

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pintail Pet**

225N. Market Ste 300
Wichita Ks 67202

ORIGINAL

ATTN: Flip Phillips

20 33s 6w

Truby D-1

Start Date: 2003.05.14 @ 07:08:17

End Date: 2003.05.14 @ 11:53:32

Job Ticket #: 17839

DST #: 1

RECEIVED
OCT 10 2003
KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

ORIGINAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

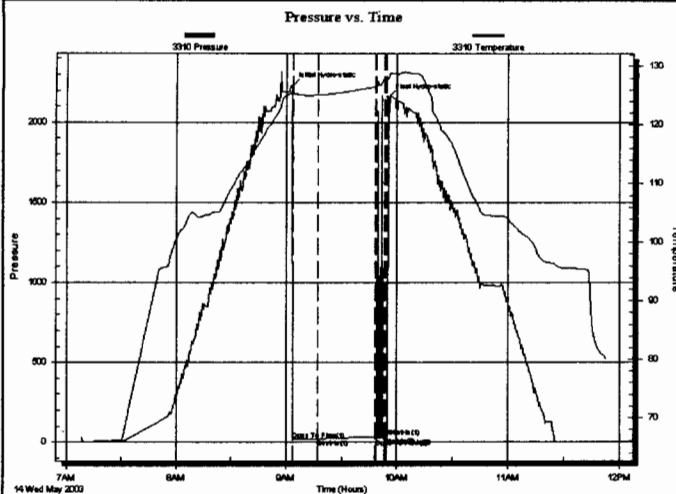
 Truby D-1
 20 33s 6w
 Job Ticket: 17839 DST#: 1
 Test Start: 2003.05.14 @ 07:08:17

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
 Time Tool Opened: 09:03:17 Tester: **Wenrich**
 Time Test Ended: 11:53:32 Unit No: **24**
 Interval: **4416.00 ft (KB) To 4434.00 ft (KB) (TVD)** Reference Elevations: **1307.00 ft (KB)**
 Total Depth: **4434.00 ft (KB) (TVD)** **1302.00 ft (CF)**
 Hole Diameter: **7.79 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: **3310** Inside
 Press@RunDepth: **28.56 psig @ 4417.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2003.05.14** End Date: **2003.05.14** Last Calib.: **1899.12.30**
 Start Time: **07:08:22** End Time: **11:53:31** Time On Btm: **2003.05.14 @ 09:02:47**
 Time Off Btm: **2003.05.14 @ 09:55:17**

TEST COMMENT: IF:Weak blow .1/4" in bucket.
 IS:No blow.
 FF:Weak blow .1/4" in bucket.Flush tool:Weak blow .1/4" in bucket.
 FS:None



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.23	125.44	Initial Hydro-static
1	16.02	125.49	Open To Flow (1)
15	19.77	125.09	Shut-in(1)
46	33.18	126.52	End Shut-in(1)
46	21.85	126.54	Open To Flow (2)
51	28.56	127.81	Shut-in(2)
52	28.28	127.84	End Shut-in(2)
53	2156.11	128.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	m	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
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DRILL STEM TEST REPORT
TOOL DIAGRAM

Pintail Pet

Truby D-1

 225N. Market Ste 300
 Wichita Ks 67202

20 33s 6w

Job Ticket: 17839

DST#: 1

ATTN: Flip Phillips

Test Start: 2003.05.14 @ 07:08:17

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4416.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4397.00	
S.I. Tool	5.00			4402.00	
HMV	5.00			4407.00	
Packer	4.00			4411.00	20.00 Bottom Of Top Packer
Packer	5.00			4416.00	
Stubb	1.00			4417.00	
Recorder	0.00	3310	Inside	4417.00	
Perforations	15.00			4432.00	
Recorder	0.00	10242	Outside	4432.00	
Bullnose	2.00			4434.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



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FLUID SUMMARY

Pintail Pet
225N. Market Ste 300
Wichita Ks 67202

ATTN: Flip Phillips

Truby D-1
20 33s 6w
Job Ticket: 17839 **DST#: 1**
Test Start: 2003.05.14 @ 07:08:17

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:	9.99 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

