

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum**

225 N Market Ste 300
Wichita KS

ATTN: Flip Phillips

10 15 21 Trego KS

Witthuhn 2-10

Start Date: 2006.12.14 @ 02:45:43

End Date: 2006.12.14 @ 09:33:07

Job Ticket #: 25547

DST #: 1

KCC
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CONFIDENTIAL

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

147287



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

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

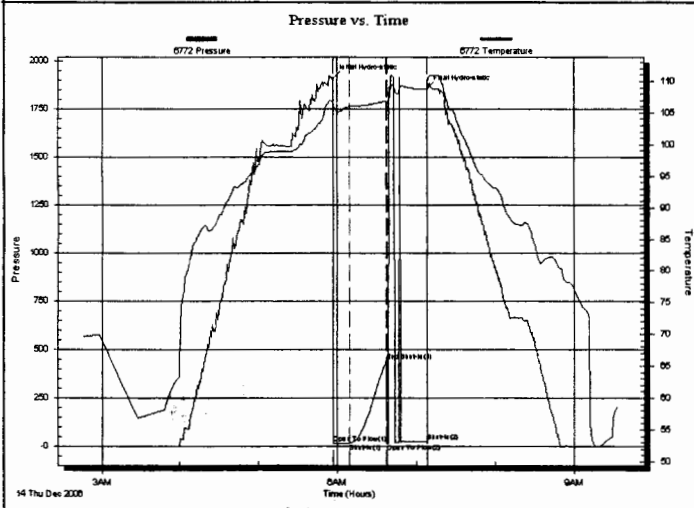
Witthuhn 2-10
10 15 21 Trego KS
Job Ticket: 25547 DST#: 1
Test Start: 2006.12.14 @ 02:45:43

GENERAL INFORMATION:

Formation: **Ft. Scott**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 05:57:08
Time Test Ended: 09:33:07
Test Type: **Conventional Bottom Hole**
Tester: **Brandon Turley**
Unit No: **35**
Interval: **3980.00 ft (KB) To 4040.00 ft (KB) (TVD)**
Total Depth: **4040.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Reference Elevations: **2192.00 ft (KB)**
2185.00 ft (CF)
KB to GR/CF: **7.00 ft**

Serial #: 6772 **Inside**
Press@RunDepth: **17.40 psig @ 3981.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2006.12.14** End Date: **2006.12.14** Last Calib.: **2006.12.14**
Start Time: **02:45:43** End Time: **09:33:07** Time On Btm: **2006.12.14 @ 05:56:53**
Time Off Btm: **2006.12.14 @ 07:08:22**

TEST COMMENT: IF 1/4 blow died in 8 min.
IS No return
FF No blow Flushed tool surface blow died in 1 min. Flushed tool surface blow died in 1 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.37	106.86	Initial Hydro-static
1	15.48	105.82	Open To Flow (1)
13	17.40	106.06	Shut-In(1)
41	442.03	106.83	End Shut-In(1)
41	17.38	106.61	Open To Flow (2)
71	25.08	108.73	Shut-In(2)
72	1853.49	109.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud Oil spots 100%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum

Witthuhn 2-10

225 N Market Ste 300
Wichita KS

10 15 21 Trego KS

Job Ticket: 25547

DST#: 1

ATTN: Flip Phillips

Test Start: 2006.12.14 @ 02:45:43

Tool Information

Drill Pipe: Length: 3860.00 ft Diameter: 4.50 inches Volume: 75.93 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 118.00 ft Diameter: 2.25 inches Volume: 0.58 bbl
Total Volume: 76.51 bbl

Tool Weight: 1500.00 lb
Weight set on Packer: 30000.00 lb
Weight to Pull Loose: 85000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 62000.00 lb
Final 62000.00 lb

Drill Pipe Above KB: 25.00 ft
Depth to Top Packer: 3980.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 60.00 ft
Tool Length: 87.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description

