

**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900  
Denver, CO 80202

ATTN: Bruce Ard

**22 10s 35w Thomas KS**

**Hartzfeld 1-22**

Start Date: 2011.05.16 @ 20:50:00

End Date: 2011.05.17 @ 05:05:30

Job Ticket #: 040808          DST #: 1

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Credo Petroleum Corporation

Hartzfeld 1-22

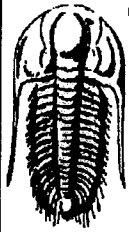
22 10s 35w Thomas KS

DST # 1

LKC-C,D

2011.05.16





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040808

**DST#: 1**

ATTN: Bruce Ard

Test Start: 2011.05.16 @ 20:50:00

**Tool Information**

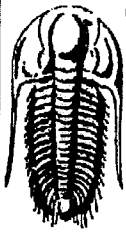
Drill Pipe:	Length: 4066.00 ft	Diameter: 3.80 inches	Volume: 57.04 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 57.63 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4185.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4162.00	
Hydraulic tool	5.00			4167.00	
Jars	5.00			4172.00	
Safety Joint	3.00			4175.00	
Packer	5.00			4180.00	28.00 Bottom Of Top Packer
Packer	5.00			4185.00	
Stubb	1.00			4186.00	
Recorder	0.00	6752	Inside	4186.00	
Recorder	0.00	8651	Outside	4186.00	
Perforations	4.00			4190.00	
Change Over Sub	1.00			4191.00	
Blank Spacing	30.00			4221.00	
Change Over Sub	1.00			4222.00	
Perforations	20.00			4242.00	
Bullnose	3.00			4245.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040808      DST#: 1

ATTN: Bruce Ard

Test Start: 2011.05.16 @ 20:50:00

## 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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.55 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
986.00	mcw - 10% m 90% w	12.738
186.00	w cm - 50% w 50% m	2.609
186.00	w cm - 20% w 80% m	2.609
10.00	mud - With 6 in. free oil on top	0.140

