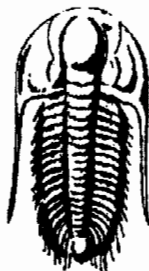


CONFIDENTIAL

15-077-21435

T. 33 S., R. 6 W., sec. 16



TRILOBITE TESTING, INC.

RELEASED FROM CONFIDENTIAL

DRILL STEM TEST REPORT

ORIGINAL

Prepared For: Pintail Pet. Ltd

225 N. Market Ste. 300
Wichita Ks. 67202

CONFIDENTIAL KCC

ATTN: Flip Phillips

NOV 20 2002

16 X 10-33s-6w Harper Ks.

CONFIDENTIAL

Truby B#2

Start Date: 2002.09.16 @ 20:03:37

End Date: 2002.09.17 @ 02:38:52

Job Ticket #: 16356 DST #: 1

Pintail Pet. Ltd

Truby B#2

16 X 10-33s-6w Harper Ks.

DST # 1

Stalemaker

2002.09.16

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

KCC
NOV 20 2002
CONFIDENTIAL

Truby B#2
10-33s-6w Harper Ks.
Job Ticket: 16356 DST#: 1
Test Start: 2002.09.16 @ 20:03:37

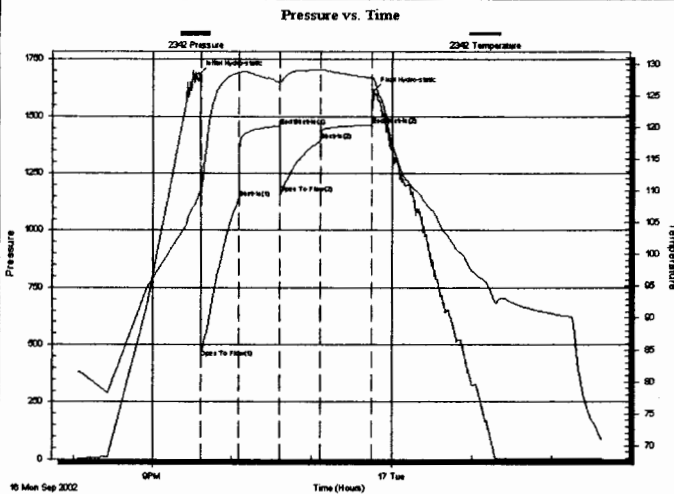
GENERAL INFORMATION:

Formation: **Stalnaker**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 21:36:52
Time Test Ended: 02:38:52
Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 23
Interval: **3567.00 ft (KB) To 3600.00 ft (KB) (TVD)**
Reference Elevations: 1330.00 ft (KB)
Total Depth: 3600.00 ft (KB) (TVD) 1325.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 5.00 ft

Serial #: **2342** Inside
Press@RunDepth: 1391.35 psig @ **3568.00 ft (KB)** Capacity: 7000.00 psig
Start Date: 2002.09.16 End Date: 2002.09.17 Last Calib.: 2002.09.17
Start Time: 20:03:38 End Time: 02:38:52 Time On Btm: 2002.09.16 @ 21:35:37
Time Off Btm: 2002.09.16 @ 23:46:22

TEST COMMENT: F:Strong blow . B.O.B. in 30 secs.
IS:No blow .
FF:Strong blow . B.O.B. in 50 secs.
FS:No blow .


CONFIDENTIAL



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.43	109.69	Initial Hydro-static
2	440.28	110.18	Open To Flow (1)
30	1139.48	128.55	Shut-In(1)
61	1457.48	127.14	End Shut-In(1)
61	1160.88	127.20	Open To Flow (2)
91	1391.35	128.99	Shut-In(2)
130	1462.60	127.78	End Shut-In(2)
131	1613.08	127.62	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2520.00	GCW 8%g 92%w Rw .08 ohms @ 68	de33.09
240.00	WM 25%w 75%m	3.37

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

 <p>TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT		TOOL DIAGRAM
	Pintail Pet. Ltd 225 N. Market Ste. 300 Wichita Ks. 67202 ATTN: Flip Phillips	<p>KCC</p> <p>NOV 20 2002</p> <p>CONFIDENTIAL</p>	Truby B#2 10-33s-6w Harper Ks. Job Ticket: 16356 DST#: 1 Test Start: 2002.09.16 @ 20:03:37


Tool Information

Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 47.96 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3567.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3548.00		
S.I. Tool	5.00			3553.00		
HMV	5.00			3558.00		
Packer	4.00			3562.00	20.00	Bottom Of Top Packer
Packer	5.00			3567.00		
Stubb	1.00			3568.00		
Recorder	0.00	2342	Inside	3568.00		
Perforations	27.00			3595.00		
Recorder	0.00	13222	Outside	3595.00		
Bullnose	5.00			3600.00	33.00	Bottom Packers & Anchor
Total Tool Length:	53.00					

