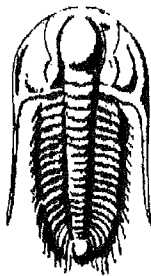


15-195-22535

23-15s-21w

KCS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum**

225 N Market St Ste 300
Wichita KS 67202

ATTN: Flip Phillips

23 15S 21W Trego KS

North "KW" #1-23

Start Date: 2008.03.24 @ 07:31:37

End Date: 2008.03.24 @ 12:48:37

Job Ticket #: 30508 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Pintail Petroleum

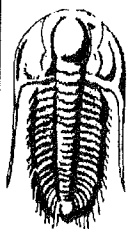
North "KW" #1-23

23 15S 21W Trego KS

DST # 1

Pawnee Sand

2008.03.24



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Pintail Petroleum

225 N Market St Ste 300
Wichita KS 67202

ATTN: Flip Phillips

North "KW" #1-23

23 15S 21W Trego KS

Job Ticket: 30508

DST#: 1

Test Start: 2008.03.24 @ 07:31:37

GENERAL INFORMATION:

Formation: **Pawnee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:07:37

Time Test Ended: 12:48:37

Interval: **4090.00 ft (KB) To 4130.00 ft (KB) (TVD)**

Total Depth: 4130.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Reference Elevations: 2290.00 ft (KB)

2285.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8374**

Inside

Press@RunDepth: 25.05 psig @ 4095.00 ft (KB)

Start Date: 2008.03.24

End Date:

2008.03.24

Start Time: 07:31:38

End Time:

12:48:37

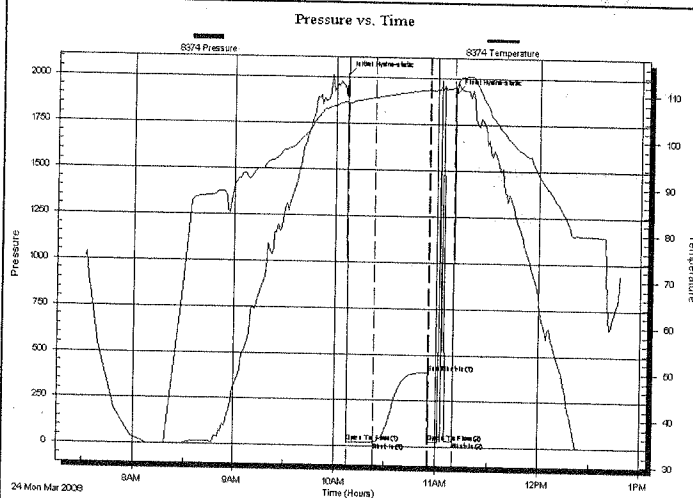
Capacity: 7000.00 psig

Last Calib.: 2008.03.24

Time On Btm: 2008.03.24 @ 10:07:07

Time Off Btm: 2008.03.24 @ 11:10:37

TEST COMMENT: IFP Weak surface blow built to 1/4 "
ISI No blow back
FFP Weak surface blow flushed tool X2 weak surface blow pulled tool



PRESSURE SUMMARY

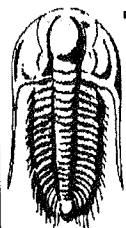
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2012.90	108.39	Initial Hydro-static
1	21.87	107.85	Open To Flow (1)
16	25.05	109.23	Shut-In (1)
48	406.24	111.05	End Shut-In (1)
49	26.72	110.85	Open To Flow (2)
63	34.91	111.49	Shut-In (2)
64	1925.02	112.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM 2% O 98% M	0.05

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

North "KW" #1-23

225 N Market St Ste 300
Wichita KS 67202

23 15S 21W Trego KS

Job Ticket: 30508

DST#: 1

ATTN: Flip Phillips

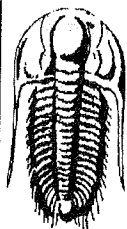
Test Start: 2008.03.24 @ 07:31:37

Tool Information

Drill Pipe:	Length: 3968.00 ft	Diameter: 3.82 inches	Volume: 56.25 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	56.85 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4090.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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			4063.00	
Shut In Tool	5.00			4068.00	
Hydraulic tool	5.00			4073.00	
Jars	5.00			4078.00	
Safety Joint	2.00			4080.00	
Packer	5.00			4085.00	28.00 Bottom Of Top Packer
Packer	5.00			4090.00	
Stubb	1.00			4091.00	
Perforations	3.00			4094.00	
Change Over Sub	1.00			4095.00	
Recorder	0.00	8374	Inside	4095.00	
Recorder	0.00	8367	Inside	4095.00	
Blank Spacing	31.00			4126.00	
Change Over Sub	1.00			4127.00	
Bullnose	3.00			4130.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum

North "KW" #1-23

225 N Market St Ste 300
Wichita KS 67202

23 15S 21W Trego KS

Job Ticket: 30508

DST#: 1

ATTN: Flip Phillips

Test Start: 2008.03.24 @ 07:31:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Mud Weight: 9.00 lb/gal

Cushion Length:

Oil API:

deg API

Viscosity: 67.00 sec/qt

Cushion Volume:

ft

Water Salinity:

ppm

Water Loss: 9.39 in³

Gas Cushion Type:

bbl

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	VSOCM 2%O 98%M	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

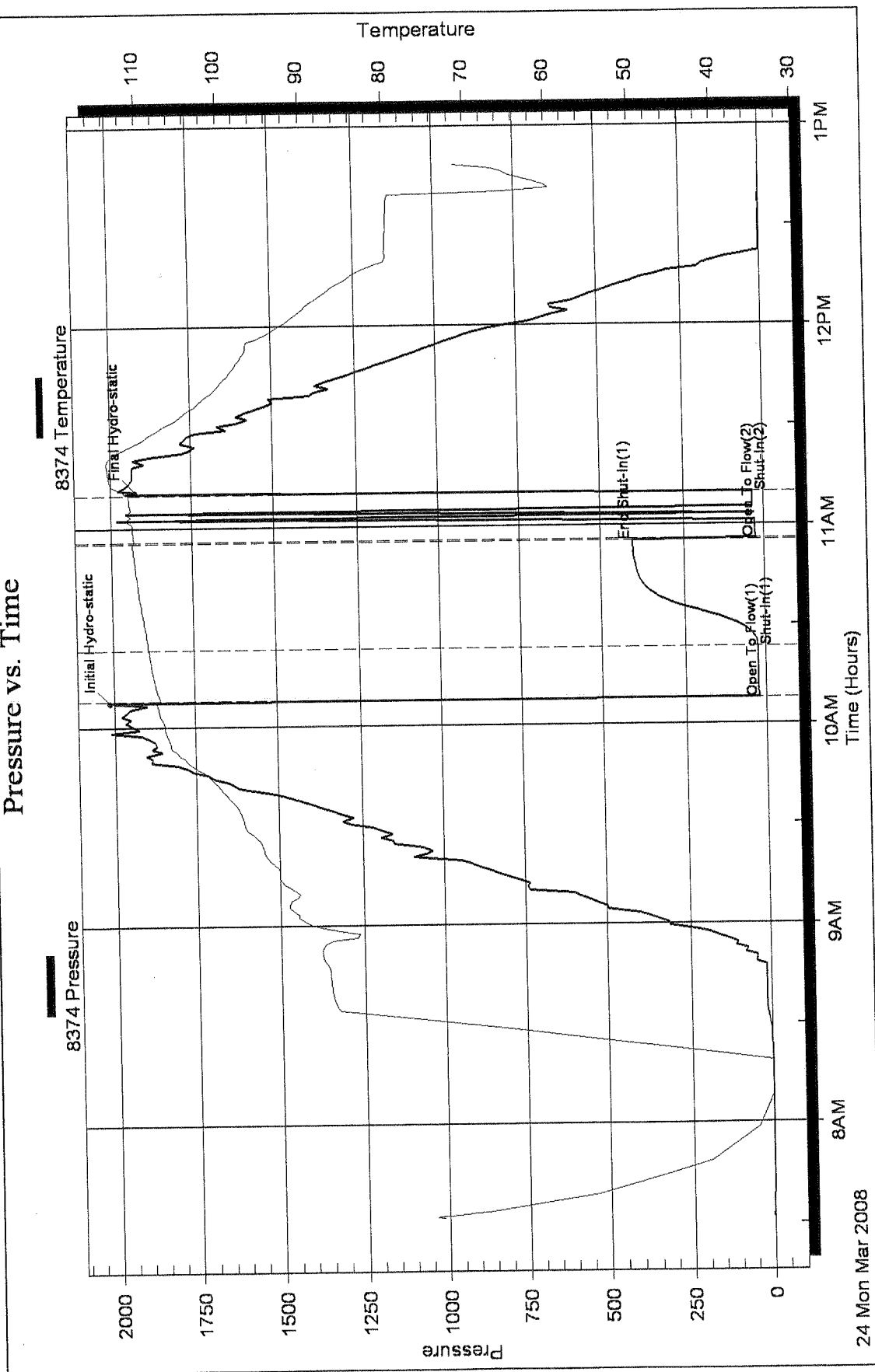
23 15S 21W Trego KS

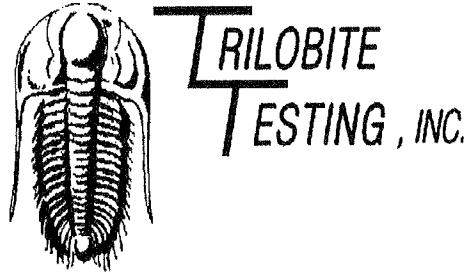
Prntail Petroleum

Inside

Serial #: 8374

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum**

225 N Market St Ste 300
Wichita KS 67202

ATTN: Flip Phillips

23 15S 21W Trego KS

North "KW" #1-23

Start Date: 2008.03.24 @ 18:15:43

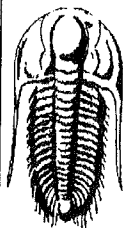
End Date: 2008.03.25 @ 00:24:43

Job Ticket #: 30509 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

Pintail Petroleum

225 N Market St Ste 300
Wichita KS 67202

ATTN: Flip Phillips

North "KW" #1-23

23 15S 21W Trego KS

Job Ticket: 30509

DST#: 2

Test Start: 2008.03.24 @ 18:15:43

GENERAL INFORMATION:

Formation: **Pawnee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:13

Time Test Ended: 00:24:43

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: **4100.00 ft (KB) To 4140.00 ft (KB) (TVD)**

Total Depth: 4140.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2290.00 ft (KB)

2285.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8374** Inside

Press@RunDepth: 302.07 psig @ 4105.00 ft (KB)

Start Date: 2008.03.24

End Date:

2008.03.25

Start Time: 18:15:44

End Time:

00:24:43

Capacity: 7000.00 psig

Last Calib.: 2008.03.24

Time On Btm: 2008.03.24 @ 20:41:43

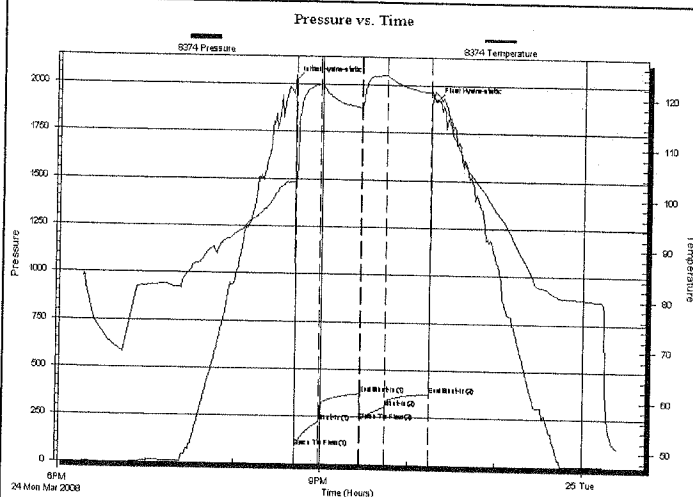
Time Off Btm: 2008.03.24 @ 22:18:43

TEST COMMENT: IFP BOB in 2.5

ISI Weak surface blow back throughout

FFP BOB in 5 min

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.40	103.21	Initial Hydro-static
1	92.82	102.80	Open To Flow (1)
17	223.33	122.46	Shut-In (1)
45	372.46	117.83	End Shut-In (1)
45	232.79	117.76	Open To Flow (2)
62	302.07	124.34	Shut-In (2)
93	375.82	120.95	End Shut-In (2)
97	1919.18	120.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	3.27
124.00	WM 50%W 50%M	1.76
124.00	WM 10%W 90%M	1.76
62.00	VSOCM 2%O 98%M	0.88

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

North "KW" #1-23

225 N Market St Ste 300
Wichita KS 67202

23 15S 21W Trego KS

Job Ticket: 30509

DST#: 2

ATTN: Flip Phillips

Test Start: 2008.03.24 @ 18:15:43

Tool Information

Drill Pipe:	Length: 3961.00 ft	Diameter: 3.82 inches	Volume: 56.15 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 56.75 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4100.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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			4073.00	
Shut In Tool	5.00			4078.00	
Hydraulic tool	5.00			4083.00	
Jars	5.00			4088.00	
Safety Joint	2.00			4090.00	
Packer	5.00			4095.00	28.00 Bottom Of Top Packer
Packer	5.00			4100.00	
Stubb	1.00			4101.00	
Perforations	3.00			4104.00	
Change Over Sub	1.00			4105.00	
Recorder	0.00	8374	Inside	4105.00	
Recorder	0.00	8367	Inside	4105.00	
Blank Spacing	31.00			4136.00	
Change Over Sub	1.00			4137.00	
Bullnose	3.00			4140.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum

North "KW" #1-23

225 N Market St Ste 300
Wichita KS 67202

23 15S 21W Trego KS

Job Ticket: 30509

DST#: 2

ATTN: Flip Phillips

Test Start: 2008.03.24 @ 18:15:43

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 67.00 sec/qt

Water Loss: 9.39 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity:

25000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	Water	3.274
124.00	WM 50%W 50%M	1.758
124.00	WM 10%W 90%M	1.758
62.00	VSOCM 2%O 98%M	0.879

Total Length: 620.00 ft

Total Volume: 7.669 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

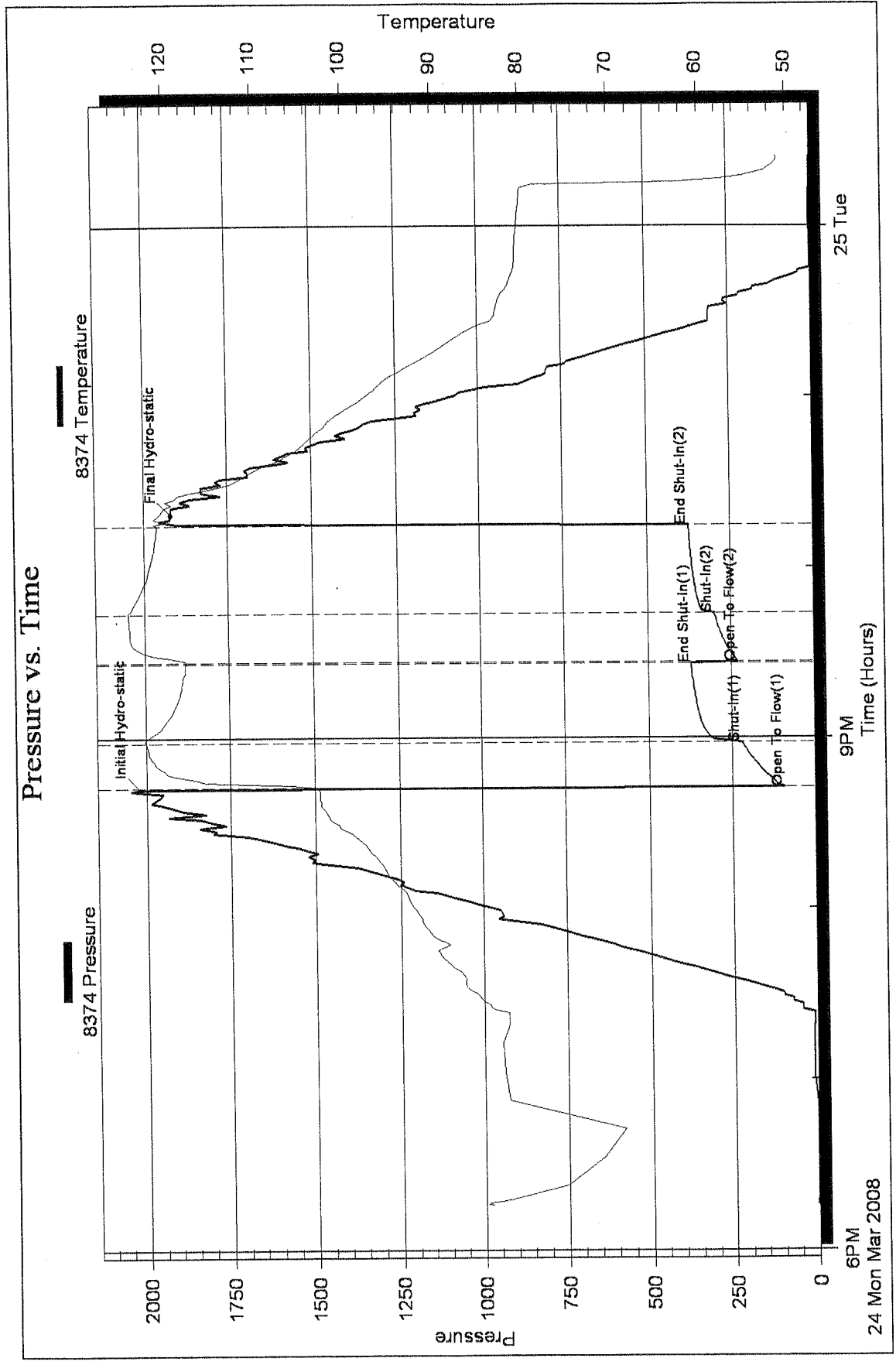
DST Test Number: 2

23 15S21W Trego KS

Inside Fintail Petroleum

Serial #: 8374

Pressure vs. Time



Ref. No: 30509

Trilobite Testing, Inc