Total Length: 1368.00 ft

Total Volume: 18.096 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

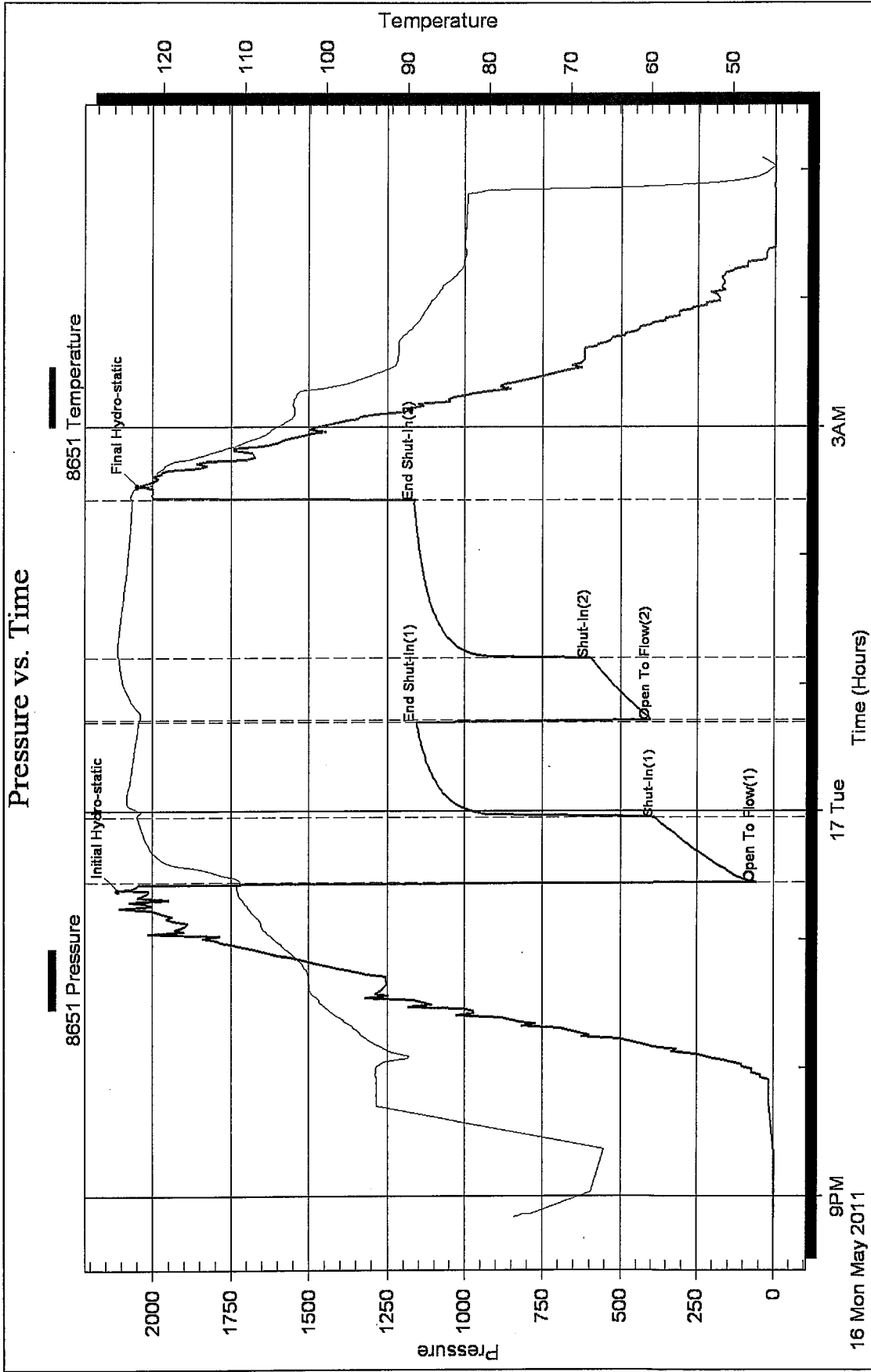
Serial #: 8651

Outside Credo Petroleum Corporation

22 10s 35w Thomas KS

DST Test Number: 1

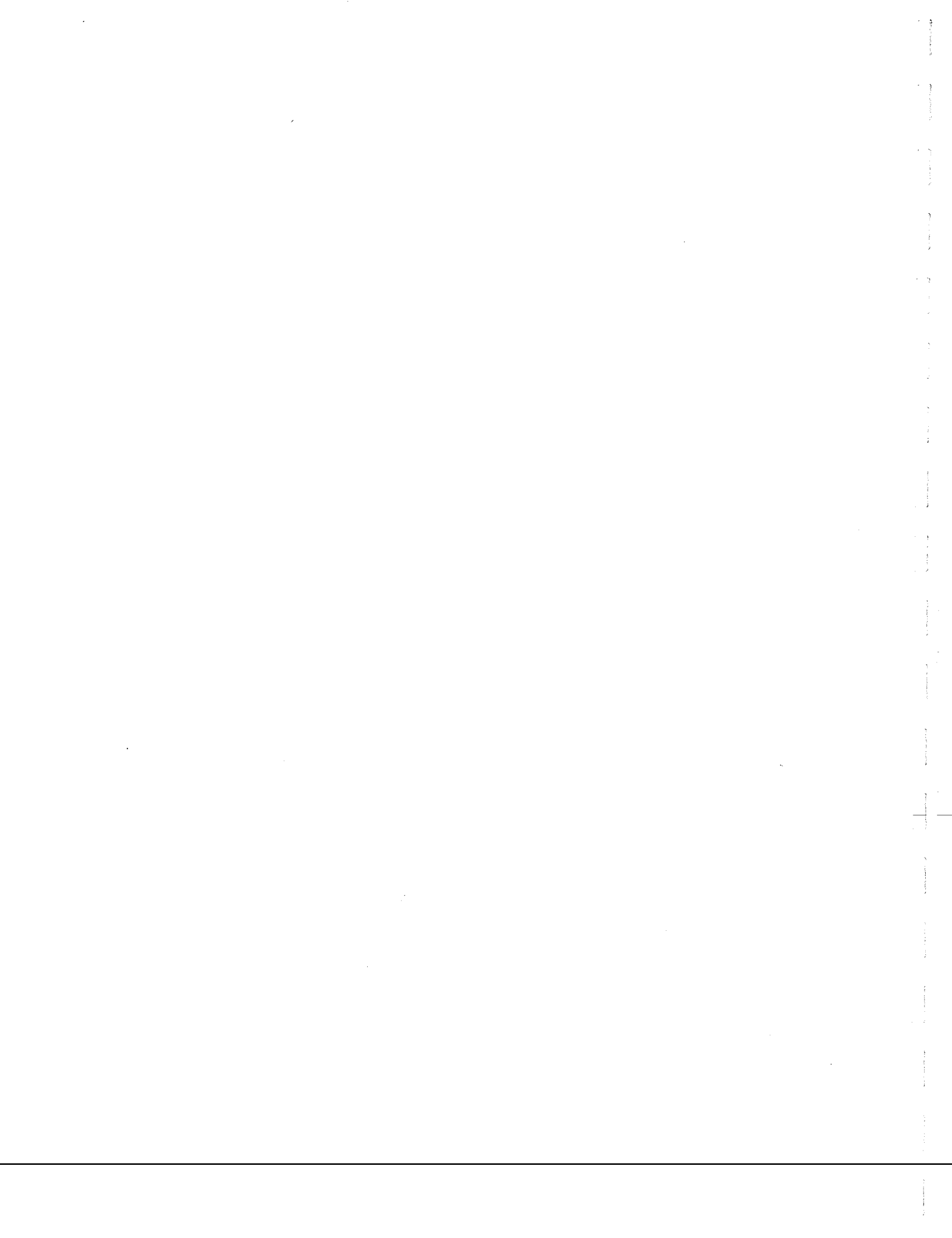
### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 040808