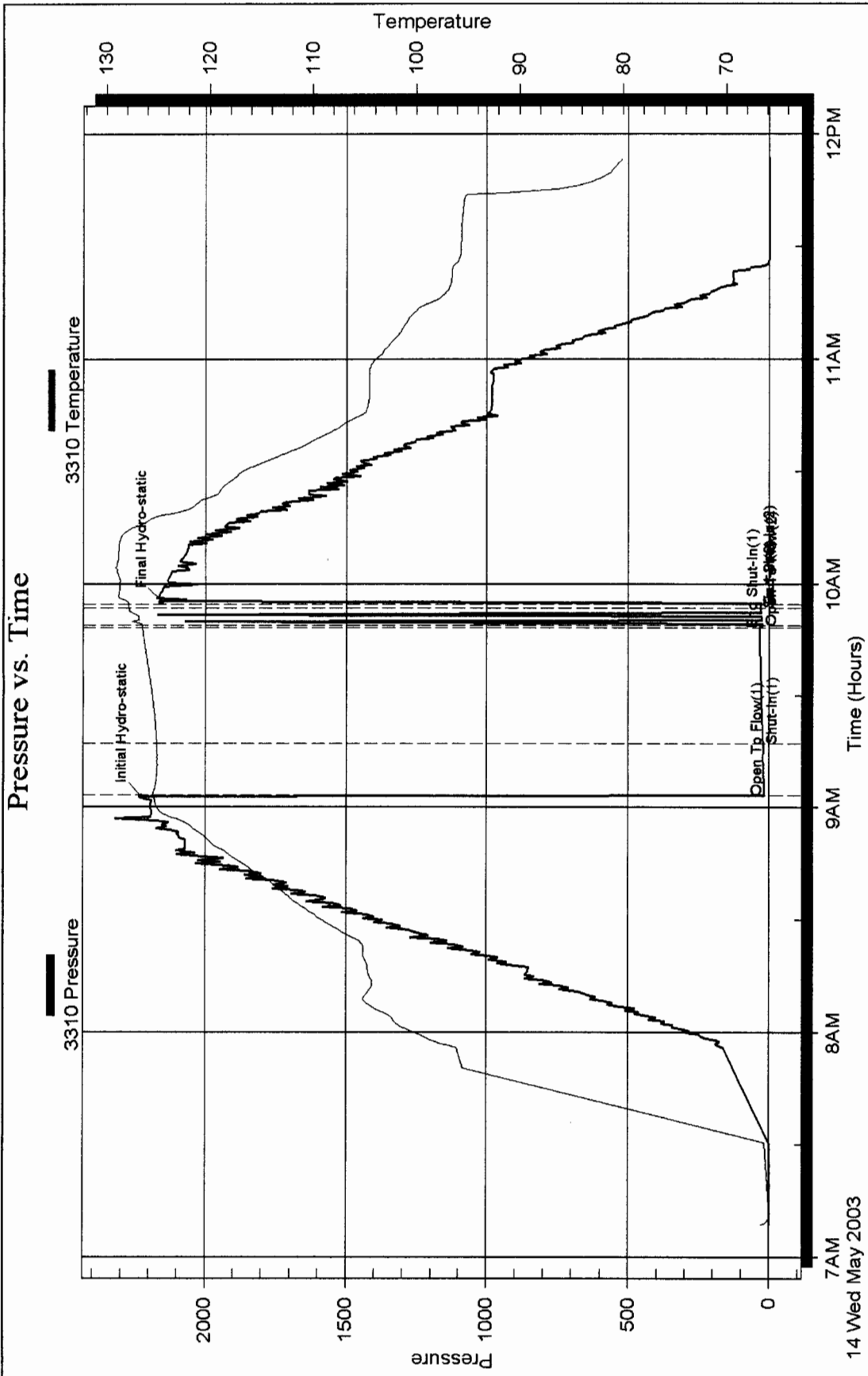
DST Test Number: 1

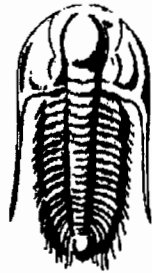
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Inside Pntail Pet

Serial #: 3310

Pressure vs. Time





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Prepared For: **Pintail Pet**