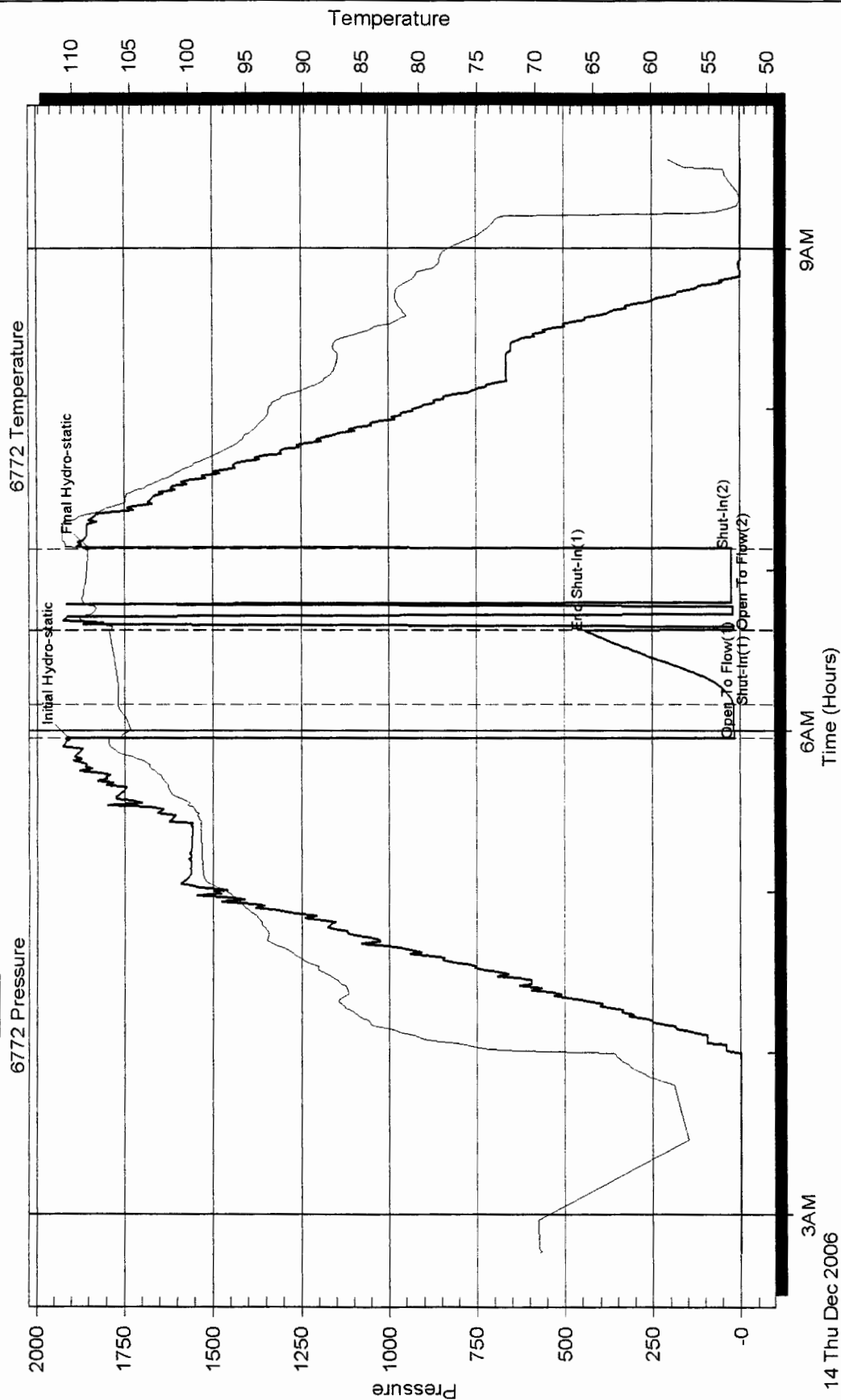
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3954.00	
Shut In Tool	5.00			3959.00	
Hydraulic tool	5.00			3964.00	
Jars	5.00			3969.00	
Safety Joint	2.00			3971.00	
Packer	5.00			3976.00	27.00 Bottom Of Top Packer
Packer	4.00			3980.00	
Stubb	1.00			3981.00	
Recorder	0.00	6772	Inside	3981.00	
Perforations	21.00			4002.00	
Change Over Sub	1.00			4003.00	
Drill Pipe	31.00			4034.00	
Change Over Sub	1.00			4035.00	
Recorder	0.00	7437	Outside	4035.00	
Bullnose	5.00			4040.00	60.00 Bottom Packers & Anchor

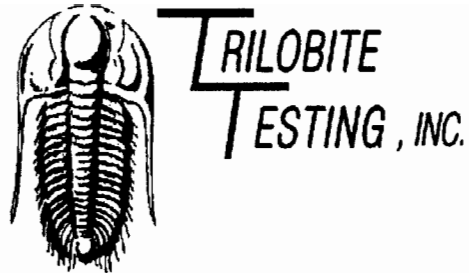
Total Tool Length: 87.00

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 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		FLUID SUMMARY																												
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Mud and Cushion Information																															
<table style="width: 100%; border: none;"> <tr> <td style="width: 45%;">Mud Type: Gel Chem</td> <td style="width: 25%;">Cushion Type:</td> <td style="width: 15%;">Oil API:</td> <td style="width: 15%;">0 deg API</td> </tr> <tr> <td>Mud Weight: 9.00 lb/gal</td> <td>Cushion Length: ft</td> <td>Water Salinity:</td> <td>0 ppm</td> </tr> <tr> <td>Viscosity: 48.00 sec/qt</td> <td>Cushion Volume: bbl</td> <td></td> <td></td> </tr> <tr> <td>Water Loss: 10.37 in³</td> <td>Gas Cushion Type:</td> <td></td> <td></td> </tr> <tr> <td>Resistivity: 0.00 ohm.m</td> <td>Gas Cushion Pressure: psig</td> <td></td> <td></td> </tr> <tr> <td>Salinity: 7100.00 ppm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Filter Cake: 2.00 inches</td> <td></td> <td></td> <td></td> </tr> </table>				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: 10.37 in ³	Gas Cushion Type:			Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig			Salinity: 7100.00 ppm				Filter Cake: 2.00 inches			
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<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 20%;">Length ft</th> <th style="width: 60%;">Description</th> <th style="width: 20%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td>15.00</td> <td>Mud Oil spots 100%M</td> <td>0.074</td> </tr> </tbody> </table>				Length ft	Description	Volume bbl	15.00	Mud Oil spots 100%M	0.074																						
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Recovery Comments:																															