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## DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900  
Denver, CO 80202

ATTN: Bruce Ard

**22 10s 35w Thomas KS**

**Hartzfeld 1-22**

Start Date: 2011.05.17 @ 21:25:00

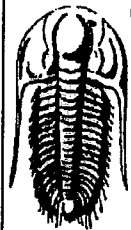
End Date: 2011.05.18 @ 05:24:00

Job Ticket #: 040809      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

**TOOL DIAGRAM**

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040809

DST#: 2

ATTN: Bruce Ard

Test Start: 2011.05.17 @ 21:25:00

## Tool Information

Drill Pipe:	Length: 4102.00 ft	Diameter: 3.80 inches	Volume: 57.54 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.13 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4242.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	156.00 ft			
Tool Length:	184.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4219.00	
Hydraulic tool	5.00			4224.00	
Jars	5.00			4229.00	
Safety Joint	3.00			4232.00	
Packer	5.00			4237.00	28.00 Bottom Of Top Packer
Packer	5.00			4242.00	
Stubb	1.00			4243.00	
Recorder	0.00	6752	Inside	4243.00	
Recorder	0.00	8651	Outside	4243.00	
Perforations	4.00			4247.00	
Change Over Sub	1.00			4248.00	
Blank Spacing	124.00			4372.00	
Change Over Sub	1.00			4373.00	
Perforations	22.00			4395.00	
Bullnose	3.00			4398.00	156.00 Bottom Packers & Anchor

**Total Tool Length: 184.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040809

**DST#: 2**

ATTN: Bruce Ard

Test Start: 2011.05.17 @ 21:25:00

### 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:

46000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.20 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
338.00	mcw -5% m 95% w	3.648
248.00	mcw -20% m 80% w	3.479
186.00	w cm 5% w 95% m	2.609

