sub>	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:

Serial #: 6667

Inside

Fintail Petroleum Ltd

29-14s-28w Gove, KS

DST Test Number: 3

### Pressure vs. Time