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ATTN: Flip Phillips

20 33s 6w

Truby D-1

Start Date: 2003.05.14 @ 17:40:18

End Date: 2003.05.15 @ 00:49:18

Job Ticket #: 17840

DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Pintail Pet

Truby D-1

20 33s 6w

DST # 2

Miss

2003.05.14



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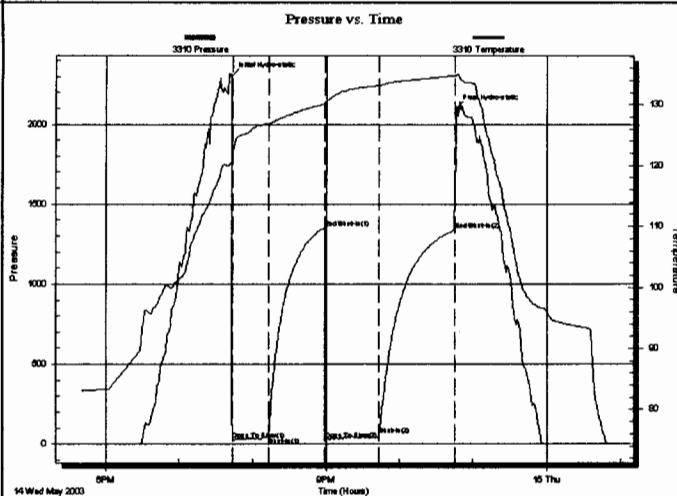
Truby D-1
20 33s 6w
Job Ticket: 17840 DST#: 2
Test Start: 2003.05.14 @ 17:40:18

GENERAL INFORMATION:

Formation: **Miss**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 19:43:33
Time Test Ended: 00:49:18
Interval: **4434.00 ft (KB) To 4460.00 ft (KB) (TVD)**
Total Depth: **4460.00 ft (KB) (TVD)**
Hole Diameter: **7.79 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Wenrich**
Unit No: **24**
Reference Elevations: **1307.00 ft (KB)**
1302.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: **3310** Inside
Press@RunDepth: **54.85 psig @ 4435.00 ft (KB)**
Start Date: **2003.05.14** End Date: **2003.05.15**
Start Time: **17:40:23** End Time: **00:49:17**
Capacity: **7000.00 psig**
Last Calib.: **1899.12.30**
Time On Btm: **2003.05.14 @ 19:42:33**
Time Off Btm: **2003.05.14 @ 22:46:03**

TEST COMMENT: IF: Strong blow .BOB in 15 secs.
IS: No blow .
FF: Strong blow .BOB immediately .GTS in 1.5 mins. (see gas report)
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.02	120.50	Initial Hydro-static
1	27.86	121.63	Open To Flow (1)
31	45.32	126.99	Shut-In (1)
76	1350.76	130.14	End Shut-In (1)
77	25.77	130.45	Open To Flow (2)
121	54.85	133.21	Shut-In (2)
183	1338.22	134.82	End Shut-In (2)
184	2099.11	135.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	gcmw os 2%g 98% m	0.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.00	24.43
Last Gas Rate	0.25	2.00	26.02
Max. Gas Rate	0.25	2.00	26.02



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TOOL DIAGRAM

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Job Ticket: 17840

DST#: 2

ATTN: Flip Phillips

Test Start: 2003.05.14 @ 17:40:18

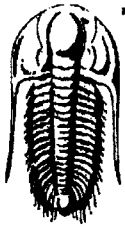
Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 59.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4434.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			4415.00	
S.I. Tool	5.00			4420.00	
HMV	5.00			4425.00	
Packer	4.00			4429.00	20.00 Bottom Of Top Packer
Packer	5.00			4434.00	
Stubb	1.00			4435.00	
Recorder	0.00	3310	Inside	4435.00	
Perforations	23.00			4458.00	
Recorder	0.00	10242	Outside	4458.00	
Bullnose	2.00			4460.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



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Job Ticket: 17840

DST#: 2

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Test Start: 2003.05.14 @ 17:40:18

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: 9.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	gcmw os 2%g 98%m	0.443

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

Pintail Pet

Truby D-1

225N. Market Ste 300
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20 33s 6w

Job Ticket: 17840

DST#: 2

ATTN: Flip Phillips

Test Start: 2003.05.14 @ 17:40:18

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	1.00	24.43
2	20	0.25	2.00	26.02
2	30	0.25	2.00	26.02
2	40	0.25	2.00	26.02
2	45	0.25	2.00	26.02