Total Length: 772.00 ft

Total Volume: 9.736 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

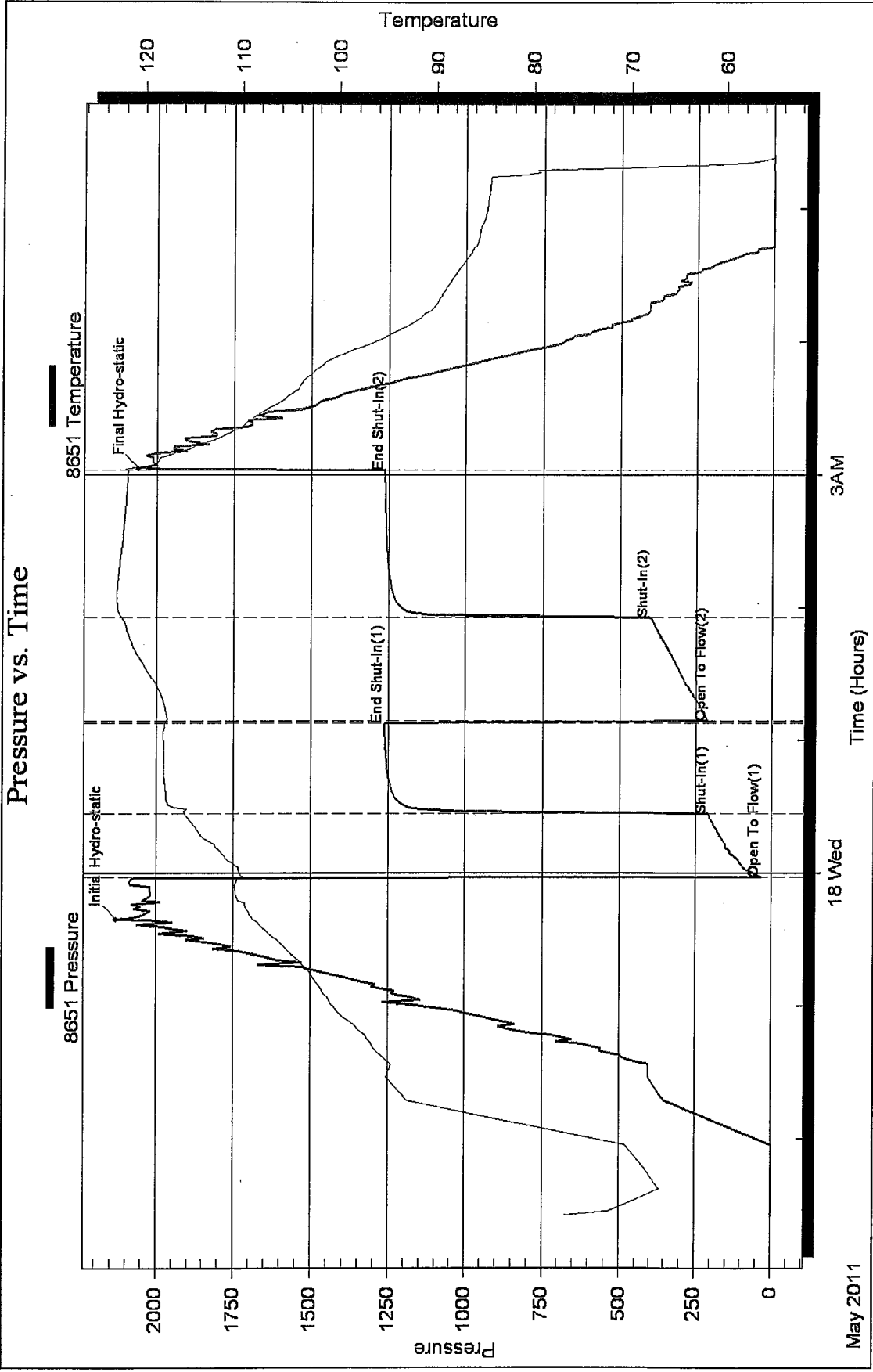
Recovery Comments:

Serial #: 8651

Outside Credo Petroleum Corporation

22 10s 35w Thomas KS

DST Test Number: 2

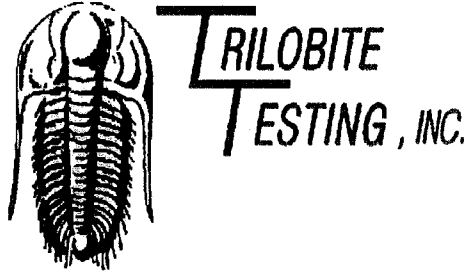


Trilobite Testing, Inc

Ref. No: 040809

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## DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900  
Denver, CO 80202

ATTN: Bruce Ard

**22 10s 35w Thomas KS**

**Hartzfeld 1-22**

Start Date: 2011.05.18 @ 20:20:00

End Date: 2011.05.19 @ 03:18:00

Job Ticket #: 040810      DST#: 3

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040810      DST#: 3

ATTN: Bruce Ard

Test Start: 2011.05.18 @ 20:20:00

## GENERAL INFORMATION:

Formation: **LKC,K- Marm.**

Deviated: No Whipstock:                      ft (KB)

Time Tool Opened: 22:26:00

Time Test Ended: 03:18:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: **4398.00 ft (KB) To 4495.00 ft (KB) (TVD)**