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum**

225 N Market Ste 300
Wichita KS

ATTN: Flip Phillips

10 15 21 Trego KS

Witthuhn 2-10

Start Date: 2006.12.14 @ 17:18:32

End Date: 2006.12.14 @ 23:27:11

Job Ticket #: 25548 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620


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DRILL STEM TEST REPORT

Pintail Petroleum

225 N Market Ste 300
Wichita KS

ATTN: Flip Phillips

Witthuhn 2-10

10 15 21 Trego KS

Job Ticket: 25548

DST#: 2

Test Start: 2006.12.14 @ 17:18:32

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:38:57

Time Test Ended: 23:27:11

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **3990.00 ft (KB) To 4050.00 ft (KB) (TVD)**

Total Depth: 4050.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2192.00 ft (KB)

2185.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **6772**

Inside

Press@RunDepth: 21.61 psig @ 3991.00 ft (KB)

Start Date: 2006.12.14

End Date:

2006.12.14

Start Time: 17:18:32

End Time:

23:27:11

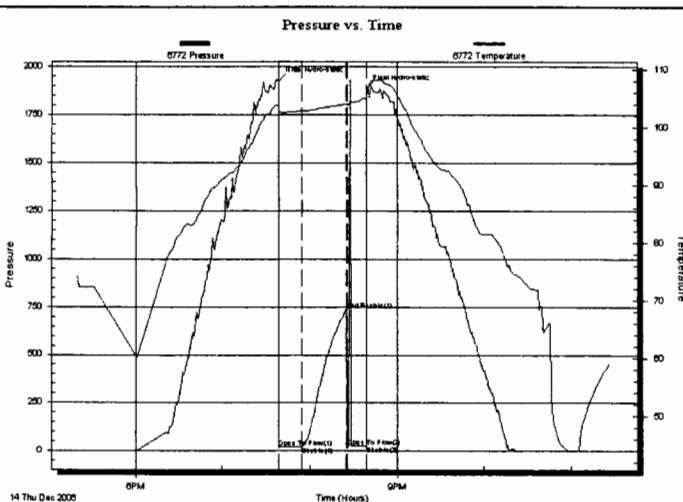
Capacity: 7000.00 psig

Last Calib.: 2006.12.14

Time On Btm: 2006.12.14 @ 19:38:42

Time Off Btm: 2006.12.14 @ 20:38:57

TEST COMMENT: IF 1/4 blow died in 10 min.
 IS No return
 FF No blow Flushed tool died in 8 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.73	103.64	Initial Hydro-static
1	18.30	103.01	Open To Flow (1)
16	21.61	102.81	Shut-In(1)
47	735.42	104.04	End Shut-In(1)
47	22.59	103.83	Open To Flow (2)
60	27.42	105.12	Shut-In(2)
61	1886.28	105.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%M	0.10

Gas Rates

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

Pintail Petroleum

225 N Market Ste 300
Wichita KS

ATTN: Flip Phillips

Witthuhn 2-10

10 15 21 Trego KS

Job Ticket: 25548

DST#: 2

Test Start: 2006.12.14 @ 17:18:32

Tool Information

Drill Pipe:	Length: 3856.00 ft	Diameter: 4.50 inches	Volume: 75.85 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:	30000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	76.43 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3990.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	87.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3964.00	
Shut In Tool	5.00			3969.00	
Hydraulic tool	5.00			3974.00	
Jars	5.00			3979.00	
Safety Joint	2.00			3981.00	
Packer	5.00			3986.00	27.00 Bottom Of Top Packer
Packer	4.00			3990.00	
Stubb	1.00			3991.00	
Recorder	0.00	6772	Inside	3991.00	
Perforations	21.00			4012.00	
Change Over Sub	1.00			4013.00	
Drill Pipe	31.00			4044.00	
Change Over Sub	1.00			4045.00	
Recorder	0.00	7437	Outside	4045.00	
Bullnose	5.00			4050.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Pintail Petroleum 225 N Market Ste 300 Wichita KS ATTN: Flip Phillips	Witthuhn 2-10 10 15 21 Trego KS Job Ticket: 25548 DST#: 2 Test Start: 2006.12.14 @ 17:18:32	

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: 10.36 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7100.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