 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT	FLUID SUMMARY
	Pintail Pet. Ltd 225 N. Market Ste. 300 Wichita Ks. 67202 ATTN: Flip Phillips	Truby B#2 10-33s-6w Harper Ks. Job Ticket: 16356 DST#: 1 Test Start: 2002.09.16 @ 20:03:37

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: 103000 ppm	
Viscosity: 41.00 sec/qt	Cushion Volume: bbl		
Water Loss: 25.93 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 25000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2520.00	GCW 8%g 92%w Rw .08 ohms @ 68 deg	33.090
240.00	WM 25%w 75%m	3.367

Total Length: 2760.00 ft Total Volume: 36.457 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:

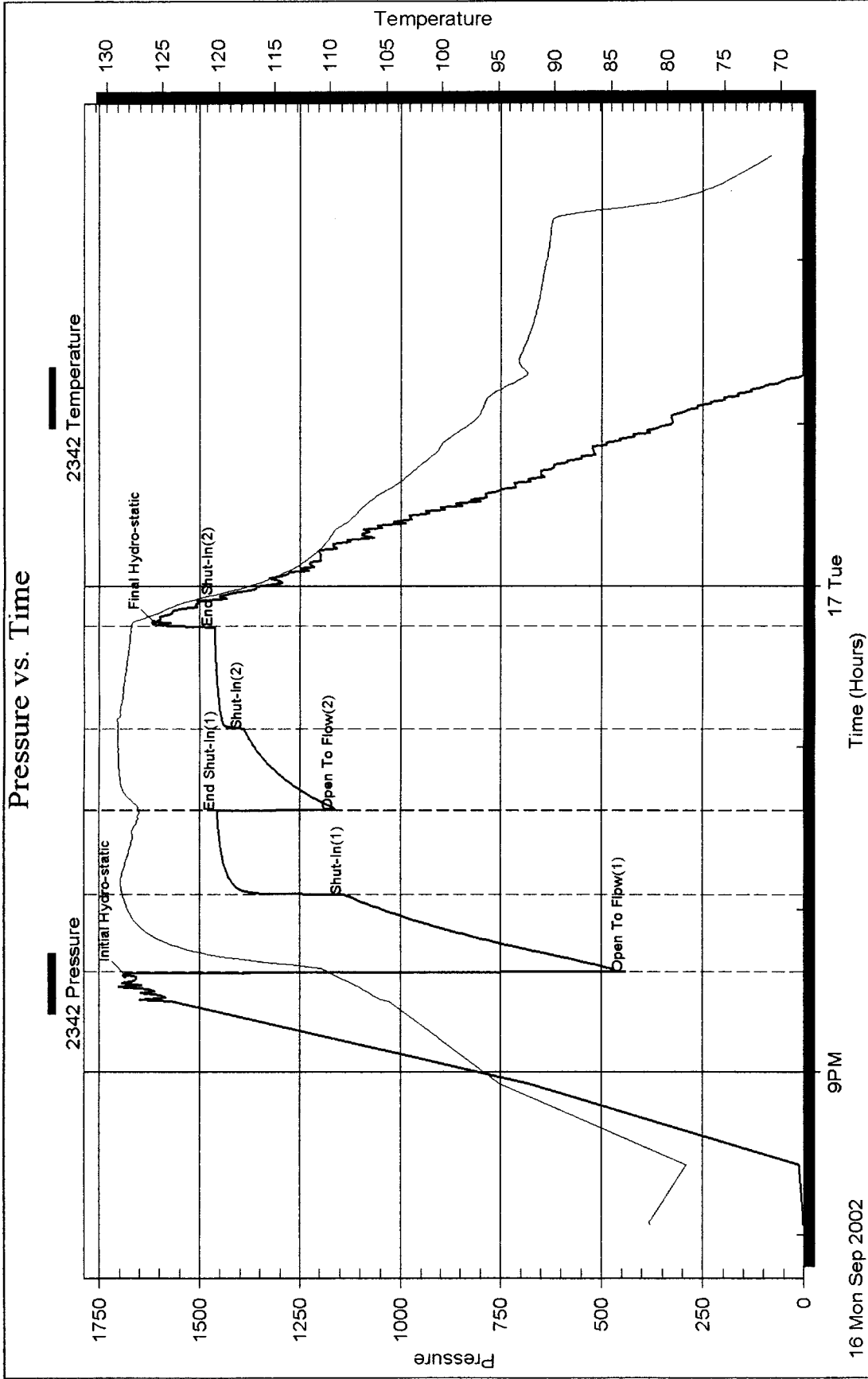
Serial #: 2342

Inside

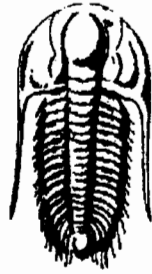
Printall Peti. Ltd

10-33s-6w Harper Ks.

DST Test Number: 1



2342



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Pintail Petl. Ltd**

225 N. Market Ste. 300
Wichita Ks. 67202

ATTN: Flip Phillips

10-33s-6w Harper Ks.