Total Depth: 4495.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3287.00 ft (KB)

3282.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8651**

**Outside**

Press@RunDepth: 180.09 psig @ 4399.00 ft (KB)

Start Date: 2011.05.18

End Date: 2011.05.19

Capacity: 8000.00 psig

Last Calib.: 2011.05.19

Start Time: 20:20:05

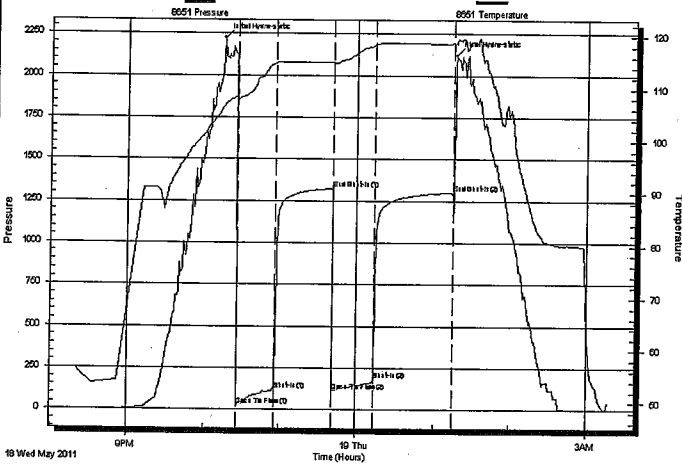
End Time: 03:17:59

Time On Btm: 2011.05.18 @ 22:15:30

Time Off Btm: 2011.05.19 @ 01:17:00

**TEST COMMENT:** IF: Weak blow, Built to 7 in. over 30 mins.  
IS: Weak blow back after 15 mins. Died in 40 mins.  
FF: Weak blow, Built to 7 in. over 30 mins.  
FSI: No blow back over 60 mins.

Pressure vs. Time



## PRESSURE SUMMARY

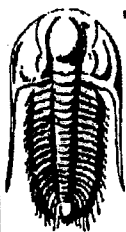
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.25	106.76	Initial Hydro-static
11	23.23	107.70	Open To Flow (1)
41	115.08	114.85	Shut-In(1)
86	1323.31	115.08	End Shut-In(1)
86	113.06	114.64	Open To Flow (2)
119	180.09	118.34	Shut-In(2)
180	1298.89	118.70	End Shut-In(2)
182	2124.22	118.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	w cm-40%w 60%m	0.59
120.00	w cm-25%w 75%m	1.68
60.00	w cm-5%w 95%m	0.84

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040810

**DST#: 3**

ATTN: Bruce Ard

Test Start: 2011.05.18 @ 20:20:00

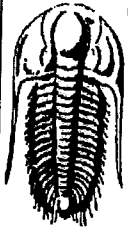
### Tool Information

Drill Pipe:	Length: 4256.00 ft	Diameter: 3.80 inches	Volume: 59.70 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
		<u>Total Volume:</u>	<u>60.29 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4398.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4375.00	
Hydraulic tool	5.00			4380.00	
Jars	5.00			4385.00	
Safety Joint	3.00			4388.00	
Packer	5.00			4393.00	28.00 Bottom Of Top Packer
Packer	5.00			4398.00	
Stubb	1.00			4399.00	
Recorder	0.00	6752	Inside	4399.00	
Recorder	0.00	8651	Outside	4399.00	
Perforations	4.00			4403.00	
Change Over Sub	1.00			4404.00	
Blank Spacing	61.00			4465.00	
Change Over Sub	1.00			4466.00	
Perforations	25.00			4491.00	
Bullnose	3.00			4494.00	96.00 Bottom Packers & Anchor

**Total Tool Length: 124.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040810

**DST#: 3**

ATTN: Bruce Ard

Test Start: 2011.05.18 @ 20:20:00

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 58000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	w cm-40%w 60%m	0.590
120.00	w cm-25%w 75%m	1.683
60.00	w cm-5%w 95%m	0.842

Total Length: 300.00 ft

Total Volume: 3.115 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

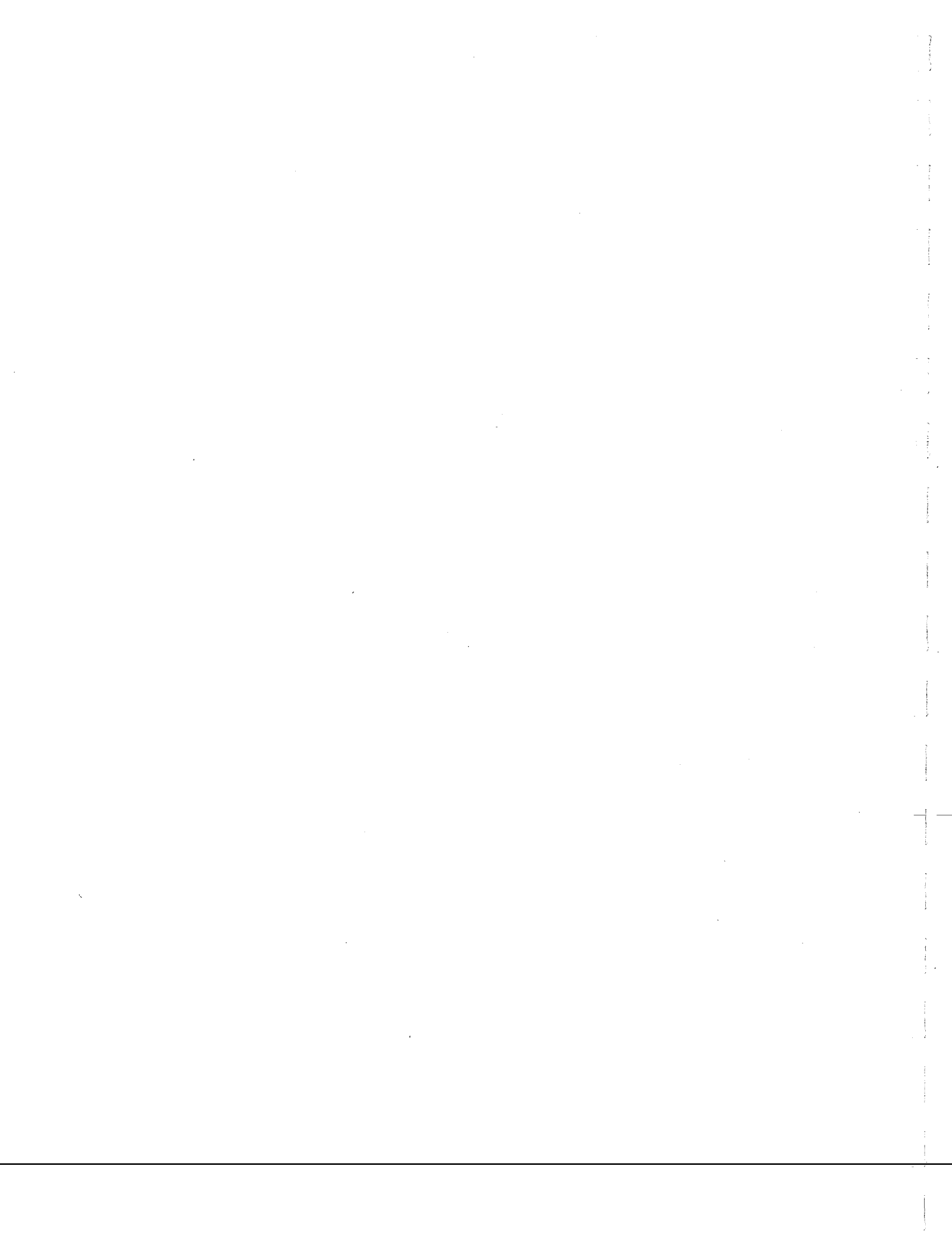
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900  
Denver, CO 80202

ATTN: Bruce Ard

**22 10s 35w Thomas KS**

**Hartzfeld 1-22**

Start Date: 2011.05.19 @ 21:30:00

End Date: 2011.05.20 @ 04:48:00

Job Ticket #: 040811      DST#: 4

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040811 **DST#: 4**

ATTN: Bruce Ard

Test Start: 2011.05.19 @ 21:30:00

## GENERAL INFORMATION:

Formation: **Marm.-Ft. Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:30:30  
 Time Test Ended: 04:48:00