Truby B#2

Start Date: 2002.09.18 @ 17:18:19

End Date: 2002.09.18 @ 23:29:34

Job Ticket #: 16357 DST #: 2

10-33s-6w
Harper Ks.
Truby B#2

Pintail Petl. Ltd

Truby B#2

10-33s-6w Harper Ks.

DST # 2

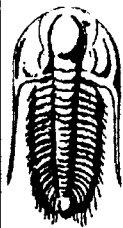
Miss.

2002.09.18

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

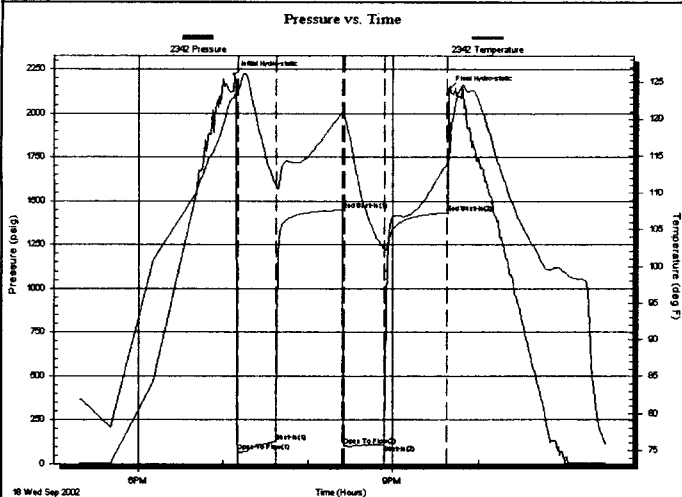
Truby B#2
10-33s-6w Harper Ks.
Job Ticket: 16357 **DST#: 2**
Test Start: 2002.09.18 @ 17:18:19

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 19:10:34
Time Test Ended: 23:29:34
Interval: **4426.00 ft (KB) To 4446.00 ft (KB) (TVD)**
Total Depth: **4446.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**
Test Type: **Conventional Bottom Hole**
Tester: **Gary Pevoteaux**
Unit No: **23**
Reference Elevations: **1330.00 ft (KB)**
1325.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 2342 **Inside**
Press@RunDepth: **108.17 psig @ 4427.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2002.09.18** End Date: **2002.09.18** Last Calib.: **2002.09.18**
Start Time: **17:18:20** End Time: **23:29:34** Time On Btm: **2002.09.18 @ 19:07:34**
Time Off Btm: **2002.09.18 @ 21:39:19**

TEST COMMENT: F:Strong blow . GTS in 5 mins. (see gas volume report)
IS:No blow .
FF:Strong blow . (see gas volume report)
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.38	122.86	Initial Hydro-static
3	67.81	123.80	Open To Flow (1)
30	126.64	110.80	Shut-In(1)
77	1448.67	120.88	End Shut-In(1)
78	105.82	120.63	Open To Flow (2)
107	108.17	102.25	Shut-In(2)
151	1432.72	114.06	End Shut-In(2)
152	2135.28	114.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Drig mud	0.54

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	26.00	272.53
Last Gas Rate	0.75	24.00	599.80
Max. Gas Rate	0.50	54.00	461.41



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Pet. Ltd
225 N. Market Ste. 300
Wichita Ks. 67202

ATTN: Flip Phillips

Truby B#2
10-33s-6w Harper Ks.
Job Ticket: 16357 **DST#: 2**
Test Start: 2002.09.18 @ 17:18:19

Tool Information

Drill Pipe:	Length: 4169.00 ft	Diameter: 3.80 inches	Volume: 58.48 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: 59.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4426.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4407.00	
S.I. Tool	5.00			4412.00	
HMV	5.00			4417.00	
Packer	4.00			4421.00	20.00 Bottom Of Top Packer
Packer	5.00			4426.00	
Stubb	1.00			4427.00	
Recorder	0.00	2342	Inside	4427.00	
Perforations	14.00			4441.00	
Recorder	0.00	13222	Outside	4441.00	
Bullnose	5.00			4446.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Truby B#2
10-33s-6w Harper Ks.
Job Ticket: 16357 **DST#: 2**
Test Start: 2002.09.18 @ 17:18:19

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:	8000 ppm
Viscosity:	44.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.78 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	Drig mud	0.541

Total Length: 110.00 ft Total Volume: 0.541 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

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

Truby B#2
10-33s-6w Harper Ks.
Job Ticket: 16357 **DST#: 2**
Test Start: 2002.09.18 @ 17:18:19

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)
1	10	0.50	26.00	272.53
1	10	0.50	26.00	272.53
1	20	0.50	44.00	393.95
1	30	0.50	54.00	461.41
2	10	0.75	22.00	568.56
2	20	0.75	24.00	599.80

Serial #: 2342

Inside

Fintail Pet. Ltd

10-33s-6w Harper Ks.

DST Test Number: 2

Pressure vs. Time