Test Type: Conventional Bottom Hole  
 Tester: Chuck Kreutzer Jr.  
 Unit No: 36

Interval: **4493.00 ft (KB) To 4650.00 ft (KB) (TVD)**  
 Total Depth: 4650.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3287.00 ft (KB)  
 3282.00 ft (CF)  
 KB to GR/CF: 5.00 ft

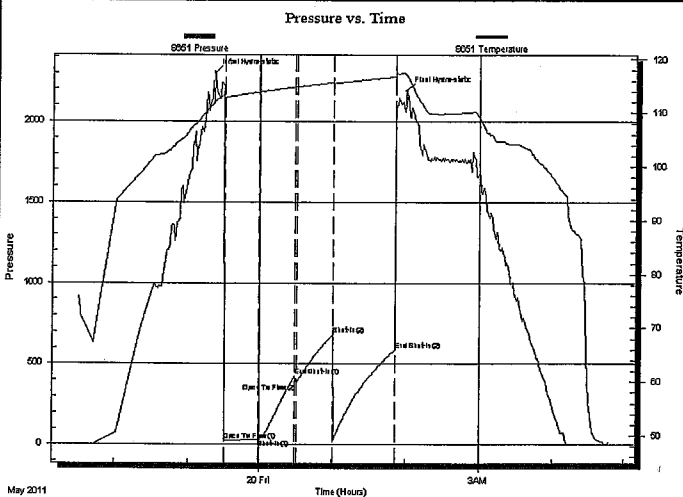
## Serial #: 8651

Outside

Press@RunDepth: 680.57 psig @ 4494.00 ft (KB)  
 Start Date: 2011.05.19 End Date: 2011.05.20  
 Start Time: 21:30:05 End Time: 04:47:59

Capacity: 8000.00 psig  
 Last Calib.: 2011.05.20  
 Time On Btm: 2011.05.19 @ 23:22:00  
 Time Off Btm: 2011.05.20 @ 02:00:00

**TEST COMMENT:** IF: Weak blow, Died in 15 mins.  
 IS: No blow back over 30 mins.  
 FF: No blow over 30 mins.  
 FS: No blow back over 45 mins.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.42	112.12	Initial Hydro-static
9	24.67	112.36	Open To Flow (1)
37	29.52	113.88	Shut-In(1)
68	425.78	114.83	End Shut-In(1)
69	375.87	114.86	Open To Flow (2)
99	680.57	115.66	Shut-In(2)
149	584.84	116.70	End Shut-In(2)
158	2190.66	116.97	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040811

**DST#: 4**

ATTN: Bruce Ard

Test Start: 2011.05.19 @ 21:30:00

### Tool Information

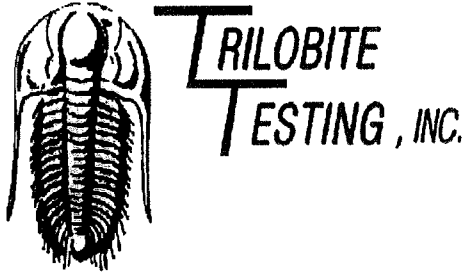
Drill Pipe:	Length: 4349.00 ft	Diameter: 3.80 inches	Volume: 61.01 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.60 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4493.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	157.00 ft			
Tool Length:	185.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4470.00	
Hydraulic tool	5.00			4475.00	
Jars	5.00			4480.00	
Safety Joint	3.00			4483.00	
Packer	5.00			4488.00	28.00 Bottom Of Top Packer
Packer	5.00			4493.00	
Stubb	1.00			4494.00	
Recorder	0.00	6752	Inside	4494.00	
Recorder	0.00	8651	Outside	4494.00	
Perforations	4.00			4498.00	
Change Over Sub	1.00			4499.00	
Blank Spacing	124.00			4623.00	
Change Over Sub	1.00			4624.00	
Perforations	23.00			4647.00	
Bullnose	3.00			4650.00	157.00 Bottom Packers & Anchor

**Total Tool Length: 185.00**

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## DRILL STEM TEST REPORT

Prepared For: **Credo Petroleum Corporation**

1801 Broadway #900  
Denver, CO 80202

ATTN: Bruce Ard

**22 10s 35w Thomas KS**

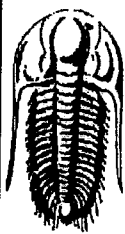
**Hartzfeld 1-22**

Start Date: 2011.05.20 @ 20:50:00

End Date: 2011.05.21 @ 03:35:30

Job Ticket #: 040812          DST#: 5

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

ATTN: Bruce Ard

Job Ticket: 040812

**DST#: 5**

Test Start: 2011.05.20 @ 20:50:00

### GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:34:30

Time Test Ended: 03:35:30

Interval: **4724.00 ft (KB) To 4764.00 ft (KB) (TVD)**

Total Depth: 4764.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Reference Elevations: 3287.00 ft (KB)

3282.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8651**

**Outside**

Press@RunDepth: 23.01 psig @ 4725.00 ft (KB)

Start Date: 2011.05.20 End Date: 2011.05.21

Start Time: 20:50:05 End Time: 03:35:29

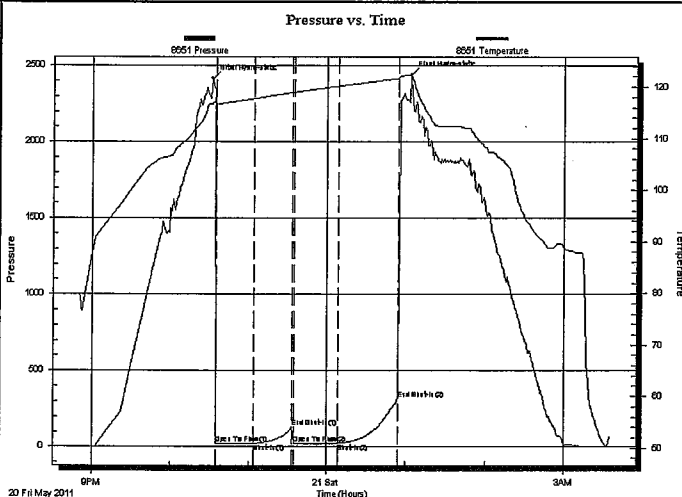
Capacity: 8000.00 psig

Last Calib.: 2011.05.21

Time On Btm: 2011.05.20 @ 22:31:30

Time Off Btm: 2011.05.21 @ 01:03:30

**TEST COMMENT:** IF: Weak blow, Died in 22 mins.  
IS: No blow back over 30 mins.  
FF: No blow over 30 mins.  
FS: No blow back over 45 mins.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2414.11	116.68	Initial Hydro-static
3	20.21	116.58	Open To Flow (1)
33	21.38	117.73	Shut-In(1)
62	126.31	118.94	End Shut-In(1)
63	21.13	118.94	Open To Flow (2)
97	23.01	120.15	Shut-In(2)
143	315.50	121.63	End Shut-In(2)
152	2439.38	122.30	Final Hydro-static

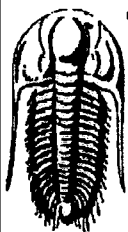
### Recovery

Length (ft)	Description	Volume (bbl)
8.00	mud	0.04

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040812      **DST#: 5**

ATTN: Bruce Ard

Test Start: 2011.05.20 @ 20:50:00

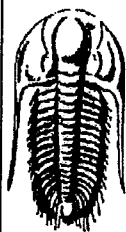
### Tool Information

Drill Pipe:	Length: 4596.00 ft	Diameter: 3.80 inches	Volume: 64.47 bbl	Tool Weight: 2600.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.06 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4724.00 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
Shut In Tool	5.00			4701.00	
Hydraulic tool	5.00			4706.00	
Jars	5.00			4711.00	
Safety Joint	3.00			4714.00	
Packer	5.00			4719.00	28.00      Bottom Of Top Packer
Packer	5.00			4724.00	
Stubb	1.00			4725.00	
Recorder	0.00	6752	Inside	4725.00	
Recorder	0.00	8651	Outside	4725.00	
Perforations	4.00			4729.00	
Perforations	32.00			4761.00	
Bullnose	3.00			4764.00	40.00      Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Credo Petroleum Corporation

**Hartzfeld 1-22**

1801 Broadway #900  
Denver, CO 80202

**22 10s 35w Thomas KS**

Job Ticket: 040812      DST#: 5

ATTN: Bruce Ard

Test Start: 2011.05.20 @ 20:50:00

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohmm	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	mud	0.039

Total Length: 8.00 ft      Total Volume: 0.039 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

